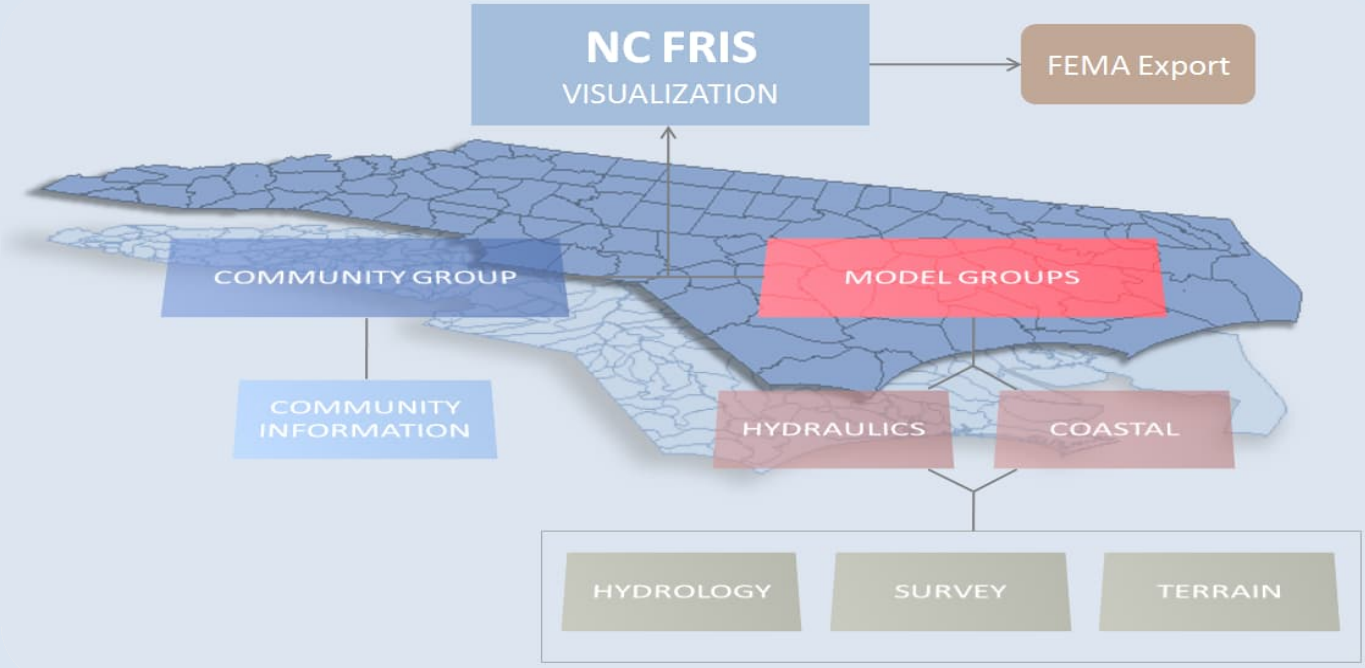
NORTH CAROLINA FLOODPLAIN MAPPING PROGRAM

COOPERATING TECHNICAL STATE
NCFMP FLOOD Geodatabase Dictionary



Prepared by the:

State of North Carolina and the
Federal Emergency Management Agency

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Version 1.18

Table of Revisions for the North Carolina Floodplain Mapping Program FLOOD Geodatabase

The following Summary of Changes details revisions to the North Carolina Floodplain Mapping Program FLOOD Geodatabase since the initial publication of these guidelines in May 2008. These changes represent new or updated guidance for assigned mapping contractors.

Date	Affected Section(s)	Revision Description
May-11	BASEDOQQ	Removed from schema.
May-11	BASEIMGGRP	Removed from schema.
May-11	BASELATLNGGRDAR	Removed BASELATLNGGRDAR from the schema as it was formerly support data for paper map production.
May-11	BASELNDJURAR	Removed BASELNDJURAR from the schema as it is not required.
May-11	BASELNDJURLN	Removed BASELNDJURLN from the schema as it is not required.
May-11	BASEQUAD	Removed BASEQUAD from the schema as it is not required.
May-11	BASESCHOOL	Removed from schema.
May-11	BASESTPLNGRDAR	Removed BASESTPLNGRDAR from the schema as it was formerly support data for paper map production.
May-11	BASEUTMGRDAR	Removed BASEUTMGRDAR from the schema as it was formerly support data for paper map production.
May-11	L_ADDITIONAL_INFO	Added the L_ADDITIONAL_INFO table to store data for the "Additional Information" section of the FIS. This is a NCFMP maintained table that will apply statewide. SUBNINFOID was added for potential national applications.
May-11	L_APXCUL	Added V_DATM_LID to track elevation units. Renamed the field INVERT to US_INVERT for clarity.
May-11	L_APXDAM	Added V_DATM_LID to track elevation units.
May-11	L_APXRSR	Added V_DATM_LID to track elevation units.
May-11	L_APXSWY	Added V_DATM_LID to track elevation units.
May-11	L_COMM_INFO	Renamed MAPCOMMINFO to L_COMM_INFO for consistent nomenclature within D2E. Added IN_FHBM_DT, FST_CW_EFF, FST_CW_FIS, RECENT_DAT, REVISIONS, MULTICO_TF, FLOODPRONE, FIS_INCLUD, RECENT_FIS, ANI_TF for FEMA FIS requirements and ANI_FIRM for information to support "Jurisdictions in County" section in the FIS. Removed all specific contact information as this will be supported by L_CONTACT_INFO.

		Appropriate CEO, FPA, COM, SHMO and GIS contacts are established as Foreign Key links to L_CONTACT_INFO. The L_CONTACT_INFO primary key will be added to the designated "POC" fields to establish the contact information. Added SUBINFOID to tie to submittals. Added ZIPNAME field to link summary of map actions or other community specific report information. (November 2011, L_COMM_INFO has been restructured to the NCFMP maintained L_COMMUNITY_INFO and the EMC maintained L_COMMUNITIES_STUDIED)
May-11	L_CONTACT_INFO	Added the L_CONTACT_INFO table to provide a single point of contact information. References the L_MEETINGS and L_COMM_INFO tables.
May-11	L_CULPP	Added V_DATM_LID to track elevation units.
May-11	L_DAM	Added V_DATM_LID to track elevation units.
May-11	L_EVENT	Added L_EVENT to consolidate L_HYDROEVENT and L_HYDRAEVENT. L_EVENT is pre-populated with recurrence interval values provided by the NCFMP and is expandable per NCFMP approval for additional scenarios. Added IS FUTURE field to handle future modeling conditions and summary accessibility for future application needs. Added TIME_LID and corresponding domain reference.
May-11	L_HYDRAXSPT	Renamed XSPTTY to XSPTSRC to clarify intent of attribute. Added V_DATM_LID to track elevation units.
May-11	L_HYDROCNGROUP	Added to identify a set of curve numbers lookups. Multiple lookups can be defined for different antecedent moisture conditions which allow multiple scenario analyses.
May-11	L_HYDROEQUATION	Added TIME_LID and corresponding domain reference.
May-11	L_HYDROEVENT	L_HYDROEVENT and L_HYDRAEVENT are consolidated into L_EVENT.
May-11	L_LCHRD	Added V_DATM_LID to track elevation units.
May-11	L_LEVEE	Modified previous BANK field to be BANK_LOC to better reflect FEMA requirements. Added USACE_LEV, DISTRICT, PL84_99TF, PROT_1PCT, LEVEE_STAT, PAL_DATE, LVDBASE_ID, OWNER, PROF_XSTXT and FC_SYS_ID to fulfill FEMA requirements and provide more robust levee information. Linked PROTECZONE and UNPROZONE to D_ZONE domain. Added V_DATM_LID to track elevation units.
May-11	L_MEETINGS	Added the L_MEETINGS table and corresponding D_MTG_TYP domain to store data for the "Consultation Coordination Officer's Meetings", "Scoping Meetings", "Preliminary and Public Participation Meetings" sections of the FIS.
May-11	L_MT1LOMC	Renamed MAPMT1LOMC to L_MT1LOMC for consistent nomenclature within D2E. Removed VERDATE and VERNO. Added ZIPNAME field for support documentation.
May-11	L_NATMETRICS_INFO	Added the L_NATMETRICS_INFO table to fulfill FEMA requirements. Added SUBINFOID to tie to submittals.

May-11	L_ORFC	Added V_DATM_LID to track elevation units.
May-11	L_OTLPP	Added V_DATM_LID to track elevation units.
May-11	L_PANELIMAGEMETAFILE	Removed from schema.
May-11	L_PIER	Added V_DATM_LID to track elevation units.
May-11	L_POL_FHBM	Added L_POL_FHBM to fulfill FEMA requirements and to support information for the "Community Map History" table in the FIS. Added SUBINFOID to tie to submittals.
May-11	L_PROFIL_BKWTR_EL	Added L_PROFIL_BKWTR_EL to fulfill FEMA requirements for digital construction of traditional profiles.
May-11	L_PROFIL_LABEL	Added L_PROFIL_LABEL to fulfill FEMA requirements for digital construction of traditional profiles.
May-11	L_RAIL	Added V_DATM_LID to track elevation units.
May-11	L_RISERWEIR	Added V_DATM_LID to track elevation units.
May-11	L_ROUGHNESS_SUMMARY	Added L_ROUGHNESS_SUMMARY to fulfill FEMA requirements. Added fields CHAN_LOW, CHAN_HIGH, OB_LOW and OB_HIGH.
May-11	L_RSRBRL	Added V_DATM_LID to track elevation units.
May-11	L_STREAM_NAME_CHANGES	Added the L_STREAM_NAME_CHANGES table store data for the "Stream Name Changes" section of the FIS.
May-11	L_STRUCSTO	Renamed AR to STOR_AR for clarity. Added V_DATM_LID to track elevation units.
May-11	L_SUBMITTAL_INFO	Divided MAPSTUDYINFO into L_SUBMITTAL_INFO and L_PANELSTUDYINFO. Removed the VDATUMOFFS1 & 2 fields as they are now handled with the S_DATUM_CONV_PT feature class. Removed EFF_DATE, STUDY_PRE, STUDY_NM, STATE_NM CNTY_NM, JURIS_TYP, LG_PAN_NO, OPP_TF, CW_TF, SW_TF, CBRS_PHONE, CBRS_REG, and RTROFT_TF. Added PROJ_UNIT, PROJ_SECND, PROJ_SUNIT, LANDWD_VAL and LOGO_NM to fulfill FEMA requirements. Added CONTRACT_NO and CNTRACTDBY to provide information for the "Authority and Acknowledgments" in the FIS. Removed RTROFT_TF. Removed VERDATE and VERNO. Added FIS_TITLE field. Added COMM_CHAR field to populate Community Characteristics section of the FIS. Added FBS_DOC to catalog location of the FBS documentation. Removed RIVERBASIN field. (November 2011, L_SUBMITTAL_INFO is now S_COMMUNITY_GROUP)
May-11	L_SUMMARY_ELEVATIONS	Added L_SUMMARY_ELEVATIONS table to provide information for the "Summary of Stillwater Elevations" table in the FIS.
May-11	L_SWY	Added V_DATM_LID to track elevation units.
May-11	L_SXS	Added V_DATM_LID to track elevation units.
May-11	L_TSDN_DOCUMENTS	Added the L_TSDN_DOCUMENTS table to provide information for TSDN documents submittal packages. This table provides a place

		in the database to link to digital TSDN files such as PDFs for certifications, transmittals, correspondence, etc…
May-11	L_XS_STRUCT	Added L_XS_STRUCT to fulfill FEMA requirements for digital construction of traditional profiles.
May-11	MAPBFE	Removed MAPBFE from the schema as it is superseded by S_HYDRABFE from the E&I schema. Representations and requirements of BFE's within the NCFMP are still pending decisions.
May-11	MAPCBRSLN	Removed MAPCBRSLN from the schema as it was formerly support data for paper map production.
May-11	MAPCOUNTYMAPINDEXFILES	Removed MAPCOUNTYMAPINDEXFILES from the schema as it was formerly support data for paper map production.
May-11	MAPGENSTRUCT	Removed MAPGENSTRUCT as it is superseded by S_STRUC.
May-11	MAPLOMR	Removed MAPLOMR as it is handled with the ISLOMR field and geometry in S_HYDRAMODEL.
May-11	MAPLPANCOMM	Removed MAPLPANCOMM from the schema as it was formerly support data for paper map production.
May-11	MAPNOTESANDBORDERS	Removed MAPNOTESANDBORDERS from the schema as it was formerly support data for paper map production.
May-11	MAPPOLLN	Removed MAPPOLLN from the schema as it was formerly support data for paper map production.
May-11	MAPRETROFIT	Removed MAPRETROFIT table as redelineated stream tracking can be done with the addition of the REDELINEATION value to the D_STUDY_TYP domain within S_HYDRAMODEL.
May-11	MAPWTRLN	MAPWTRLN is superseded by S_STREAMCNTRLN.
May-11	MAPXSLN	MAPXSLN is superseded by S_HYDRACROSSSECTION.
May-11	S_ALLUVIAL_FAN	Added S_ALLUVIAL_FAN to fulfill FEMA requirements and national application.
May-11	S_APXSTR	Added V_DATM_LID to track elevation units. Added SURVYGRPID to link to survey data submittals via S_SURVEYGROUP. Added PROVIDEDBY to track Firm or agency providing the data.
May-11	S_BASE_INDEX	Renamed BASELOCALIMGSRC to S_BASE_INDEX for consistent nomenclature within D2E. Removed IMGGRPID and IMGGRPNM. Will be NCFMP Maintained.
May-11	S_BENCHMARK	Renamed MAPBENCHMARK to S_BENCHMARK for consistent nomenclature within D2E. Added COMMGRPID to tie to submittals.
May-11	S_CBRS	Renamed MAPCBRS to S_CBRS for consistent nomenclature within D2E. Added WTR_NM_LID to fulfill FEMA requirements and national application. Will be NCFMP Maintained.
May-11	S_CHANNEL	Added SURVYGRPID to link to survey data submittals via S_SURVEYGROUP. Renamed SUBMIT_BY to PROVIDEDBY for consistency within the inventory design.
May-11	S_COUNTY_LN	Removed from schema.
May-11	S_DATUM_CONV_PT	Added S_DATUM_CONV_PT feature class to fulfill FEMA requirements.
May-11	S_DISCOVERY_MAP	Added the S_DISCOVERY_MAP feature class to fulfill FEMA requirements. Added COMMGRPID to tie to submittals. Added

		METAID.
May-11	S_FIN_STUDY_AR	Added the S_FIN_STUDY_AR feature class to fulfill FEMA requirements. Added COMMGRPID to tie to submittals. Added METAID.
May-11	S_FIRMPAN	Renamed MAPFIRMPAN to S_FIRMPAN for consistent nomenclature within D2E. Removed the NW_LAT, NW_LONG, SE_LAT, SE_LONG, NEEAST, NENORTH, SWEAST, SWNORTH, PDFAVAIL fields as they are not necessary in the D2E environment. Added FIRM_PAN field as general information and to support the "Flood Protection Measures", "Summary of Coastal Stillwater Elevations" table in the FIS. Added BASE_TYP field and corresponding domain D_BASE_TYP to fulfill FEMA requirements and national application. Added UPDATED_TF field to fulfill FEMA requirements. Added SUBINFOID to tie to submittals. Added STDINFO_ID as a link to the L_PANELSTUDYINFO table to provide specific information for the NC FIRMETTE title block. Primary key designation has been changed to reflect the full panel number without the suffix.
May-11	S_FLD_HAZ_AR	Renamed MAPFLDHAZAR to S_FLD_HAZ_AR for consistent nomenclature within D2E. Removed HYDROID and added HYDRAID as a correction to the previous design and to link to S_HYDRAMODEL for submittals. Removed AR_REVERT, BFE_REVERT, and DEP_REVERT to support the construction of S_ZONE_AR per FEMA guidance. Added WTR_NM_LID for FMIS programmatic data calling. Removed FLDWAY_LID and replaced with ZONSUB_LID to fulfill FEMA requirements.
May-11	S_FLD_HAZ_LN	Renamed MAPFLDHAZLN to S_FLD_HAZ_LN for consistent nomenclature within D2E. Added WTR_NM_LID for FMIS programmatic data calling.
May-11	S_FLOOD_PROBLEMS	Added S_FLOOD_PROBLEMS feature class to fulfill FEMA requirements.
May-11	S_HUC	Added and will be used as an intersecting coverage for many Appendix L and M exports for deliverables requirements.
May-11	S_HWM	Added V_DATM_LID to S_HWM to track elevation units. Added STREAM_STN to track approximate stream station to fulfill FEMA requirements. Renamed INTERVIEWDT to INTRVIEWDT. Added SURVYGRPID to link to survey data submittals via S_SURVEYGROUP. Removed FREQ_LID and replaced with APX_FREQ per FEMA guidance. Added field ISFISDESC.
May-11	S_HYDRABFE	Superseded MAPBFE. Added WTR_NM_LID field for programmatic data calling purposes.
May-11	S_HYDRAMAPPING	Removed this intermediate feature class as floodplain boundaries will be required "cleaned/mapped" in S_FLD_HAZ_LN.
May-11	S_LEVEEPTS	Added V_DATM_LID to track elevation units. Added LEN_LID to track linear units.
May-11	S_MT1LOMCPT	Renamed MAPMT1LOMCPT to S_MT1LOMCPT for consistent nomenclature within D2E. Removed EFF_DATE, FIRM_PAN and LOMC_STAT fields as they are handled in the parent L_MT1LOMC.

May-11	S_PANIMGSRC	Removed from schema.
May-11	S_PLSS_AR	Added S_PLSS_AR feature class to fulfill FEMA requirements and national support.
May-11	S_POL_AR	Renamed MAPPOLAR to S_POL_AR for consistent nomenclature within D2E. Removed ANI_TF and ANI_FIRM as they were moved to L_COMM_INFO. Added POL_NAME3 to fulfill FEMA requirements.
May-11	S_RIV_MRK	Added S_RIV_MRK feature class to fulfill FEMA requirements.
May-11	S_STREAMCNTRLNPT	Removed XCOORD and YCOORD as they are not needed because S_STREAMCNTRLNPT is a spatial feature class. Added LEN_LID to document length units and V_DATM_LID to documents elevation units.
May-11	S_STRUC	Added STRUC_DESC, SHOWN_FIRM to fulfill FEMA requirements. Added V_DATM_LID to track elevation units. Added LOC_DESC for information to support the "Flood Protection Measures" table in the FIS. Added SURVYGRPID to link to survey data submittals via S_SURVEYGROUP. Added PROVIDEDBY to track Firm or agency providing the data. Added SURVEY_TM per FEMA requirements. Added field ISFLDPRTCT.
May-11	S_SURVEYGROUP	S_SURVEYGROUP feature class added to identify county specific survey submittals.
May-11	S_TBM	Added V_DATM_LID to track elevation units. Added SURVYGRPID to link to survey data submittals via S_SURVEYGROUP.
May-11	S_TERRAINGROUP	S_TERRAINGROUP feature class added to identify terrain submittals. Added TOPO_DATE field.
May-11	S_TRNSPORT_LN	Renamed MAPTRANSPORTATION to S_TRNSPORT_LN for consistent nomenclature within D2E. This format will be translated to meet FEMA requirements for transportation.
May-11	S_WTR_AR	Renamed MAPWTRAR to S_WTR_AR for consistent nomenclature within D2E.
May-11	S_ZONE_AR	Added S_ZONE_AR feature class to fulfill FEMA requirements. Added HYDRAID to link to S_HYDRAMODEL for submittals.
Jun-11	L_HYDRAFLOODRESULT	Removed WSEL_REG and added WSEL to track all recurrence interval elevations through specific EVENTID's. Added NE_WIDTH_L and NE_WIDTH _R non-encroachment data for FWDT support for the FIS. Added the following fields for enhanced levee support, LEVEE_TF, LVSCENARIO, WSEL_LEV_R, WSEL_LEV_L, FREEBRD_LL, FREEBRD_RL. Added CALC_WO_BW and ISCNTRLDBY for FWDT footnote support. Removed HYDRAID.
Jun-11	L_HYDRORESULT	Added IS_SUMQLOC to support the "Summary of Discharges" table in the FIS. Added WSEL to support FEMA export for non-RAS solutions. Added V_DATM_LID to track elevation units. Added LEN_LID to track linear units. Changed WEQDESC and WEQ to conditionally required. Removed HYDROID.
Jun-11	L_MODELGROUP	Removed from schema.

Jun-11	L_PANELSTUDYINFO	Added L_PANELSTUDYINFO table to provide specific information from the previous MAPSTUDYINFO for the NC FIRMETTE title block. (November 2011, L_PANELSTUDYINFO is now in S_COMMUNITY_GROUP)
Jun-11	S_HYDRACROSSSECTION	Superseded MAPXSLN. Added PROF_XS_TEXT field to fulfill FEMA requirements. Removed MDLGRPID and replaced with HYDRAID. Removed STRMLINEID. Removed EFF_STAT.
Jun-11	S_HYDRANVALUE	Removed MDLGRPID and replaced with HYDRAID.
Jun-11	S_HYDROBASIN	Added BASIN_DESC and IS_FISDESC to support "Basin Characteristics" information in the FIS. Removed MDLGRPID and replaced with HYDROID.
Jun-11	S_HYDROGAGE	Added WTR_NM_LID, DTA_ACCESS to fulfill FEMA requirements and AREA_LID to support drainage area units. Removed MDLGRPID and replaced with HYDROID. Renamed GAGE_ID to GAGEOWN_ID.
Jun-11	S_HYDROIMPERVIOUS	Removed MDLGRPID and replaced with HYDROID.
Jun-11	S_HYDROLANDUSE	Removed MDLGRPID and replaced with HYDROID.
Jun-11	S_HYDROLINK	Added ROUTE_METH to fulfill FEMA requirements. Removed MDLGRPID and replaced with HYDROID.
Jun-11	S_HYDROMODEL	Previously L_HYDROMODEL, converted to a spatial feature class S_HYDROMODEL to facilitate study submittal polygons for the spatial grouping and extraction of data. Added METAID. Added TASK_TYP to fulfill FEMA requirements. Will be used in the construction of FEMA's S_SUBMITTAL_INFO and NCFMP data maintenance activities. Added TERRAGRPID for link to terrain submittals. Removed MDLGRPID and replaced with HYDROID. Removed MDLSTAT.
Jun-11	S_HYDRONODE	Removed ISPOURPT and replaced with NODE_TYP and corresponding domain values. Added WTR_NM_LID to fulfill FEMA requirements. Added NODE_DESC to support the "Summary of Discharges" table in the FIS. Removed MDLGRPID and replaced with HYDROID.
Jun-11	S_HYDROSOIL	Removed MDLGRPID and replaced with HYDROID.
Jun-11	S_HYDROTC	Removed MDLGRPID and replaced with HYDROID.
Jun-11	S_OVRBNKLN	Removed MDLGRPID and replaced with HYDRAID.
Jun-11	S_REFPOINT	Added LOC_ACC and D_LOC_ACCURACY domain to fulfill FEMA requirements. Removed MDLGRPID and replaced with SUBINFOID.
Jun-11	S_STREAMCNTRLINE	S_STREAMCNTRLINE supersedes MAPWTRLN. Removed CHAN_LID as only centerlines will be captured in D2E. Removed FLDWAYMETH and FLDWAYTY as this information is captured at S_FLD_HAZ_AR. Added V_DATM_OFF to fulfill FEMA requirements. Added LEN_LID to capture length units. Removed MDLGRPID and replaced with HYDRAID. Added ONINDEX field.

Jul-11	L_CST_STRUCT	Added L_CST_STRUCT to support coastal structure surveys per FEMA requirements.
Jul-11	L_CST_TSCT_PT_ELEV	New table added to catalog elevation information for raw coastal transect points. Added GUTTERTF.
Jul-11	L_CST_TSCTPT	Renamed ELEV field to GROUNDELEV. Removed fields SW10, SW100, SW500. Renamed XCOORD and YCOORD to EASTING and NORTHING respectively. Removed TIME_LID, INCWVPER, INCWVHT, WVCRESTEL, WVRUNUPD, WVRUNUPEL, GUTTERTF, and EFF_TF. Added V_DATM_LID. Renamed FETCHTY to OBSTRUCTY.
Jul-11	L_HISTORICAL_STORMS	Added to support historical storms information section of the FIS.
Jul-11	L_LEGACY_PROFILE	Added table to link legacy PDF profiles to streams where raster mapping doesn't exist.
Jul-11	L_RASTERMAPPING	Added table to link risk raster outputs to submittals.
Jul-11	L_SURGE_PARAM	Added L_SURGE_PARAM table to support Parameter Values for Surge Elevations FIS table.
Jul-11	L_TSCTSURVEY	Removed TSCTNO. Added SURVEYTIME and TRAN_LN_ID.
Jul-11	MAPLWTRNM	Revised and renamed MAPLWTRNM and ENGLWTRNM to a single feature class S_WTR_NM. S_WTR_NM will be maintained by the NCFMP and will contain a master list of stream names statewide. Contractors will coordinate with the NCFMP for revised or new stream naming conventions.
Jul-11	MAPTSCTLN	MAPTSCTLN is superseded by S_CST_TSCT_LN, formerly ENGCSTTSCTLN.
Jul-11	S_CST_GAGE	Added START_TIME, END_TIME, V_DATM_LID, DATUM_CONV, TIDE_TF, TIDE_EPOCH, TIDE_VBM, WVSPEC_TF, WDSTN_HT and LEN_LID.
Jul-11	S_CSTTSCTLN	Previously ENGTSCTLN, renamed for consistency to S_CSTTSCTLN. Removed MDLGRPID and added CST_MDL_ID. Renamed XCOORD and YCOORD to EASTING_0 and NORTHING_0 respectively. Added SHR_LN_ID, WTR_NM_LID, DATUM_CONV, CSTLN_TYP, BEACH_SET, CON_PD, FETCH_LEN, FTCHLNUNIT and LU_SOURCE.
Jul-11	S_LIMWA	Added S_LIMWA for Limit of Moderate Wave Action (LiMWA) features.
Jul-11	S_PFD_LN	Added VZONE_LIMT field to support FEMA. Added PFDSRCDESC and PFDSRCDT to catalogue PFD source data and method descriptions and dates.
Jul-11	S_SHORE_LN	Added WTR_NM_LID, CST_MDL_ID and V_DATM_OFF.
Jul-11	S_TSCTSURVPTS	Added V_DATM_LID field.
Jul-11	S_WTR_NM	Revised and renamed MAPLWTRNM and ENGLWTRNM to a single table S_WTR_NM. S_WTR_NM is now spatial and will be maintained by the NCFMP and will contain a master list of stream names statewide. Contractors will coordinate with the NCFMP for revised or new stream naming conventions.

Aug-11	L_EFFECTIVE_WTRNMS	A lookup table that contains and tracks regulatory stream names as referenced from the hardcopy DFIRM's and corresponding PGDB water name table (MAPLWTRNM), prior to the implementation of D2E and the S_WTR_NM feature class. L_EFFECTIVE_WTRNMS is for informational purposes only and is maintained by the NCFMP and not required for contractor submittals.
Aug-11	L_FIS_PUBLICATION_DATES	Added to support the Notice to Flood Insurance Study Users section of the FIS.
Aug-11	S_FBS	Added point feature class to store 1% annual chance flood boundary standards checks.
Aug-11	S_HYDRANVALUE	Spilt the S_HYDRANVALUE feature class in to a channel representation (S_HYDRANVALUE_CHAN) and an overbank representation (S_HYDRANVALUE_OB).
Oct-11	L_TSCTRGHNSS	Added to field OBSTRUCTY. Linked to D_OBSTRUCTION.
Nov-11	L_CBRS_COMMGRP	Added L_CBRS_COMMGRP table to establish a relationship between the NCFMP maintained CBRS features to those contained in an individual community information submittal via S_COMMUNITY_GROUP.
Nov-11	L_COMM_MDL_GROUPS	Added to link modeling submittals to the community in which they fall.
Nov-11	L_COMM_REVIS	Removed from schema as data is available at L_COMMUNITY_INFO or L_PAN_REVIS.
Nov-11	L_COMM_REVIS	Removed from schema.
Nov-11	L_COMMUNITIES_STUDIED	Added L_COMMUNITIES_STUDIED to facilitate community revision history. Previously portions of this schema resided at L_COMM_INFO. L_COMM_INFO no longer exists as its contents now reside at L_COMMUNITY_INFO and L_COMMUNITIES_STUDIED.
Nov-11	L_COMMUNITY_INFO	Added L_COMMUNITY_INFO and deemed it NCFMP maintained to facilitate static community information. Previously the majority of this schema resided at L_COMM_INFO.
Nov-11	L_CST_TSCT_PT_ELEV_FOOTNOTES	Added for footnote references in the FIS.
Nov-11	L_DATUM_COMMGRP	Added L_DATUM_COMMGRP table to establish a relationship between the NCFMP maintained S_DATUM_CONV_PT features to those contained in an individual community information submittal via S_COMMUNITY_GROUP.
Nov-11	L_FIRM_CID	Added L_FIRM_CID table to relate FIRM panels to their intersecting Community Identification Numbers (CID). This table will be maintained by NCFMP and is not required for contractor submittals.
Nov-11	L_FOOTNOTES	Added for footnote references in the FIS.
Nov-11	L_HISTSTORM_CID	Added L_HISTSTORM_CID table relates historical storms to the county/counties that they impacted. The L_HISTSTORM_CID table is maintained by the NCFMP.
Nov-11	L_HYDRA_FOOTNOTES	Added for footnote references in the FIS.

Nov-11	L_HYDRO_FOOTNOTES	Added for footnote references in the FIS.
Nov-11	L_PAN_REVIS	Renamed MAPFIRMPANVERSION to L_PAN_REVIS for consistent nomenclature within D2E. Removed PIMID. Removed VERDATE and VERNO. Added fields from S_FIRMPAN feature class; BASE_TYP and UPDATED_TF.
Nov-11	L_PANELSTUDYINFO	Removed from schema.
Nov-11	L_PLSS_COMMGRP	Added L_PLSS_COMMGRP table to establish a relationship between the NCFMP maintained PLSS features to those contained in an individual community information submittal via S_COMMUNITY_GROUP.
Nov-11	L_RASTER_MAPPING	Moved from hydraulics to community information section.
Nov-11	L_RASTER_MAPPING	Moved from hydraulics to community information section.
Nov-11	L_SUMMARY_ELEV_FOOTNOTES	Added for footnote references in the FIS.
Nov-11	S_COMMUNITY_GROUP	Added to facilitate EMC related community information submittals and FEMA exports. Replaces previous L_SUBMITTAL_INFO and L_PANEL_STUDYINFO tables.
Nov-11	S_FBS	Moved from hydraulics to community information section.
Nov-11	S_FBS	Moved from hydraulics to community information section.
Nov-11	S_FIRMPAN	Removed fields from S_FIRMPAN feature class; SUBINFOID, BASE_TYP and UPDATED_TF
Nov-11	S_FLOOD_PROBLEMS	Moved from hydraulics to community information section. Added WTR_NM_LID field.
Nov-11	S_FLOOD_PROBLEMS	Moved to Community Information section.
Nov-11	S_MODEL_GROUP	Added to facilitate EMC related hydraulics, hydrology, survey and coastal submittals. Replaces previous L_SUBMITTAL_INFO table and links to S_COMMUNITY_GROUP via L_COMM_MDL_GROUPS.
Jan-12	L_HYDRONODEPARAM	Added field CUMULATIVE to specify whether the result is for a sub basin discharge or a cumulative discharge.
Jan-12	S_DISCREPANCIES	Added feature class to track discrepancies found between Effective FIS and E&I data during back population.
Jan-12	S_HYDRAFLOWPATH	Removed INVENID as there was no linking table. Added HYDRAID, REFPTID and V_DATM_LID. Added D_PATHTYP domain reference to standardize field entries.
Jan-12	S_HYDRAJUNCTION	Removed INVENID as there was no linking table. Added HYDRAID.
Jan-12	S_SXS	Added V_DATM_LID to track elevation units. Added SURVEYGRPID.
Jan-12	Visualization Layer Schema	Visualization Layer schema was added to support NC FRIS view, FIS compilation and data export activities.
Sep-12	CO_FIPS1, CO_FIPS2, CO_FIPS3, etc…	Added CO_FIPS1, CO_FIPS2, CO_FIPS3, etc…, to many Visualization Layers to support mechanisms for data rendering, viewing and export.

Sep-12	L_NFIP_STATUS	Added table to track the participating status of NFIP communities. Table is maintained by NCFMP.
Sep-12	S_CSTMODEL	Previously L_CSTMODEL, converted to a spatial feature class S_CSTMODEL to facilitate study submittal polygons for the spatial grouping and extraction of data. Removed MDLGRPID and CASE_NO. Renamed WAVE_EFF field to WAVE_EFFDT for clarity. Added STUDYTYPE, LIMIT_FROM, LIMIT_TO, STRM_PRM, STM_PRM_DT, TDESTAT_MT, TDESTAT_DT, R_FETCH_MT, R_FETCH_DT, EROS_DATE, HAZARDEVAL, COMP_DATE, METAID, TASK_TYP, SWELMAP, TSCT_MAP, RPTNAME, SURVYGRPID, COMMENTS, TERRAGRPID, SPEC_CONS, WHAFIS_TF, OVERTOP_TF, BW_HGT_TF, HVFLOW_TF, WAVE_02PCT, SUPPORTZIP fields. Removed fields EFFEROS_TF, EFFPFD_TF, EFFSURG_TF, WVSETUP_TF, EFFRNUPM_TF, EFFWHTM_TF, COFIPS. Added REV_FROM and REV_TO to provide support for the Preliminary FIS Scope of Revisions table.
Sep-12	S_HYDRAMODEL	Previously L_HYDRAMODEL, converted to a spatial feature class S_HYDRAMODEL to facilitate study submittal polygons for the spatial grouping and extraction of data. Added COMMENTS and METAID. Added TASK_TYP to fulfill FEMA requirements. Added ISLOMR to track LOMR's. Added HYDROID and SURVYGRPID to provide links to associated hydrologic and survey data. Will be used in the construction of FEMA's S_SUBMITTAL_INFO and NCFMP data maintenance activities. Added TERRAGRPID for link to terrain submittals. Added START_DESC and END_DESC to fulfill FEMA requirements and to provide information for the "Scope of Revisions" and "Flooding Sources Studied by" tables in the FIS. Added SPEC_CONS to fulfill FEMA requirements. Removed MDLGRPID. Added CO_FIPS. Added LOMR_STAT and LOMRDT. Removed MDLSTAT. Added REV_START and REV_END to provide support for the Preliminary FIS Scope of Revisions table.
Sep-12	V_REFGRID	Added to support data exchange between NCFMP and its contractors during flood study updates.
Jan-13	V_E_CBRS & V_P_CBRS	Added NCFMP maintained layers to support CBRS and OPA information in the FIS.
Jan-13	V_E_FLD_HAZ_AR, V_E_FLD_HAZ_LN	Removed field FLD_AR_ID and FLD_LN_ID. The foreign key to the core feature classes is not needed.
Jan-13	V_P_FLD_HAZ_AR, V_P_FLD_HAZ_LN	Removed field FLD_AR_ID and FLD_LN_ID. The foreign key to the core feature classes is not needed.
Feb-13	S_REVISIONS	Added S_REVISIONS to create a spatial feature that represents the areas revised due to new studies (including backwater effects on non-studied streams).
Feb-13	V_P_REVISIONS	Added V_P_REVISIONS to identify changes in floodplain delineations based on new studies.
Mar-13	S_CSLF_AR	Added S_CSLF_AR to depict areas of change between new and previous flood hazards.
Mar-13	V_P_CSLF_AR	Added V_P_CSLF_AR to depict areas of change between new and previous flood hazards.

Apr-13	L_COMMUNITY_INFO	Added fields TOTPAY1978, INS_POLICY, INS_COVER to facilitate risk management tool activities.
May-13	S_HUC	Added fields DESCRIPTION, DA, and WTR_NM_LID to S_HUC.
May-13	V_HUC	Added V_HUC feature class to facilitate the FIS Basin Descriptions Tables.
May-13	S_HYDROBASIN	Removed ISFISDESC field since FIS Basin Descriptions Tables will now be generated from the V_HUC feature class.
June-13	V_HUC	Added fields CO_FIPS11 to CO_FIPS17.
June-13	D_CONTRACTOR	Added domain codes DATA IMPORT TOOL and ADECA.
June-13	L_HYDRA_TERRAIN_GROUPS	Added new relate table to allow for a hydraulic model to have many terrain sources.
June-13	S_HYDRAMODEL	Removed field TERRAGRPID since it now resides in L_HYDRA_TERRAIN_GROUPS.
Aug-13	L_COMMUNITY_INFO	Removed field RECENT_DAT and replaced with two fields, EFFREV_DAT and PREREV_DAT. Removed field RECENT_FIS and replaced with two fields, EFFFIS_DAT and PREFIS_DAT to facilitate dates on the FIS cover.
Aug-13	D_HYDRA	Added domain code 1450 - HEC-RAS 4.1.0.
Nov-13	D_COFIPS	Added domain code 201 – EASTERN BAND OF CHEROKEE INDIANS
Nov-13	D_STUDY_TYP	Added domain code 1080 – MODIFIED DETAILED STUDY
Nov-13	L_AFFECTED_COMMUNITIES	Added a new relate table to link Communities and their associated S_HYDRAMODEL or S_CST_MODEL.
Nov-13	S_MODEL_GROUP	Added field DESCRIPT to make submittals more identifiable.
Jan-14	S_LIMWA	Converted S_LIMWA from polygon to poly line.
Jan-14	S_COMMUNITY_GROUP	Field CBRS_REG increased from size Text 1 to Text 2 to handle 2 digit FEMA Regions.
Jan-14	V_E_CST_GAGE	Added visualization layer for RFRIS support.
Jan-14	V_E_CSTTSCTLN	Added visualization layer for RFRIS support.
Jan-14	V_E_LIMWA	Added visualization layer for RFRIS support.
Jan-14	V_E_PFD_LN	Added visualization layer for RFRIS support.
Jan-14	V_E_SHORE_LN	Added visualization layer for RFRIS support.
Jan-14	V_P_CST_GAGE	Added visualization layer for RFRIS support.
Jan-14	V_P_CSTTSCTLN	Added visualization layer for RFRIS support.

Jan-14	V_P_LIMWA	Added visualization layer for RFRIS support.
Jan-14	V_P_PFD_LN	Added visualization layer for RFRIS support.
Jan-14	V_P_SHORE_LN	Added visualization layer for RFRIS support.
Jan-14	S_HYDRAMODEL, V_E_HYDRAMODEL and V_P_HYDRAMODEL	Added ISSECLUDED field to indicate areas of levee seclusion.
Jan-14	V_E_HYDRONODE and V_P_HYDRONODE	Removed PLACEFIPS, POL_NAME1, POL_NAME2, HUC_CODE, HUC_NAME and CID fields as they are no longer needed and their functionality has been replaced by L_AFFECTED_COMMUNITIES and V_HUC.
Jan-14	L_HYDRO_TERRAIN_GROUPS	Added new relate table to allow for a hydrologic model to have many terrain sources.
Jan-14	S_HYDROMODEL	Removed field TERRAGRPID since it now resides in L_HYDRO_TERRAIN_GROUPS.
Jan-14	L_CST_TERRAIN_GROUPS	Added new relate table to allow for a coastal model to have many terrain sources.
Jan-14	S_CSTMODEL	Removed field TERRAGRPID since it now resides in L_CST_TERRAIN_GROUPS.
Jan-14	D_DOCUMENT_TYP	Added "ADDITIONAL REPORTS" entry to catalogue any additional supporting documentation needed for the study such as field reconnaissance reports or coastal erosion reports, etc…
Jan-14	S_REVISIONS and V_P_REVISIONS	Added CST_MDL_ID field to identify changes in coastal delineations based on new studies.
Jan-14	S_CSTMODEL, V_E_CSTMODEL, and V_P_CSTMODEL	Removed REV_FROM and REV_TO fields as this is covered in S_REVISIONS and V_P_REVISIONS.
Feb-14	L_HYDRAFLOODRESULT	Added IS_CP field to account for the recording of combined probability elevations in coastal transition areas.
Feb-14	S_NONENCROACHMENT_AR, V_E_NONENCROACHMENT_AR and V_P_NONENCROACHMENT_AR	Added feature classes to catalogue non-encroachment area optimization polygons for limited detailed studies.
Apr-14	S_CSLF_AR and V_P_CSLF_AR	Added CHHACHG field to catalog areas of coastal change.
Aug-14	D_SFHALIMIT	Added D_SFHALIMIT domain to support the Summary of Coastal Transect Mapping Considerations table in the FIS.
Aug-14	S_CSTTSCTLN, V_E_CSTTSCTLN and V_P_CSTTSCTLN	Added SFHALIMIT and ISPFD fields to support the Summary of Coastal Transect Mapping Considerations table in the FIS.
Aug-14	L_CSTTSCTPT	Added ZONE_LID fields to support the Summary of Coastal Transect Mapping Considerations table in the FIS.

Oct-14	V_P_CSLF_AR	Added V_GRIDID field.
Sep-16	L_EVENT	Added 1065 record for COMMUNITY ENCROACHMENT water surface elevation documentation.
Sep-16	V_E_CBRS and V_P_CBRS	Added V_GRIDID.
Sep-16	D_STATUS	Added REVISED_PRELIMINARY (1090) to catalog preliminary panels that had revisions during the 90 appeal period.
Sep-16	S_COMMMUNITY_GROUP	Updated geometry requirements in the table description within this dictionary. Also updated input requirements for the CASE_DESC field in the Description column within this dictionary.
Sep-16	Metadata Guidance	Changed "Other" Source Citation Abbreviations to "REF" to better match FEMA specifications. Internally consolidated some source citations to export to FEMA deliverables more appropriately. Also provided better guidance for LOMC source citation usage.
Dec-16	L_TSDN_DOCUMENTS	Clarification was added to the DOC_TYPE field description in the Geodatabase Dictionary to indicate how the TSDN Checklist should be stored within the D_DOCUMENT_TYP coded domain.
Dec-16	L_MT1LOMC	Clarification was added to the ZIPNAME field description in the Geodatabase Dictionary to indicate the location of LOMR Worksheets and submittal expectations.
Jan-17	S_MT1LOMC and L_MT1LOMC	Updated the descriptions with population guidance for S_MT1LOMC & L_MT1LOMC in the Geodatabase Dictionary.
Jan-17	L_MT1LOMC	Added LLE and LAG fields to the L_MT1LOMC table.
Jan-17	L_COMMUNITIES_STUDIED	Updated the description in the ZIPNAME field to include preliminary issuance, appeal, protest, ACK, AD, RES, revalidation, and final LFD letters, and preliminary SOMA, final SOMA, and panels. Also updated the FILE_L_COMMUNITIES_STUDIED section in the Data Inputs Section for reference.
Jan-17	S_SIMPLE_CST_ZONE_AR, V_E_SIMPL_CST_ZONE_AR and V_P_SIMPL_CST_ZONE_AR	Added S_SIMPLE_CST_ZONE_AR and visualization to schema and dictionary/ERD to capture the Wave Hazard Severity Layer for Coastal Zone A's.
Jan-17	S_INC_FLOOD_SCEN_AR	Added S_INC_FLOOD_SCEN_AR to capture both riverine and coastal plus 1, 2 and 3-ft polygon boundaries. Added to the coastal section of the dictionary and ERD.
Jan-17	S_ERDUNE_PK_LN	Added S_ERDUNE_PK_LN to schema and dictionary/ERD to capture the Coastal Erosion Dune Peak Line.
Jan-17	S_PFD_ERSN_AR	Added S_PFD_ERSN_AR to schema and dictionary/ERD to capture Coastal Erosion Area Based on PFD.

Jan-17	D_RISKRASTER	Added WAVE HEIGHT to the D_RISKRASTER domain and made reference to raster types in the FILE_L_RASTER_MAPPING description in the data inputs section of the dictionary.
Jan-17	V_E_PFD_LN and V_P_PFD_LN	Added V_E and V_P_PFD_LN to schema and dictionary.
Jan-17	V_E_ and V_P_HYDRABFE	Added V_E_ and V_P_HYDRABFE Visualization layers for national support.
Jan-18	L_HYDRAFLOODRESULT, V_E_HYDRACROSSSECTION, V_P_HYDRACROSSSECTION, 10% annual chance elevation raster, 4% annual chance elevation rasters, 2% annual chance elevation rasters, 1% annual chance elevation rasters, 0.2% annual chance elevation rasters, 10% impervious area future conditions elevation rasters, 20% impervious area future conditions elevation rasters, 35% impervious area future conditions elevation rasters, Preliminary 10% annual chance elevation rasters, Preliminary 4% annual chance elevation rasters, Preliminary 2% annual chance elevation rasters, Preliminary 1% annual chance elevation rasters, Preliminary 0.2% annual chance elevation rasters, Preliminary 10% impervious area future conditions elevation rasters, Preliminary 20% impervious area future conditions elevation rasters, Preliminary 35% impervious area future conditions elevation rasters.	Added descriptions to the corresponding water surface elevation data fields within the dictionary to clarify data rounding requirements.
Feb-18	METADATA	Updated SRCCITEA nomenclature in the Metadata sections of the FLOOD Geodatabase Dictionary.
Mar-18	S_HYDRACROSSSECTION, V_E_HYDRACROSSSECTION & V_P_HYDRACROSSSECTION	Added verbiage to the description for XS_LN_TYP directing users to code top of road (TOR) cross sections as D_XS_LNTYP code 1020 - NOT LETTERED, MAPPED, NOT MODELED.

Apr-19	S_REVISIONS, V_P_REVISIONS and D_REASON	Added NCFMP ADJUSTMENT/MODIFICATION (1050) to the D_REASON domain. This will provide internal tracking for corrections made to FLOOD data by NCFMP and contractors that are identified during the study process, outside of appeals and comments. This will replace the use of S_DISCREPANCIES for these types of data modifications going forward and will supply a historical archive of all adjustments/modifications related to specific studies in the S_REVISIONS feature class.
Apr-19	S_REVISIONS and V_P_REVISIONS	Added DESCRIPTION field to document the description of the revision when the REASON field contains the 1050 (NCFMP ADJUSTMENT /MODIFICATION) entry.
Aug-22	S_LIMWA_AR, V_E_ LIMWA_AR, V_P_ LIMWA_AR	Added the S_LIMWA_AR, V_E_ LIMWA_AR, and V_P_ LIMWA_AR feature classes to capture the Limit of Moderate Wave Action (LiMWA) polygon representation. It was indicated that these feature classes will not be tied to specific coastal models but will rather be compiled on an as needed basis by the NCFMP to incorporate new coastal analyses.
Oct-22	D_CONTRACTOR, D_HYDRA, D_HYDRO	Added ATKINS domain value to D_CONTRACTOR, and additional domain values to catalogue more recent versions of software in the D_HYDRA and D_HYDRO domains.
Feb-23	D_MTG_TYP	Replaced 1020 – INITIAL SCOPING with PROJECT DISCOVERY. Added the FLOOD RISK REVIEW description to the previous 1060 domain code. Added 1080 RESILIENCE and 1090 INTERMEDIATE CCO.

North Carolina Floodplain Mapping Program
FLOOD Geodatabase

This FLOOD Geodatabase Dictionary was commissioned by the North Carolina Floodplain Mapping Program (NCFMP) to act as a guide for the production of flood insurance studies.

Spatial Data and Tabular Data

The NCFMP FLOOD Geodatabase is made up of spatial data describing the location of features on the earth and tabular data that describe the attributes of these spatial features. Data are prefixed with either “S_”, “V_” or “L_”. Feature classes are prefixed with a “S_” or a “V_” to indicate their spatial component. Tables or Object Classes are prefixed with a “L_” to indicate their tabular component (often referred to as a “look-up” or business table); where there is no direct spatial component.

Domain tables are prefixed with a ”D_” and are established to assist NCFMP contractors in the creation of the FLOOD Geodatabase. Domain tables provide valid or preferred attribute values for specific fields. A domain table also helps minimize entry differences by standardizing the value. For example, without domain tables, one user might enter “FLOODWAY” while another user might enter “FLDWY” while completing the ZONE_SUBTY field in the S_FLD_HAZ_AR feature class. While both of these entries reflect the same idea, the inconsistency between the two forms makes it difficult to group similar features. Using a domain table ensures that both users enter the same value to describe the same feature. Additional domain table values must be requested and approved by the NCFMP before they can be added or used in the FLOOD Geodatabase.

Data Inputs

In the event that the correct information cannot be obtained for a *required* field, the contractor may substitute a value that indicates that the affected field was intentionally not populated. The value to use for each field type is as follows:

- Text – “NP”
- Double, Float, Long Integer, Short Integer – -8888
- Date – 8/8/8888

Every effort within reason should be made to fully populate all information in the NCFMP FLOOD Geodatabase. In the event that the correct information cannot be obtained for conditionally required or non-required fields, the value to use for each field type is as follows:

- Text – <NULL>
- Double, Float, Long Integer, Short Integer – -9999
- Date – 9/9/9999

In some instances data may be required in the NCFMP FLOOD Geodatabase dictionary, but may not be collected or does not apply in certain situations due to study type or specific study processes. The NCFMP FLOOD Geodatabase is designed to store the highest level of analyses. Therefore when specific data/attributes are not collected or are unnecessary for a particular study type or situation, the above guidance should be applied.

General Guidance

Since portions of this guidance may not have been in place at the time of field data collections, NCFMP is aware that certain *required* data may not have been captured. In some cases data may be back populated on the condition that it agrees with all final modeling and results.

Contractors should use the NCFMP FLOOD Geodatabase dictionary as a guide during all field data collections and analyses to ensure that “real” data is available for all required fields that apply.

Hydrologic and hydraulic model inputs or calculations that are not represented within the framework of the current FLOOD Geodatabase should be included in the respective FILE_S_HYDROMODEL and FILE_S_HYDRAMODEL folders. For example, hydraulic model inputs that should be included are GIS data of ineffective flow areas, storage areas, bank stations and blocked obstructions (input for HEC-GeoRAS).

Modeling Scenarios/Data Structure

Within the State of North Carolina single or multiple engineering modeling scenarios may be utilized depending on a community’s specific needs. The most common modeling scenario used for the majority of the state is existing and future conditions, regression based analyses. When submitting hydraulic and hydrologic data that utilizes a single modeling scenario, it is expected that the corresponding feature classes will contain non-duplicated spatial features that represent data only for that specific modeling scenario.

In some instances, a community may employ multiple modeling scenarios such as regression based and/or rainfall-runoff modeling with existing and/or future conditions. In these special cases it is expected that the corresponding hydraulic and hydrologic feature classes may contain spatially duplicated features that represent each modeling scenario that was utilized.

Back Population of Effective Flood Study Data

The objective of the NCFMP FLOOD Geodatabase back population task is to build a comprehensive statewide base of effective flood study data for representation in an all digital web environment. The NCFMP FLOOD Geodatabase specifications provide the context to support this objective. The task involves converting various digital and analog data sources from previous NCFMP specifications into the new FLOOD Geodatabase format.

Once back population data translation efforts are complete, all map maintenance and future flood study submittals will directly utilize the FLOOD Geodatabase format for submittals.

Data used for back-population will come from a combination of Engineering and Inventory (E&I) and DFIRM geodatabases, Map Service Center (MSC) data, Flood Insurance Study Report (FIS), Technical Support Data Notebooks (TSDN), and associated hard files, modeling data, photos, sketches, survey files, etc... In certain cases and within reasonable expenditure of effort, data may be mined from engineering models that are associated with the study in question. Only data available from NCFMP approved sources should be used for back population. If required data is not present within the sources listed above, those data will not exist in the FLOOD Geodatabase. The compilation of these data into the FLOOD Geodatabase format will provide a platform of versioned data, enabling the storage and archival of flood studies information.

NCFMPs' FLOOD Geodatabase back population task will result in the compilation of flood study data representing 1 or more effective data publication scenarios per study area. The following terms define those scenarios.

1. **Published Effective –** study data as it was represented at the time of effective publication.

2. **Regulatory Effective** – study data representing published effective data with subsequent incorporated effective LOMRs.

The compilation of the published effective data will require the utilization of study data available from FEMA's Map Service Center (MSC). These MSC data will provide the appropriate published effective versions of the data (without LOMR's) to enable the most recent published effective representation. This is necessary

due to the fact that the DFIRM geodatabases available from the NCFMP have had effective LOMR data incorporated over time and do not represent the published effective version, but instead represent the regulatory effective version.

Effective LOMR data captured after the published effective version will be provided by the NCFMP and should be compiled by study contractors and delivered in the FLOOD Geodatabase schema, individually and independent of the initial published effective database. These data will contribute to and represent regulatory effective information.

The NCFMP FLOOD Geodatabase will house all data from back population efforts, and all flood study data going forward. It will act as an archive for statewide flood study data in addition to being a mechanism for the compilation, representation and dissemination of flood study data within the RFRIS website.

Data described and compiled with “S_” and “L_” prefixes during the FLOOD Geodatabase population effort are referred to as “core” FLOOD Geodatabase data as they provide the versioned base of information from which all other FLOOD Geodatabase components are derived, such as Visualization Layers and subsequent FIS information to support RFRIS. Core FLOOD Geodatabase data may vary in geometric extent per submittal, as it is only spatially bound by the source agencies contracting practices. Over time and through the layering of submittals, data that form the FLOOD Geodatabase core will have geometric overlap. All core data will be distinguishable by submittal identification information contained in the S_COMMUNITY_GROUP and S_MODELGROUP feature classes and their subsequent relationship to all FLOOD data as required by standards laid out by the NCFMP. The Core FLOOD Geodatabase data will be the exclusive source for the compilation of Visualization Layers as described below.

Data Keying

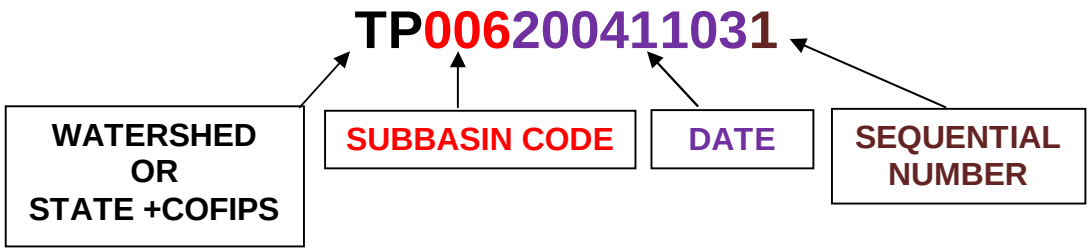
Background

In the previous versions of the E&I and DFIRM Geodatabases the primary keys (PK) tied the data to a spatial extent or specific geography such as a sub basin (E&I) or a county (DFIRM). These primary key designations were used as a means of spatial identification for the extraction and/or reading of data. With the employment of Visualization Layers to facilitate the Regional Flood Risk Information System (RFRIS) website, a spatial identification component in the primary key is no longer necessary in the core FLOOD Geodatabase.

Application of Primary Keys for Back Population (Effective Data)

In order to expedite the FLOOD Geodatabase back population effort, hydraulic, hydrologic and survey data will be compiled and delivered at the watershed extent, utilizing the existing PK mechanisms where data is either constrained to the sub basin or the county. DFIRM data that is imported as a part of the submittal, such as S_FLD_HAZ_AR, S_FLD_HAZ_LN, etc., will be clipped to fit the watershed geometry and may or may not inherit the sub basin PK prefix instead of its current county identifier. For example, the "37013" prefix on the PK for S_FLD_HAZ_AR features could remain while other data with a "TP" prefix within the Tar Pamlico River Basin E&I data could remain as well. The primary emphasis of the keying mechanism is to insure uniqueness in all data that is to be compiled into the statewide FLOOD Geodatabase.

Data keying should be defined by the mapping contractor using the formula:
(STATE + COFIPS or WATERSHED + SUBBASIN CODE) + DATE + SEQUENTIAL NUMBER (where DATE=YYYYMMDD).



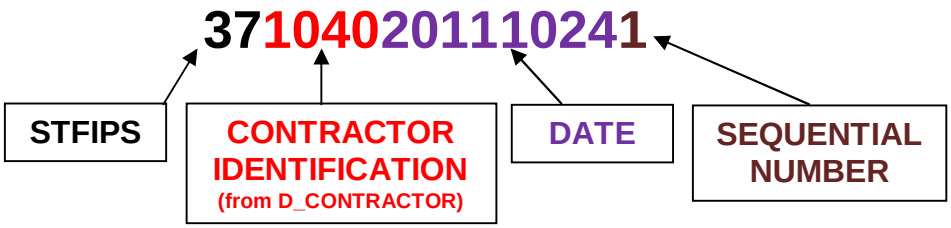
NOTE: For back population, the amount of effort required to re-tile DFIRM data by watershed for FLOOD compilation will be less than the effort required to re-tile the E&I data by counties. Maintaining the existing watershed extents as data is compiled for FLOOD back population will reduce the amount of manipulation and hard file duplication that would occur if these data were, alternately, required to be clipped to county outlines. As stated above, any geographic extent that is required for specific data will be applied at the Visualization Layer compilation.

Application of Primary Keys for Map Maintenance and New Studies

For Map Maintenance and new studies, coastal, hydraulic, hydrologic and survey data is not required to be constrained to specific geometry as was done during the initial statewide floodplain mapping effort. NCFMP contracting practices and modeling scope will determine data extents and therefore pre-defined geographic data constraints will not exist as a part of the PK.

For coastal, hydraulic, hydrologic and survey data for Map Maintenance and New Studies, data keying will be defined by the mapping contractor using the formula:

STFIPS + CONTRACTOR IDENTIFICATION + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). Contractor identification is defined in the D_CONTRACTOR domain.



Application of Primary Keys for Community Information

For the effective data FLOOD Geodatabase back population of community information, all existing PK's can remain as they are in the submitted DFIRM PGDB's.

For submittals going forward after the effective data back population effort, contractor supplied Community Information data such as L_COMMUNITIES_STUDIED, L_PAN_REVIS, etc…, will be defined by the mapping contractor using the formula:
STFIPS + CONTRACTOR IDENTIFICATION + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). Contractor identification is defined in the D_CONTRACTOR domain.

By removing the spatial constraint requirement from the PK, the hydraulic, hydrologic and survey portions of the contractor delivered Geodatabases, it allows the NCFMP to contract, and contractors to perform studies, at natural extents without the arduous task of defining and/or clipping spatial and/or tabular data to arbitrary boundaries.

Geographic constraints necessary for the FIS compilation will be applied during the Visualization Layer creation process. For example, S_HYDRONODEs will be attributed with the FIPS code of the county that they fall within so that when a RFRIS user requests a Summary of Discharges table for a specific county only those nodes that fall within that county will be represented in the resulting FIS table. It is important to note that FIPS codes (spatial constraint) are not a part of the FLOOD Geodatabase core but are added during visualization compilation.

RFRIS Support via "Visualization Layers"

The NCFMP FLOOD Geodatabase provides content and support for various components of the program in order to achieve its goals of an all-digital vision. In addition to the core data compilation, the NCFMP FLOOD Geodatabase also

provides representations of those core data via “Visualization Layers” that are used to facilitate content functionality within the RFRIS website. Visualization layer feature classes are simply grid based representations of the most current core FLOOD Geodatabase data.

Visualization Layers are created after the compilation of and from the core Geodatabase feature classes distinguished by the “S_” prefix. Visualization layer feature classes will have “V_” prefixes. These Visualization Layers serve as mechanisms for data rendering, viewing and export within the RFRIS environment. Visualization Layers are statewide representations of selected spatial feature classes used to facilitate 1) RFRIS viewable content (e.g. flood boundaries and cross sections), 2) RFRIS FIS generation (e.g. floodway data tables and summary of discharge tables), and 3) the export of data for FEMA deliverables.

Although the core feature classes do not have cultural boundary constraints, within the Visualization Layers the application of attribute based cultural boundary information assists in the extraction of study content from the Statewide Enterprise Geodatabase.

Any cultural boundary constraints necessary for FIS compilations will be applied during the Visualization Layer creation process. For example, V_E_HYDRACROSSSECTION’s will be attributed with the FIPS code of the counties that they fall within via the database fields CO_FIPS1, CO_FIPS2, CO_FIPS3, etc., so that when a RFRIS user requests a Floodway Data Table (FDT) for a specific county only those cross sections that are designated to be a part of that FIS will be represented in the resulting FDT. Again, it is important to note that cultural boundary constraints such as county FIPS codes are not a part of the core FLOOD Geodatabase, but are added during Visualization Layer compilation.

Results based data such as L_HYDRAFLOODRESULT that are not constructed into a Visualization Layer but are used in the support of feature classes such as V_E_HYDRACROSSECTION will be called from the core data through existing relationships such as XSECTID. The Visualization Layer will work in conjunction with the FLOOD Geodatabase core data to produce the appropriate version of study data via the RFRIS website. For example, a stream may be made up of multiple study scenarios that occurred over time and each of those scenarios reside, versioned, in the core NCFMP Geodatabase. Visualization Layers will provide the appropriate representation of those scenarios within a seamless feature class, whether it is regulatory effective or preliminary data.

For the initial back population effort, Visualization Layers were produced to represent the regulatory effective scenario of study data. If effective LOMRs have been submitted, they are required to reside in the regulatory effective Visualization Layer. Preliminary Visualization Layers will be produced to support

map maintenance counties once the initial regulatory effective data back population effort is complete.

NCFMP will define policies, procedures to determine timing in regards to the incorporation of LOMRs within the study process.

Data exchange via V_REFGRID

In addition to attribute based cultural boundary constraints, all Visualization Layer feature classes are cut or intersected by the V_REFGRID feature class. V_REFGRID is an NCFMP maintained polygon feature class that identifies the extents of Visualization Layer data exchanges between NCFMP and its contractors. Contractors will intersect the V_REFGRID feature class with their visualization feature classes in order to apply the V_GRIDID foreign key. The V_GRIDID attribute that resides in the Visualization Layers is a static database key that enables the query, extraction and integration of these data as they are updated throughout flood study processes.

Since Visualization Layers are seamless representations of the most current core FLOOD Geodatabase data, and unlike the core data, the Visualization Layers feature classes are overwritten when new study data is integrated. The Visualization Layer feature classes are not archived as the core data are.

The V_REFGRID feature class is maintained by the NCFMP and is not required for contractor data submittals.

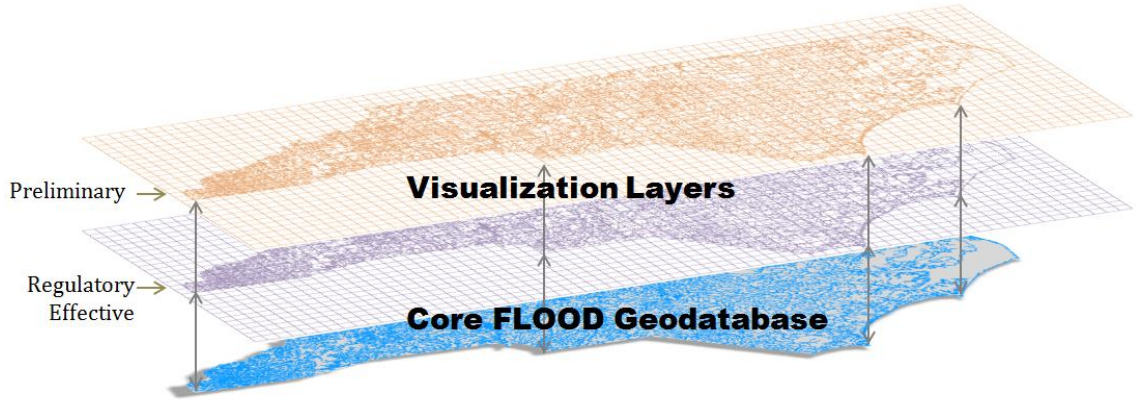
Depending on the floodplain study's status, Visualization Layers will be created to represent:

1. Regulatory Effective – study data representing published effective data with subsequent incorporated effective LOMRs.

2. Preliminary – study data representing preliminary data integrated into the regulatory effective version.

Where applicable, Visualization Layers for preliminary data scenarios from map maintenance are constructed representing preliminary information integrated with the regulatory effective countywide study data. The new preliminary data is stitched into the current effective Visualization Layer to create a seamless tile for representation within RFRIS for the preliminary data scenario (Figure 1).

Figure 1 – Regulatory Effective and Preliminary Visualization Layers



The Visualization Layers are derived from the source feature classes listed in Table 1 below and adhere to the specifications detailed in the RFRIS Visualization Layers section of NCFMP's FLOOD Geodatabase Dictionary. They are compiled by NCFMP contractors from the NCFMP FLOOD Geodatabase core flood study data submittals. Compilation processes include aforementioned techniques such as geometric splitting of feature classes to V_REFGRID and assignment of identifiers such as county FIPS Codes and other values as described below. Feature classes under the Source Feature Class column represent the source core Geodatabase feature classes used for the construction of the Visualization Layers. Feature classes under the Visualization Layers column represent the destination Visualization Layer feature classes constructed from the source core Geodatabase. Attributes listed under the Data Intersection Requirements column contain the list of attributes that must be applied to the derived Visualization Layers in order for data exchange and RFRIS functionalities to function properly.

Table 2 – EMC Contractor Delivered Visualization Layers

Source Feature Class	Visualization Layers	Data Intersection Requirements
S_HYDRACROSSECTION	V_E_HYDRACROSSECTION	ST_FIPS, CO_FIPS1, CO_FIPS2, CO_FIPS3 etc., WTR_NM, WSEL1PCT, V_GRIDID, ISNEW
	V_P_HYDRACROSSECTION	
S_HYDRAMODEL	V_E_HYDRAMODEL	ST_FIPS, CO_FIPS1, CO_FIPS2, CO_FIPS3 etc., WTR_NM_LID, WTR_NM, V_GRIDID, ISNEW
	V_P_HYDRAMODEL	
S_CSTMODEL	V_E_CSTMODEL	ST_FIPS, CO_FIPS1, CO_FIPS2, CO_FIPS3 etc., WTR_NM, V_GRIDID, ISNEW
	V_P_CSTMODEL	

Source Feature Class	Visualization Layers	Data Intersection Requirements
S_HYDRONODE	V_E_HYDRONODE	ST_FIPS, CO_FIPS1, CO_FIPS2, CO_FIPS3 etc., CID, PLACEFIPS, POL_NAME1, POL_NAME2, HUC_CODE, HUC_NAME, V_GRIDID, ISNEW
	V_P_HYDRONODE	
S_FLD_HAZ_AR	V_E_FLD_HAZ_AR	ST_FIPS, CO_FIPS ZONESUB_LID_VALUE, ZONE_LID_VALUE, V_GRIDID
	V_P_FLD_HAZ_AR	
S_FLD_HAZ_LN	V_E_FLD_HAZ_LN	ST_FIPS, CO_FIPS, V_GRIDID
	V_P_FLD_HAZ_LN	
S_STREAMCNTRLINE	V_E_ STREAMCNTRLINE	ST_FIPS, CO_FIPS1, CO_FIPS2, CO_FIPS3 etc., V_GRIDID, ISNEW
	V_P_ STREAMCNTRLINE	
S_HYDROGAGE	V_E_HYDROGAGE	ST_FIPS, CO_FIPS1, CO_FIPS2, CO_FIPS3 etc., WTR_NM, V_GRIDID, ISNEW
	V_P_HYDROGAGE	
S_FLOOD_PROBLEMS	V_E_FLOOD_PROBLEMS	ST_FIPS, CO_FIPS1, CO_FIPS2, CO_FIPS3 etc., V_GRIDID, ISNEW
	V_P_FLOOD_PROBLEMS	
S_HWM	V_E_HWM	ST_FIPS, CO_FIPS1, CO_FIPS2, CO_FIPS3 etc., V_GRIDID, ISNEW
	V_P_HWM	
S_STRUC	V_E_STRUC	ST_FIPS, CO_FIPS1, CO_FIPS2, CO_FIPS3 etc., V_GRIDID, ISNEW
	V_P_STRUC	
S_CSLF_AR	V_P_CSLF_AR	ST_FIPS, CO_FIPS
S_REVISIONS	V_P_REVISIONS	ST_FIPS, CO_FIPS1, CO_FIPS2, CO_FIPS3 etc., MDL_GRP_ID, WTR_NM_LID, WTR_NM, STUDYTYPE, V_GRIDID, ISNEW
*S_DATUM_CONV_PT	V_DATUM_CONV_PT	LATITUDE, LONGITUDE
*S_FIRM_PAN	V_FIRM_PAN	ST_FIPS, CO_FIPS1, CO_FIPS2, CO_FIPS3 etc…
*S_HUC	V_HUC	WTR_NM, ST_FIPS, CO_FIPS1, CO_FIPS2, CO_FIPS3 etc…

NCFMP maintained layer not required for contractor deliverable.

Acronyms definition:

V_E_ = Visualization Regulatory Effective

V_P_ = Visualization Preliminary

NOTE: There is an exception in how County FIPSCODEs are applied to V_P or V_E_HYDRONODE, V_P or V_E_HYDROGAGE, V_P or V_E_HWM and V_P or V_E_STRUC. These feature classes do not have an explicit relationship with cultural geometries as they are derived at a stream or river basin level as input data for hydraulic results. These features may fall outside the "cultural" area of interest (AOI), but should be represented to their full extent in order to detail all hydrologic and survey information required to perform the flood study and be represented in the FIS report. For these feature classes, users must employ logic beyond simple geometric intersections to determine the extent of data that should be listed in the FIS report, in support of the hydraulic results.

To apply ST_FIPS and CO_FIPS to feature classes that have an explicit relationship to cultural boundaries, follow the steps below.

<u>ST_FIPS</u>
To apply the ST_FIPS attribute information for each Visualization Layer, users will calculate the ST_FIPS column for the input features with the state FIPSCODE that is applicable.

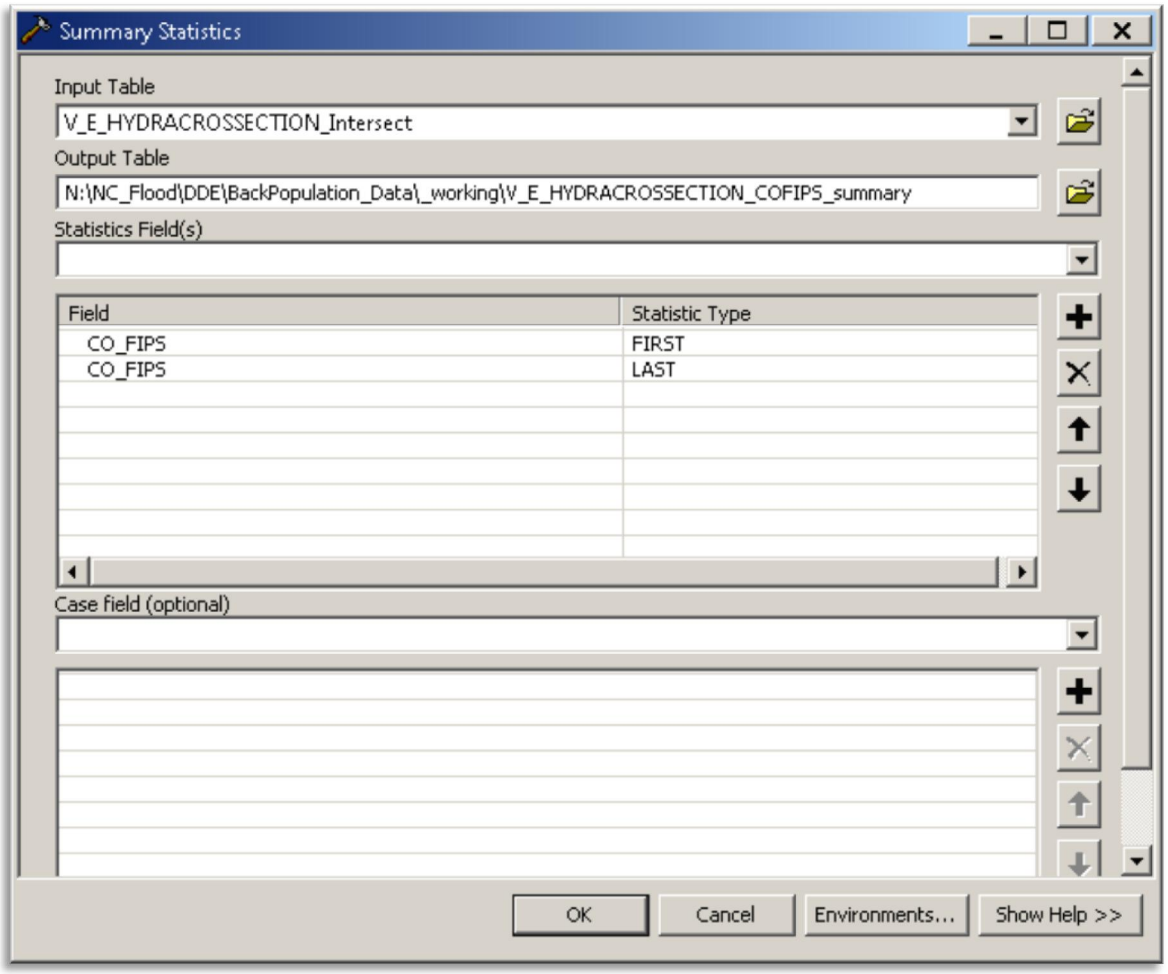
<u>CO_FIPS</u>
To apply CO_FIPS1, CO_FIPS2, CO_FIPS3, etc…, for each Visualization Layer, users will perform the following workflow.

1. Intersect the input feature classes with the appropriate client supplied county boundary feature class.

   NOTE: If applicable, users should be aware that for multi-county jurisdictions, the input county boundary feature class may require geometric modifications in order to assign that jurisdiction to a single county. For example, in North Carolina the City of Rocky Mount straddles both Edgecombe and Nash counties, but only the Nash County FIS Report contains the City of Rocky Mount data. In order to achieve this result in RFRIS the county intersections described above require the input county boundary to be modified by merging the City of Rocky Mount geometry into the Nash county shape.

2. Once the data is intersected, in ArcMap perform a Summarize in the attribute table on the result, utilizing the feature classes' primary key while adding CO_FIPS FIRST and CO_FIPS LAST as Statistics Fields (Figure 2).

Figure 2 – CO_FIPS Summary Statistics



3. Users will join the resulting table to the Visualization Layer feature class and calculate CO_FIPS1, CO_FIPS2, CO_FIPS3, etc., based on occurrence by feature. Features with more than 2 county occurrences will have to be manually inspected and populated for the CO_FIPS3, CO_FIPS4, etc., columns (Figure 3).

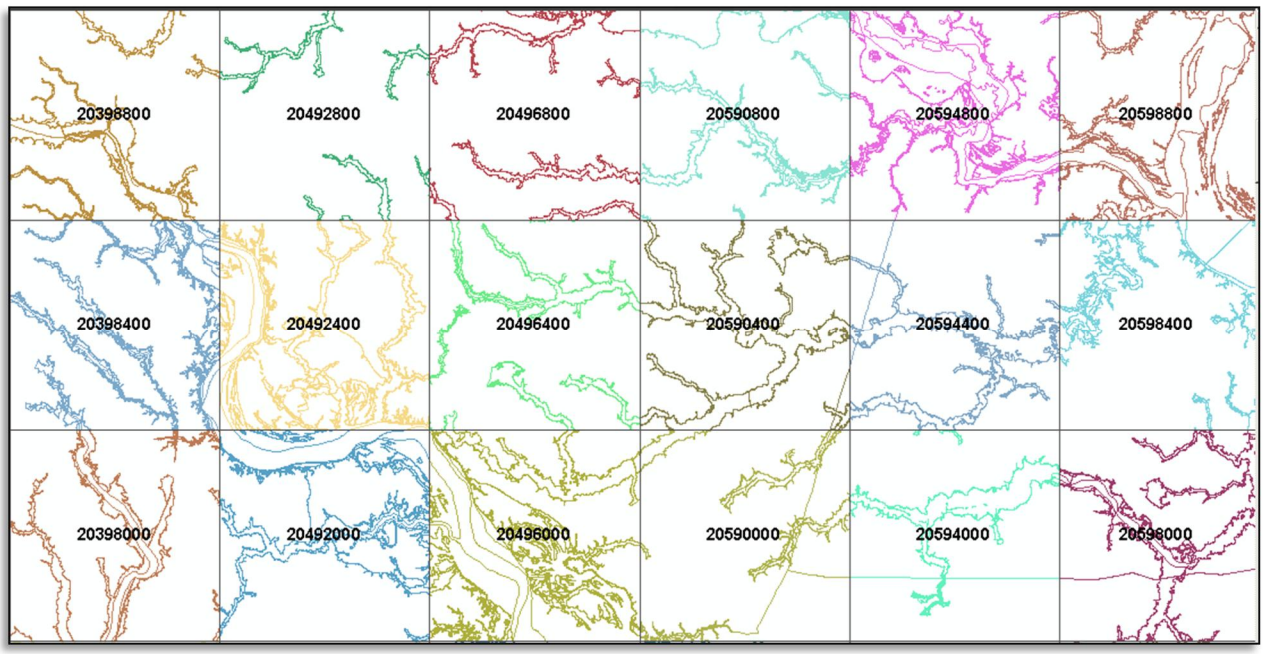
Figure 3 – Calculated CO_FIPS

V_XSECTID	XSECTID	CO_FIPS1	CO_FIPS2	CO_FIPS3	CO_FIPS4	WSEL1PCT	WTR_NM	V_GRIDID
37104020120829826	TP00120090316119	HYDE	BEAUFORT	WASHINGTO	<Null>	8.59	Pungo River Canal	20770000
37104020120829827	TP00120090316120	BEAUFORT	HYDE	WASHINGTO	<Null>	9.06	Pungo River Canal	20770000
37104020120829828	TP00120090316121	HYDE	BEAUFORT	WASHINGTO	<Null>	10.06	Pungo River Canal	20770000
371040201208292597 2	NU00720090305934	JOHNSTON	NASH	WAKE	<Null>	211.04	Moccasin Creek	20178400
371040201208292597 3	NU00720090305934	JOHNSTON	NASH	WAKE	<Null>	211.04	Moccasin Creek	20272400
371040201208292544 2	NU00720090305417	JOHNSTON	NASH	WAKE	<Null>	219.23	Moccasin Creek	20272400
371040201208293127 4	NU01320090305476	LENOIR	CRAVEN	PITT	<Null>	24.79	Neuse River	20456400
371040201208293127 5	NU01320090305476	LENOIR	CRAVEN	PITT	<Null>	24.79	Neuse River	20456800
371040201208293127 2	NU01320090305474	LENOIR	CRAVEN	PITT	<Null>	24.68	Neuse River	20456800
371040201208293126 8	NU01320090305472	LENOIR	CRAVEN	PITT	<Null>	24.57	Neuse River	20456800

V_GRIDID

Contractors will intersect the V_REFGRID feature class with their Visualization Layer feature classes in order to apply the V_GRIDID foreign key. The result will be a geometric intersection that will leave the features cut at the V_REFGRID edges. These geometric splits and resulting V_GRIDID attribution will identify the extents of Visualization Layer data exchanges between the NCFMP and its contractors (Figure 4). In addition, the original core data primary keys will be maintained in the Visualization Layer allowing for proper calling to the core results data. For example, although a VP or VE_HYDRACROSSECTION feature may be split by a V_REFGRID tile, its original XSECTID is maintained and programmatically dissolved so that only one instance of the feature is used to generate a single row in the FDT via the L_HYDRAFLOODRESULT's data.

Figure 4 – V_REFGRID



ISNEW

To apply the ISNEW attribute information for each Visualization Layer, users will join the Visualization Layer to the METADATA table on METAID for matching records only and calculate the ISNEW field as 1 (True).

As indicated in Table 1, the Visualization Layers have attribute requirements in addition to ST_FIPS, CO_FIPS and V_GRIDID. The additional requirements for each Visualization Layer are detailed below.

V_P and V_E_HYDRACROSSECTION

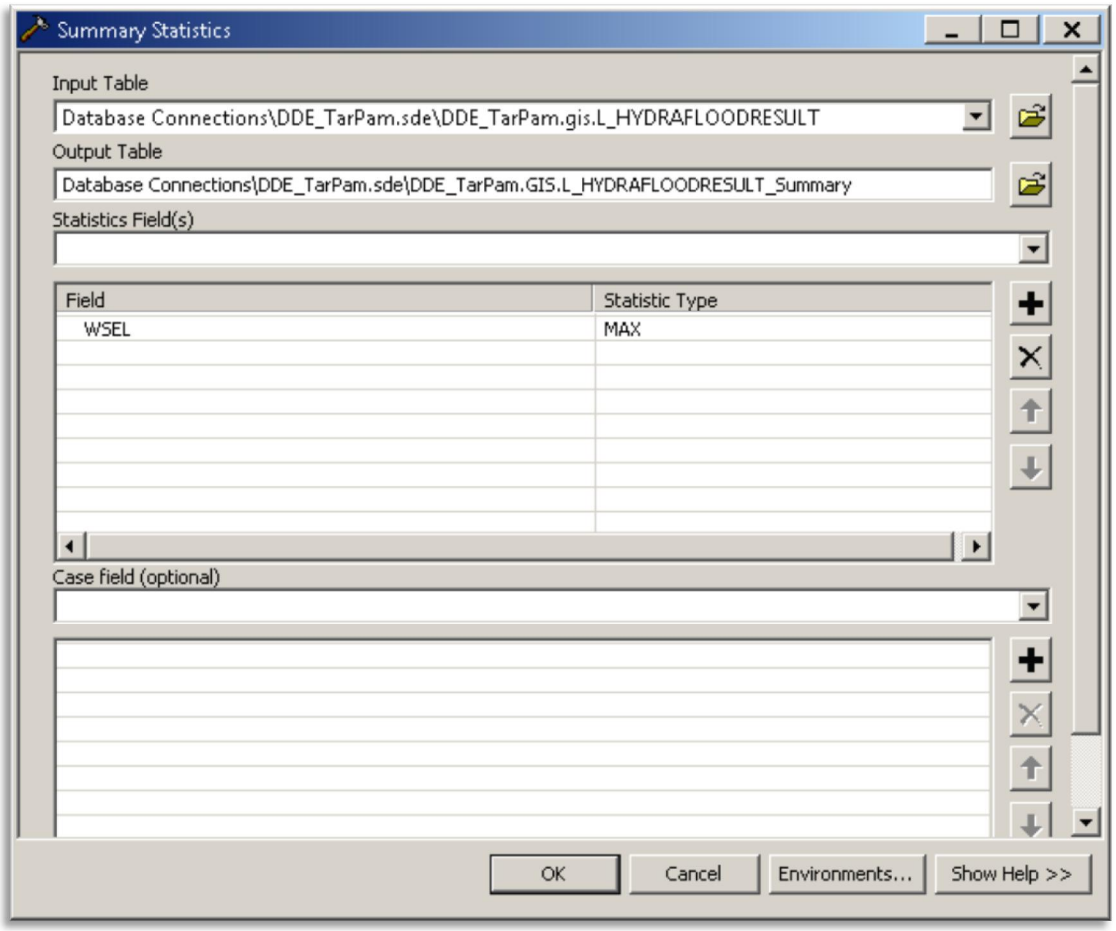
In addition to ST_FIPS, CO_FIPS, V_GRIDID and ISNEW as described above, V_P and V_E_HYDRACROSSECTION also require each feature to be attributed

with its text based regulatory water name (WTR_NM) and its 1% annual chance water-surface elevation including backwater effects (WSEL1PCT).

- WTR_NM - In order to attribute the WTR_NM column users should join V_P or V_E_HYDRACROSSECTION to the S_WTR_NM feature class on WTR_NM_LID and subsequently calculate V_P or V_E_HYDRACROSSECTION.WTR_NM as S_WTR_NM.WTR_NM.

- WSEL1PCT - In order to attribute the WSEL1PCT column users should utilize L_HYDRAFLOODRESULT from the core FLOOD tables, select EVENTID = 1050, and summarize on WSEL with a statistic type of MAX. Users will join this table summary table on XSECTID to the V_P or V_E_HYDRACROSSECTION feature class and calculate the WSEL1PCT with the results (Figure 5).

Figure 5 – WSEL1PCT Summary Statistics



<u>V_P and V_E_HYDRAMODEL</u>
In addition to ST_FIPS, CO_FIPS, V_GRIDID and ISNEW as described above, V_P and V_E_HYDRAMODEL also require each feature to be attributed with its

code based regulatory water name (WTR_NM_LID) and its text based regulatory water name (WTR_NM).

- WTR_NM _LID - In order to attribute the WTR_NM_LID column users should join V_P or V_E_HYDRAMODEL on HYDRAID to the S_STREAMCNTRLINE feature class and subsequently calculate V_P or V_E_HYDRAMODEL.WTR_NM_LID as S_STREAMCNTRLINE.WTR_NM_LID.

- WTR_NM - In order to attribute the WTR_NM column users should join V_P or V_E_HYDRAMODEL to the S_WTR_NM feature class on WTR_NM_LID and subsequently calculate V_P or V_E_HYDRAMODEL.WTR_NM as S_WTR_NM.WTR_NM.

<u>V_P and V_E_CSTMODEL</u>
In addition to ST_FIPS, CO_FIPS, V_GRIDID and ISNEW as described above, V_P and V_E_CSTMODEL also require each feature to be attributed with its text based regulatory water name (WTR_NM).

- WTR_NM - In order to attribute the WTR_NM column users should join V_P or V_E_CSTMODEL to the S_WTR_NM feature class on WTR_NM_LID and subsequently calculate V_P or V_E_CSTMODEL.WTR_NM as S_WTR_NM.WTR_NM.

<u>V_P and V_E_HYDRONODE</u>
In addition to ST_FIPS, CO_FIPS, V_GRIDID and ISNEW as described above, V_P and V_E_HYDRONODE also require each feature to be attributed with a community identification number (CID), place FIPS CODE (PLACEFIPS), primary and secondary political names (POL_NAME1 and POL_NAME2) coming from the NCFMP maintained core feature class S_POL_AR. V_P and V_E_ HYDRONODE also require each feature to be attributed with its corresponding Hydrologic Unit Code (HUC) and HUC Name (HUC_CODE and HUC_NAME) coming from the NCFMP maintained core feature class S_HUC.

- CID, PLACEFIPS, POL_NAME1, POL_NAME2 - In order to attribute the CID, PLACEFIPS, POL_NAME1, POL_NAME2 columns users should spatially intersect V_P or V_E_HYDRONODE to the S_POL_AR feature class.
- HUC_CODE and HUC_NAME - In order to attribute the HUC_CODE and HUC_NAME columns users should spatially intersect V_P or V_E_ HYDRONODE to the S_HUC feature class.

<u>V_P and V_E_FLD_HAZ_AR</u>
In addition to ST_FIPS, CO_FIPS and V_GRIDID as described above, V_P and V_E_FLD_HAZ_AR also require each feature to be attributed with its text primary and secondary flood zone designations (ZONE_LID_VALUE and

ZONESUB_LID_VALUE). Also, the V_P and V_E_FLD_HAZ_AR Visualization Layer feature classes should be geometrically intersected with the appropriate client supplied county boundary feature class. This geometric intersection will insure that upon FEMA export minimal automated geometric operations will have to be performed to submit these data in a countywide format. At the Visualization Layer compilation stage all topological requirements should be completed so that these data meet FEMA specifications without further refinement.

- ZONE_LID_VALUE - In order to attribute the ZONE_LID_VALUE column users should join V_P or V_E_ FLD_HAZ_AR to the D_ZONE domain table on ZONE_LID and subsequently calculate V_P or V_E_ FLD_HAZ_AR. ZONE_LID_VALUE as D_ZONE.FLD_ZONE.

- ZONESUB_LID_VALUE - In order to attribute the ZONESUB_LID_VALUE column users should join V_P or V_E_ FLD_HAZ_AR to the D_ZONE_SUBTYPE domain table on ZONSUB_LID and subsequently calculate V_P or V_E_ FLD_HAZ_AR. ZONSUB_LID_VALUE as D_ZONE_SUBTYPE.FLD_SUBZON.

<u>V_P and V_E_FLD_HAZ_LN</u>
The V_P and V_E_FLD_HAZ_LN attribute requirements are fulfilled by performing the ST_FIPS, CO_FIPS and V_GRIDID attribute applications as described above. Also, the V_P and V_E_FLD_HAZ_LN Visualization Layer feature classes should be geometrically intersected with the appropriate client supplied county boundary feature class. This geometric intersection will insure that upon FEMA export minimal automated geometric operations will have to be performed to submit these data in a countywide format. At the Visualization Layer compilation stage all topological requirements should be completed so that these data meet FEMA specifications without further refinement.

<u>V_P and V_E_STREAMCNTRLINE</u>
The V_P and V_E_STREAMCNTRLINE attribute requirements are fulfilled by performing the ST_FIPS, CO_FIPS, V_GRIDID and ISNEW attribute applications as described above.

<u>V_P and V_E HYDROGAGE</u>
In addition to ST_FIPS, CO_FIPS, V_GRIDID and ISNEW as described above, V_P and V_E_HYDROGAGE also require each feature to be attributed with its text based regulatory water name (WTR_NM).

- WTR_NM - In order to attribute the WTR_NM column users should join V_P or V_E_HYDROGAGE to the S_WTR_NM feature class on WTR_NM_LID and subsequently calculate V_P or V_E_HYDROGAGE.WTR_NM as S_WTR_NM.WTR_NM.

V_P and V_E_FLOOD_PROBLEMS

The V_P and V_E_FLOOD_PROBLEMS attribute requirements are fulfilled by performing the ST_FIPS, CO_FIPS, V_GRIDID and ISNEW attribute applications as described above.

V_P and V_E HWM

The V_P and V_E_HWM attribute requirements are fulfilled by performing the ST_FIPS, CO_FIPS, V_GRIDID and ISNEW attribute applications as described above.

V_P and V_E STRUC

The V_P and V_E_STRUC attribute requirements are fulfilled by performing the ST_FIPS, CO_FIPS, V_GRIDID and ISNEW attribute applications as described above.

V_P_CSLF_AR

The V_P_CSLF_AR attribute requirements are fulfilled by performing the ST_FIPS and CO_FIPS attribute applications as described above.

V_P_REVISIONS

In addition to ST_FIPS, CO_FIPS, V_GRIDID and ISNEW as described above, V_P_REVISIONS also require each feature to be attributed with its MDL_GRP_ID, WTR_NM_LID, WTR_NM, and STUDYTYPE all of which are available at the parent feature class of S_HYDRAMODEL or V_P_HYDRAMODEL.

Visualization Layer Primary Keys

Once all attribution described above is complete, users should calculate the Primary Key columns for the Visualization Layer, i.e. V_XSECTID, using the following criteria.

Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD).

Visualization Layer Compilation for New Studies

NCFMP will provide its contractors with all current FLOOD Geodatabase data associated with the contracted study area. This will include the Visualization Layer tiles. Contractors will perform flood studies and the results will be stitched into the NCFMP Visualization Layers as a part of the flood study update. Contractors will insure that all data intersections and formats meet the guidance set forth in the FLOOD Geodatabase Dictionary. Upon quality control and approval by the NCFMP the contractor supplied Visualization Layer tiles containing the updates associated with the new study will be loaded into

NCFMP's FLOOD Geodatabase to support the RFRIS. The Visualization Layer tiles submitted will supersede the previous tiles of the same V_GRIDID.

Contractor Data Submittals

The NCFMP FLOOD Geodatabase is an Enterprise Geodatabase that is designed to store statewide flood insurance study data. For the purpose of contractor data submittals, the NCFMP accepts File Geodatabase (FGDB) format. It is the intent of the NCFMP to upload these submittals into the seamless statewide Enterprise FLOOD Geodatabase as a part of the Regional Flood Risk Information System (RFRIS).

Users should refer to the FLOOD Geodatabase Dictionary and ERD's for information on NCFMP maintained data layers versus those required for contractor data submittals. NCFMP will maintain significant portions of the Community Information data and therefore certain layers are not required for submittal by the contractor.

Supporting "Hard Files" shall be submitted using the folder naming schemes listed below. This folder naming convention is setup so that the supporting files can be easily tracked to the feature class or table that they are associated. Only one file will be associated with one row or record in the FLOOD Geodatabase. Any supporting data formats that are comprised of multiple files/extensions should be zipped to represent a single referenced entity. The zip file name should be represented appropriately in the corresponding source table.

Deliverables naming conventions have been established for the FLOOD submittals. Defined by 2 digit county prefix **NH** (New Hanover), (for studies that cover multiple counties additional digits will just be appended **BRCONHPN** (Brunswick, Columbus, New Hanover, Pender)), followed by **_FLOOD**, submittal iteration **1**, **2** or **3** and the date **YYYYMMDD**, e.g. **BRCONHPN_FLOOD1_20140109.zip**. The 2 digit county abbreviations can be found in the S_COUNTY_AR feature class. The following folders should be included:

- **\GDB**
  Stores the county specific XML Workspace format data for delivery.
- **\FILE_S_COMMUNITY_GROUP**
  Stores associated submittal info, e.g. FBS documentation.
- **\FILE_L_COMMUNITIES_STUDIED**
  Stores community documentation, e.g. Preliminary Issuance Letters and Panels; Appeal and Protest ACK, AD and RES letters; Preliminary and Final SOMA Letters; Revalidation Letters and Final LFD Letters. A single zip file containing all of these data for each community affected by the study should be submitted.

- **\FILE_L_MT1LOMC**
  Stores associated LOMC documentation.
- **\FILE_L_RASTER_MAPPING**
  Stores raster mapping outputs, e.g. WSEL, Depth, PAC, P30, & Wave Height.
- **\FILE_L_TSDN_DOCUMENTS**
  Stores TSDN documents.
- **\FILE_S_MODEL_GROUP**
  Stores any data associated with the modeling submittal, e.g. any modeling support documentation.
- **\FILE_L_SXS**
  Stores survey text files.
- **\FILE_L_TSCTSURVEY**
  Stores transect survey files.
- **\FILE_S_PHOTO**
  Stores photos.
- **\FILE_S_STRUC**
  Stores structures.
- **\FILE_L_SKETCH**
  Stores sketches.
- **\FILE_S_CSTMODEL**
  Stores coastal modeling files.
- **\FILE_S_HYDRAMODEL**
  Stores hydraulic modeling files, zipped LOMR models and case files.
- **\FILE_S_HYDROMODEL** Stores hydrologic modeling files.

Hard File Naming Conventions

Supporting files shall be named so that they are identifiable to the feature which they are associated. For example, the features primary key should precede the hard file name. Where the primary key, defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD) is appended to the hard file naming convention, e.g. **37104020110811**_MOT_CRK_6_SK121.JPG.

Scope of Study Data Submitted

Within new studies it is inevitable that non-scoped streams will be affected by elevation revisions from scoped/studied streams. These non-scoped streams' hydraulic data will need to be included within the new study data to the full extent of their effective S_HYDRAMODEL, including all corresponding hydraulic data components. These data will be acquired and utilized from the latest versions of NCFMP data and their Primary Keys will be updated to insure uniqueness for the new submittal. For these areas, other related data such as Hydrology (HYDROID) and Survey (SURVYGRPID) are not required to be included in the

core of the submittal as their existing primary key and foreign key link to the regulatory effective data that is already established in the NCFMP Enterprise Geodatabase and should remain as is.

For preliminary data submittals, visualization tiles shall be submitted to cover the entire county, and in addition the entireties of modeled extents present in the core S_HYDRAMODEL feature class shall be included. This may result in the submittal of visualization layer tiles that fall into other counties. This is necessary to insure that any non-scoped streams, as described above, influenced by new study elevations that have been added and rekeyed, are integrated into the V_E feature classes in the preliminary to effective data transition processes.

S_COMMUNITY_GROUP Feature Class Population

The following guidance is provided for populating the S_COMMUNITY_GROUP feature class, which has the purpose of documenting community information data submittals. In the FLOOD Geodatabase design, S_COMMUNITY_GROUP is replacing what was previously L_SUBMITTAL_INFO. S_COMMUNITY_GROUP should consist of a polygon that is drawn to encompass all community/county related data.

For submittals (preliminary, effective, etc) the COMMGRPIDs will be generated to reflect one record for the submittal. The COMMGRPIDs should be derived using the following formula:

STFIPS + CONTRACTOR IDENTIFICATION + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). Contractor identification is defined in the D_CONTRACTOR domain.

Other fields in the table should be populated accordingly with information pertaining to the community information submittal.

Within S_COMMUNITY_GROUP the META_NM field should be populated to “NP” as this field is only relevant for post processing purposes in order to produce the required FEMA submittals.

S_MODEL_GROUP Feature Class Population

The following guidance is provided for populating the S_MODEL_GROUP feature class, which has the purpose of documenting modeling based data submittals e.g hydraulics, hydrology, survey and coastal. In the FLOOD Geodatabase design, S_MODEL_GROUP is replacing what was previously L_SUBMITTAL_INFO for these data. S_MODEL_GROUP should consist of a polygon that is drawn to encompass all modeling related data i.e., coastal, hydraulics, hydrology and survey data related to the submittal. Each LOMR

added after the initial effective publication date will be considered a new hydraulics data package containing its own S_MODEL_GROUP within the overall submittal.
For submittals (preliminary, effective, etc) the MDL_GRP_IDs will be generated to reflect one record for the modeling submittal. The MDL_GRP_IDs should be derived using the following formula:

STFIPS + CONTRACTOR IDENTIFICATION + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). Contractor identification is defined in the D_CONTRACTOR domain.

Other fields in the table should be populated accordingly with information pertaining to the modeling information submittal.

Within S_MODEL_GROUP the META_NM field should be populated to “NP” as this field is only relevant for post processing purposes in order to produce the required FEMA submittals.

L_COMM_MDL_GROUPS Table Population

The L_COMM_MDL_GROUPS table will be used to relate community information submittals to modeling submittals. Contractors should populate this table with COMMGRPID and associated MDL_GRP_IDs.
Refer to the diagram on the cover of this guidance for perspective on how data is derived, related and submitted through the NCFMP FLOOD Geodatabase construct.

Contractor Data Submittal Requirements

The following NCFMP Geodatabase feature classes and tables are indicated as either R – Required, or A – Required if Applicable, depending on the data development submittal requirements. These feature classes and tables need to be submitted to the NCFMP via the guidelines as laid out above. These guidelines are for NCFMP submittals only, as this Geodatabase design can accommodate submittals from other states.

Community Information							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
S_COMMUNITY_GROUP	A feature class holding essential information about the FEMA Case, datums and projections, and location of metadata and study-related zip files. This table is required for all DFIRM submittals.		R	R	R	R	R
L_COMM_MDL_GROUPS	The L_COMM_MDL_GROUPS table relates community information submittals (S_COMMUNITY_GROUP) to modeling submittals (S_MODEL_GROUP). This table is required for all contractor data submittals.		R	R	R	R	R
METADATA	Primary Metadata Table; Links to MetaID and other feature classes in the database. This table is required for all DFIRM submittals.		R	R	R	R	R

Community Information							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
S_FBS	A point feature class that contains information about 1% annual chance floodplain boundary standards. This feature class is required if there are flood hazards present within the study area.		R	R	A	R	A
S_CSLF_AR	A polygon feature class depicting areas of change between new and previous flood hazards.		R	R	A	R	A
L_COMMUNITIES _STUDIED	A lookup table that contains community details and map history information that is shown on the Flood Insurance Rate Map (FIRM) legend or index. This table is required for all DFIRM submittals.		R	R	R	R	R
L_PAN_REVIS	A table used to track map panel updates. This table is required for all DFIRM submittals.		R	R	R	R	R
L_MEETINGS	The L_MEETINGS table is completed to capture information regarding meetings that are referenced in the FIS report. This information is used in the FIS Report Community Meetings table.		R	R	R	R	R

Community Information							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
L_TSDN_DOCUMENTS	A table that links Technical Support Data Notebook (TSDN) documents such as Contact Reports Index, Contact Reports, General Correspondence Index, General Correspondence, Meeting Minutes Index, Meeting Minutes, Sealed Certification, Transmittal, Key to Cross Section Labeling, Hydraulic Analysis Index. This table is required.		R	R	R	R	R
S_MT1LOMCPT	A point feature class used to reference LOMCs that have occurred on a panel. This feature class is required for any LOMC within the county that meets spatial accuracy standards set by NCFMP. (Accuracy standards do not exist as of 11/06.)		A	A	A	A	A
L_MT1LOMC	A look-up table used to reference the LOMCs that have occurred on a panel. This table is required if there are any Letters of Map Change within the county.		A	A	A	A	A

Community Information							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
S_BENCHMARK	A point feature class that contains information about Bench Marks. This feature class is required when Bench Marks are within the study area.		A	A	A	A	A
L_RASTER_MAPPING	A lookup table linking raster mapping outputs to submittals. Since numerous S_HYDRAMODEL raster mapping outputs will likely be merged into one countywide submittal, this is linked to the actual submittal itself. This is required for all projects.		R	R	R	R	R
S_FLOOD_PROBLEMS	A polygon feature class that contains features representing special flood problems for documentation with the study.		R	R	A	R	A
L_CBRS_COMMGRP	The L_CBRS_COMMGRP table relates community information submittals (S_COMMUNITY_GROUP) to S_CBRS data maintained by the NCFMP. This table is required for contractor data submittals where applicable.		A	A	A	A	A

Community Information							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
L_DATUM_COMMGRP	The L_DATUM_COMMGRP table relates community information submittals (S_COMMUNITY_GROUP) to the S_DATUM_CONV_PT feature class maintained by the NCFMP. This table is required for contractor data submittals where applicable.		R	R	R	R	R
L_PLSS_COMMGRP	The L_PLSS_COMMGRP table relates community information submittals (S_COMMUNITY_GROUP) to the S_PLSS_AR feature class maintained by the NCFMP. This table is required for contractor data submittals where applicable.		A	A	A	A	A

Community Information							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
S_PLSS_AR	This feature class is required when U. S. Public Land Survey System (PLSS) areas are shown on the FIRM. The S_PLSS_Ar table contains information about the PLSS areas that are associated within the flood risk project area. These include the attributes for the range, township, and section areas. A spatial file with location information also corresponds with this data table. The spatial elements representing the PLSS areas are polygons. Generally there is one polygon per section. The PLSS areas should cover the entire jurisdiction where sections are defined. Township and range systems do not exist in North Carolina therefore this feature class is not required for contractor submittals. This feature class is required for non-NCFMP counties where township and range systems are utilized.		A	A	A	A	A

Community Information							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
L_COMMUNITY_INFO	A lookup table that contains community map repository details and map history information that is shown on the Flood Insurance Rate Map (FIRM) legend or index. This table will be maintained by NCFMP and is not required for contractor submittals.	Yes					
L_CONTACT_INFO	The L_CONTACT_INFO table is completed to capture information regarding points of contact that are referenced in the FIS report. This table is maintained by NCFMP and is not required for contractor submittals.	Yes					

Community Information							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
L_FIS_PUBLICATION_DATES	The L_FIS_PUBLICATION _DATES table catalogs publication dates for the Countywide FIS Report starting with the initial FIS Report accompanying the North Carolina Statewide FIRM. This table is required as it populates portions of the Notice to Flood Insurance Study Users section of the FIS. This table is maintained by NCFMP and is not required for contractor submittals.	Yes					
L_HISTORICAL_STORMS	A lookup table listing all relevant historical storms for a study area. Used in FIS production. This table is maintained by NCFMP and is not required for contractor submittals.	Yes					
L_HISTSTORM_COFIPS	The L_HISTSTORM_COFIPS table relates historical storms to the county/counties that they impacted. The L_HISTSTORM_CID table is maintained by the NCFMP.	Yes					

Community Information							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
L_POL_FHBM	This table will not apply if all communities on the FIRM never had revisions to their Flood Hazard Boundary Maps (FHBMs). Otherwise, this table is required for all FIRM Databases. The L_Pol_FHBM table is a lookup table that contains a list of communities and FHBM revisions. Each community may have different revision dates. Each revision date may have multiple revision notes. This table is maintained by NCFMP and is not required for contractor submittals.	Yes					

Community Information							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
S_BASE_INDEX	The S_BASE_INDEX feature class contains information about the raster data used as a base map for the flood risk project area. This feature class is required if a raster base map was used as the base map for the FIRM. The spatial elements representing raster base map tile index features are rectangular polygons. For standard U.S. Geological Survey Digital Ortho Quadrangles, polygons must match quarter-quad boundaries. Otherwise, polygons must match the boundaries of the raster tiles used. Polygonal overlap is acceptable where necessary. S_Base_Index is required on both tiled rasters and raster mosaics. This feature class is maintained by NCFMP and is not required for contractor submittals.	Yes					

Community Information							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
S_POL_AR	A polygon feature class that contains information about political areas within the study area. This feature class is maintained by NCFMP and is not required for contractor submittals.	Yes					
S_TRNSPORT_LN	A linear feature class that contains information about the linear base map transportation features such as roads, railroads, and airports. This feature class is maintained by NCFMP and is not required for contractor submittals.	Yes					
L_ADDITIONAL_INFO	A table used to house information used in the Additional Information section of the FIS. This table will be maintained by NCFMP and is not required for contractor submittals.	Yes					
L_STREAM_NAME_CHANGES	Table used to catalog stream name changes that occur within a FIS. This table will be maintained by NCFMP and is not required for contractor submittals.	Yes					

Community Information							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
S_CBRS	A polygon feature class that contains information about the Coastal Barrier Resources Systems (CBRS) and Otherwise Protected (OPA) areas within the study area, if applicable. This feature class will be maintained by NCFMP and is not required for contractor submittals.	Yes					
L_NFIP_STATUS	L_NFIP_STATUS is a table to track the participating status of NFIP communities. This table is maintained by NCFMP and is not required for contractor submittals.	Yes					

Community Information							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
S_DATUM_CONV_PT	The S_DATUM_CONV_PT feature class is required when a vertical datum conversion was performed as part of the study. The spatial elements representing this layer are points. This feature class must be populated whether a countywide /community-based or stream-by-stream based datum conversion factor is required. There cannot be a mixture of countywide/community-based and stream-by-stream conversion factors within a single submittal. Appendix B of FEMA's Guidelines and Standards should be referenced to determine which type of factor must be calculated. This information is needed for the Countywide Vertical Datum Conversion and Stream-by-Stream Vertical Datum Conversion tables in the FIS report. This feature class will be maintained by NCFMP and is not required for contractor submittals as these points were derived at a statewide level.	Yes					

Community Information							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
S_DISCOVERY_MAP	This spatial file contains each stream segment and/or coastline contained within the FIRM database, National Hydrography Dataset (NHD) 100k coverage, or best available streamline data for flood sources included in the scope of work for the flood map project update. This file should provide an inventory of stream mileage for the project area by effective and proposed zone and flood risk project type. This will be shown on the final discovery map. The spatial entity for this layer is a line. This table will be maintained by NCFMP and is not required for contractor submittals. This table is required for non-NCFMP counties.	Yes					

Community Information							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
S_FIN_STUDY_AR	This spatial file contains flooding sources included in the scope of work for the flood risk project update within either the FIRM database or the HUC-12. This file should provide an inventory of square miles for the project area by effective and proposed zone and flood risk project type. This would be shown on a map of the HUC-8 (for perspective) and will be shown on the final discovery map. The spatial entity for this layer is a polygon. This table will be maintained by NCFMP and is not required for contractor submittals. This table is required for non-NCFMP counties.	Yes					
L_FIRM_CID	The L_FIRM_CID table relates FIRM panels to their intersecting Community Identification Numbers (CID). This table will be maintained by NCFMP and is not required for contractor submittals.	Yes					

Community Information							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
S_FIRMPAN	A polygon feature class that contains information about the Flood Insurance Rate Map (FIRM) panel area. This feature class will be maintained by NCFMP and is not required for contractor submittals.	Yes					
L_NATMETRICS_INFO	This table contains the mileage that will meet the Floodplain Boundary Standard and will be either New, Validated, or Updated (NVUE). This information will be used as the basis for projecting and reporting progress towards the national metrics. This data must be obtained from the CNMS database after it is updated as a result of the Discovery meeting. This table will be maintained by NCFMP and is not required for contractor submittals.	Yes					
S_COUNTY_AR	A polygon feature class representing the area of each county. This feature class is maintained by NCFMP and not required for contractor submittals.	Yes					

Survey							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
S_SURVEYGROUP	A polygon feature class that identifies survey submittals used for the floodplain delineation study. The geometric extent of this feature class should encompass all associated field surveyed entities utilized in the associated model for that reach. Similar to S_HYDRAMODEL, this feature class is drawn as a single polygon that represents the survey data that is associated with a modeled reach, beginning at the first modeled section and extending around all surveyed data components for that studied reach. In most cases it is appropriate to snap the polygon vertices to the endpoints of the sections, while making sure to encompass all associated surveyed entities. In certain situations, especially in regards to the back population of data, S_SURVEYGROUP polygons may overlap. This feature class is required for all types of surveys.		A	A	A	A	A

Survey							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
S_APXSTR	A linear feature class that contains general data and locational information about structures surveyed for limited detailed studies. This feature class is required if there is limited detail study within a community.		A		A		
L_APXPHT	A lookup table for the photos associated with structures that have been surveyed to support limited detailed studies. This table is required.		A		A		
S_PHOTO	A point feature class used to represent the locations of the photos taken during the survey. This feature class is required for all surveys with photos.		A	A	A	A	A
L_APXBRDG	A table containing information specific to one bridge. This table is required for an approximate bridge survey.		A		A		
L_APXCUL	A table containing information about one pipe or box, at a culvert crossing. This table is required for an approximate culvert survey.		A		A		
L_APXDAM	A table containing information specific to one dam. This table is required for an approximate dam survey.		A		A		

Survey							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
L_APXRSR	A table that contains data specific to risers. This table is required for an approximate dam survey (with a riser).		A		A		
L_APXSWY	A table containing specific information about the spillways for each dam. This table is required for approximate dam surveys.		A		A		
S_STRUC	A linear feature class that contains attributes and locational information for each structure. This feature class is required for all types of field survey.			R	R	A	A
S_TBM	A point feature class that is used to represent the locations of the temporary benchmarks (TBMs) or elevation reference marks that were used during the survey. This feature class is required for all types of field survey.			R	A	A	A
L_STRPHT	A lookup table for the photos associated with the structures. This table is required for all field surveys.			R	R	A	A
L_STRSKT	A lookup table for the sketches associated with the structures. This table is required all field surveys.			R	R	A	A

Survey							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
L_SKETCH	A table that contains information related to sketches that were created during the survey. This table is required for all field surveys.			R	R	A	A
L_CULPP	A table containing information about one pipe or box, at a culvert crossing. This table is required for a culvert survey.			A	A		
L_BRDG	A table containing data specific to bridges. This table is required for bridge surveys.			A	A		
L_LCHRD	A table that contains supplemental information to better define the low chord geometry of a bridge. The points in this table represent shots taken in the field and are not mandatory for all bridges. This table should be populated if such points are collected.			A	A		
L_PIER	A table in which each record contains information about a pier. This table should be populated for bridge surveys if a pier exists.			A	A		
L_RAIL	A table that contains information about the surveyed rail shots. This table should be populated for bridge/culvert surveys if a rail exists and is determined to be hydraulically significant.			A	A		

Survey							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
L_DAM	A table containing information specific to one dam. This table is required for a dam survey.			A	A		
L_SWY	A table that contains specific information about the spillways for each dam. This table is required for dam surveys.			A	A		
L_RSRBRL	A table that contains data specific to risers. This table is required for dam surveys (with risers).			A	A		
L_RISERWEIR	A relate table that contains information about riser weirs. This table is required for dam surveys (with risers).			A	A		
L_ORFC	A table that contains specific information about the orifices of the riser. This table is required for dam surveys (with risers).			A	A		
L_OTLPP	A table that contains specific information about the outlet pipes from each riser. This table is required for dam surveys (with risers).			A	A		
L_STRUCSTO	A relate table containing information about structure water storage. This table is required for all reservoir routings.			A	A		
L_LEVEE	A table that contains data specific to levees. This table is required for levee surveys/info.			A	A		

Survey							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
S_LEVEEPTS	A point feature class of levee surveyed points. This feature class is required for levee surveys/info.			A	A		
L_CST_STRUCT	The L_CST_STRUCT table is required whenever coastal structures, such as breakwaters, levees, or seawalls, affect local topography and flood hazards. The L_CST_STRUCT table contains information about the coastal structures within the flood risk project area.			A	A	A	A
L_SXS	A table required for all surveyed cross sections.			A	A		
S_SXS	A point feature class that contains location information and also relates to the data table, L_SXS. This feature class is required for all cross section surveys.			A	A		
L_SXSPHT	A lookup table for the photos associated with the cross sections. This table is required for all surveyed cross sections.			A	A		
L_SXSSKT	A lookup table for the sketches associated with the cross sections. This table is required for all surveyed cross sections.			A	A		

Survey							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
S_HWM	A point feature class that contains the attributes and the locations of the high water marks (HWMs) that were surveyed. This feature class is required for all HWM surveys.		A	A	A	A	A
L_HWMPHT	A lookup table for the photos associated with the high water marks. This table is required for a HWM survey.		A	A	A	A	A
L_HWMSKT	A lookup table for the sketches associated with the high water marks. This table is required for a HWM survey.		A	A	A	A	A
L_HWMWTNS	A lookup table that contains information about each witness to high water marks that occured during flooding events. This table is required for a HWM survey.		A	A	A	A	A
S_CHANNEL	A linear feature class of open channel centerlines: These are independent of the stream centerlines data. This feature class is only required for communities where stormwater infrastructure is considered for hydrologic modeling.			A	A		

Survey							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
L_CHANCOND	A table containing information on the condition of the channel. This table is only required for communities where stormwater infrastructure is considered for hydrologic modeling.			A	A		
L_CHANPHT	A table containing information on photos associated with channels. This table is only required for communities where stormwater infrastructure is considered for hydrologic modeling.			A	A		
L_CHANSKT	A table containing information on sketches associated with channels. This table is only required for communities where stormwater infrastructure is considered for hydrologic modeling.			A	A		

Hydrology							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
S_HYDROMODEL	A polygon feature class that identifies the model(s) and hydrologic result file(s) related to a particular model's outfall. S_HYDROMODEL is represented by the sub basin extent used for the hydrologic analysis. The geometric extent of this feature class should encompass all associated hydrologic entities. This feature class is required for all types of hydrologic analyses.		R	R	R		
S_HYDROBASIN	A polygon feature class that identifies the model(s) and hydrologic result file(s) related to a particular model's outfall. This table is required for all types of hydrologic analyses.		R	R	R		
S_HYDRONODE	A point feature class that is required for all types of hydrologic analyses.		R	R	R		
S_HYDROLINK	A linear feature class that is used as the base for delineation of basin boundaries and identification of discharge locations. This feature class is required for all types of hydrologic analysis.		R	R	R		
L_HYDRONODEPARAM	A table used to store parameter values at nodes. This table is required whenever used in the modeling process.		R	R	R		

Hydrology							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
L_HYDROPARAM	The L_HYDROPARAM table is a lookup table used to store node parameters. It is required when equations are used in the modeling process. A list of values is provided and may be expanded based on user need.		R	R	R		
L_HYDRORESULT	A table that identifies one or more flooding events associated with a node in the S_HYDRONODE table. This table is required for all types of hydrologic analyses.		R	R	R		
L_HYDRO_FOOTNOTES	The L_HYDRO_FOOTNOTES table relates the L_HYDRORESULT table to the L_FOOTNOTES table to provide result specific footnotes to FIS table outputs.		A	A	A		
L_HYDROEQUATION	A table used to store basic regression equations utilized in regression analysis. This table is required whenever basic regression equations are used in the modeling process.		R	A	A		
S_HYDROGAGE	A point feature class that is used to locate precipitation and flow gages. This feature class is required if it is utilized for calibration, regression, or frequency analysis.		A	A	A		
S_HYDROIMPERVIOUS	A polygon feature class of impervious areas. This feature class is required if utilized for model parameterization.		A	A	A		

Hydrology							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
S_HYDROLANDUSE	A polygon feature class of land-use classifications. This feature class is required if utilized for model parameterization.		A	A	A		
S_HYDROSOIL	A polygon feature class of soil types. This feature class is required if utilized for model parameterization.		A	A	A		
L_HYDROCNGROUP	This table is used to group curve number lookups.			A	A		
L_HYDROCNLOOKUP	A table that relates various combinations of soil and land use types, to provide an appropriate curve number. This table is required if utilized for rainfall runoff model parameterization.			A	A		
L_HYDROCNRESULT	A table used for describing SCS curve numbers used in models such as HEC-1 and HEC-HMS. This table is required if utilized for rainfall runoff model parameterization.			A	A		
S_HYDROTC	A linear feature class that represents Time of Concentration flowpaths. This feature class is required if utilized for rainfall runoff model parameterization.			A	A		
L_HYDROSTORMCURVE	A table used for describing precipitation data used in the hydrologic analysis. This table is required if utilized for rainfall runoff model parameterization.			A	A		

Hydrology							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
L_HYDROSTORMINFO	A table used for describing precipitation distributions used in the hydrologic analysis. This table is required if utilized for rainfall runoff model parameterization.			A	A		
L_SUMMARY_ELEVATIONS	The L_SUMMARY_ELEVATIONS table is required when a Summary of Non-Coastal Stillwater Elevations table is included in the FIS report. This table stores the static elevation information for water bodies including lakes, reservoirs, and ponds. This table contains information only for those water area features that will be included in the Summary of Non-Coastal Stillwater Elevations table in the FIS report.		A	A	A		
L_SUMMARY_ELEV_FOOTNOTES	The L_SUMMARY_ELEV_FOOTNOTES table relates the L_SUMMARY_ELEVATIONS table to the L_FOOTNOTES table to provide result specific footnotes to FIS table outputs.		A	A	A		
S_HUC	This spatial file contains the Hydrologic Unit Codes (HUCs) for the flood risk project flood risk project area. This layer is static and will be maintained by the NCFMP and will not require contractor submittal.	Yes					

Hydrology							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
L_HYDRO_TERRAIN_GROUPS	The L_HYDRO_TERRAIN_GROUPS table relates the S_HYDROMODEL feature class to the S_TERRAINGROUP feature class to allow for a hydrologic model to have many terrain sources.		R	R	R		

Hydraulics							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
S_MODEL_GROUP	A feature class holding essential information about modeling submittals. S_MODEL_GROUP should consist of a polygon that is drawn to encompass all modeling related data i.e., coastal, hydraulics, hydrology and survey data related to the submittal. This table is required for all contractor submittals.		R	R	R	R	R

Hydraulics							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
S_HYDRAMODEL	A polygon feature class that identifies the models used for the floodplain delineation study. This feature class is drawn as a single polygon that represents a modeled stream reach beginning at the first modeled cross section and extending around all hydraulic components for that studied reach. In most cases it is appropriate to snap the polygon vertices to the endpoints of the cross sections, while making sure to encompass all associated hydraulic entities, e.g. backwater fingers etc... In some cases stream centerline features that are associated with the model in question may fall outside the S_HYDRAMODEL polygon extents. In those situations the related S_HYDRAMODEL's HYDRAID should, and as expected, be associated with the stream centerline in question to solidify the data/model relationship. In certain situations, especially in regards to the back population of data, S_HYDRAMODEL polygons may overlap. It is expected that under this guidance, when new studies are performed, overlaps will not exist in the S_HYDRAMODEL geometries. This feature class is required for all types of hydraulic analyses.		R	R	R		

Hydraulics							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
S_STREAMCNTRLINE	A linear feature class that is required for locating all cross-sections and for referencing the data from the hydraulic study.		R	R	R		
S_STREAMCNTRLNPT	A point feature class used to capture the ground elevation for each vertex of S_STREAMCNTRLINE. This feature class is not required.		A	A	A		
S_HYDRACROSSSECTION	A linear feature class that is required for models that utilize cross sections. This feature class is not submitted for two-dimensional models that do not employ cross sections for simulating water surfaces.		R	R	R		
L_HYDRAXSPT	A table used to store intermediate terrain profiles. This table is required for any modeling approaches that do not store 3-D cross section geometries explicitly in the model inputs.			A	A		
S_REFPOINT	A point feature class that indicates the reference point that was used as the origin for distance measurements along streams and rivers. This feature class is required for all modeled streams.		R	R	R		
L_EVENT	A table defining a list of modeled floods. This table is required for all types of coastal, hydraulic and hydrologic analyses.		R	R	R	R	R

Hydraulics							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
L_HYDRAFLOODRESULT	A table used to store one or more flood elevations and discharges per cross section. This table is required for all types of hydraulic analyses.		R	R	R		
L_HYDRA_FOOTNOTES	The L_HYDRA_FOOTNOTES table relates the L_HYDRAFLOODRESULT table to the L_FOOTNOTES table to provide result specific footnotes to FIS table outputs.		A	A	A		
L_HYDRA_TERRAIN_ GROUPS	The L_HYDRA_TERRAIN_GROUPS table relates the S_HYDRAMODEL feature class to the S_TERRAINGROUP feature class to provide allow for a hydraulic model to have multiple terrain sources.		R	R	R		
L_FOOTNOTES	L_FOOTNOTES is a table that provides a listing of footnotes that report specific conditions to be applied to results within tables in the FIS.		A	A	A	A	A
S_FLD_HAZ_AR	A polygon feature class that contains information about flood hazards. This feature class is required if there are flood hazards present within the study area.		R	R	R	R	R
S_FLD_HAZ_LN	A linear feature class that contains information about flood hazards. This feature class is required if there are flood hazards present within the study area.		R	R	R	R	R

Hydraulics							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
L_ROUGHNESS_SUMMARY	L_ROUGHNESS_SUMMARY table contains information on Manning's "n" or “k” roughness coefficients used in the flood risk project to create the FIS Roughness Coefficients table.		R	R	R		
S_HYDRABFE	The use of BFE lines is now only required in special cases. S_HYDRABFE is required for any digital data where BFE lines will be shown in the FMIS web viewer, with the exception of areas where a water surface elevation raster is present for the 1% annual chance flood event or a water surface elevation profile is available. For areas where a 1% annual chance water surface elevation raster is present the regulatory water-surface elevation (BFE value) will be accessible within the FMIS web viewer. For areas where a profile exists, the regulatory water-surface elevation (BFE value) will be labeled on the cross sections as stored in the FIRM Database S_HYDRACROSSSECTION feature class and/or found on the legacy PDF profile that will be available for viewing/download. For proper BFE placement criteria see Volume 1 and section 6.3 of FEMA's Guidelines and Specifications Appendix L and Appendix C respectively.		A	A	A	A	A

Hydraulics							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
S_HYDRANVALUE_OB	A polygon feature class required when utilized for calculating the distribution of the roughness coefficients along cross sections. This feature class documents overbank roughness coefficients as determined by the engineer during the model creation process.		A	A	A		
S_HYDRANVALUE_CHAN	A polygon feature class required when utilized for calculating the distribution of the roughness coefficients along cross sections. This feature class documents channel roughness coefficients as determined by the engineer during the model creation process.		A	A	A		
S_OVRBNKLN	A linear feature class that contains features representing the overbank flow distances between two adjacent cross sections. This feature class is required for a detailed study that uses overbank flow lengths as input data.			A	A		
S_HYDRAFLOWPATH	A linear feature class that is required for hydraulic models other than HEC-RAS and HEC-2, such as SWMM or ICPR.			A	A		
S_HYDRAJUNCTION	A point feature class that is required for hydraulic models other than HEC-RAS and HEC-2, such as SWMM or ICPR.			A	A		
S_REVISIONS	A polygon feature class that identifies changes in floodplain		R	R	A	R	A

	delineations based on new studies. This feature class can be constructed from the S_HYDRAMODEL in conjunction with the Changes Since Last FIRM (CSLF) from the iRISK Geodatabase. The objective is to create a spatial feature that represents the areas revised due to new studies (including backwater effects on non-studied streams). S_REVISIONS polygons should not overlap within a single submittal. This feature class is required for all types of preliminary hydraulic analyses.						

Hydraulics							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
S_RIV_MRK	The S_RIV_MRK table contains information about the River Marks shown on the FIRM if applicable. The spatial entities representing the river marks are points. The points are generally located along side of the river at regular intervals. This table is required if the FIRM shows river distance marks.		A	A	A	A	A
S_WTR_AR	A polygon feature class that contains information about surface water area features. This feature class is required if there are surface water polygons within the county.		A	A	A	A	A
S_ZONE_AR	The S_Zone_AR layer contains information about the areas defined as Zone AR within the flood risk project area. In some cases, the SFHA that was formerly protected from the 1-percent-annual-chance flood event by a flood control system was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1-percent-annual-chance flood event. This layer is required when the flood risk project area contains flood hazards defined as Zone AR. Alternate zone(s) will be shown in S_FLD_HAZ_AR for the area covered by this polygon.		A	A	A	A	A

Hydraulics							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
S_ALLUVIAL_FAN	This table is required when the modeling includes alluvial fans. Only the 1-percent-annual-chance flood is mapped for alluvial fans. The alluvial fan could be mapped as: Zone AO areas with depths and velocities; Zone AO areas with just depths; or as Zone A, AE, or X. This information is needed for the Summary of Alluvial Fan Analyses and Results of Alluvial Fan Analyses tables in the FIS report. The spatial entities representing the alluvial fans are polygons.		A	A	A		
L_LEGACY_PROFILE	A lookup table linking legacy FIS profiles to S_HYDRAMODEL's where WSEL rasters are not available. This is required for all projects without WSEL rasters.		A	A	A		
L_PROFIL_BKWTR_EL	The L_ PROFIL_BACKWTR_EL table is required when appropriate WSEL Rasters are not able to be produced and an updated profile graph is needed. This table stores the backwater elevations for each flood frequency by stream.		A	A	A		

Hydraulics							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
L_PROFIL_LABEL	The L_ PROFIL_LABEL table is required when appropriate WSEL Rasters are not able to be produced and an updated profile graph is needed. The table is required when that stream profile in the FIS text includes user-defined landmark labels that are not associated with specific cross sections or structures. This table stores the labels needed for FIS profiles by stream.		A	A	A		
L_XS_STRUCT	The L_ XS_Struct table is required when appropriate WSEL Rasters are not able to be produced and an updated profile graph is needed. This table is required when the cross section is associated with a structure (other than a levee) that is shown on the profile. There will be two records per structure in this table – one for the downstream face of the structure and one for the upstream face of the structure. This table stores information needed to plot the structure on the profile.		A	A	A		

Hydraulics							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
S_WTR_NM	A statewide feature class that contains regulatory stream names referenced throughout the database. S_WTR_NM is maintained by the NCFMP and will be provided to contractors prior to study update activities. Contractors should request water name updates via the NCFMP. The geometric representations within S_WTR_NM are for visual reference only and are not to be used for map representations or modeling purposes.	Yes					
L_EFFECTIVE_WTRNMS	A lookup table that contains and tracks regulatory stream names as referenced from the hardcopy DFIRM's and corresponding PGDB water name table (MAPLWTRNM), prior to the implementation of D2E and the S_WTR_NM feature class. L_EFFECTIVE_WTRNMS is for informational purposes only and is maintained by the NCFMP and not required for contractor submittals.	Yes					

Coastal							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
S_CSTMODEL	A polygon feature class that identifies the models used for the coastal floodplain delineation study. This feature class is drawn as a single polygon that represents a modeled reach beginning at the first modeled transect and extending around all coastal components for that studied coastline. In most cases it is appropriate to snap the polygon vertices to the endpoints of the transects, while making sure to encompass all associated coastal mapping entities, e.g. backwater fingers etc. In some cases coastal modeling features that are associated with the model in question may fall outside the S_CSTMODEL polygon extents. In those situations the related S_CSTMODEL's CST_MDL_ID should, and as expected, be associated with the coastal study in question to solidify the data/model relationship. In certain situations, especially in regards to the back population of data, S_CSTMODEL polygons may overlap. It is expected that under this guidance, when new studies are performed, overlaps will not exist in the S_CSTMODEL geometries. This feature class is required for all types of coastal analyses.					R	R

Coastal							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
S_SHORE_LN	A linear feature class that contains information about the shoreline used in the coastal flood hazard model. This feature class is required for coastal modeling studies.					R	R
S_CSTTSCTLN	A linear feature class of coastal transect lines for use in engineering analyses. This feature class is required if there is coastal study within the county.					R	R
L_CST_TSCTPT	A table containing information on coastal transect points. This table is required when there is coastal study within the county.					R	R
L_CST_TSCT_PT_ELEV	A table containing elevation information for coastal transect points. This table is required when there is coastal study within the county.					R	R
L_CST_TSCT_PT_ELEV_FOOTNOTES	The L_CST_TSCT_PT_ELEV_FOOTNOTES table relates the L_CST_TSCT_PT_ELEV to the L_FOOTNOTES table to provide result specific footnotes to FIS table outputs.					A	A
L_SURGE_PARAM	Parameter values used in surge elevations calculations for coastal modeling.					A	A

Coastal							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
S_LIMWA	This feature class is required for all preliminary or final FIRM Databases that show coastal Limit of Moderate Wave Action (LiMWA) features. The S_LIMWA layer is required when a Limit of Moderate Wave Action (LiMWA, previously described as a Coastal Zone A boundary line) is delineated within the coastal floodplain. This layer is required for new coastal analysis. The spatial entities representing the LiMWA are lines. The line represents the limit of 1.5 foot or greater waves in a Coastal AE Zone.					R	A
S_PFD_LN	A linear spatial file of Primary Frontal Dune information.This file is required when a primary frontal dune (PFD) is present along portions, or all of the coastline within the modeled coastal floodplain.					A	A
L_TSCTSURVEY	A table representing the inventoried coastal transect lines. This table is required if coastal study is within the county.					A	A
L_TSCTPHOTO	A relate table containing information about transect photos. This table is required if coastal study is within the county.					A	A

Coastal							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
L_TSCTSKT	A relate table that is required if coastal study is within the county.					A	A
S_TSCTSURVPTS	A point feature class of coastal transect points. This feature class is required if coastal study is within the county.					A	A
L_TSCTRGHNSS	A relate table with several records per point possible. This table is required if coastal study is within the county.					A	A
S_CST_GAGE	A point feature class that contains information about coastal gages for the study area. This feature class is required if there is coastal study in the county.					A	A
L_CST_TERRAIN_GROUPS	The L_CST_TERRAIN_GROUPS table relates the S_CSTMODEL feature class to the S_TERRAINGROUP feature class to allow for a coastal model to have many terrain sources.					R	R
S_ERDUNE_PK_LN	This linear feature class depicts the spatial extent of the Coastal Erosion Dune Peak Line. The creation of this dataset is only applicable in coastal areas where dunes are present. This is an enhanced feature class that is required to be populated when this dataset is specifically included as part of the project scope.					A	A

S_INC_FLOOD_SCEN_AR	This polygon feature class represents increased flooding scenarios for additional areas that would be flooded by hypothetical increases of 1, 2 or 3 feet (or other user-defined values) above the base flood elevation level. This is an enhanced feature class that is required to be populated when this dataset is specifically included as part of the project scope.		A	A	A	A	A
S_PFD_ERSN_AR	This polygon feature class depicts the spatial extent of the FEMA regulatory PFD, delineated between the dune toe and heel. The creation of this dataset is only applicable in coastal areas where dunes are present. This file is required when a primary frontal dune (PFD) is present along portions, or all of the coastline within the modeled coastal floodplain. This is an enhanced feature class that is required to be populated when this dataset is specifically included as part of the project scope.					A	A
S_SIMPL_CST_ZONE_AR	This polygon feature class represents the relative level of wave action within the coastal 1% annual chance floodplain. This is an enhanced feature class that is required to be populated when this dataset is specifically included as part of the project scope.					A	A

Terrain							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
S_TERRAINGROUP	A polygon feature class that identifies terrain submittals used for the floodplain delineation study. This table is required for all terrain submittals.		A	A	A	A	A

Visualization Layers (Regulatory Effective)							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
V_DATUM_CONV_PT	The V_DATUM_CONV_PT is derived from the S_DATUM_CONV_PT table with the addition of LATITUDE and LONGITUDE fields to facilitate FIS table creation. V_DATUM_CONV_PT is required when a vertical datum conversion was performed as part of the study. The spatial elements representing this layer are points. This table must be populated whether a countywide /community-based or stream-by-stream based datum conversion factor is required. There cannot be a mixture of countywide/ community-based and stream-by-stream conversion factors within a single submittal. Appendix B of FEMA's Guidelines and Standards should be referenced to determine which type of factor must be calculated. This information is needed for the Countywide Vertical Datum Conversion and Stream-by-Stream Vertical Datum Conversion tables in the FIS report. This feature class will be maintained by NCFMP and is not required for contractor submittals as these points were derived at a statewide level.	Yes					

Visualization Layers (Regulatory Effective)							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
V_E_CBRS	A polygon feature class that contains information about the Coastal Barrier Resources Systems (CBRS) and Otherwise Protected (OPA) areas within the study area, if applicable. V_E_CBRS is derived from the S_CBRS feature class and compiled at a countywide extent. Supplemental fields/content are added to facilitate NCFRIS content creation.	Yes					
V_E_CSTMODEL	A polygon feature class that identifies the models used for the coastal floodplain delineation study. V_E_CSTMODEL is derived from the S_CSTMODEL feature class and compiled at a countywide extent. Supplemental fields/content are added to facilitate NCFRIS content creation.This feature class is drawn as a single polygon that represents the true spatial extent of the surge model, extending around all coastal components for that studied coastline. In some cases coastal modeling features that are associated with the model in question may fall outside the S_CSTMODEL polygon extents. *(continued on next page)*					R	R

Visualization Layers (Regulatory Effective)							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
V_E_CSTMODEL (cont.)	In those situations the related S_CSTMODEL's CST_MDL_ID should be associated with the coastal study in question to solidify the data/model relationship. In certain situations, especially in regards to the back population of data, S_CSTMODEL polygons may overlap. It is expected that under this guidance, when new studies are performed, overlaps will not exist in the S_CSTMODEL geometries. This feature class is required for all types of coastal analyses.					R	R
V_E_FLD_HAZ_AR	A polygon feature class that depicts regulatory effective flood hazard information. V_E_FLD_HAZ_AR is derived from the S_FLD_HAZ_AR feature class and compiled at a countywide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class displays the latest version of regulatory effective flood hazard information for a county, including revisions from incorporated LOMR data. This feature class will be updated when a preliminary study data goes effective and/or when effective LOMR information is incorporated into the study area. *(continued on next page)*		R	R	R	R	R

Visualization Layers (Regulatory Effective)							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
V_E_FLD_HAZ_AR (cont.)	Preliminary data and effective LOMR information will be stitched into the existing regulatory effective geometry of this feature class in order to display the latest version of regulatory effective flood hazard information for a county within the NCFRIS website. This layer is required anytime a contractor provides updates to regulatory effective flood information. The elements within this feature class should be clipped to the boundary of the county in which the update falls to fulfill the visualization layer requirements.		R	R	R	R	R
V_E_ FLD_HAZ_LN	A linear feature class that depicts regulatory effective flood hazard information. V_E_FLD_HAZ_LN is derived from the S_FLD_HAZ_LN feature class and compiled at a countywide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class displays the latest version of regulatory effective flood hazard information for a county, including revisions from incorporated LOMR data. This feature class will be updated when a preliminary study data goes effective and/or when effective LOMR information is incorporated into the study area. *(continued on next page)*		R	R	R	R	R

Visualization Layers (Regulatory Effective)							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
V_E_ FLD_HAZ_LN (cont.)	Preliminary data and effective LOMR information will be stitched into the existing regulatory effective geometry of this feature class in order to display the latest version of regulatory effective flood hazard information for a county within the NCFRIS website. This layer is required anytime a contractor provides updates to regulatory effective flood information. The elements within this feature class should be clipped to the boundary of the county in which the update falls to fulfill the visualization layer requirements.		R	R	R	R	R
V_E_ FLOOD_PROBLEMS	A polygon feature class that contains features representing special flood problems for documentation within the effective study. V_E_FLOOD_PROBLEMS is derived from the S_FLOOD_PROBLEMS feature class and compiled at a countywide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class is required if there are special flood problems to report.		R	R	A	R	A

Visualization Layers (Regulatory Effective)							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
V_E_HWM	A point feature class that contains the attributes and the locations of the high water marks (HWMs) that were surveyed for the effective study. V_E_HWM is derived from the S_HWM feature class and compiled at a countywide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class is required for all HWM surveys.		A	A	A	A	A
V_E_HYDRACROSSSECTION	A linear feature class that is required for effective models that utilize cross sections. V_E_HYDRACROSSSECTION is derived from the S_HYDRACROSSSECTION feature class and compiled at a countywide extent. The countywide extent is defined by the intersection of the S_HYDRACROSSSECTION and S_STREAMCNTRLINE feature classes occuring within the county in question. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class is not submitted for two-dimensional models that do not employ cross sections for simulating water surfaces.		R	R	R		

Visualization Layers (Regulatory Effective)							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
V_E_HYDRAMODEL	A polygon feature class that identifies the models used for the effective floodplain delineation study. V_E_HYDRAMODEL is derived from the S_HYDRAMODEL feature class and compiled at a countywide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class is drawn as a single polygon that represents a modeled stream reach extending around all associated hydraulic components. In most cases it is appropriate to snap the polygon vertices to the endpoints of the cross sections, while making sure to encompass all associated hydraulic entities, e.g. backwater fingers etc... In some cases stream centerline features that are associated with the model in question may fall outside the S_HYDRAMODEL polygon extents. In those situations the related S_HYDRAMODEL's HYDRAID should be associated with the stream centerline in question to solidify the data/model relationship. In certain situations, especially in regards to the back population of data, S_HYDRAMODEL polygons may overlap. *(continued on next page)*		R	R	R		

Visualization Layers (Regulatory Effective)							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
V_E_HYDRAMODEL (cont.)	It is expected that under this guidance, when new studies are performed, overlaps will not exist in the S_HYDRAMODEL geometries. This feature class is required for all types of hydraulic analyses. The elements within this feature class should be clipped to the boundary of the county in which the update falls to fulfill the visualization layer requirements.		R	R	R		
V_E_HYDROGAGE	A point feature class that is used to locate precipitation and flow gages for the effective study. V_E_HYDROGAGE is derived from the S_HYDROGAGE feature class and compiled at a countywide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class is required if it is utilized for calibration, regression, or frequency analysis.		A	A	A		
V_E_HYDRONODE	A point feature class that is required for all types of effective hydrologic analyses. V_E_HYDRONODE is derived from the S_HYDRONODE feature class and compiled at a countywide extent. Supplemental fields/content are added to facilitate NCFRIS content creation.		R	R	R		

Visualization Layers (Regulatory Effective)							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
V_P_SIMPL_CST_ZONE_AR	V_E_SIMPL_CST_ZONE_AR is derived from the S_SIMPL_CST_ZONE_AR feature class and compiled at a study wide extent. Supplemental fields/content is added to facilitate NCFRIS content creation. This polygon feature class represents the relative level of wave action within the coastal 1% annual chance floodplain. This is an enhanced feature class that is required to be populated when this dataset is specifically included as part of the project scope. The elements within this feature class should be split at the boundary of the county in which the update falls to fulfill the CO_FIPS for the visualization layer requirements.					A	A
V_E_STREAMCNTRLINE	A linear feature class that is required for locating all cross-sections and for referencing the data from the effective hydraulic study. V_E_STREAMCNTRLINE is derived from the S_STREAMCNTRLINE feature class and compiled at a countywide extent. Supplemental fields/content are added to facilitate NCFRIS content creation.		R	R	R		
V_E_STRUC	A linear feature class that contains attributes and locational information			R	R	A	A

	for each effective structure. V_E_STRUC is derived from the S_STRUC feature class and compiled at a countywide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class is required for all types of field survey.						

Visualization Layers (Regulatory Effective)							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
V_FIRMPAN	A polygon feature class that contains information about the Flood Insurance Rate Map (FIRM) panel area. V_FIRMPAN is derived from the S_FIRMPAN feature class. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class will be maintained by NCFMP and is not required for contractor submittals.	Yes					
V_HUC	This spatial file contains the Hydrologic Unit Codes (HUCs) for the flood risk project flood risk project area. V_HUC is derived from the S_HUC feature class. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class will be maintained by NCFMP and is not required for contractor submittals.	Yes					
V_REFGRID	A polygon feature class that identifies the extents of visualization packet data exchanges between NCFMP and its contractors. Contractors will intersect the V_REFGRID feature class with their visualization feature classes in order to apply the V_GRIDID foreign key. This feature class is maintained by the NCFMP and is not required for contractor data submittals.	Yes					

Visualization Layers (Preliminary)							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
V_P_CBRS	A polygon feature class that contains information about the Coastal Barrier Resources Systems (CBRS) and Otherwise Protected (OPA) areas within the study area, if applicable. V_P_CBRS is derived from the S_CBRS feature class and compiled at a countywide extent. Supplemental fields/content are added to facilitate NCFRIS content creation.	Yes					
V_P_CSLF_AR	A polygon feature class depicting areas of change between new and previous flood hazards. V_P_CSLF_AR is derived from the S_CSLF_AR feature class and compiled at a countywide extent. Supplemental fields/content are added to facilitate NCFRIS content creation.		R	R	A	R	A
V_P_CSTMODEL	A polygon feature class that identifies the models used for the coastal floodplain delineation study. V_P_CSTMODEL is derived from the S_CSTMODEL feature class and compiled at a countywide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class is drawn as a single polygon that represents the true spatial extent of the surge model,					R	R

Visualization Layers (Preliminary)							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
V_P_CSTMODEL (cont.)	extending around all coastal components for that studied coastline. In some cases coastal modeling features that are associated with the model in question may fall outside the S_CSTMODEL polygon extents. In those situations the related S_CSTMODEL's CST_MDL_ID should be associated with the coastal study in question to solidify the data/model relationship. In certain situations, especially in regards to the back population of data, S_CSTMODEL polygons may overlap. It is expected that under this guidance, when new studies are performed, overlaps will not exist in the S_CSTMODEL geometries. This feature class is required for all types of coastal analyses.					R	R
V_P_FLD_HAZ_AR	A polygon feature class that depicts preliminary flood hazard information. V_P_FLD_HAZ_AR is derived from the S_FLD_HAZ_AR feature class and compiled at a countywide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. *(continued on next page)*		R	R	R	R	R

Visualization Layers (Preliminary)							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
V_P_FLD_HAZ_AR (cont.)	This feature class displays the preliminary version of flood hazard information for a county, and may include revisions from incorporated LOMR data. This feature class will be created to show preliminary study data. Effective data will be stitched into the preliminary geometry of this feature class in order to display a contiguous countywide version of flood hazard information within the NCFRIS website. This layer is required anytime a contractor produces preliminary flood information. The elements within this feature class should be clipped to the boundary of the county in which the preliminary study falls to fulfill the visualization layer requirements.		R	R	R	R	R
V_P_ FLD_HAZ_LN	A linear feature class that depicts preliminary flood hazard information. V_P_FLD_HAZ_LN is derived from the S_FLD_HAZ_LN feature class and compiled at a countywide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class displays the preliminary version of flood hazard information for a county, *(continued on next page)*		R	R	R	R	R

Visualization Layers (Preliminary)							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
V_P_FLD_HAZ_LN (cont.)	and may include revisions from incorporated LOMR data This feature class will be created to show preliminary study data. Effective data will be stitched into the preliminary geometry of this feature class in order to display a contiguous countywide version of flood hazard information within the NCFRIS website. This layer is required anytime a contractor produces preliminary flood information. The elements within this feature class should be clipped to the boundary of the county in which the preliminary study falls to fulfill the visualization layer requirements.		R	R	R	R	R
V_P_ FLOOD_PROBLEMS	A polygon feature class that contains features representing special flood problems for documentation within the preliminary study. V_P_FLOOD_PROBLEMS is derived from the S_FLOOD_PROBLEMS feature class and compiled at a countywide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class is required if there are special flood problems to report.		R	R	A	R	A

Visualization Layers (Preliminary)							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
V_P_HWM	A point feature class that contains the attributes and the locations of the high water marks (HWMs) that were surveyed for the preliminary study. V_P_HWM is derived from the S_HWM feature class and compiled at a countywide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class is required for all HWM surveys.		A	A	A	A	A
V_P_HYDRACROSSSECTION	A linear feature class that is required for preliminary models that utilize cross sections. V_P_HYDRACROSSSECTION is derived from the S_HYDRACROSSSECTION feature class and compiled at a countywide extent. The countywide extent is defined by the intersection of the S_HYDRACROSSSECTION and S_STREAMCNTRLINE feature classes occuring within the county in question. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class is not submitted for two-dimensional models that do not employ cross sections for simulating water surfaces.		R	R	R		

Visualization Layers (Preliminary)							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
V_P_HYDRAMODEL	A polygon feature class that identifies the models used for the preliminary floodplain delineation study. V_P_HYDRAMODEL is derived from the S_HYDRAMODEL feature class and compiled at a countywide extent representing only preliminary hydra models. Effective hydra models will not reside within this feature class due to symbology requirements that are necessary for the display of preliminary information within NCFRIS. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class is drawn as a single polygon that represents a modeled stream reach extending around all associated hydraulic components. In most cases it is appropriate to snap the polygon vertices to the endpoints of the cross sections, while making sure to encompass all associated hydraulic entities, e.g. backwater fingers etc... In some cases stream centerline features that are associated with the model in question *(continued on next page)*		R	R	R		

Visualization Layers (Preliminary)							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
V_P_HYDRAMODEL (cont.)	may fall outside the S_HYDRAMODEL polygon extents. In those situations the related S_HYDRAMODEL's HYDRAID should be associated with the stream centerline in question to solidify the data/model relationship. In certain situations, especially in regards to the back population of data, S_HYDRAMODEL polygons may overlap. It is expected that under this guidance, when new studies are performed, overlaps will not exist in the S_HYDRAMODEL geometries. This feature class is required for all types of hydraulic analyses. The elements within this feature class should be clipped to the boundary of the county in which the update falls to fulfill the visualization layer requirements.		R	R	R		
V_P_HYDROGAGE	A point feature class that is used to locate precipitation and flow gages for the preliminary study. V_P_HYDROGAGE is derived from the S_HYDROGAGE feature class and compiled at a countywide extent. *(continued on next page)*		A	A	A		

Visualization Layers (Preliminary)							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
V_P_HYDROGAGE (cont.)	Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class is required if it is utilized for calibration, regression, or frequency analysis.		A	A	A		
V_P_HYDRONODE	A point feature class that is required for all types of preliminary hydrologic analyses. V_P_HYDRONODE is derived from the S_HYDRONODE feature class and compiled at a countywide extent. Supplemental fields/content are added to facilitate NCFRIS content creation.		R	R	R		
V_P_REVISIONS	A polygon feature class that identifies changes in floodplain delineations based on new studies. V_P_REVISIONS is derived from S_REVISIONS feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate RFRIS content creation.		R	R	A	R	A

Visualization Layers (Preliminary)							
Table Name	**Description**	**Maintained by NCFMP**	**Riverine**			**Coastal**	
			New Approximate Analyses	**New Detailed Analyses**	**Back-Population**	**New Analysis**	**Back-Population**
V_P_SIMPL_CST_ZONE_AR	V_E_SIMPL_CST_ZONE_AR is derived from the S_SIMPL_CST_ZONE_AR feature class and compiled at a study wide extent. Supplemental fields/content is added to facilitate NCFRIS content creation. This polygon feature class represents the relative level of wave action within the coastal 1% annual chance floodplain. This is an enhanced feature class that is required to be populated when this dataset is specifically included as part of the project scope. The elements within this feature class should be split at the boundary of the county in which the update falls to fulfill the CO_FIPS for the visualization layer requirements.					A	A
V_P_STREAMCNTRLINE	A linear feature class that is required for locating all cross-sections and for referencing the data from the effective hydraulic study. V_P_STREAMCNTRLINE is derived from the S_STREAMCNTRLINE feature class and compiled at a countywide extent. Supplemental fields/content are added to facilitate NCFRIS		R	R	R		

	content creation.						
V_P_STRUC	A linear feature class that contains attributes and locational information for each effective structure. V_P_STRUC is derived from the S_STRUC feature class and compiled at a countywide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class is required for all types of field survey.			R	R	A	A

Topology

Every effort should be made to ensure vector data is topologically correct throughout all datasets within the NCFMP Geodatabase. **Contractors should create and adhere to the topology guidelines as described in Section 8 of FEMA's Flood Insurance Rate Map (FIRM) Database Technical Reference, May 2016:**

Please note that where duplicate features occur as described in the core data and modeling scenario portions of this guidance, the application of certain topology rules may not apply.

Feature Class Metadata Submittals

NCFMP utilizes a non-spatial METADATA table to document the sources of all data stored within the statewide NCFMP ArcSDE Geodatabase that facilitates the North Carolina Flood Risk Information System (NCFRIS) website. Use of this table enables data sources to be documented at the feature level within any feature class. METADATA records are available for all spatial features that reside within the NCFMP FLOOD Geodatabase.

Contractors are not required to deliver separate feature class specific metadata files for their submittals. However, Contractors are responsible for reporting any data development methods that may not be documented in the existing feature class specific statewide metadata records.

METADATA Table Population

Contractors are required to populate the METADATA table within the FLOOD Geodatabase. The METADATA table documents data sources and facilitates creation of countywide or basin wide metadata for the following FEMA Metadata Profiles:

- Terrain
- Orthoimagery
- Base Map
- Survey
- Hydrology
- Hydraulics
- Coastal
- Alluvial Fan
- Floodplain Mapping
- DFIRM

Each of the spatial feature classes in the NCFMP FLOOD Geodatabase includes the field METAID. METAID is the foreign key to the METADATA table and provides the ability to document data sources at the feature level. The METADATA table is used to document the sources of the data contained in each spatial feature class. This information will be used to populate the Lineage sections of the required FEMA Metadata Profiles.

In the initial implementation of the NCFMP DFIRM and E&I databases, single standardized Source Citation abbreviations were established for most feature classes. However, as the NCFMP moves into Map Maintenance, this will change. In some cases, new METAIDs, Source Citation abbreviations, and associated source documentation will be needed for entire new datasets (e.g., new countywide orthoimages or road centerlines). In other cases, new documented sources will need to be added that generally follow the S_HYDRAMODEL polygons. In either case, the new source citations should build upon the previously provided source documentation. Several examples are provided for clarification:

As new base data sources are provided (e.g., updates to orthoimagery, road centerlines, or political boundaries), new BASE# source citations should be added. Each new Source Citation abbreviation should increment up by one, starting with the highest existing number already used. For example, if BASE8 is the highest existing BASE# value used in a given county for the initial countywide mapping, then BASE9 might be used for new countywide road centerlines and BASE10 for new countywide political boundaries provided for the Map Maintenance study.

As new restudy data sources are added due to LOMRs or other physical map revisions, new LOMC# or STUDY# source citations should be added. All features that are revised due to that new study should reflect the new source citation abbreviation. For example, if a LOMR revises BFEs, cross sections, flood hazard boundaries, flood hazard areas, and adds one new road centerline, each of those affected features should get the same LOMC# source citation that references the LOMR case number and effective date. Similarly, all features associated with a Map Maintenance restudy should have new source citation abbreviations that increment up from any that were previously used in the county.

Previously, separate Source Citation abbreviations were provided for use in the NCFMP DFIRM and E&I Geodatabases. For example, E&I S_HYDRACROSSSECTION features used CROSSECTION1 and DFIRM MAPXSLN features used STUDY4. Now that these two geodatabase have been combined into a single FLOOD Geodatabase, the DFIRM Source Citation abbreviations will take precedence over the E&I Source Citation abbreviations. FLOOD cross sections that are back populated from the E&I and DFIRM Databases should use STUDY4. New Map Maintenance study cross sections should use STUDY5 (or the next highest STUDY# not previously used).

For each NC FLOOD Geodatabase feature class, recommendations are provided in the table below for Source Citation abbreviations. These Source Citation abbreviations conform to requirements provided by FEMA in the Metadata Profiles. Contractors should use these pre-defined source citation abbreviations to the extent that they make sense. If additional sources need to be documented, the following guidance is provided:

Additional Source Citation abbreviations may be added starting with the highest existing number for a given prefix (e.g., BASE, STUDY) and numbering sequentially above that.

Note that the source citation abbreviations are case sensitive.

For any new source citations that are added, complete documentation of all fields in the METADATA table is required.

Source citation abbreviations should not repeat within a given county. However, across counties, the same source citation abbreviation may apply. The METAIDs will keep them unique by county.

For situations where the only difference between two adjacent polygons in S_FLD_HAZ_AR is the HYDRAID and METAID, the line separating those polygons should be coded as a SOURCE BOUNDARY in S_FLD_HAZ_LN.

A METADATA table with default values and guidance on how to enter the required variables is also provided. Cells that are highlighted in yellow require variables to be completed by the Contractor.

Recommended Source Citation Abbreviations by Feature Class

NC FLOOD Geodatabase Feature Class	DFIRM/E&I Source Citation Abbreviation	FLOOD Source Citation Abbreviation	Guidance
Community			
S_BASE_INDEX	BASE3	BASE3 or higher	Increment BASE# higher each time new imagery is used.
S_BENCHMARK	BASE4 for NGS benchmarks, BASE5 for NCGS benchmarks, BASE6 for contractor established benchmarks	BASE4 for NGS benchmarks, BASE5 for NCGS benchmarks, BASE6 for contractor established benchmarks	Increment BASE# higher if new contractor established benchmarks are added during a new study.
S_CBRS	FIS2	FIS2 or higher	Increment FIS# higher if new CBRS data are added.
S_COMMUNITY_GROUP		REF10 or higher	Increment REF# higher as new data are added.
S_DATUM_CONV_PT		BASE1	Use BASE1 for USGS quad corners.
S_DISCOVERY_MAP		REF10 or higher	Increment REF# higher as new data are added.
S_FIN_STUDY_AR		REF10 or higher	Increment REF# higher as new data are added.
S_FIRMPAN	STUDY1	STUDY1 or higher	If new FIRM panels are added, use STUDY# that corresponds with the restudy.
S_MT1LOMCPT	LOMC1	LOMC1	Use LOMC1 for all MT1 LOMC points
S_PLSS_AR		BASE#	Will not apply in NC.

S_POL_AR	BASE7	BASE7	Increment BASE# higher each time new political boundaries are used.
S_TRNSPORT_LN	BASE8	BASE8	Increment BASE# higher each time new transportation data are used.
Survey			
S_APXSTR	SPATIAL-FILES1	STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_CHANNEL	SPATIAL-FILES1	STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_HWM	SPATIAL-FILES1	STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_LEVEEPTS	SPATIAL-FILES1	STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_PHOTO	PHOTOS1	STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_STRUC	SPATIAL-FILES1	STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_SURVEYGROUP	SPATIAL-FILES1	STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_SXS	SPATIAL-FILES1	STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_TBM	SPATIAL-FILES1	STUDY4 or higher	Increment STUDY# higher for each new restudy.
Hydrology			
S_HUC		BASE10 or higher	Increment BASE# higher as new data are added.
S_HYDROBASIN	FEMA-DCS-Terrain1	STUDY4 or higher	Increment STUDY# higher

			for each new restudy.
S_HYDROGAGE	FLOW-GAGE1	STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_HYDROIMPERVIOUS	IMPERVIOUS-AREA-COVERAGE1	STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_HYDROLANDUSE	LANDUSE1	STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_HYDROLINK	Other1	STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_HYDROMODEL		STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_HYDRONODE	Other1	STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_HYDROSOIL	SOILMAP1	STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_HYDROTC	FEMA-DCS-Terrain1	STUDY4 or higher	Increment STUDY# higher for each new restudy.
Hydraulics			
S_ALLUVIAL_FAN		STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_FBS		STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_FLD_HAZ_AR	STUDY4	STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_ FLD_HAZ_LN	STUDY4	STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_FLOOD_PROBLEMS		STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_HYDRABFE	FEMA-DCS-HYDRAULICS1	STUDY4 or higher	Increment STUDY# higher for each new restudy.

S_HYDRACROSSSECTION	CROSSSECTION1	STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_HYDRAFLOWPATH	Other2	STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_HYDRAJUNCTION	Other2	STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_HYDRAMODEL		STUDY4 or higher where ISLOMR = 0 (False)	Increment STUDY# higher for each new restudy
S_HYDRAMODEL		LOMC2 or higher where ISLOMR = 1 (True)	Increment LOMC# higher for each new restudy
S_HYDRANVALUE_CHAN	HYDRAMODEL1	STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_HYDRANVALUE_OB	HYDRAMODEL1	STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_MODEL_GROUP		STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_OVRBNKLN	HYDRAMODEL1	STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_REFPOINT	STREAMCENTERLINES1	STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_RIV_MRK		STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_STREAMCNTRLINE	STREAMCENTERLINES1	STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_STREAMCNTRLNPT	STREAMCENTERLINES1	STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_WTR_AR	STUDY2	STUDY2 or assigned with the core study features.	If new water areas are added, use STUDY# that corresponds with the restudy.

S_WTR_NM	STUDY4	STUDY4 or higher	If new water names are added, use STUDY# that corresponds with the restudy.
S_ZONE_AR		STUDY4 or higher	Increment STUDY# higher for each new restudy.
Coastal			
S_CST_GAGE	Other6	STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_CSTMODEL		STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_CSTTSCTLN	Other4	STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_LIMWA		STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_PFD_LN	Other7	STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_SHORE_LN	Other3	STUDY4 or higher	Increment STUDY# higher for each new restudy.
S_TSCTSURVPTS	Other5	STUDY4 or higher	Increment STUDY# higher for each new restudy.
Terrain			
S_TERRAINGROUP		TOPO11 or higher	Increment Other# higher as new terrain data are used.

METAID	ORIGIN	PUBDATE	TITLE	GEOFORM	PUBPLACE	PUBLISH	OTHERCIT	SRCSCALE	TYPESRC	CALDATE	SRCCURR	SRCCITEA	SRCCONTR	Feature Class Use
	U.S. Geological Survey	1999	7.5-Minute Quadrangle Grid	Vector digital data	Raleigh, NC	North Carolina Center for Geographic Information and Analysis	Grid of USGS 7.5-Minute Series Topographic Maps	24000	CD-ROM	1999	publication date	BASE1	Grid of USGS 7.5-Minute Series Topographic Maps	S_DATUM_CONV_PT
	[County agency that supplied base imagery]	[date of county data]	Digital Orthoimagery	Remote sensing image	[Town and state from address of county agency that provided data]	[County agency that supplied base imagery]	Digital Orthophotography provided by [county agency name]. This information was collected at a scale of [scale] from aerial photography flown in [date].	[Scale of imagery]	CD-ROM	[date of county data]	Ground conditions	BASE3	Location of roads, railroads, bridges, streams, and other physical features.	S_BASE_INDEX
	National Geodetic Survey	[publication date]	Geodetic bench marks	Vector digital data	Silver Spring, MD	National Geodetic Survey	The National Geodetic Survey (NGS) serves as the Nation's depository for geodetic data in the National Spatial Reference System. These geodetic data include bench marks and other control points that provide the base of reference for latitude, longitude, height, scale, orientation, and gravity measurements used throughout the United States.	24000	CD-ROM	[publication date]	publication date	BASE4	National Geodetic Survey reference points (bench marks).	S_BENCHMARK
	North Carolina Geodetic Survey	[publication date]	Geodetic bench marks	Vector digital data	Raleigh, NC	North Carolina Geodetic Survey	The North Carolina Geodetic Survey (NCGS) is the lead agency in North Carolina responsible for the coordination of geodetic activities among State agencies. NCGS coordinates the development, adoption, and promotion of: (a) classification standards of content, format, and accuracy for geodetic data and (b) standards and specifications for geodetic surveying techniques and technologies for use by all State agencies and, encourages their use by non-state agencies. NCGS disseminates information on technological improvements for collecting geodetic data and coordinates the plans and requirements for geodetic activities of State agencies. The NCGS Geodetic Survey Section establishes precisely located monuments on the North Carolina Grid System and Bench Marks referenced to a vertical datum (NGVD 1929 and NAVD 1988). The Geodetic Survey Section establishes	24000	CD-ROM	[publication date]	publication date	BASE5	North Carolina Geodetic Survey reference points (bench marks).	S_BENCHMARK

METAID	ORIGIN	PUBDATE	TITLE	GEOFORM	PUBPLACE	PUBLISH	OTHERCIT	SRCSCALE	TYPESRC	CALDATE	SRCCURR	SRCCITEA	SRCCONTR	Feature Class Use
							and maintains the official survey base of the state of North Carolina to support mapping, boundary determination, property delineation, infrastructure development, resource evaluation surveys, and scientific applications.							
	North Carolina Floodplain Mapping Program	[publication date]	Geodetic bench marks	Vector digital data	Raleigh, NC	North Carolina Geodetic Survey	North Carolina Geodetic Survey (NCGS) and contractor surveyed vertical control monuments meet similar requirements to the NGS monuments. The qualifying criteria for depicting bench marks established by the State's contractors on the new digital FIRM panels include: GPS surveying of permanent 3-D survey monuments to 5-centimeter or better local network accuracy guidelines, in accordance with NOAA Technical Memorandum NOS NGS-58 "Guidelines for Establishing GPS-Derived Ellipsoid Heights (Standards: 2 cm and 5 cm)," and conversion to NAVD 88 orthometric heights using NGS' latest geoid mode; requiring a stability classification of "C" or better; and submitting GPS files and station descriptions to NCGS.	12000	CD-ROM	[publication date]	publication date	BASE6	Reference points (bench marks) established during the Flood Insurance Study.	S_BENCHMARK
	North Carolina Floodplain Mapping Program	[publication date]	Political boundaries	Vector digital data	Raleigh, NC	North Carolina Floodplain Mapping Program	Political boundaries shown on the DFIRM were derived from multiple sources including N.C. Department of Transportation, the N.C. Geographic Database, and the county.	[Scale of data]	CD-ROM	[publication date]	publication date	BASE7	Spatial and attribute information for political entities (counties, municipalities) and military and Native American lands.	S_POL_AR
	North Carolina Floodplain Mapping Program	[publication date]	Transportation features	Vector digital data	Raleigh, NC	North Carolina Floodplain Mapping Program	Transportation features were derived from multiple sources including N.C. Department of Transportation, the N.C. Geographic Database, and the County.	[Scale of data]	CD-ROM	[publication date]	publication date	BASE8	Spatial and attribute information for transportation features including roads, railroads, and airports.	S_TRNSPORT_LN
	North Carolina Floodplain Mapping Program	[publication date]	HUC-8 hydrologic Units	Vector digital data	Raleigh, NC	North Carolina Floodplain Mapping Program	HUC-8 hydrologic units	12000	CD-ROM	[publication date]	publication date	BASE10	HUC-8 hydrologic units	S_HUC

METAID	ORIGIN	PUBDATE	TITLE	GEOFORM	PUBPLACE	zes	OTHERCIT	SRCSCALE	TYPESRC	CALDATE	SRCCURR	SRCCITEA	SRCCONTR	Feature Class Use
	U.S. Fish and Wildlife Service	[Latest CBRS date in S_CBRS]	John H. Chaffee Coastal Barrier Resources System maps	Map	Washington, D.C.	U.S. Fish and Wildlife Service	The Coastal Barrier Resources Act (P.L. 97-348) of 1982 established the John H. Chafee Coastal Barrier Resources System (CBRS) which is comprised of coastal barrier units along the Atlantic, Gulf of Mexico, and Great Lakes coasts. These areas are depicted on a series of maps entitled "John H. Chafee Coastal Barrier Resources System" that are enacted by Congress. Most new Federal expenditures and financial assistance (including flood insurance) are prohibited within the CBRS. Since its inception in 1982, the CBRS has since been amended by several acts of Congress, including the Coastal Barrier Improvement Act of 1990 (P.L. 101-591). With minor exception, only Congress, through new legislation, can modify the boundaries of the CBRS. The U.S. Fish and Wildlife Service (FWS) is responsible for maintaining the official maps of the CBRS, and facilitating changes enacted by Congress. In cooperation with the Federal Emergency Management Agency, FWS digitized the CBRS boundaries from the official CBRS source maps for this area and adjusted them to "fit" the digital Flood Insurance Rate Map (FIRM). The process of "fitting" CBRS boundaries to the FIRM base map in some cases resulted in a slightly different configuration of the line as shown on the Congressionally-adopted source maps. The CBRS boundaries depicted on this FIRM are not the controlling CBRS boundaries adopted by Congress. The official CBRS maps used to determine whether or not an area is located within the CBRS are available for download at http://www.fws.gov. An official determination of whether or not an area is located within the CBRS can be obtained by contacting the FWS field office at the phone number shown on the body of the FIRM panel.	6000	Paper	[Latest CBRS date in S_CBRS]	publication date	FIS2	Location of Coastal Barrier Resources System Areas	S_CBRS

METAID	ORIGIN	PUBDATE	TITLE	GEOFORM	PUBPLACE	PUBLISH	OTHERCIT	SRCSCALE	TYPESRC	CALDATE	SRCCURR	SRCCITEA	SRCCONTR	Feature Class Use
	Federal Emergency Management Agency	[publication date]	Letters of Map Change	Document	Washington, D.C.	Federal Emergency Management Agency	Point locations of Letters of Map Amendment (LOMAs) and Letters of Map Revision based on Fill (LOMR-Fs).	12000	Paper	[publication date]	Effective date	LOMC1	Point locations of Letters of Map Amendment (LOMAs) and Letters of Map Revision based on Fill (LOMR-Fs).	S_MT1LOMCPt
	Federal Emergency Management Agency	[LOMR effective date]	Letter of Map Revision, [County name], NC, [Case No. 00-00-0000P]	Map	Washington, D.C.	Federal Emergency Management Agency	A Letter of Map Revision is a letter, usually accompanied by a map attachment that revises BFEs, flood hazard zones, floodplain boundaries and/or floodways shown on the FIRM.	[LOMR attachment scale]	Paper	[LOMR effective date]	Effective date	LOMC2	Spatial and attribute information for floodplain information, Base Flood Elevations, and cross sections	S_HYDRAMODEL where ISLOMR = 1 (True) S_APXSTR, S_CHANNEL, S_HWM, S_LEVEEPTS, S_PHOTO, S_STRUC, S_SURVEYGROUP, S_SXS, S_TBM, S_HYDROBASIN, S_HYDROGAGE, S_HYDROIMPERVIOUS, S_HYDROLANDUSE, S_HYDROLINK, S_HYDROMODEL, S_HYDRONODE, S_HYDROSOIL, S_HYDROTC, S_ALLUVIALFAN, S_FBS, S_FLD_HAZ_AR, S_FLD_HAZ_LN, S_FLOOD_PROBLEMS, S_HYDRABFE, S_HYDRACOSSSECTION, S_HYDRAFLOWPATH, S_HYDRAJUNC

METAID	ORIGIN	PUBDATE	TITLE	GEOFORM	PUBPLACE	PUBLISH	OTHERCIT	SRCSCALE	TYPESRC	CALDATE	SRCCURR	SRCCITEA	SRCCONTR	Feature Class Use
														TION, S_HYDRANVALUE, S_MODEL_GROUP, S_OVRBNKLN, S_REFPOINT, S_RIV_MRK, S_STREAMCNTRLINE, S_STREAMCNTRLNPT, S_ZONE_AR, S_CST_GAGE, S_CSTMODEL, S_CSTTSCTLN, S_LIMWA, S_PFD_LN, S_SHORE_LN, S_REVISIONS, S_WTR_AR, S_TSCTSURVPTS, S_WTR_NM
	North Carolina Floodplain Mapping Program	[publication date]	[County name], NC, Digital Flood Insurance Rate Map	Vector digital data	Raleigh, NC	North Carolina Floodplain Mapping Program	Grid of FIRM panels created for this Flood Insurance Study.	12000	CD-ROM	[publication date]	Effective date	STUDY1	Grid of FIRM panels.	S_FIRMPAN
	North Carolina Floodplain Mapping Program	[publication date]	[County name], NC, Digital Flood Insurance Rate Map	Vector digital data	Raleigh, NC	North Carolina Floodplain Mapping Program	Base map surface water features.	12000	CD-ROM	[publication date]	Effective date	STUDY2	Base map surface water features.	S_WTR_AR
	North Carolina Floodplain Mapping Program	[publication date]	Flood Insurance Study, [county name], NC	Vector digital data	Raleigh, NC	North Carolina Floodplain Mapping Program	This Flood Insurance Study was produced through a cooperative partnership between the State of North Carolina and FEMA. The North Carolina Floodplain Mapping Program, through FEMA's Cooperating Technical State (CTS) Initiative, is conducting flood hazard analyses and producing updated, digital FIRM panels for all North Carolina communities. A more detailed description of the areas studied and the engineering methods used can be found in sections 4.0 and 5.0 of the accompanying Flood Insurance Study report. Additional information regarding	6000	CD-ROM	[publication date]	Effective date	STUDY4	Spatial and attribute information for hydrologic, hydraulic, coastal, alluvial fan, and floodplain mapping study data.	S_APXSTR, S_CHANNEL, S_HWM, S_LEVEEPTS, S_PHOTO, S_STRUC, S_SURVEYGROUP, S_SXS, S_TBM, S_HYDROBASIN, S_HYDROGAGE, S_HYDROIMPERVIOUS,

METAID	ORIGIN	PUBDATE	TITLE	GEOFORM	PUBPLACE	PUBLISH	OTHERCIT	SRCSCALE	TYPESRC	CALDATE	SRCCURR	SRCCITEA	SRCCONTR	Feature Class Use
							the North Carolina Floodplain Mapping Program and the data collected during the mapping process are available at http://www.ncfloodmaps.com.							S_HYDROLANDUSE, S_HYDROLINK, S_HYDROMODEL, S_HYDRONODE, S_HYDROSOIL, S_HYDROTC, S_ALLUVIALFAN, S_FBS, S_FLD_HAZ_AR, S_FLD_HAZ_LN, S_FLOOD_PROBLEMS, S_HYDRABFE, S_HYDRACOSSSECTION, S_HYDRAFLOWPATH, S_HYDRAJUNCTION, S_HYDRAMODEL, S_HYDRANVALUE, S_MODEL_GROUP, S_OVRBNKLN, S_REFPOINT, S_RIV_MRK, S_STREAMCNTRLINE, S_STREAMCNTRLNPT, S_ZONE_AR, S_CST_GAGE, S_CSTMODEL, S_CSTTSCTLN, S_LIMWA, S_PFD_LN, S_REVISIONS, S_SHORE_LN, S_TSCTSURVPTS, S_WTR_AR, S_WTR_NM

METAID	ORIGIN	PUBDATE	TITLE	GEOFORM	PUBPLACE	PUBLISH	OTHERCIT	SRCSCALE	TYPESRC	CALDATE	SRCCURR	SRCCITEA	SRCCONTR	Feature Class Use
	North Carolina Floodplain Mapping Program	[publication date]	Discovery map data	Vector digital data	Raleigh, NC	North Carolina Floodplain Mapping Program	Stream centerlines and flood areas to be included in the project study scope.	12000	CD-ROM	[publication date]	publication date	REF10	Stream centerlines and flood areas to be included in the project study scope.	S_COMMUNITY_GROUP, S_DISCOVERY_MAP, S_FIN_STUDY_AR
	North Carolina Floodplain Mapping Program	[publication date or data collection date]	LiDAR collected terrain data	Remote sensing data	Raleigh, NC	North Carolina Floodplain Mapping Program	[Provide a brief description of the terrain data, including date of acquisition and other relevant information]	[Scale of elevation data]	CD-ROM	[publication date or data collection date]	[publication date or ground condition]	TOPO11	Terrain data are used for DEM generation; base data for hydrologic, hydraulic, and coastal models; and delineation or redelineation of flood hazard boundaries.	S_TERRAINGROUP

METADATA								
Primary Metadata Table; Links to MetaID and other feature classes in the database. This table is required for all DFIRM submittals.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
METAID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + COFIPS + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD).	Yes	Yes	
ORIGIN	Text	254			Originator of source data set.	Yes		
PUBDATE	Date/Time				Publication date of data set.	Yes		
TITLE	Text	254			Title of the data set this meta applies to - same as in Section 1, Metadata Identification Information, under the first Citation.	Yes		
GEOFORM	Text	254			Geospatial presentation form of source data set (map, remote sensing image, model, etc).	Yes		
PUBPLACE	Text	254			Publication place of data set.	Yes		
PUBLISH	Text	254			Publisher of data set.	Yes		
OTHERCIT	Text	4000			Other citation details. A description of the data set.	Yes		
SRCSCALE	Text	5			Source scale denominator.	Yes		D_SCALE
TYPESRC	Text	254			Type of source media (paper, CD-ROM, online, electronic mail, etc).	Yes		
CALDATE	Date/Time				Calendar date of source data set (YYYYMMDD).	Yes		
SRCCURR	Text	254			Source currentness reference. What the calendar date represents (ground condition, publication date, etc).	Yes		
SRCCITEA	Text	25			Source citation abbreviation.	Yes		

SRCCONTR	Text	254			Source contribution. Information contributed by the source to the data set.	Yes		
AUTHOR	Text	254			Author/Editor Used in FIS Report Bibliography and References Table.. This is the author or editor of the reference. Multiple authors may be listed in this field.	No		
WEBLINK	Text	128			Reference Web Address Used in FIS Report Bibliography and References Table. This is the web address for the reference, if applicable.	No		

COMMUNITY INFORMATION

L_ADDITIONAL_INFO								
A table used to house information used in the Additional Information table in the FIS Report. This table will be maintained by NCFMP and is not required for contractor submittals.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
ADDTINFOID	Text	25			Primary key defined by the NCFMP.	Yes	Yes	
ORGNZATION	Text	254			Organization name (e.g.; FEMA and the NFIP, Other Federal Agencies, State Agencies and Organizations, etc.)	No		
DESCRIPT	Text	254			Description of the information being provided (e.g.; USGS website, FEMA website, etc.)	No		
INFRMATION	Text	254			Website links.	No		

L_CBRS_COMMGRP								
The L_CBRS_COMMGRP table relates community information submittals (S_COMMUNITY_GROUP) to S_CBRS data maintained by the NCFMP. This table is required for contractor data submittals where applicable.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
CBRSCOMMID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD).[1]	Yes	Yes	
CBRS_ID	Text	25			Foreign key link to S_CBRS.	Yes		
COMMGRPID	Text	25			Foreign key link to S_COMMUNITY_GROUP.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_COMM_MDL_GROUPS								
The L_COMM_MDL_GROUPS table relates community information submittals (S_COMMUNITY_GROUP) to modeling submittals (S_MODEL_GROUP). This table is required for all contractor data submittals.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
COMDLGRPID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
COMMGRPID	Text	25			Foreign key to S_COMMUNITY_GROUP.	Yes		
MDL_GRP_ID	Text	25			Foreign key to S_MODEL_GROUP.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_COMMUNITIES_STUDIED								
A lookup table that contains community details and map history information that is shown on the Flood Insurance Rate Map (FIRM) legend or index. This table is required for all DFIRM submittals.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
COM_STD_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
COMMGRPID	Text	25			Foreign key to S_COMMUNITY_GROUP.	Yes		
CID	Text	6			Community Identification Number. This is the six-digit community identification number assigned by FEMA.	Yes		D_CID
REVISIONS	Integer				Revisions. This indicates if the community contains map revisions. 0 = False, 1 = True.	Yes		
FIS_INCLUD	Integer				Community Included in This FIS. This value indicates if the community is included in this FIS report. If the FIS is included, this field is True. 0 = False, 1 = True.	Yes		
ANI_TF	Integer				Area Not Included. This field contains information about the geographical area to determine whether or not it is included in the FIRM. 0 = False, 1 = True.	Yes		

ANI_FIRM	Text	6			Used for Area Not Included where ANI_TF equals “T” and where the data is included in another FIRM Database, usually because it is a multicounty community. Enter the DFIRM_ID of the FIRM Database that contains the SFHA data of the ANI community. For a single-jurisdiction flood risk project, the value is composed of the 2-digit state FIPS code and the 4-digit FEMA CID code (e.g., 480001). For a countywide flood risk project, the value is composed of the 2-digit state FIPS code, the 3-digit county FIPS code, and the letter “C” (e.g.,48107C). Populate with “NP” if the area has never been converted to a FIRM Database from paper FIRM format.	No		
ZIPNAME	Text	254			Filename/filepath to the community documentation such as the Preliminary Issuance Letters and Panels; Appeal and Protest ACK, AD and RES letters; Preliminary and Final SOMA Letters; Revalidation Letters and Final LFD Letters. A single zip file containing all of these data for each community affected by the study should be submitted in FILE_L_COMMUNITIES_STUDIED.	No		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_COMMUNITY_INFO								
A lookup table that contains community map repository details and map history information that is shown on the Flood Insurance Rate Map (FIRM) legend or index. This table will be maintained by NCFMP and is not required for contractor submittals.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
CID	Text	6			Primary key. Community Identification Number. This is the six-digit community number assigned by FEMA. It is created by combining the State FIPS code with the COMM_NO. If the jurisdiction does not have a community number assigned by FEMA, the CID is created by combining the State FIPS code with the abbreviation contained in the COMM_NO field (FED, ST, or OTHR).	Yes	Yes	
REPOS_CITY	Text	50			Map Repository City.	Yes		
REPOS_ST	Text	5			Map Repository State.	Yes		D_STATE_NAME
REPOS_ZIP	Text	9			Map Repository Zip Code.	Yes		
IN_ID_DAT	Date/Time				Initial identification date.	Yes		
IN_NFIP_DT	Date/Time				Initial NFIP date.	Yes		
IN_FRM_DAT	Date/Time				Initial FIRM date.	Yes		
REPOS_ADR1	Text	50			Map Repository Address 1.	Yes		
REPOS_ADR2	Text	50			Map Repository Address 2.	No		
REPOS_ADR3	Text	50			Map Repository Address 3.	No		
IN_FHBM_DT	Date/Time				Initial FHBM Date. This is the initial date of first Flood Hazard Boundary Map published for this community.	Yes		

FST_CW_EFF	Date/Time				Initial Countywide Effective Date. This is the effective date of the first countywide FIRM for this community. This date will be displayed on the FIRM panel under the heading EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP.	Yes		
FST_CW_FIS	Date/Time				Initial Countywide Effective Flood Insurance Study Date. This is the effective date of the first countywide FIS for this community. This date will generally be the same as the first countywide FIRM for this community, except in circumstances where a FIS was not published with the first countywide FIRM.	Yes		
PREREV_DAT	Date/Time				Preliminary FIRM revision date.	No		
EFFREV_DAT	Date/Time				Effective FIRM revision date.	No		
PREFIS_DAT	Date/Time				FIS Report Preliminary Date.	Yes		
EFFFIS_DAT	Date/Time				FIS Report Effective Date. This is the effective date of current FIS report.	Yes		
MULTICO_TF	Integer				Multi-county community. This attribute would be True if the community is in more than one county. 0 = False, 1 = True.	Yes		
FLOODPRONE	Integer				Floodprone. This attribute stores information about the floodprone status of the community. Enter True if the community is floodprone. 0 = False, 1 = True.	Yes		
CEO_POC	Text	25			Chief executive officer point of contact, foreign key to L_CONTACT_INFO.	No		

FPA_POC	Text	25			Floodplain administrator point of contact, foreign key to L_CONTACT_INFO.	No		
COM_POC	Text	25			Community point of contact, foreign key to L_CONTACT_INFO.	No		
SHMO_POC	Text	25			State Hazard Mitigation Officer point of contact, foreign key to L_CONTACT_INFO.	No		
GIS_POC	Text	25			Geographic Information Systems point of contact, foreign key to L_CONTACT_INFO.	No		
INS_POLICY	Integer				Number of Insurance Policies within the jurisdiction.	No		
INS_COVER	Numeric	14	2		Total coverage dollar amount within the jurisdiction.	No		
TOTPAY1978	Numeric	14	2		Total payout since 1978.	No		

L_CONTACT_INFO								
The L_CONTACT_INFO table is completed to capture information regarding points of contact that are referenced in the FIS report. This table will be maintained by NCFMP and is not required for contractor submittals.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
CONTACT_ID	Text	25			Primary key defined by the NCFMP.	Yes	Yes	
TITLE	Text	50			Title of contact.	No		
AGENCY	Text	50			Agency for which the contact represents.	Yes		
AGENCYROLE	Text	50			Agency role.	No		
FNAME	Text	50			First name of contact.	No		
MNAME	Text	50			Middle name of contact.	No		
LNAME	Text	50			Last name of contact.	No		
STREET1	Text	30			Primary street address.	No		
STREET2	Text	30			Secondary street address.	No		
CITY	Text	25			City.	No		
STATE	Text	5			State.	No		D_STATE_NAME
ZIP	Text	10			Zipcode.	No		
ZIPSUFF	Text	5			Zipcode suffix.	No		
PHONE	Text	10			Phone number.	No		
PHONE_EXT	Text	6			Phone number extension.	No		
EMAIL	Text	50			Contact's email address.	No		
CHKBY	Text	3			Information checked by.	No		
CHKDT	Date/Time				Information checked date.	No		

L_DATUM_COMMGRP								
The L_DATUM_COMMGRP table relates community information submittals (S_COMMUNITY_GROUP) to the S_DATUM_CONV_PT feature class maintained by the NCFMP. This table is required for contractor data submittals where applicable.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
DATMCOMMID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
DATCONPTID	Text	25			Foreign key link to S_DATUM_CONV_PT.	Yes		
COMMGRPID	Text	25			Foreign key to S_COMMUNITY_GROUP.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_FIRM_CID								
The L_FIRM_CID table relates FIRM panels to their intersecting Community Identification Numbers (CID). This table will be maintained by NCFMP and is not required for contractor submittals.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
FIRMCID_ID	Text	25			Primary key defined by the NCFMP.	Yes	Yes	
FIRM_ID	Text	25			FIRM panel identification number.	Yes		
CID	Text	6			Community Identification Number. This is the six-digit community identification number assigned by FEMA.	Yes		D_CID

L_FIS_PUBLICATION_DATES								
The L_FIS_PUBLICATION_DATES table catalogs publication dates for the Countywide FIS Report starting with the initial FIS Report accompanying the North Carolina Statewide FIRM. This table populates portions of the Notice to Flood Insurance Study Users section of the FIS. This table will be maintained by NCFMP and is not required for contractor submittals.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
FISPUBID	Text	25			Primary key defined by the NCFMP.	Yes	Yes	
PUBDATE	Date/Time				Publication date. This is used to populate the NOTICE TO FLOOD INSURANCE STUDY USERS section of the FIS.	Yes		
REASON	Text	254			Publication reason. This is used to populate the NOTICE TO FLOOD INSURANCE STUDY USERS section of the FIS.	Yes		
CO_FIPS	Text	5			County FIPS Code. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS

L_HISTORICAL_STORMS								
A lookup table listing all relevant historical storms for a study area. Used in FIS production. This table will be maintained by NCFMP and is not required for contractor submittals.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
HISTORMID	Text	25			Primary key defined by the NCFMP.	Yes	Yes	
STORM_NAME	Text	254			Storm name.	Yes		
STORM_DATE	Date/Time				Landfall date of historical storm. This is used to populate the storm date in the Historic Flood Elevations section of the FIS.	Yes		
DESCRIPT	Text	4000			Historical storm description. This is used to populate the storm description in the Historic Flood Elevations section of the FIS.	Yes		

L_HISTSTORM_COFIPS								
The L_HISTSTORM_COFIPS table relates historical storms to the county/counties that they impacted. The L_HISTSTORM_CID table is maintained by the NCFMP.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
HSTRMCFPID	Text	25			Primary key defined by the NCFMP.	Yes	Yes	
CO_FIPS	Text	5			County FIPS Code. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
HISTORMID	Text	25			Foreign key link to L_HISTORICAL_STORM.	Yes		
CO_IMPACT	Text	4000			Description of the impact that the storm had on the county.	No		

L_MEETINGS								
The L_MEETINGS table is completed to capture information regarding meetings that are referenced in the FIS report. This information is used in the FIS Report Consultation Coordination Officer's Meetings table, Scoping Meetings table, and Preliminary and Public Participation Meetings table.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
MTG_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
COM_STD_ID	Text	25			Foreign key to L_COMMUNITIES_STUDIED.	Yes		
MTG_TYP	Text	5			Meeting type.	Yes		D_MTG_TYP
MTG_DATE	Date/Time				Meeting date.	Yes		
MTG_LOC	Text	100			Meeting location.	Yes		
ATTENDEDBY	Text	100			Summary of attendees, e.g. "Representatives of Bald Head Island and FEMA".	Yes		
FORFISDATE	Date/Time				FIS effective date in which the meeting was based.	Yes		
RIVERBASIN	Text	5			Major river basin.	Yes		D_RIVERBASIN
MTG_PURP	Text	100			Meeting purpose.	Yes		
MTG_POC	Text	25			Foreign key to L_CONTACT_INFO.	No		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_MT1LOMC								
A look-up table used to reference the LOMCs that have occurred on a panel. This table is required if there are any Letters of Map Change within the county. S_MT1LOMCPT, L_MT1LOMC and FILE_L_MT1LOMC data must be populated for LOMCs that have been geocoded for the NCFMP.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
LOMC_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
REVIS_ID	Text	25			Foreign key to L_PAN_REVIS.	Yes		
CASE_NO	Text	12			Letter of Map Change case number.	Yes		
EFF_DATE	Date/Time				Effective date of LOMC.	Yes		
FIRM_PAN	Text	11			Map number the LOMC falls on.	Yes		
LOMC_STAT	Text	5			Status of LOMC - Revalidated, Superseded, or Incorporated.	Yes		D_STATUS
ZIPNAME	Text	254			Filename/filepath to supporting documentation. LOMR Worksheets need to be copied to FILE_L_MT1LOMC and referenced here in L_MT1LOMC. LOMR Worksheets need to be submitted at H&H and included in the FLOOD geodatabase submittal.	No		
LLE	Numeric	10	2		Lowest Lot Elevation.	No		
LAG	Numeric	10	2		Lowest Adjacent Grade.	No		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_NATMETRICS_INFO								
This table contains the mileage that will meet the Floodplain Boundary Standard and will be either New, Validated, or Updated (NVUE). This information will be used as the basis for projecting and reporting progress towards the national metrics. This data must be obtained from the CNMS database after it is updated as a result of the Discovery meeting. This table will be maintained by NCFMP and is not required for contractor submittals.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
NATMET_ID	Text	25			Primary key defined by the NCFMP.	Yes	Yes	
COMMGRPID	Text	25			Foreign key to S_COMMUNITY_GROUP.	Yes		
FBS_MI	Text	5			Estimated number of stream miles that will meet Floodplain Boundary Standard for the new FIS.	Yes		
NVUE_MI	Text	5			Estimated number of stream miles that will meet NVUE requirements for the new FIS.	Yes		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
FIS_AREA	Text	5			Area (in square miles) being mapped with new FIS.	Yes		
AREA_LID	Text	5			Units of area measure.	Yes		D_AREA_UNITS
TMAPPED_MI	Text	5			Total number of stream miles that will be mapped in the new FIS.	Yes		
POPULATION	Text	10			Population being mapped in the new FIS.	Yes		

L_NFIP_STATUS								
L_NFIP_STATUS is a table to track the participating status of NFIP communities. This table is maintained by NCFMP and is not required for contractor submittals.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
NFIPSTATID	Text	25			Primary key defined by the NCFMP.	Yes	Yes	
CID	Text	6			Foreign key to S_POL_AR.	Yes		
NFIP_YN	Integer				Is this community a part of the National Flood Insurance Program? 0 = False, 1 = True.	Yes		
STATUSDATE	Date/Time				Date of NFIP status change.	Yes		
COMMENTS	Text	254			Comments.	No		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_PAN_REVIS								
A table used to track map panel updates. This table is required for all DFIRM submittals.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
REVIS_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
COMMGRPID	Text	25			Foreign key link to S_COMMUNITY_GROUP.	Yes		
FIRM_ID	Text	25			Foreign key link to S_FIRM_PAN.	Yes		
GRDFIRMNM	Text	50			Graphic DFIRM image name (pdf).	Yes		
STATUS	Text	5			Flags whether map is preliminary or effective.	Yes		D_STATUS
STATUSDATE	Date/Time				Date of status.	Yes		
BASEIMGNM	Text	50			File name of mosaiced FIRM panel base image.	Yes		
SUFFIX	Text	1			FIRM panel number suffix. Should start with J, then increment by one letter for each new FIRM edition, 11th digital element of FIRM ID.	Yes		
FIRM_PAN	Text	11			11-digit map number.	Yes		
PANEL_LID	Text	5			FIRM panel type. Identifies whether panel is printed.	Yes		D_PANEL_TYP
PNP_REASON	Text	5			Reason FIRM Panel is not printed.	No		D_PNP
BASE_TYP	Text	5			Base map type. The type of base map used for the FIRM panel shall be recorded in this field. Acceptable values for this field are listed in the D_BASEMAP_TYP table.	Yes		D_BASEMAP_TYP
UPDATED_TF	Integer				Will this panel be updated as a result of Discovery meeting? 0 = False, 1 = True.	Yes		
REVIS_DATE	Date/Time				Historic FIRM revision date.	No		

REVIS_NOTE	Text	254			Reason for FIRM revision.	No		
ARCHIVEDATE	Date/Time				Date that this version was moved offline to archive.	No		
ARCHIVENAME	Text	50			Name of zip file containing archived data.	No		
MEDIAID	Text	50			Optional media identifier if data stored offline.	No		
MEDIALOC	Text	100			Optional location description of where media is stored.	No		
COMMENTS	Text	254			General comments or notes.	No		
ELEVDATNM	Text	50			Filename of elevation data.	No		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_PLSS_COMMGRP								
The L_PLSS_COMMGRP table relates community information submittals (S_COMMUNITY_GROUP) to the S_PLSS_AR feature class maintained by the NCFMP. This table is required for contractor data submittals where applicable.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
PLSSCOMID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
PLSS_AR_ID	Text	25			Foreign key link to S_PLSS_AR.	Yes		
COMMGRPID	Text	25			Foreign key link to S_COMMUNITY_GROUP.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_PLSS_COMMGRP								
The L_PLSS_COMMGRP table relates community information submittals (S_COMMUNITY_GROUP) to the S_PLSS_AR feature class maintained by the NCFMP. This table is required for contractor data submittals where applicable.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
PLSSCOMID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
PLSS_AR_ID	Text	25			Foreign key link to S_PLSS_AR.	Yes		
COMMGRPID	Text	25			Foreign key link to S_COMMUNITY_GROUP.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_POL_FHBM								
This table will not apply if all communities on the FIRM never had revisions to their Flood Hazard Boundary Maps (FHBMs). Otherwise, this table is required for all FIRM Databases. The L_POL_FHBM table is a lookup table that contains a list of communities and FHBM revisions. Each community may have different revision dates. Each revision date may have multiple revision notes. This table will be maintained by NCFMP and is not required for contractor submittals.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
FHBM_ID	Text	25			Primary key defined by the NCFMP.	Yes	Yes	
CID	Text	6			Foreign key link to L_COMMUNITY_INFO.	Yes		D_CID
FHBM_DATE	Date/Time				Effective Date of Flood Hazard Boundary Map. This field is used to populate the FIS Report Community Map History table.	Yes		
FHBM_NOTE	Text	254			Flood Hazard Boundary Map Notes. A list of standard revision notes appears in FEMA's Appendix K Guidelines.	Yes		

L_RASTER_MAPPING								
A lookup table linking raster mapping outputs to submittals. Since numerous S_HYDRAMODEL raster mapping outputs will likely be merged into one countywide submittal, this is linked to the actual submittal itself. This is required for all projects.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
RASTER_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
COMMGRPID	Text	25			Foreign key link to S_COMMUNITY_GROUP.	Yes		
EVENTID	Text	25			Foreign key to L_EVENT.	Yes		
RASTER_TYP	Text	5			Type of raster.	Yes		D_RISKRASTER
RASTERNAME	Text	254			File name of the raster.	Yes		
DESCRIPT	Text	254			Raster description.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_STREAM_NAME_CHANGES								
Table used to catalog stream name changes that occur within a FIS. This table will be maintained by NCFMP and is not required for contractor submittals.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
STRNMCHGID	Text	25			Primary key. Defined by the NCFMP.	Yes	Yes	
OLDNAME	Text	254			Old stream name.	Yes		
NEWNAME	Text	25			New name via WTR_NM_LID (foreign key to S_WTR_NM).	Yes		
CHANGEDATE	Date/Time				Date of name change.	Yes		

L_TSDN_DOCUMENTS								
A table that links Technical Support Data Notebook (TSDN) documents such as Contact Reports Index, Contact Reports, General Correspondence Index, General Correspondence, Meeting Minutes Index, Meeting Minutes, Sealed Certification, Transmittal, Key to Cross Section Labeling, Hydraulic Analysis Index. This table is required.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
TSDNDOCID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
COMMGRPID	Text	25			Foreign key link to S_COMMUNITY_GROUP.	Yes		
DOC_TYP	Text	5			Document type. Type of document being stored. Most documents correspond directly to a specific domain code listed in D_DOCUMENT_TYP. For documents that don't correspond to a specific code they should be coded as 1110 - ADDITIONAL REPORTS. For example, the TSDN Checklist should be coded as 1110.	Yes		D_DOCUMENT_TYP
DOCNAME	Text	254			Name of document. May include hard file path.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_BASE_INDEX

The S_BASE_INDEX table contains information about the raster data used as a base map for the flood risk project area. This table is required if a raster base map was used as the base map for the FIRM. The spatial elements representing raster base map tile index features are rectangular polygons. For standard U.S. Geological Survey Digital Ortho Quadrangles, polygons must match quarter-quad boundaries. Otherwise, polygons must match the boundaries of the raster tiles used. Polygonal overlap is acceptable where necessary. S_BASE_INDEX is required on both tiled rasters and raster mosaics. This feature class will be maintained by NCFMP and is not required for contractor submittals.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
IMGSRCID	Text	25			Primary key defined by the NCFMP.	Yes	Yes	
IMGSRCNAME	Text	50			The descriptive name of the image source.	Yes		
IMGDT	Date/Time				Date image relates to the ground (ground conditions).	Yes		
IMGRES	Long				Panel image pixel resolution - 1m, 2ft, etc.	Yes		
IMGTY	Text	5			Image type (black and white, color infrared etc.).	Yes		D_IMGTY
IMGRESUN	Text	5			Image resolution units of measure.	Yes		D_LENGTH_UNITS
RESTRICTED	Integer				Is this image group restricted from downloading? 0 = False, 1 = True.	Yes		
FILENM	Text	254			File name of image.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

S_BENCHMARK								
A point feature class that contains information about Bench Marks. This feature class is required when Bench Marks are within the study area. This feature class is not required for NCFMP submittals.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
BM_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
COMMGRPID	Text	25			Foreign key link to S_COMMUNITY_GROUP.	Yes		
PID	Text	11			Permanent Identifier. This should be the NGS assigned or community assigned permanent identifier.	Yes		
AGENCY	Text	5			Agency responsible for maintenance of bench mark - NGS, NCGS, etc.	Yes		D_BMAGEN
SYSINDT	Date/Time				Date the benchmark was input into the database, helps track currency.	Yes		
NAME	Text	25			Name associated with bench mark.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_CBRS								
A polygon feature class that contains information about the Coastal Barrier Resources Systems (CBRS) and Otherwise Protected (OPA) areas within the study area, if applicable. This feature class will be maintained by NCFMP and is not required for contractor submittals.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
CBRS_ID	Text	25			Primary key. Defined by the NCFMP.	Yes	Yes	
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
CBRS_LID	Text	5			CBRS Lookup Identification.	Yes		D_CBRS_TYP
CBRS_TF	Integer				This field is True if the area is a CBRS and False for an OPA. 0 = False, 1 = True.	Yes		
CBRS_DATE	Text	10			CBRS Date. Legislative or administrative date on which prohibitions for the CBRS area apply.	Yes		D_CBRSDT
METAID	Text	25			Foreign key to METADATA.	Yes		

S_COMMUNITY_GROUP								
A feature class holding essential information about the FEMA Case, datums, projections, spatial extent, location of metadata and study-related zip files as they relate to community based distribution of data. S_COMMUNITY_GROUP should consist of a polygon that is drawn to encompass all community/county related data. Multi-county communites should be reflected in the geometry of S_COMMUNITY_GROUP if the community is indicated as being included in the FIS via the FIS_INCLUD = 1 (TRUE) in the L_COMMUNITIES_STUDIED table. The geometry represented by S_COMMUNITY_GROUP must adhere to the latest S_POL_AR feature class. This table is required for all contractor submittals.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
COMMGRPID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
CASE_NO	Text	12			FEMA Case Number for study.	Yes		
CASE_DESC	Text	254			Description of the study. Indicate whether this is the Preliminary Study with Funding Year e.g. "Alamance County Preliminary Study FY08" or whether it is a LOMR submittal e.g. "Alamance County LOMR Case No: "06-04-BY00P". This field is used to indicate the community group extent for the preliminary study for export of deliverables to FEMA through the FLOOD to FEMA Export Tool.	Yes		
H_DATUM	Text	5			Horizontal datum.	Yes		D_HDATUM
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
PROJECTION	Text	5			Map projection.	Yes		D_PROJECTION
PROJ_ZONE	Text	10			Projection zone (e.g.; 3200).	No		
META_NM	Text	50			METADATA file name.	Yes		

STUDY_ZIP	Text	254			File name of the zipped file that contains the FIS report or auxiliary data that is relevant to the entire study.	No		
CNTRACTDBY	Text	50			Study contract initiator (e.g.; FEMA, NCFMP). This is used to populate the Study Contracted By field in the FIS Authority and Acknowledgments table.	Yes		
SUBMIT_BY	Text	5			Company name of Mapping Partner who is submitting this dataset. This is used to populate the Data Source in the FIS Authority and Acknowledgments table.	Yes		D_CONTRACTOR
SUBMIT_CON	Text	100			Contact person for this submittal.	Yes		
SUBMIT_PHO	Text	15			Phone number of Mapping Partner.	Yes		
SUBMIT_DT	Date/Time				Date of submittal.	Yes		
RESTRICTED	Integer				Some data in this submittal can't be distributed freely. See the METADATA file. 0 = False, 1 = True.	Yes		
COINDXNM	Text	100			County index file name (pdf file).	Yes		
FISREPORTNM	Text	100			FIS report File Name. This attribute stores the name of the FIS report file. If there are multiple FIS report volumes, enter the first volume. The file should be named <FIPS><VolumeNumber>.PDF; where <VolumeNumber> has four digits: V000 for the first FIS report volume. This field is used to populate the Flood Insurance Study Number on the cover of the FIS.	Yes		
PROJ_UNIT	Text	5			Projection unit.	Yes		D_PROJ_UNIT

PROJ_SECND	Text	5			Secondary projection.	No		D_PROJECTION
PROJ_SUNIT	Text	5			Secondary projection unit.	No		D_PROJ_UNIT
CONTRACT_NO	Text	50			Contract number. This is used to populate the Contract or IAA Number field in the FIS Authority and Acknowledgments table.	Yes		
FIS_TITLE	Text	254			FIS Cover Study Name (i.e. 'Any County, North Carolina and Incorporated Areas').	Yes		
CO_FIPS	Text	5			County FIPS Code. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
STUDY_PRE	Text	5			Study prefix ("City of," "Town of," etc.). For county-wide maps or maps of the unincorporated portions of a county, this field is NULL.	No		D_MUNNMTY
STUDY_NM	Text	50			Study name.	Yes		
STATE_NM	Text	5			State name.	Yes		D_STATE_NAME
CNTY_NM	Text	5			County name.	Yes		D_CONM
JURIS_TYP	Text	5			Political jurisdiction type.	Yes		D_JURISDICTION_TYP
LG_PAN_NO	Text	4			Largest panel number.	Yes		
OPP_TF	Integer				Only panel printed? 0 = False, 1 = True.	Yes		
CW_TF	Integer				Countywide? 0 = False, 1 = True.	Yes		
SW_TF	Integer				Statewide? 0 = False, 1 = True.	Yes		
CBRS_PHONE	Text	15			Coastal Barrier Resources System (CBRS) Phone number.	Yes		
CBRS_REG	Text	2			CBRS Coordinator's region.	Yes		

LANDWD_VAL	Double	10	2		Landward Value of Coastal Base Flood Elevations shown on the FIRM Notes to Users figure in the FIS Report. This is usually but not always 0.0 feet,and the FIS Report would state "Coastal Base Flood Elevations shown on the map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88)."	Yes		
LOGO_NM	Text	50			Logo File Name. This attribute stores the file name of the logo used on the map panels, i.e. DHS or FEMA logo.	Yes		
COMM_CHAR	Text	4000			Community characteristics. This is used to populate the Area Studied section of the FIS.	Yes		
FBS_DOC	Text	254			Filepath to 1% annual chance flood boundary standards check document.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_COUNTY_AR								
A polygon feature class representing the area of each county. This feature class is maintained by NCFMP and not required for contractor submittals.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
COARID	Text	25			Primary key defined by the NCFMP.	Yes	Yes	
CONM	Text	50			Name of the county.	Yes		
CO_FIPS	Text	5			County FIPS Code. This is the three-digit county Federal Information Processing Standard (FIPS) code.	Yes		
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		
CGIACOABBR	Text	11			CGIA two letter county abbreviation.	Yes		D_CONM
METAID	Text	5			Foreign key to METADATA.	Yes		

S_CSLF_AR								
Changes Since Last FIRM polygons depicting areas of change between new and previous flood hazards.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
CSLF_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
COMMGRPID	Text	25			Foreign key link to S_COMMUNITY_GROUP.	Yes		
CNMS_ID	Text	12			CNMS Identifier. Foreign Key to S_Studies_Ln feature class in the CNMS Database. This identifier is composed of the 5-digit county FIPS code, '02' indicating the S_Studies_Ln feature class, and a 5-digit unique sequential number.	Yes		
OLD_ZONE	Text	5			Previous Flood Zone Designation. This is the flood zone designation from the previous, effective FIRM.	Yes		D_ZONE
OLD_ZONEST	Text	5			Previous Flood Zone Subtype Designation. This is the designation from the previous, effective FIRM.	Yes		D_ZONE_SUBTYPE
OLDHYDRAID	Text	25			Previous foreign key to S_HYDRAMODEL table.	No		
OLDCSTLID	Text	25			Previous foreign key to S_CSTMODEL table.	No		
OLD_TOPO	Text	5			Topographic Type used for previous delineation.	No		D_TOPO_TYP
OLD_METAID	Text	25			Previous foreign key to METADATA table.	No		

NEW_ZONE	Text	5			New Flood Zone Designation. This is the flood zone designation from the current project.	Yes		D_ZONE
NEW_ZONEST	Text	5			New Flood Zone SubType Designation. This is the flood zone designation from the current project.	Yes		D_ZONE_SUBTYPE
NEWHYDRAID	Text	25			New foreign key to S_HYDRAMODEL table.	Yes		
NEWCSTLID	Text	25			New foreign key to S_CSTMODEL table.	Yes		
NEW_TOPO	Text	5			Topographic Type used for new delineation.	Yes		D_TOPO_TYP
NEW_METAID	Text	50			New foreign key to METADATA table.	Yes		
SFHACHG	Text	5			SFHA Change. The type of SFHA change for each CSLF polygon based upon previous and new flood zones (i.e., does this polygon indicate an Increase/Decrease/Zero change in the SFHA).	No		D_CHANGE
FLDWYCHG	Text	5			Floodway Change. The type of floodway change for each CSLF polygon based upon previous and new flood zones (i.e., does this polygon indicate an Increase/Decrease/Zero change in the floodway area).	No		D_CHANGE
NONSFHACHG	Text	5			Non-SFHA Change. The type of non-SFHA change for each CSLF polygon based upon previous and new flood zones (i.e., does this polygon indicate an Increase/Decrease/Zero change in the non-SFHA area).	No		D_CHANGE

CHHACHG	Text	5			Increase or decreases in the SFHA in coastal communities that have been newly added into, or removed from, the coastal high hazard areas (VE or V Zones). This field is not meant to capture changes in V zone elevations (e.g. VE10 to VE12, VE9 to VE8, etc.).	No		D_CHANGE
STRUCTURES	Long				The estimated count of affected structures within the area of change. This is an enhanced field.	No		
POPULATION	Numeric		10	2	The estimated affected population within the area of change. This is an enhanced field.	No		
CID	Text	6			Community Identification Number. This is the six-digit community identification number assigned by FEMA.	Yes		D_CID
HUC8_CODE	Text	8			WBD 8-digit Hydrologic Unit Code for the sub-basin in which the CSLF polygon feature lies. If a feature crosses a HUC-8 boundary, the field shall be populated with the HUC-8 value in which the majority of the feature lies.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

S_DATUM_CONV_PT

The S_DATUM_CONV_PT table is required when a vertical datum conversion was performed as part of the study. The spatial elements representing this layer are points. This table must be populated whether a countywide /community-based or stream-by-stream based datum conversion factor is required. There cannot be a mixture of countywide/community-based and stream-by-stream conversion factors within a single submittal. Appendix B of FEMA's Guidelines and Standards should be referenced to determine which type of factor must be calculated. This information is needed for the Countywide Vertical Datum Conversion and Stream-by-Stream Vertical Datum Conversion tables in the FIS report. This feature class will be maintained by NCFMP and is not required for contractor submittals as these points were derived at a statewide level.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
DATCONPTID	Text	25			Primary key defined by the NCFMP.	Yes	Yes	
QUAD_NM	Text	50			Quad Name. Provides the name for the U.S. Geological Survey (USGS) 7.5-minute series topographic quadrangle map. For example “Red Rock.”	Yes		
QUAD_COR	Text	4			Quad Corner. Describes one of four quad corners (e.g. NW, SW, NE, and SE). Acceptable values for this field are listed in the D_QUADRANT table.	Yes		D_QUADRANT
FROM_DATUM	Text	5			The original vertical datum being converted. Acceptable values for this field are listed in the D_V_DATUM table.	Yes		D_V_DATUM
TO_DATUM	Text	5			The new vertical datum that is being converted to. Acceptable values for this field are listed in the D_V_DATUM table.	Yes		D_V_DATUM
ISCOMBASED	Integer				Is COUNTYWIDE/COMMUNITY-BASED? 0 = False, 1 = True.	Yes		
WTR_NM_LID	Text	25			If stream specific, the water name lookup identification number from S_WTR_NM that the shift applies to.	No		

CONVFACTOR	Numeric		10	2	Conversion Factor at this specific point, not the average of all points. References vertical datum conversion factor used in observing surface elevations in different datums. The two most common standard vertical datums in use nationwide are the National Geodetic Vertical Datum (NGVD) of 1929 and the North American Vertical Datum (NAVD) of 1988. NGVD 29 to NAVD 88 conversion values range from roughly negative one foot or more on the east coast to more than negative four feet on the west coast.	Yes		
LEN_LID	Text	5			Length Units. This unit indicates the measurement system used for vertical datum conversion factor height. Normally this would be feet. Acceptable values for this field are listed in the D_LENGTH_UNITS table.	Yes		D_LENGTH_UNITS
METAID	Text	25			Foreign key to METADATA.	Yes		

S_DISCOVERY_MAP								
This spatial file contains each stream segment and/or coastline contained within the FIRM database, National Hydrography Dataset (NHD) 100k coverage, or best available streamline data for flood sources included in the scope of work for the flood map project update. This file should provide an inventory of stream mileage for the project area by effective and proposed zone and flood risk project type. This will be shown on the final discovery map. The spatial entity for this layer is a line. This table will be maintained by NCFMP and is not required for contractor submittals. This table is required for non-NCFMP counties.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
DISCMAP_ID	Text	25			Primary key defined by unique numbers.	Yes	Yes	
COUNTY	Text	5			County Name.	Yes		D_CONM
COMMUNITY	Text	100			Community Name.	Yes		
STATE	Text	5			State Name. Acceptable values for this field are listed in the D_STATE_NAME table.	Yes		D_STATE_NAME
CID	Text	6			Foreign key link to L_COMMUNITY_INFO.	Yes		D_CID
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State FIPS code. This is a standard numbering system that is used by the Federal government. Defined in FIPS Pub 6-4, these two numbers correspond to the first two digits of the panel number. Acceptable values for this field are listed in the D_STATE_FIPS table.	Yes		D_STATE_FIPS
EFZONE	Text	5			From effective flood risk project. Acceptable values for this field are listed in the D_ZONE table.	Yes		D_ZONE
EST_TYP	Text	5			Effective Study Type. Acceptable values for this field are listed in the D_STUDY_TYP table.	Yes		D_STUDY_TYP
FLTYPE	Text	5			Flooding type.	Yes		D_FLOOD_TYP

WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
STREAM_LEN	Numeric		10	2	Length of stream associated with a flood risk project in feet.	Yes		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
FBS_TF	Integer				Are stream segments anticipated to meet Floodplain Boundary Standard (FBS)? 0 = False, 1 = True.	Yes		
RANKING	Text	5			Ranking based on local/regional input.	No		
FST_TYP	Text	5			Final Study Type. Acceptable values for this field are listed in the D_STUDY_TYP table.	Yes		D_STUDY_TYP
METAID	Text	25			Foreign key to METADATA.	Yes		

S_DISCREPANCIES								
The S_DISCREPANCIES polygon feature class is used to track data discrepancies caught during the D2E back population effort between the published regulatory effective data and data captured from the NCFMP E&I and DFIRM databases. This feature class is required for all data submitted during the D2E back population effort.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
DISCREPID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD).	Yes	Yes	
SUBSHED	Text	5			E&I subbasin name from back population effort.	Yes		D_SUBBASIN
DB_SECTION	Text	5			Section of the database from which the discepancy is associated.	Yes		D_DBSECTION
REG_YN	Integer				Is the discrepancy related to a regulatory data item? 0 = False, 1 = True.	Yes		
DESCRIPTION	Text	4000			Description of the discrepancy.	Yes		
COUNTY	Text	5			County in which the discrepancy falls.	Yes		D_COFIPS

S_FBS								
A point feature class that contains information about 1% annual chance floodplain boundary standards. This feature class is required if there are flood hazards present within the study area.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
FBS_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
COMMGRPID	Text	25			Foreign key link to S_COMMUNITY_GROUP.	Yes		
GROUND_EL	Numeric		10	2	Ground elevation.	Yes		
WSEL	Numeric		10	2	1% annual chance water surface elevation.	Yes		
DIFF	Numeric		10	2	Difference between the ground elevation and the 1% annual chance water surface elevation.	Yes		
ABSDIFF	Numeric		10	2	Absolute difference.	Yes		
MINGRZ	Numeric		10	2	Minimum ground elevation.	Yes		
MAXGRZ	Numeric		10	2	Maximum ground elevation.	Yes		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
FAIL	Integer				Does this point fail the flood boundary standards check? 0 = False, 1 = True.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_FIN_STUDY_AR								
This spatial file contains flooding sources included in the scope of work for the flood risk project update within either the FIRM database or the HUC-12. This file should provide an inventory of square miles for the project area by effective and proposed zone and flood risk project type. This would be shown on a map of the HUC-8 (for perspective) and will be shown on the final discovery map. The spatial entity for this layer is a polygon. This table will be maintained by NCFMP and is not required for contractor submittals. This table is required for non-NCFMP counties.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
STDYAR_ID	Text	25			Primary key defined by unique numbers.	Yes	Yes	
COMMGRPID	Text	25			Foreign key link to S_COMMUNITY_GROUP.	Yes		
COUNTY	Text	5			County Name.	Yes		D_CONM
COMMUNITY	Text	100			Community Name.	Yes		
STATE	Text	5			State Name. Acceptable values for this field are listed in the D_STATE_NAME table.	Yes		D_STATE_NAME
CID	Text	6			Foreign key link to L_COMMUNITY_INFO.	Yes		D_CID
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State FIPS code. This is a standard numbering system that is used by the Federal government. Defined in FIPS Pub 6-4. These two numbers correspond to the first two digits of the panel number. Acceptable values for this field are listed in the D_STATE_FIPS table.	Yes		D_STATE_FIPS
EZONE_TYP	Text	5			From effective flood risk project. Acceptable values for this field are listed in the D_ZONE table.	Yes		D_ZONE
EST_TYP	Text	5			Effective Study Type. Acceptable values for this field are listed in the D_STUDY_TYP table.	Yes		D_STUDY_TYP

FLTYPE	Text	50			Flooding type. (domain not established in FEMA Specifications as of 5/24/2011).	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
SUB_AREA	Text	25			Square mileage of subbasin associated with a flood risk project type.	No		
AREA_LID	Text	5			Area units of measure.	Yes		D_AREA_UNITS
FBS_TF	Integer				Are stream segments anticipated to meet FBS? 0 = False, 1 = True.	Yes		
RANKING	Text	5			Forced ranking based on local/regional input.	No		
FST_TYP	Text	5			Final Study Type. Acceptable values for this field are listed in the D_STUDY_TYP table.	Yes		D_STUDY_TYP
METAID	Text	25			Foreign key to METADATA.	Yes		

S_FIRMPAN								
A polygon feature class that contains information about the Flood Insurance Rate Map (FIRM) panel area. This feature class will be maintained by NCFMP and is not required for contractor submittals.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
FIRM_ID	Text	25			Primary key. Defined by a 10 digit FIRM panel number without suffix. i.e. 3720465800.	Yes	Yes	
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
PANEL	Text	4			Panel Number.	Yes		
SCALE_LID	Text	5			Map Scale Lookup Identification.	Yes		D_SCALE
MAPID34	Text	2			2-digit panel state plane coordinate millions values.	Yes		
MAPID910	Text	2			2-digit NC FIRM map number ending.	Yes		
MAP310	Text	8			8-digit Land Records Management Program (LRMP) state plane coordinate for the southwest corner of the panel, combination of MAPID34, PANEL, MAPID910.	Yes		
FIRM_PAN	Text	11			Complete FIRM Panel Number without the suffix. Suffix will be obtained from the L_PAN_REVIS table.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

S_FLOOD_PROBLEMS								
A polygon feature class that contains features representing special flood problems for documentation with the study. This feature class is required if there are special flood problems to report.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
FLPRBLMID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
COMMGRPID	Text	25			Foreign key to S_COMMUNITY_GROUP.	Yes		
FLD_PROB	Text	4000			Description of Flooding Problems by flooding source. This is used to populate the Problem field in the FIS Principal Flood Problems table.	Yes		
WTR_NM_LID	Text	25			Foreign key link to S_WTR_NM.	No		
METAID	Text	25			Foreign key link to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_MT1LOMCPT								
A point feature class used to reference LOMCs that have occurred on a panel. S_MT1LOMCPT, L_MT1LOMC and FILE_L_MT1LOMC data must be populated for LOMCs that have been geocoded for the NCFMP.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
LOMCPT_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
LOMC_ID	Text	25			Foreign key link to L_MT1LOMC.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_PLSS_AR

This table is required when U. S. Public Land Survey System (PLSS) areas are shown on the FIRM.
The S_PLSS_Ar table contains information about the PLSS areas that are associated within the flood risk project area. These include the attributes for the range, township, and section areas. A spatial file with location information also corresponds with this data table. The spatial elements representing the PLSS areas are polygons. Generally there is one polygon per section. The PLSS areas should cover the entire jurisdiction where sections are defined. Township and range systems do not exist in North Carolina therefore this feature class is not required for contractor submittals. This feature class is required for non-NCFMP counties where township and range systems are utilized.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
PLSS_AR_ID	Text	25			Primary key defined by unique numbers.	Yes	Yes	
RANGE	Text	8			Range Number. This is the range number assigned to the PLSS area shown. This attribute would also include the designation of E (east) or W (west) as part of the data. For example, 21W would be an acceptable value. This field is applicable whenever the SECT_NO does not equal zero.	No		
TWP	Text	8			Township. This is the township number assigned to the PLSS area shown. This attribute would also include the designation of N (north) or S (south) as part of the data. For example, 14S would be an acceptable value. This field is applicable whenever the SECT_NO does not equal zero.	No		
SECT_NO	Text	4			Section. This is the section number assigned to the PLSS area shown. Use 0 for special cases.	Yes		

NAME	Text	254			Land Grant or Other Name. This field is required when an area within the PLSS is designated as a Land Grant or has an otherwise special designation.	No		
METAID	Text	25			Foreign key to METADATA.	Yes		

S_POL_AR								
A polygon feature class that contains information about political areas within the study area. This feature class is maintained by NCFMP and is not required for contractor submittals.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
POL_AR_ID	Text	25			Primary key defined by the NCFMP.	Yes	Yes	
POL_NAME1	Text	50			Political Area Name 1. This is the primary name of the area shown.	Yes		
POL_NAME2	Text	50			Political Area Name 2. This is the secondary name of the area shown.	No		
POL_NAME3	Text	50			Political Area Name 3. This is the tertiary name of the area shown.	No		
CO_FIPS	Text	5			County FIPS Code. This is the three-digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
COMM_NO	Text	4			Community Number. This is the four-digit number assigned by FEMA to each community for tracking purposes under the NFIP.	Yes		
CID	Text	6			Foreign key link to L_COMMUNITY_INFO.	Yes		D_CID
PLACEFIPS	Text	5			Community place FIPS code (census place).	No		D_PLACEFIPS
METAID	Text	25			Foreign key to METADATA.	Yes		

S_TRNSPORT_LN								
A linear feature class that contains information about the linear base map transportation features such as roads, railroads, and airports. This feature class is maintained by NCFMP and is not required for contractor submittals.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
TRANS_ID	Text	25			Primary key defined by the NCFMP.	Yes	Yes	
TRANS_LID	Text	5			Transportation Lookup Identification.	Yes		D_TRANS_TYP
RD_S_LID	Text	5			Road Status Lookup Identification.	Yes		D_RD_STAT
PREFIX	Text	50			Prefix of the Feature Name. Not all features will have an entry in this attribute.	No		
FEAT_NM1	Text	100			Feature Name 1. This is the primary name of the feature.	Yes		
NM_LID	Text	5			Name Type Lookup Identification.	Yes		D_NM_TYP
SUFFIX	Text	50			Suffix of the Feature Name. Not all features will have an entry in this attribute.	No		
FEAT_NM2	Text	100			Feature Name 2. This is the secondary name of the feature.	No		
FEAT_NM3	Text	100			Feature Name 3. This is the tertiary name of the feature.	No		
ROUTENO	Text	20			Route Number.	No		
ROUTETY	Text	5			Route Type.	No		D_ROUTETY
ROUTEDESC	Text	50			Route number descriptor - Used for Business, Alternate, North, South, East, West, etc.	No		
ONINDEX	Integer				Does this feature appear on the Countywide Panel Index? 0 = False, 1 = True.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

COMMUNITY INFORMATION
Geodatabase Tables and Spatial Files

NCFMP Maintained Layers

S_WTR_NM
PK	WTR_NM_LID
	WTR_NM

L_EFFECTIVE_WTRNMS
PK	EFFWTRNMID
FK1	WTR_NM_LID EFF_WTR_NM CO_FIPS

S_TRNSPORT_LN
PK	TRANS_ID
	TRANS_LID RD_S_LID PREFIX FEAT_NM1 NM_LID SUFFIX FEAT_NM2 FEAT_NM3 ROUTENO ROUTETY ROUTEDESC ONINDEX METAID

L_CONTACT_INFO
PK	CONTACT_ID
	TITLE AGENCY AGENCYROLE FNAME MNAME LNAME STREET1 STREET2 CITY STATE ZIP ZIPSUFF PHONE PHONE_EXT EMAIL CHKBY CHKDT

L_NFIP_STATUS
PK	NFIPSTATID
FK1	CID NFIP_YN STATUSDATE COMMENTS

S_POL_AR
PK	POL_AR_ID
FK1	POL_NAME1 POL_NAME2 POL_NAME3 CO_FIPS ST_FIPS COMM_NO CID PLACEFIPS METAID

S_BASE_INDEX
PK	IMGSRCID
	IMGSRCNAME IMGDT IMGRES IMGTY IMGRESUN RESTRICTED FILENM METAID

L_COMMUNITY_INFO
PK	CID
	REPOS_CITY REPOS_ST REPOS_ZIP IN_ID_DAT IN_NFIP_DT IN_FRM_DAT PREFIS_DAT EFFFIS_DAT PREREV_DAT EFFREV_DAT REPOS_ADR1 REPOS_ADR2 REPOS_ADR3 IN_FHBM_DT FST_CW_EFF FST_CW_FIS MULTICO_TF FLOODPRONE FK1 CEO_POC FK2 FPA_POC FK3 COM_POC FK5 SHMO_POC FK4 GIS_POC INS_POLICY INS_COVER TOTPAY1978

S_PLSS_AR
PK	PLSS_AR_ID
	RANGE TWP SECT_NO NAME METAID

S_DATUM_CONV_PT
PK	DATCONPTID
	QUAD_NM QUAD_COR FROM_DATUM TO_DATUM ISCOMBASED FK1 WTR_NM_LID CONVFACTOR LEN_LID METAID

L_HISTSTORM_COFIPS
PK	HSTRMCFPID
	CO_FIPS HISTORMID CO_IMPACT

L_HISTORICAL_STORMS
PK	HISTORMID
	STORM_NAME STORM_DATE DESCRIPT

S_CBRS
PK	CBRS_ID
FK1	WTR_NM_LID CBRS_LID CBRS_TF CBRS_DATE METAID

L_POL_FHBM
PK	FHBM_ID
FK1	CID FHBM_DATE FHBM_NOTE

L_NATMETRICS_INFO
PK	NATMET_ID
FK1	COMMGRPID FBS_MI NVUE_MI LEN_LID FIS_AREA AREA_LID TMAPPED_MI POPULATION

L_STREAM_NAME_CHANGES
PK	STRNMCHGID
FK1	OLDNAME NEWNAME CHANGEDATE

L_ADDITIONAL_INFO
PK	ADDTINFOID
	ORGNZATION DESCRIPT INFRMATION

L_FIS_PUBLICATION_DATES
PK	FISPUBID
	PUBDATE REASON CO_FIPS

S_COUNTY_AR
PK	COARID
	CONM CO_FIPS ST_FIPS CGIACOABBR METAID

S_DISCOVERY_MAP
PK	DISCMAP_ID
	COUNTY COMMUNITY STATE CID ST_FIPS EFZONE EST_TYP FLTYPE FK1 WTR_NM_LID STREAM_LEN LEN_LID FBS_TF RANKING FST_TYP METAID

S_FIN_STUDY_AR
PK	STDYAR_ID
	FK1 COMMGRPID COUNTY COMMUNITY STATE CID ST_FIPS EZONE_TYP EST_TYP FLTYPE FK2 WTR_NM_LID SUB_AREA AREA_LID FBS_TF RANKING FST_TYP METAID

V_REFGRID
PK	V_GRIDID

L_FIRM_CID
PK	FIRMCID_ID
FK1	FIRM_ID CID

S_FIRMPAN
PK	FIRM_ID
	ST_FIPS PANEL SCALE_LID MAPID34 MAPID910 MAP310 FIRM_PAN METAID

L_COMMUNITIES_STUDIED
PK	COM_STD_ID
FK1	COMMGRPID
FK2	CID REVISIONS FIS_INCLUD ANI_TF ANI_FIRM ZIPNAME

L_PLSS_COMMGRP
PK	PLSSCOMID
FK2	PLSS_AR_ID
FK1	COMMGRPID

L_DATUM_COMMGRP
PK	DATMCOMMID
FK2	DATCONPTID
FK1	COMMGRPID

L_CBRS_COMMGRP
PK	CBRSCOMMID
FK1	CBRS_ID
FK2	COMMGRPID

L_MEETINGS
PK	MTG_ID
FK1	COM_STD_ID MTG_TYP MTG_DATE MTG_LOC ATTENDEDBY FORFISDATE RIVERBASIN MTG_PURP
FK2	MTG_POC

S_COMMUNITY_GROUP
PK	COMMGRPID
	CASE_NO CASE_DESC H_DATUM V_DATM_LID PROJECTION PROJ_ZONE META_NM STUDY_ZIP CNTRACTDBY SUBMIT_BY SUBMIT_CON SUBMIT_PHO SUBMIT_DT RESTRICTED COINDXNM FISREPORTNM PROJ_UNIT PROJ_SECND PROJ_SUNIT CONTRACT_NO FIS_TITLE CO_FIPS STUDY_PRE STUDY_NM STATE_NM CNTY_NM JURIS_TYP LG_PAN_NO OPP_TF CW_TF SW_TF CBRS_PHONE CBRS_REG LANDWD_VAL LOGO_NM COMM_CHAR FBS_DOC METAID

S_FLOOD_PROBLEMS
PK	FLPRBLMID
FK1	COMMGRPID FLD_PROB WTR_NM_LID METAID

L_TSDN_DOCUMENTS
PK	TSDNDOCID
FK1	COMMGRPID DOC_TYP DOCNAME

S_CSLF_AR
PK	CSLF_ID
FK1	COMMGRPID CNMS_ID OLD_ZONE OLD_ZONEST OLDHYDRAID OLDCSTLID OLD_TOPO OLD_METAID NEW_ZONE NEW_ZONEST NEWHYDRAID NEWCSTLID NEW_TOPO NEW_METAID SFHACHG FLDWYCHG NONSFHACHG CHHACHG STRUCTURES POPULATION CID HUC8_CODE METAID

S_FBS
PK	FBS_ID
FK1	COMMGRPID GROUND_EL WSEL DIFF ABSDIFF MINGRZ MAXGRZ LEN_LID V_DATM_LID FAIL METAID

L_RASTER_MAPPING
PK	RASTER_ID
FK1	COMMGRPID EVENTID RASTER_TYP RASTERNAME DESCRIPT

S_BENCHMARK
PK	BM_ID
FK1	COMMGRPID PID AGENCY SYSINDT NAME METAID

L_COMM_MDL_GROUPS
PK	COMDLGRPID
FK1	COMMGRPID
FK2	MDL_GRP_ID

S_MODEL_GROUP
PK	MDL_GRP_ID
	H_DATUM V_DATM_LID PROJECTION PROJ_ZONE META_NM STUDY_ZIP CNTRACTDBY SUBMIT_BY SUBMIT_CON SUBMIT_PHO SUBMIT_DT PROJ_UNIT PROJ_SECND PROJ_SUNIT CONTRACT_NO METAID

L_PAN_REVIS
PK	REVIS_ID
FK1	COMMGRPID
FK2	FIRM_ID GRDFIRMNM STATUS STATUSDATE BASEIMGNM SUFFIX FIRM_PAN PANEL_LID PNP_REASON BASE_TYP UPDATED_TF REVIS_DATE REVIS_NOTE ARCHIVEDATE ARCHIVENAME MEDIAID MEDIALOC COMMENTS ELEVDATNM

L_MT1LOMC
PK	LOMC_ID
FK1	REVIS_ID CASE_NO EFF_DATE FIRM_PAN LOMC_STAT ZIPNAME LLE LAG

S_MT1LOMCPT
PK	LOMCPT_ID
FK1	LOMC_ID METAID

SURVEY

L_APXBRDG								
A table containing information specific to one bridge. This table is required for an appoximate bridge survey.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
APXBRDG_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
APXSTR_ID	Text	25			Foreign key to S_APXSTR.	Yes		
TOPWD	Numeric		10	2	Width of structure, measured between outermost low chords.	Yes		
TOEWD	Numeric		10	2	Width of a structure, measured between the abutments.	Yes		
DECKTHICK	Numeric		10	2	Measurement from top of road to bottom of bridge.	Yes		
NUMPIERS	Long				Number of piers.	Yes		
PIERWD	Numeric		10	2	Average width or span of piers, measured perpendicular to the streamflow.	Yes		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_APXCUL								
A table containing information about one pipe or box, at a culvert crossing. This table is required for an approximate culvert survey.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
APXCUL_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
APXSTR_ID	Text	25			Foreign key to S_APXSTR.	Yes		
CLSTN	Numeric		10	2	Station at intersection of stream centerline and structure. Measured from the left endpoint of the structure moving right, looking downstream.	Yes		
SHPTYP_LID	Text	5			Culvert shape type lookup identification. A code that provides a link to an entry from D_SHPTYP.	Yes		D_SHPTYP
RISE	Numeric		10	2	Height or diameter of pipe.	Yes		
SPAN	Numeric		10	2	Width or span of pipe.	Yes		
US_INVERT	Numeric		10	2	Elevation at bottom of upstream pipe opening.	Yes		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_APXDAM								
A table containing information specific to one dam. This table is required for an approximate dam survey.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
APXDAM_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
APXSTR_ID	Text	25			Foreign key to S_APXSTR.	Yes		
DAMTYP_LID	Text	5			Dam type lookup identification. A code that provides a link to an entry from D_DAMTYP.	Yes		D_DAMTYP
MTLTYP_LID	Text	5			Material type lookup identification. A code that provides a link to an entry from D_MTLTYP.	Yes		D_MTLTYP
NORMALAREA	Numeric		12	2	Area of pool at normal water surface elevation.	Yes		
AREA_LID	Text	5			Units of area measure. A code that provides a link to an entry from D_AREA_UNITS.	Yes		D_AREA_UNITS
DAMTOPELV	Numeric		10	2	Elevation at top of dam.	Yes		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_APXPHT								
A lookup table for the photos associated with structures that have been surveyed to support limited detailed studies. This table is required.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
APXPHT_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
APXSTR_ID	Text	25			Foreign key to S_APXSTR.	Yes		
PHOTO_ID	Text	25			Foreign key to S_PHOTO.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_APXRSR								
A table that contains data specific to risers. This table is required for an approximate dam survey (with a riser).								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
APXRSR_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
APXDAM_ID	Text	25			Foreign key to L_APXDAM.	Yes		
RSRLN	Numeric		10	2	Length or diameter of riser top opening.	Yes		
RSRWD	Numeric		10	2	Width of riser.	Yes		
RSRHT	Numeric		10	2	Height of riser.	Yes		
RSRTOPELV	Numeric		10	2	Elevation at the top of the riser.	Yes		
RSRSHPT_ID	Text	5			Riser shape type lookup identification. A code that provides a link to an entry from D_SHPTYP.	Yes		D_SHPTYP
EXPPLN	Numeric		10	2	Length of the exit pipe.	Yes		
EXPPWD	Numeric		10	2	Width of the exit pipe.	Yes		
EXPPRISE	Numeric		10	2	Diameter or height of the exit pipe.	Yes		
EXPPTOPELV	Numeric		10	2	Elevation at the top of the exit pipe.	Yes		
EXPSHPT_ID	Text	5			Exit pipe shape type lookup identification. A code that provides a link to an entry from D_SHPTYP.	Yes		D_SHPTYP
RSRHLCNT	Long				Number of riser holes.	Yes		
RSRHLLN	Numeric		10	2	Length or diameter of riser holes.	Yes		
RSRHLWD	Numeric		10	2	Width of riser holes.	Yes		
RSRHLSPC	Numeric		10	2	Spacing between riser holes.	Yes		
RSRHLSP_ID	Text	5			Riser hole shape type lookup identification. A code that provides a link to an entry from D_SHPTYP.	Yes		D_SHPTYP

TRLN	Numeric		10	2	Length of trashrack.	Yes		
TRWD	Numeric		10	2	Width of trashrack.	Yes		
TRTOPELV	Numeric		10	2	Elevation at top of trashrack.	Yes		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_APXSWY								
A table containing specific information about the spillways for each dam. This table is required for approximate dam surveys.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
APXSWY_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
APXDAM_ID	Text	25			Foreign key to L_APXDAM.	Yes		
TOPWD	Numeric		10	2	Width at top of spillway.	Yes		
BOTWD	Numeric		10	2	Width at bottom of spillway.	Yes		
HEIGHT	Numeric		10	2	Height of spillway.	Yes		
TOPELV	Numeric		10	2	Elevation at top of spillway.	Yes		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_BRDG								
A table containing data specific to bridges. This table is required for bridge surveys.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
BRDG_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
STRUC_ID	Text	25			Foreign key to S_STRUC.	Yes		
DECKTHICK	Numeric		10	2	Measurement from top of road to bottom of bridge.	Yes		
ABTTYP_LID	Text	5			Abutment type lookup identification. A code that provides a link to an entry from D_ABTTYP.	Yes		D_ABTTYP
LABTMNTSTN	Numeric		10	2	Station where the left abutment begins. Measured from the left endpoint of the structure moving right, looking downstream.	Yes		
RABTMNTSTN	Numeric		10	2	Station where the right abutment begins. Measured from the left endpoint of the structure moving right, looking downstream.	Yes		
LFILLSTN	Numeric		10	2	Station of the left toe of fill. Measured from the left endpoint of the structure moving right, looking downstream.	Yes		
RFILLSTN	Numeric		10	2	Station of the right toe of fill. Measured from the left endpoint of the structure moving right, looking downstream.	Yes		
LSIDESLOPE	Numeric		7	2	Slope of left fill station.	Yes		

RSIDESLOPE	Numeric		7	2	Slope of right fill station.	Yes		
RDEMBSLOPE	Numeric		7	2	Slope of road embankment.	No		
GUIDETY	Text	50			Type of guidebank (None, straight, elliptical).	No		
GUIDELEN	Numeric		10	2	Length of guide banks.	No		
GUIDEOFF	Numeric		10	2	Offset of guide banks.	No		
GUIDESKEW	Numeric		10	2	Skew of guide banks.	No		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_CHANCOND								
A table containing information on the condition of the channel. This table is only required for communities where stormwater infrastructure is considered for hydrologic modeling.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
CHANCONDID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
CHAN_ID	Text	25			Foreign key to S_CHANNEL table.	Yes		
CONDITION	Text	5			Description of condition.	Yes		D_CHANCOND
FLOWOBSERV	Integer				Was water flow observed at time of survey? 0 = False, 1 = True.	Yes		
OBSTRCTPER	Long				Estimated percent obstruction at time of survey.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_CHANPHT								
A table containing information on photos associated with channels. This table is only required for communities where stormwater infrastructure is considered for hydrologic modeling.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
CHANPHT_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
CHAN_ID	Text	25			Foreign key to S_CHANNEL.	Yes		
PHOTO_ID	Text	25			Foreign key to S_PHOTO.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_CHANSKT								
A table containing information on sketches associated with channels. This table is only required for communities where stormwater infrastructure is considered for hydrologic modeling.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
CHANSKT_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
CHAN_ID	Text	25			Foreign key to S_CHANNEL.	Yes		
SKETCH_ID	Text	25			Foreign key to L_SKETCH.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_CST_STRUCT								
The L_CST_STRUCT table is required whenever coastal structures, such as breakwaters, levees, or seawalls, affect local topography and flood hazards. The L_CST_STRUCT table contains information about the coastal structures within the flood risk project area.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
CST_STR_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
STRUC_ID	Text	25			Foreign key link to S_STRUC.	Yes		
MTLTYP_LID	Text	5			Structure Material. This describes the type of material of which the structure is composed. Acceptable values for this field are listed in the D_MTLTYP table. This field is populated when the structure material is known.	Yes		D_MTLTYP
CERT_DOC	Text	25			Certification Document. <Filename.zip> of the structure certification documentation. This field is populated for a new coastal flood risk project when the coastal structure has been certified by a professional engineer or Federal agency to remain intact during a 1-percent-annual-chance flood event.	No		

CERT_STAT	Text	5			Certification Status. This describes the type of certification that the coastal structure possesses. This field is populated for structures in a new coastal flood risk project that protect up to the 1-percent-annual-chance flood. Acceptable values for this field are listed in the D_CERT_STATUS table.	Yes		D_CERT_STATUS

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_CULPP								
A table containing information about one pipe or box, at a culvert crossing. This table is required for a culvert survey.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
CULPP_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
STRUC_ID	Text	25			Foreign key to S_STRUC.	Yes		
CLSTN	Numeric		14	2	Centerline station of the culvert. Measured from the left endpoint of the structure moving right, looking downstream.	Yes		
PIPELN	Numeric		10	2	Length of pipe.	Yes		
SHPTYP_LID	Text	5			Lookup identification for the cross sectional shape of culvert. A code that provides a link to an entry from D_SHPTYP.	Yes		D_SHPTYP
MTLTYP_LID	Text	5			Pipe material type lookup identification. A code that provides a link to an entry from D_MTLTYP.	Yes		D_MTLTYP
RISE	Numeric		10	2	Height or diameter of pipe.	Yes		
WDTH	Numeric		10	2	Width or span of pipe.	Yes		
USINVERT	Numeric		10	2	Elevation at bottom of upstream pipe opening.	Yes		
DSINVERT	Numeric		10	2	Elevation at bottom of downstream pipe opening.	Yes		
INTYP_LID	Text	5			Type of inlet. A code that provides a valid link to a valid entry from D_PPTYP.	Yes		D_PPTYP

OUTTYP_LID	Text	5			Type of outlet. A code that provides a link to an entry from D_PPTYP.	Yes		D_PPTYP
COMMENTS	Text	254			General comments or notes.	No		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_DAM								
A table containing information specific to one dam. This table is required for a dam survey.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
DAM_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
STRUC_ID	Text	25			Foreign key to S_STRUC.	Yes		
DAMTYP_LID	Text	5			Dam type lookup identification. A code that provides a link to an entry from D_DAMTYP.	Yes		D_DAMTYP
DAMTOPELV	Numeric		10	2	Elevation at top of dam.	Yes		
DAMHT	Numeric		10	2	Height of dam.	Yes		
EMBTYPE	Text	5			Type of embankment. Valid values from D_EMBANKTY.	Yes		D_EMBANKTY
EMBSLOPE	Numeric		7	2	Slope of embankment.	Yes		
EMBCLASS	Text	50			Embankment classification.	No		
NWSELV	Numeric		10	2	Normal water surface elevation (level pool elevation).	Yes		
NORMALAREA	Numeric		12	2	Area of pool at normal water surface elevation.	Yes		
HAZARDCLS	Text	50			User assigned classification.	No		
VALVEEASTING	Numeric		14	2	Easting or X-coordinate of drain valve.	No		
VALVENORTH	Numeric		14	2	Northing or Y-coordinate of drain valve.	No		
AREA_LID	Text	5			Units of area measure. A code that provides a link to an entry from D_AREA_UNITS.	Yes		D_AREA_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_HWMPHT								
A lookup table for the photos associated with the high water marks. This table is required for a HWM survey.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
HWMPHT_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
HWM_ID	Text	25			Foreign key to S_HWM.	Yes		
PHOTO_ID	Text	25			Foreign key to S_PHOTO.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_HWMSKT								
A lookup table for the sketches associated with the high water marks. This table is required for a HWM survey.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
HWMSKT_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
HWM_ID	Text	25			Foreign key to S_HWM.	Yes		
SKETCH_ID	Text	25			Foreign key to L_SKETCH.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_HWMWTNS								
A lookup table that contains information about each witness to high water marks that occured during flooding events. This table is required for a HWM survey.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
WTNSS_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
WTNSSNM	Text	60			Name of witness to high water mark.	Yes		
ADDRESS	Text	254			Physical address of witness to high water mark.	Yes		
PHONE	Text	20			Telephone number of witness to high water mark.	Yes		
RESLNGTH	Long				The length of time a witness has lived at a particular residence.	Yes		
TIME_LID	Text	5			Units of temporal measure. A code that provides a link to an entry from D_TIME_UNITS.	Yes		D_TIME_UNITS

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_LCHRD								
A table that contains supplemental information to better define the low chord geometry of a bridge. The points in this table represent shots taken in the field and are not mandatory for all bridges. This table should be populated if such points are collected.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
LCHRD_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
BRDG_ID	Text	25			Foreign key to L_BRDG.	Yes		
STATION	Numeric		10	2	Cross section station (referencing profile view of structure).	Yes		
ELEV	Numeric		10	2	Feet above sea level.	Yes		
EASTING	Numeric		14	2	X-coordinate.	Yes		
NORTHING	Numeric		14	2	Y-coordinate.	Yes		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_LEVEE								
A table that contains data specific to levees. This table is required for levee surveys/info.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
LEVEE_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
STRUC_ID	Text	25			Foreign key to S_STRUC.	Yes		
LEVEENM	Text	50			Official name of structure or project (use NONAME if unnamed).	Yes		
LEVTYP_LID	Text	5			Levee type lookup identification. A code that provides a link to an entry from D_LEVTYP.	Yes		D_LEVTYP
BANK_LOC	Text	100			Bank Location. A field to describe the location of the levee centerline in relation to the water body. For example, “On the left bank looking downstream”.	Yes		
CRESTLEN	Numeric		10	2	Length of crest of structure.	Yes		
TOPELV	Numeric		10	2	Average top elevation of levee.	Yes		
FREEBOARD	Numeric		10	2	Minimum freeboard of structure.	Yes		
SIDESLOPE	Numeric		7	2	Average side slope.	Yes		

LEVEE_STAT	Text	5			Levee Status. This field stores the accreditation status of the levee. Acceptable values for this field are listed in the D_LEVEE_STATUS table. The domain value “NEVER ACCREDITED” indicates that the levee provides some flood protection but does not provide protection for the 1-percent-annual-chance flood event; this value may only be used with the approval of the FEMA Project Lead.	Yes		D_LEVEE_STATUS
ACCREDIT	Text	50			Accreditation or verification mechanism. Entries may include but are not limited to FEMA, PRIOR or FEDERAL.	Yes		
PAL_DATE	Date/Time				Provisionally Accredited Levee Date. This field stores the end date of the Provisionally Accredited Levee (PAL) period for the levee associated with the flood zone. This field is populated for those structure features that have a PAL designation.	No		
PL84_99TF	Integer				Status of levee. This field indicates if the levee is covered under PL84-99. 0 = False, 1 = True.	Yes		
OWNER	Text	100			Levee Owner. Name of the entity that owns the levee.	Yes		
ISOPPLAN	Integer				Is there an approved operational plan? 0 = False, 1 = True.	Yes		
ISMAINT	Integer				Is there a FEMA-approved maintenance plan? 0 = False, 1 = True.	Yes		
CLSTYP_ID	Text	5			Closure type lookup identification. A code that provides a link to an entry from D_CLSTYP.	Yes		D_CLSTYP

HASFAILED	Integer				Have failures occurred? 0 = False, 1 = True.	Yes		
PROT_1PCT	Integer				Protection from 1% Annual Chance Flood Hazard. Indicates if the structure provides protection from the 1% Annual Chance Flood Hazard. 0 = False, 1 = True.	Yes		
PROTECTYR	Long				Exceedence frequency in years that flood structure was designed to protect against.	Yes		
PROTECTAR	Numeric		12	2	Area protected.	Yes		
PROTECTLU	Text	5			Is area protected by structure primarily developed or undeveloped?	Yes		D_DEVELOP
PROTECZONE	Text	5			FIRM zone adjacent to landside of structure.	Yes		D_ZONE
UNPROZONE	Text	5			FIRM zone to waterside of structure.	Yes		D_ZONE
VERAGENT	Text	50			Verification or crediting agent.	Yes		
USACE_LEV	Integer				Determines if this is a USACE Levee. 0 = False, 1 = True.	Yes		
DISTRICT	Text	5			United States Army Corps of Engineers (USACE) District Code. The district code of the district that is responsible for the segment. Field is required when the structure is owned or maintained by USACE. Valid values can be found in the D_USACE_DISTRICT domain table.	No		D_USACE_DISTRICT

LVDBASE_ID	Text	25			Midterm Levee Database Identification. If the levee, floodwall, or closure structure is included in the Midterm Levee Database, this is the structure's identification name/number in the Midterm Levee Database. This field is populated for those structures, such as levees, that are included in the Midterm Levee Database, regardless of status.	No		
FC_SYS_ID	Text	25			Levee System ID. An identifier for each levee system a levee is associated with. Used to associate levees with areas protected by a levee.	Yes		
PROF_XSTXT	Text	80			Profile Cross Section Text. This field stores user-defined cross section text that is plotted on the profile.	No		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
AREA_LID	Text	5			Units of area measure. A code that provides a link to an entry from D_AREA_UNITS.	Yes		D_AREA_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_ORFC								
A table that contains specific information about the orifices of the riser. This table is required for dam surveys (with risers).								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
ORFC_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
RSRBRL_ID	Text	25			Foreign key to L_RSRBRL.	Yes		
SHPTYP_LID	Text	5			Orifice shape type lookup identification. A code that provides a link to an entry from D_SHPTYP.	Yes		D_SHPTYP
ORFCCNT	Long				Number of same size orifices at a given elevation.	Yes		
CLELV	Numeric		10	2	Elevation at center of orifice.	Yes		
DIAMETER	Numeric		10	2	Diameter of orifice.	Yes		
HEIGHT	Numeric		10	2	Height of orifice.	Yes		
WDTH	Numeric		10	2	Width of orifice.	Yes		
COMMENTS	Text	254			General comments or notes.	No		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_OTLPP								
A table that contains specific information about the outlet pipes from each riser. This table is required for dam surveys (with risers).								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
OTLPP_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
RSRBRL_ID	Text	25			Foreign key to L_RSRBRL.	Yes		
SHPTYP_LID	Text	5			Pipe shape type lookup identification. A code that provides a link to an entry from D_SHPTYP.	Yes		D_SHPTYP
MTLTYP_LID	Text	5			Pipe material type lookup identification. A code that provides a link to an entry from D_MTLTYP.	Yes		D_MTLTYP
CLSTN	Numeric		14	2	Centerline station where the outlet pipe is located. Measured from the left endpoint of the structure moving right, looking downstream.	Yes		
DIAMETER	Numeric		10	2	Diameter of outlet pipe.	Yes		
HEIGHT	Numeric		10	2	Height of outlet pipe.	Yes		
LNGTH	Numeric		10	2	Length of outlet pipe.	Yes		
WDTH	Numeric		10	2	Width of outlet pipe.	Yes		
USINVERT	Numeric		10	2	Elevation at upstream invert of outlet pipe.	Yes		
DSINVERT	Numeric		10	2	Elevation at downstream invert of outlet pipe.	Yes		
INTYP_LID	Text	5			Inlet type lookup identification. A code that provides a valid link to a valid entry from D_PPTYP.	Yes		D_PPTYP

OUTTYP_LID	Text	5			Type of outlet. A code that provides a link to an entry from D_PPTYP.	Yes		D_PPTYP
COMMENTS	Text	254			General comments or notes.	No		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_PIER								
A table in which each record contains information about a pier. This table should be populated for bridge surveys if a pier exists.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
PIER_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
BRDG_ID	Text	25			Foreign key to L_BRDG.	Yes		
SHPTYP_LID	Text	5			Pier shape type lookup identification. A code that provides a link to an entry from D_SHPTYP.	Yes		D_SHPTYP
COLUMNCNT	Long				Number of columns of piers occurring at one station.	Yes		
CLSTN	Numeric		10	2	Station at centerline of the pier. Measured from the left endpoint of the structure moving right, looking downstream.	Yes		
WDTH	Numeric		10	2	Width or span of pier, measured perpendicular to the streamflow.	Yes		
FNDTNTY	Text	50			Type of pier support.	No		
FOOTTOPEL	Numeric		10	2	Elevation at top footing.	No		
FOOTWIDTH	Numeric		10	2	Width at foot of pier.	No		
CAPHT	Numeric		10	2	Height of pier cap.	No		
CAPTOPEL	Numeric		10	2	Elevation at top of cap.	No		
CAPWIDTH	Numeric		10	2	Width of cap.	No		
COMMENTS	Text	254			General comments or notes.	No		
EASTING	Numeric		14	2	X-coordinate.	Yes		
NORTHING	Numeric		14	2	Y-coordinate.	Yes		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_RAIL								
A table that contains information about the surveyed rail shots. This table should be populated for bridge/culvert surveys if a rail exists and is determined to be hydraulically significant.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
RAIL_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
STRUC_ID	Text	25			Foreign key to S_STRUC.	Yes		
CLSTN	Numeric		10	2	Station at rail shot. Measured from the left endpoint of the structure moving right, looking downstream.	Yes		
ELEV	Numeric		10	2	Elevation at top of rail.	Yes		
HEIGHT	Numeric		10	2	Height of rail.	Yes		
EASTING	Numeric		14	2	X-coordinate.	Yes		
NORTHING	Numeric		14	2	Y-coordinate.	Yes		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_RISERWEIR								
A relate table that contains information about riser weirs. This table is required for dam surveys (with risers).								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
RSRWEIR_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
RSRBRL_ID	Text	25			Foreign key to L_RSRBRL.	Yes		
WEIRLENGTH	Numeric		10	2	Length of rectangular weir.	No		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
WEIRINVERT	Numeric		10	2	Elevation of the weir's invert.	No		
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_RSRBRL								
A table that contains data specific to risers. This table is required for dam surveys (with risers).								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
RSRBRL_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
DAM_ID	Text	25			Foreign key to L_DAM.	Yes		
SHPTYP_LID	Text	5			Riser shape type lookup identification. A code that provides a link to an entry from D_SHPTYP.	Yes		D_SHPTYP
MTLTYP_LID	Text	5			Riser material type lookup identification. A code that provides a link to an entry from D_MTLTYP.	Yes		D_MTLTYP
CLSTN	Numeric		10	2	Centerline station of the riser barrel. Measured from the left endpoint of the structure moving right, looking downstream.	Yes		
LNGTH	Numeric		10	2	Length of the riser barrel.	Yes		
WDTH	Numeric		11	2	Width of riser barrel.	Yes		
TOPELV	Numeric		10	2	Elevation at the top of riser barrel.	Yes		
BASEELV	Numeric		10	2	Elevation at the bottom of the riser barrel.	Yes		
TRTOPELV	Numeric		10	2	Elevation at top of trashrack.	Yes		
TRLN	Numeric		10	2	Length of trashrack.	Yes		
TRWD	Numeric		10	2	Width of trashrack.	Yes		
TRHT	Numeric		10	2	Height of trashrack.	Yes		
COMMENTS	Text	254			General comments or notes.	No		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_SKETCH								
A table that contains information related to sketches that were created during the survey. This table is required for all field surveys.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
SKETCH_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
SKETCHDT	Date/Time				Date the sketch was created.	Yes		
FILENM	Text	254			Name of the sketch file.	Yes		
SUBJECT	Text	50			Object or object component in photo (dam, dam wingwall, etc.).	No		
LOCATION	Text	50			Location of object, how it might be found on a map.	No		
PROVIDEDBY	Text	5			Firm or agency providing data.	No		D_CONTRACTOR
COMMENTS	Text	254			General comments or notes.	No		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_STRPHT								
A lookup table for the photos associated with the structures. This table is required for all field surveys.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
STRPHT_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
PHOTO_ID	Text	25			Foreign key to S_PHOTO.	Yes		
STRUC_ID	Text	25			Foreign key to S_STRUC.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_STRSKT								
A lookup table for the sketches associated with the structures. This table is required all field surveys.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
STRSKT_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
SKETCH_ID	Text	25			Foreign key to L_SKETCH.	Yes		
STRUC_ID	Text	25			Foreign key to S_STRUC.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_STRUCSTO								
A relate table containing information about structure water storage. This table is required for all reservoir routings.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
STRUCSTOID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
STRUC_ID	Text	25			Foreign key to S_STRUC.	Yes		
ELEV	Numeric		10	2	Storage elevation.	No		
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
STOR_AR	Numeric		10	2	Area at storage elevation.	No		
AREA_LID	Text	5			Units of area measure. A code that provides a link to an entry from D_AREA_UNITS.	Yes		D_AREA_UNITS
VOLUME	Numeric		10	2	Volume at storage elevation.	No		
VOL_LID	Text	5			Units of volume measure. A code that provides a link to an entry from D_VOLUME_UNITS.	Yes		D_VOLUME_UNITS
COMMENTS	Text	254			General comments or notes.	No		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_SWY								
A table that contains specific information about the spillways for each dam. This table is required for dam surveys.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
SWY_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
DAM_ID	Text	25			Foreign key to L_DAM.	Yes		
CLSTN	Numeric		10	2	Centerline station of the spillway. Measured from the left endpoint of the structure moving right, looking downstream.	Yes		
SWYTYP_LID	Text	5			Spillway type lookup identification. A code that provides a link to an entry from D_SWYTYP.	Yes		D_SWYTYP
CRESTELV	Numeric		10	2	Elevation at crest of spillway.	Yes		
TOPELV	Numeric		10	2	Elevation at top of spillway.	Yes		
TOPWD	Numeric		10	2	Width at top of spillway.	Yes		
BOTWD	Numeric		10	2	Width at bottom of spillway.	Yes		
DEPTH	Numeric		10	2	Depth of spillway from top to bottom.	No		
SSLEFT	Numeric		10	2	Slope of left side of spillway.	No		
SSRIGHT	Numeric		10	2	Slope of right side of spillway.	No		
COMMENTS	Text	254			General comments or notes.	No		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_SXS								
A table required for all surveyed cross sections.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
SXS_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
STRUC_ID	Text	25			Foreign key to S_STRUC.	No		
TBM_ID	Text	25			Foreign key to S_TBM. Elevation reference point of cross section.	Yes		
XSNAME	Text	65			Cross section name.	Yes		
DATTYP_LID	Text	5			Cross section or data type lookup identification. A code that provides a link to an entry from D_DATTYP.	Yes		D_DATTYP
STREAM_STN	Numeric		14	2	Distance along stream.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
ORIENT	Text	5			Direction in which survey shots were taken. Valid values are LEFT TO RIGHT LOOKING UPSTREAM or LEFT TO RIGHT LOOKING DOWNSTREAM.	Yes		D_ORIENT
CLSTN	Numeric		10	2	Station at intersection of stream centerline and cross section. Measured from the left endpoint of the structure moving right, looking downstream.	Yes		
INVERT	Numeric		10	2	Lowest elevation in cross section.	Yes		
PROVIDEDBY	Text	5			Firm or agency providing data.	No		D_CONTRACTOR

SURVEYDT	Date/Time				Date and time of survey.	Yes		
LOCATION	Text	254			Description of location.	Yes		
CLEASTING	Numeric		14	2	X-coordinate at stream crossing.	Yes		
CLNORTHING	Numeric		14	2	Y-coordinate at stream crossing.	Yes		
COMMENTS	Text	254			General comments or notes.	No		
FILENM	Text	254			Name of survey text file.	No		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_SXSPHT								
A lookup table for the photos associated with the cross sections. This table is required for all surveyed cross sections.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
SXSPHT_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
PHOTO_ID	Text	25			Foreign key to S_PHOTO.	Yes		
SXS_ID	Text	25			Foreign key to L_SXS.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_SXSSKT								
A lookup table for the sketches associated with the cross sections. This table is required for all surveyed cross sections.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
SXSSKT_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
SKETCH_ID	Text	25			Foreign key to L_SKETCH.	Yes		
SXS_ID	Text	25			Foreign key to L_SXS.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_APXSTR								
A linear feature class that contains general data and locational information about structures surveyed for limited detailed studies. This feature class is required if there is limited detail study within a community.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
APXSTR_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
SURVYGRPID	Text	25			Foreign key to S_SURVEYGROUP.	Yes		
STRUCT_LID	Text	5			Structure Type Lookup Identification.	Yes		D_STRUC_TYP
STRUCT_NM	Text	50			Field name of the structure.	Yes		
ROADNM	Text	100			Road name or location of structure.	Yes		
STREAM_STN	Numeric		14	2	Distance along stream where structure intersects stream.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
WDTH	Numeric		10	2	Hydaulic distance from one edge of stucture to the other, parallel to stream.	Yes		
TORELV	Numeric		10	2	Maximum top of road elevation at structure.	Yes		
MINELV	Numeric		10	2	Minimum elevation at structure.	Yes		
CBELV	Numeric		10	2	Average channel bank elevation.	Yes		
CHNLBOTWD	Numeric		10	2	Width at the bottom of channel.	Yes		
CHNLTOPWD	Numeric		10	2	Width at the top of channel.	Yes		
SURVEYDT	Date/Time				Date of survey.	Yes		
PROVIDEDBY	Text	5			Company name of Mapping Partner who is submitting this dataset.	No		D_CONTRACTOR
COMMENTS	Text	254			General comments or notes.	No		

LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_CHANNEL								
A linear feature class of open channel centerlines: These are independent of the stream centerlines data. This feature class is only required for communities where stormwater infrastructure is considered for hydrologic modeling.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
CHAN_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
SURVYGRPID	Text	25			Foreign key to S_SURVEYGROUP.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	No		
MATERIAL	Text	5			Material of channel.	Yes		D_MTLTYP
CHAN_SHAPE	Text	5			Shape of Channel.	Yes		D_SHPTYP
DEPTH	Numeric		10	2	Depth value.	Yes		
WIDTHBOT	Numeric		10	2	Bottom of channel width.	Yes		
WIDTHTOP	Numeric		10	2	Top of channel width.	Yes		
SURVEYDT	Date/Time				Date of survey.	Yes		
PROVIDEDBY	Text	5			Company name of Mapping Partner who is submitting this dataset.	No		D_CONTRACTOR
BASINID	Text	25			Foreign key to S_HYDROBASIN.	No		
COMMENTS	Text	254			General comments or notes.	No		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_HWM								
A point feature class that contains the attributes and the locations of the high water marks (HWMs) that were surveyed. This feature class is required for all HWM surveys.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
HWM_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
SURVYGRPID	Text	25			Foreign key to S_SURVEYGROUP.	Yes		
HWMNM	Text	50			Name of high water mark.	Yes		
LNTYP_LID	Text	5			HWM type lookup identification.	Yes		D_HWLNTP
LOCATION	Text	254			Location of the high water mark. This is used to populate the Location Description in the FIS Historic Flood Elevations table.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
STREAM_STN	Numeric		10	2	Approximate stream station.	Yes		
ELEV	Numeric		10	2	Elevation of high water mark.	Yes		
STORMNM	Text	50			Name of storm.	No		
EVENTDT	Date/Time				Date of the storm. If the storm date is not known please give an approximate date or date range in the comments field.	Yes		
APX_FREQ	Long				Approximate recurrence interval in years of the high water event.	Yes		
WTNSS_ID	Text	25			Foreign key to L_HWMWTNS table.	Yes		
INTRVIEWDT	Date/Time				Date of interview with witness to high water mark.	Yes		
INTRVWRNM	Text	30			Name of person conducting interview.	No		
SOURCE	Text	5			Source of HWM.	No		D_HWMSRC

SURVEYTY	Text	5			Type of survey.	No		D_SURVEYTY
ACCURACY	Text	25			Survey accuracy rating. (Good, Fair, Poor).	No		
SURVPRMT	Integer				Do the surveyors have permission to survey? 0 = False, 1 = True.	No		
COMMENTS	Text	254			General comments or notes.	No		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
IS_FISDESC	Integer				Is this HWM used in the FIS Historic Flood Elevations table? 0 = False, 1 = True.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_LEVEEPTS								
A point feature class of levee surveyed points. This feature class is required for levee surveys/info.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
LEVEEPTID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
LEVEE_ID	Text	25			Foreign key to L_LEVEE.	Yes		
POINTORDER	Long				Used to order points along levee. Useful for ordering points when there is a vertical step. Integer values ordered from left to right looking downstream.	Yes		
SURVCODE	Text	20			Survey code to point assigned by surveyor.	Yes		
DESCRIPT	Text	50			Description (i.e., "Top of levee").	Yes		
ELEV	Numeric		13	2	Elevation of levee point.	No		
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_PHOTO								
A point feature class used to represent the locations of the photos taken during the survey. This feature class is required for all surveys with photos.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
PHOTO_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
FILENM	Text	254			Name of the photo file.	Yes		
LOCATION	Text	254			A description of the geographic location where the picture was taken.	Yes		
PHOTODT	Date/Time				The date that the picture was taken.	Yes		
SUBJECT	Text	50			Description of feature or view.	Yes		
PROVIDEDBY	Text	5			Source of Photo.	No		D_CONTRACTOR
AZIMUTH	Numeric		8	2	Horizontal angle of the bearing for the photo.	No		
COMMENTS	Text	254			General comments or notes.	No		
METAID	Text	25			Foreign key to METADATA table.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_STRUC								
A linear feature class that contains attributes and locational information for each structure. This feature class is required for all types of field survey.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
STRUC_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
SURVYGRPID	Text	25			Foreign key to S_SURVEYGROUP.	Yes		
STRUCT_LID	Text	5			Structure Type Lookup Identification. If structure type is OTHER/MISC STRUCTURE provide a detailed description of the structure type in the STRUC_DESC column.	Yes		D_STRUC_TYP
TBM_ID	Text	25			Foreign key to S_TBM. Elevation reference point of cross section.	Yes		
STRUCT_NM	Text	50			Field name of the structure. This is used to populate the Structure Name in the FIS Flood Protection Measures table.	Yes		
STRUC_DESC	Text	4000			Structure Description. This is a description of the structure itself and is used to populate the Structure Description in the FIS Flood Protection Measures table.	No		
LOC_DESC	Text	254			Location Description. This is a description of where the structure is located and is used to populate the Structure Location in the FIS Flood Protection Measures table.	No		
ROADNM	Text	254			Road name or location of structure.	Yes		
STREAM_STN	Numeric		14	2	Distance along stream from a user-defined reference point to where structure intersects stream.	No		

WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
ORIENT	Text	5			Direction in which survey shots were taken. Valid values are LEFT TO RIGHT LOOKING UPSTREAM or LEFT TO RIGHT LOOKING DOWNSTREAM.	No		D_ORIENT
CLSTN	Numeric		10	2	Station at intersection of stream centerline and cross section. Measured from the left endpoint of the structure moving right, looking downstream.	No		
USINVERT	Numeric		10	2	Elevation of the lowest point in stream, under structure on the upstream side.	No		
DSINVERT	Numeric		10	2	Elevation of the lowest point in stream, under structure on downstream side.	No		
LNGTH	Numeric		10	2	Distance from beginning of structure to end.	Yes		
WDTH	Numeric		10	2	For bridges, culverts, and dams, the hydraulic distance from one edge of structure to the other, parallel to stream.	Yes		
MTLFIL_LID	Text	5			Fill material type lookup identification. A code that provides a link to an entry from D_MTLTYP.	No		D_MTLTYP
MTLBED_LID	Text	5			Bed material type lookup identification. A code that provides a link to an entry from D_MTLTYP.	No		D_MTLTYP
SKEW	Numeric		12	4	Angle of structure, if not perpendicular to stream.	No		
RAILAVGHT	Numeric		10	2	Average rail height.	No		
LOCASBILT	Text	50			Firm or agency that has as-built plans.	No		
LOCINSPEC	Text	50			Firm or agency that has current inspection data.	No		

LOCPLANS	Text	100			Where structure construction plans are located.	No		
MAINTRESP	Text	50			Name of agency with overall maintenance responsibility for structure.	No		
YRBUILT	Date/Time				Year structure was built.	No		
YRINSPEC	Date/Time				Inspection date as of flood study.	No		
SHOWN_FIRM	Integer				Shown on FIRM. This field captures if the structure is shown on the FIRM. If the structure is shown on the FIRM, this field would be True. If the structure is not shown on the FIRM, this field is False. 0 = False, 1 = True.	Yes		
COMMENTS	Text	254			General comments or notes.	No		
CLEASTING	Numeric		14	2	Easting or X-Coordinate of centerline station.	No		
CLNORTHING	Numeric		14	2	Northing of Y-Coordinate of centerline station.	No		
SURVEYDT	Date/Time				Date of survey.	Yes		
SURVEY_TM	Text	10			Survey Time. Time of the structure survey. This value should be formatted as hh:mm. This field is populated when the time of the survey is available.	No		
PROVIDEDBY	Text	5			Company name of Mapping Partner who is submitting this dataset.	No		D_CONTRACTOR
FILENM	Text	254			Name of survey file.	Yes		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
ISFLDPRTCT	Integer				Indicates whether the structure is listed in the Flood Protection Measures table in the FIS.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_SURVEYGROUP								
A polygon feature class that identifies survey submittals used for the floodplain delineation study. The geometric extent of this feature class should encompass all associated field surveyed entities utilized in the associated model for that reach. Similar to S_HYDRAMODEL, this feature class is drawn as a single polygon that represents the survey data that is associated with a modeled reach, extending around all surveyed data components for that studied reach. In certain situations, especially in regards to the back population of data, S_SURVEYGROUP polygons may overlap. This feature class is required for all types of surveys.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
SURVYGRPID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
MDL_GRP_ID	Text	25			Foreign key to S_MODEL_GROUP.	Yes		
DESCRIPT	Text	254			Name/description of survey file.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

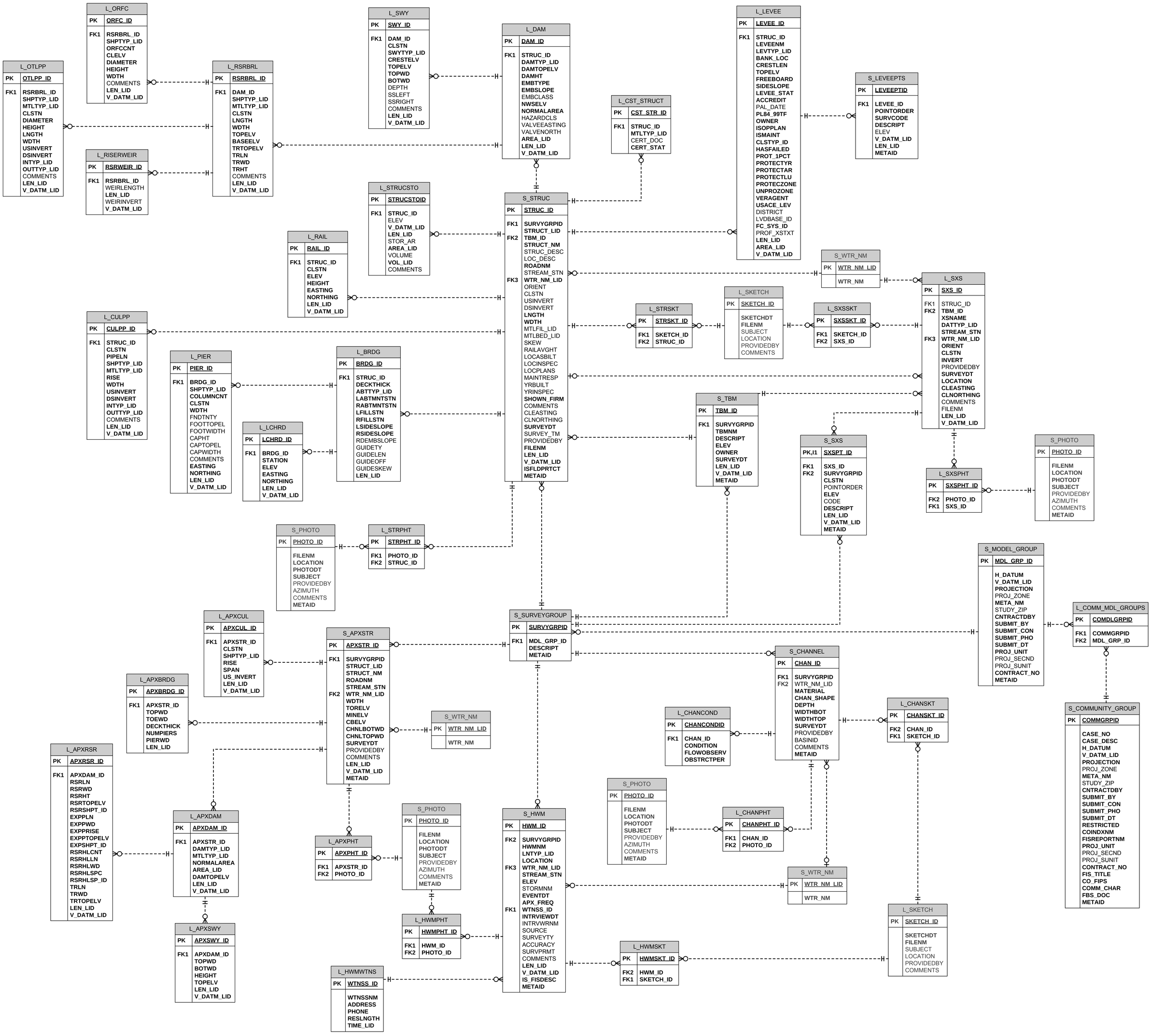
S_SXS								
A point feature class that contains location information and also relates to the data table, L_SXS. This feature class is required for all cross section surveys.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
SXSPT_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
SXS_ID	Text	25			Foreign key to L_SXS.	Yes		
SURVYGRPID	Text	25			Foreign key to S_SURVEYGROUP.	Yes		
CLSTN	Numeric		10	2	Station of surveyed shot. Measured from the left endpoint of the Cross section moving right, looking downstream.	Yes		
POINTORDER	Long				Used to order points along cross section. Useful for ordering points when there is a vertical step. Integer values ordered from left to right looking downstream.	No		
ELEV	Numeric		10	2	Elevation of surveyed cross section shot or point.	Yes		
CODE	Text	20			Survey code to point assigned by surveyor.	No		
DESCRIPT	Text	100			Description of surveyed cross section shot or point.	Yes		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_TBM								
A point feature class that is used to represent the locations of the temporary benchmarks (TBMs) or elevation reference marks that were used during the survey. This feature class is required for all types of field survey.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
TBM_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
SURVYGRPID	Text	25			Foreign key to S_SURVEYGROUP.	Yes		
TBMNM	Text	50			Temporary Benchmark Name. This is the name of the temporary benchmark and the name that will be shown on the hard copy FIRM.	Yes		
DESCRIPT	Text	254			Description of directions to location Temporary Benchmark.	Yes		
ELEV	Numeric		10	2	Elevation of temporary benchmark.	Yes		
OWNER	Text	50			Agency or municipality that owns or maintains the monument.	Yes		
SURVEYDT	Date/Time				Date the Temporary Benchmark was surveyed.	Yes		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

SURVEY
Geodatabase Tables and Spatial Files



HYDROLOGY

ENGINEERING

L_HYDRO_FOOTNOTES								
The L_HYDRO_FOOTNOTES table relates the L_HYDRORESULT table to the L_FOOTNOTES table to provide result specific footnotes to FIS table outputs.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
HDROFTNTID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
RESULTID	Text	25			Foreign key to L_HYDRORESULT.	Yes		
FOOTNOTEID	Text	25			Foreign key to L_FOOTNOTES.	Yes		
FIS_COLUMN	Text	5			Specifies the column in the FIS to which the footnote applies.	Yes		D_HYDROFOOTNOTE_COLUMN

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_HYDROCNGROUP								
This table is used to group curve number lookups.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
CNGROUPID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
DESCRIPT	Text	254			Unique text description for a set of entities used in a modeling scenario.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_HYDROCNLOOKUP								
A table that relates various combinations of soil and land use types, to provide an appropriate curve number. This table is required if utilized for rainfall runoff model parameterization.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
CNLOOKUPID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
CNGROUPID	Text	25			Foreign key to L_HYDROCNGROUP. Used to identify a set of curve numbers lookups. Multiple lookups can be defined for different antecedent moisture conditions which allows multiple scenario analyses. Used in S_HYDROMODEL.	Yes		
CN	Numeric		8	2	SCS curve number established for this land use/soil combination.	Yes		
SCSSOIL	Text	2			SCS Hydrologic Soil Type (A, B, C, D).	Yes		
LUTYPE	Text	50			Land use name.	Yes		
AMC	Long				Antecedent moisture condition (1,2 or 3).	Yes		
SOURCE	Text	254			"SCS TR-55", etc.	Yes		
SCSLUTYPE	Text	50			Example: "Open Space – Fair condition".	No		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_HYDROCNRESULT								
A table used for describing SCS curve numbers used in models such as HEC-1 and HEC-HMS. This table is required if utilized for rainfall runoff model parameterization.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
CNID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
BASINID	Text	25			Foreign key to S_HYDROBASIN.	Yes		
CNGROUPID	Text	25			Foreign key to L_HYDROCNGROUP. Used to identify a set of curve numbers.	Yes		
CN	Numeric		8	2	Calculated SCS curve number.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_HYDROEQUATION								
A table used to store basic regression equations utilized in regression analysis. This table is required whenever basic regression equations are used in the modeling process.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
HYDEQID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
EQUATION	Text	254			Textual depiction of equation (i.e. Q10 = 622*DA^0.75).	Yes		
TR	Numeric		7	1	Recurrence interval.	Yes		
TIME_LID	Text	5			Duration Unit Lookup Identification. A code that provides a link to a valid entry from D_TIME_UNITS.	Yes		D_TIME_UNITS
DESCRIPT	Text	50			Details about the equation (2000 NC Regression Equations).	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_HYDRONODEPARAM								
A table used to store parameter values at nodes. This table is required whenever used in the modeling process.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
NODEPARID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
NODEID	Text	25			Foreign key to S_HYDRONODE, i.e NODE 3.	Yes		
PARAMID	Text	25			Foreign key to L_HYDROPARAM, i.e. PARAMID 4 (DA SQMI)	Yes		
PARAMVALUE	Numeric		22	6	Value for this parameter at this node, i.e. 12.2.	Yes		
CUMULATIVE	Numeric		10	2	Specifies whether this result is for a subbasin discharge or a cumulative discharge. Enter 1 for cumulative or 0 for subbasin discharge.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_HYDROPARAM

The L_HYDROPARAM table is a lookup table used to store node parameters. It is required when equations are used in the modeling process. L_HYDROPARAM is delivered to contractors pre-populated, containing pre-defined codes for the standard paramaters. These values may be expanded based on user need. In such cases, notification of those changes should be communicated to the NCFMP.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
PARAMID	Text	25			Primary key defined by sequential numbers.	Yes	Yes	
SHORTNAME	Text	50			Name of parameter, i.e. "DA SQMI", etc..., used in equation.	Yes		
DESCRIPT	Text	254			Details about this parameter, i.e. "Drainage area in square miles", etc...	No		
UNITTYPE	Text	10			Type of unit. Used to specify the domain table that the UnitID field should reference. Values are Time, Length, Velocity, Volume, Area and None. For example, if it is Area the user would reference the D_AREA_UNITS domain for the corresponding coded value to apply in the UNITID field.	Yes		
UNITID	Long				Foreign key to corresponding units domain table, i.e. 1050 (SQUARE MILES) from D_AREA_UNITS.	No		

L_HYDRORESULT								
A table that identifies one or more flooding events associated with a node in the S_HYDRONODE table. This table is required for all types of hydrologic analyses.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
RESULTID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
HYDROID	Text	25			Hydrologic Model Identification. A code that provides a link to the hydrologic model feature class, S_HYDROMODEL.	Yes		
NODEID	Text	25			Foreign key to S_HYDRONODE.	Yes		
BASINID	Text	25			Foreign key to S_HYDROBASIN.	No		
HYDEQID	Text	25			A reference to L_HYDROEQUATION.	No		
EVENTID	Text	25			Foreign key to L_EVENT.	Yes		
CUMULATIVE	Long				Specifies whether this result is for a subbasin discharge or a cumulative discharge. Enter 1 for cumulative or 0 for subbasin discharge.	Yes		
DISCHARGE	Numeric		10	1	Final calculated discharge.	Yes		
DISCH_LID	Text	5			Discharge Unit Lookup Identification.	Yes		D_DISCHARGE_UNITS
IS_SUMQLOC	Integer				Is this result listed in the summary of discharge table? 0 = False, 1 = True.	Yes		
WSEL	Numeric		10	2	Water Surface Elevation. Water-surface elevation at the node for the flood event described in the EVENT_TYP field. This field is populated when cross sections are not utilized in the engineering analysis.	No		
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS

WEQDESC	Text	255			Adjustment factor used in gage weighting.	No		
WEQ	Numeric		10	1	Weighted discharge.	No		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_HYDROSTORMCURVE								
A table used for describing precipitation data used in the hydrologic analysis. This table is required if utilized for rainfall runoff model parameterization.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
CURVEID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
STORMID	Text	25			Storm Identification. A code that provides a link to a valid entry from the L_HYDROSTORMINFO table.	Yes		
EVENTID	Text	25			Foreign key to L_EVENT.	No		
DURATION	Text	11			Duration. Duration of precipitation event. The duration is that of a design or historical storm, or of a point on a DDF or IDF curve.	Yes		
TIME_LID	Text	5			Duration Unit Lookup Identification. A code that provides a link to a valid entry from D_TIME_UNITS.	Yes		D_TIME_UNITS
DEPTH	Numeric		7	2	Precipitation Depth. This field is populated only if entering data for a DDF curve.	No		
LEN_LID	Text	5			Precipitation depth unit lookup identification.	No		D_LENGTH_UNITS
INTENSITY	Numeric		7	2	Rainfall intensity. This field is populated only if entering data for an IDF curve.	No		
VEL_LID	Text	5			Rainfall Intensity Unit Lookup Identification. A code that provides a link to a valid entry from the D_VELOCITY_UNITS table.	No		D_VELOCITY_UNITS

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_HYDROSTORMINFO								
A table used for describing precipitation distributions used in the hydrologic analysis. This table is required if utilized for rainfall runoff model parameterization.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
STORMID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
BASINID	Text	25			Foreign key to S_HYDROBASIN.	Yes		
STORM_LID	Text	5			Storm Type Lookup Identification. A code that provides a link to a valid entry from the D_STORMS table.	Yes		D_STORMS
STORM_DESC	Text	254			Storm Description. Brief text description/note for the storm.	No		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_HYDRO_TERRAIN_GROUPS								
The L_HYDRO_TERRAIN_GROUPS table relates the S_HYDROMODEL feature class to the S_TERRAINGROUP feature class to allow for a hydrologic model to have many terrain sources.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
HYDROTERID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
HYDROID	Text	25			Foreign key to S_HYDROMODEL.	Yes		
TERRAGRPID	Text	25			Foreign key to S_TERRAINGROUP.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_SUMMARY_ELEVATIONS								
The L_SUMMARY_ELEVATIONS table is required when a Summary of Non-Coastal Stillwater Elevations table is included in the FIS report. This table stores the static elevation information for water bodies including lakes, reservoirs, and ponds. This table contains information only for those water area features that will be included in the Summary of Non-Coastal Stillwater Elevations table in the FIS report.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
RESULTID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
HYDROID	Text	25			Hydrologic Model Identification. A code that provides a link to the hydrologic model feature class, S_HYDROMODEL.	Yes		
NODEID	Text	25			Foreign key to S_HYDRONODE.	Yes		
EVENTID	Text	25			Foreign key to L_EVENT.	Yes		
WSEL	Numeric		10	2	Water Surface Elevation. Water-surface elevation at the node for the flood event as described by EVENTID. This field is populated when cross sections are not utilized in the engineering analysis.	No		
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_SUMMARY_ELEV_FOOTNOTES								
The L_SUMMARY_ELEV_FOOTNOTES table relates the L_SUMMARY_ELEVATIONS table to the L_FOOTNOTES table to provide result specific footnotes to FIS table outputs.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
SMELFTNTID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
RESULTID	Text	25			Foreign key to L_SUMMARY_ELEVATIONS.	Yes		
FOOTNOTEID	Text	25			Foreign key to L_FOOTNOTES.	Yes		
FIS_COLUMN	Text	5			Specifies the column in the FIS to which the footnote applies.	Yes		D_SUMELEVFOOTNOTE_COLUMN

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_HUC								
This spatial file contains the Hydrologic Unit Codes (HUCs) for the flood risk project flood risk project area. This layer is static and will be maintained by the NCFMP and will not require contractor submittal.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
HUC_ID	Text	25			Primary key for table lookup. Assigned by table creator.	Yes	Yes	
HUC_CODE	Text	8			Unique hydrologic unit based on USGS levels of classification in the hydrologic unit system.	Yes		
HUC_NAME	Text	254			The primary name of the hydrologic unit.	Yes		
DESCRIPT	Text	254			Hydrologic unit code description. This is used to populate the Description of Affected Area in the FIS Basin Description table.	Yes		
DA	Numeric		10	2	Drainage Area.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

S_HYDROBASIN								
A polygon feature class that identifies the model(s) and hydrologic result file(s) related to a particular model's outfall. This table is required for all types of hydrologic analyses.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
BASINID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
HYDROID	Text	25			Hydrologic Model Identification. A code that provides a link to the hydrologic model feature class, S_HYDROMODEL.	Yes		
NODEID	Text	25			Foreign key to S_HYDRONODE.	Yes		
WTR_NM_LID	Text	25			The primary flooding source within the sub basin. Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
BASINNAME	Text	100			An alpha-numeric name. Must be unique across a watershed.	Yes		
COMMENTS	Text	254			General comments or notes.	No		
BASIN_DESC	Text	254			Subbasin description.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_HYDROGAGE								
A point feature class that is used to locate precipitation and flow gages. This feature class is required if it is utilized for calibration, regression, or frequency analysis.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
GAGEID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
HYDROID	Text	25			Hydrologic Model Identification. A code that provides a link to the hydrologic model feature class, S_HYDROMODEL.	Yes		
WTR_NM_LID	Text	25			Surface Water Feature Name from S_WTR_NM. This is the formal name of the surface water feature associated with the stream gage. Doesn't apply to precipitation gages.	Yes		
GAGENAME	Text	100			An alpha-numeric name.	Yes		
GAGE_LID	Text	5			Gage Type Lookup Identification.	Yes		D_GAGE
GAGEDESC	Text	254			Information describing the location of the gage (i.e. Black River at I-95). This is used to populate the Site Name in the FIS Gage Information table.	Yes		
REC_INTVL	Text	11			Recording Interval. Recording interval for the gage.	Yes		
START_PD	Date/Time				Start Period. This value is the start of the earliest period of record used in the gage analysis.	Yes		
END_PD	Date/Time				End Period. This value is the end of the latest period of record used in the gage analysis.	Yes		

TIMEFNAME	Text	254			File name of database file with time series data. File should be stored in the FILE_L_HYDROMODEL folder for this watershed.	No		
TIME_LID	Text	5			Recording Interval Time Unit Lookup Identification. A code that provides a link to a valid entry from D_TIME_UNITS.	Yes		D_TIME_UNITS
DA	Numeric		10	2	Gage Drainage Area.	Yes		
AREA_LID	Text	5			Units of area measure. A code that provides a link to an entry from D_AREA_UNITS.	Yes		D_AREA_UNITS
AGENCY	Text	150			Name of agency maintaining the gage.	Yes		
GAGEOWN_ID	Text	25			Gage Identification. Assigned by the agency maintaining the gage.	Yes		
DTA_ACCESS	Text	254			Data Access Information. URL for finding gage data, if available.	No		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_HYDROIMPERVIOUS								
A polygon feature class of impervious areas. This feature class is required if utilized for model parameterization.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
IMPID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
HYDROID	Text	25			Hydrologic Model Identification. A code that provides a link to the hydrologic model feature class, S_HYDROMODEL.	Yes		
IMPERVPERC	Numeric		8	2	Percent of impervious areas in the polygon.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_HYDROLANDUSE								
A polygon feature class of land-use classifications. This feature class is required if utilized for model parameterization.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
LUID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
HYDROID	Text	25			Hydrologic Model Identification. A code that provides a link to the hydrologic model feature class, S_HYDROMODEL.	Yes		
LUTYPE	Text	50			Alpha-numeric name or abbreviation used to ID this land use type (i.e. Industrial, Residential Half-Acre, R4, etc.).	Yes		
LUDESC	Text	100			Detailed description of this land use.	No		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_HYDROLINK								
A linear feature class that is used as the base for delineation of basin boundaries and identification of discharge locations. This feature class is required for all types of hydrologic analysis.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
LINKID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
HYDROID	Text	25			Hydrologic Model Identification. A code that provides a link to the hydrologic model feature class, S_HYDROMODEL.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
LINKNAME	Text	254			An optional identification string for each reach. If used, LinkName must be unique across a watershed.	No		
UPNODEID	Text	25			Foreign key to S_HYDRONODE. The upstream node of a link.	No		
DOWNNODEID	Text	25			Foreign key to S_HYDRONODE. The downstream node of a link.	No		
ROUTE_METH	Text	254			Hydrologic Routing Method. This is the hydrologic routing method used for the reach. This field is populated if hydrologic routing is used for the reach.	No		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_HYDROMODEL								
A polygon feature class that identifies the model(s) and hydrologic result file(s) related to a particular model's outfall. S_HYDROMODEL is represented by the sub basin extent used for the hydrologic analysis. The geometric extent of this feature class should encompass all associated hydrologic entities. This feature class is required for all types of hydrologic analyses.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
HYDROID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
MDL_GRP_ID	Text	25			Foreign key to S_MODEL_GROUP.	Yes		
CNGROUPID	Text	25			Foreign key to L_HYDROCNGROUP. Used to identify a set of curve numbers.	No		
HYDRO_LID	Text	5			Model type lookup identification.	Yes		D_HYDRO
ISNEW	Integer				Specifies whether this is a new model or modification/reference of an existing model. 0 = False, 1 = True.	Yes		
DESCRIPT	Text	254			Model description.	Yes		
RPTNAME	Text	254			File name of the design hydrology report.	Yes		
METHDT	Date/Time				Final model or analysis date.	Yes		
ZIPNAME	Text	254			File name of a compressed hydrologic model, including inputs and outputs.	No		
TASK_TYP	Text	5			Data Development Task Type. This is the type of data development task which is represented by the polygonal footprint.	Yes		D_TASK_TYP
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_HYDRONODE								
A point feature class that is required for all types of hydrologic analyses.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
NODEID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
HYDROID	Text	25			Hydrologic Model Identification. A code that provides a link to the hydrologic model feature class, S_HYDROMODEL.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
NODENAME	Text	254			Model identification or descriptive name for this node. Must be unique across a watershed.	Yes		
NODE_TYP	Text	5			Node Type. Values include junction (default), structure, outlet, and diversion. This field if required when the node is utilized in the hydraulic model. Acceptable values for this field are listed in the D_NODE_TYP table.	No		D_NODE_TYP

NODE_DESC	Text	100			Node Location Description. This describes the location of the node. Must match what is used in the model and must be unique across a watershed. This is used to populate the Location fields in the Summary of Discharges table and Summary of Stillwater Elevations tables in the FIS. Examples of this value include "Downstream of State Route 234", "At the confluence of Hillton Run", and "Approximately 1.08 miles upstream of confluence with McIntosh Run."	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

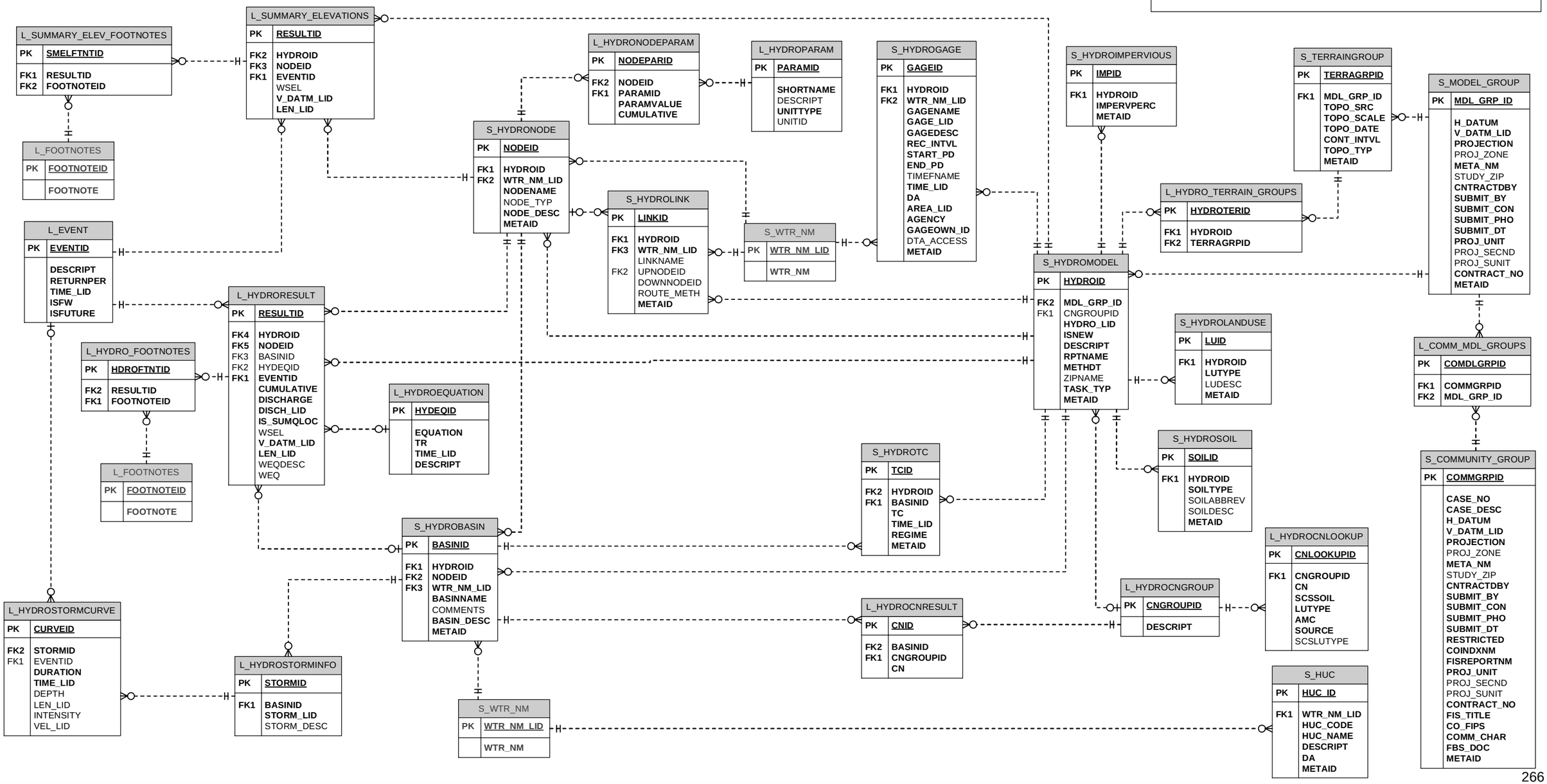
S_HYDROSOIL								
A polygon feature class of soil types. This feature class is required if utilized for model parameterization.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
SOILID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
HYDROID	Text	25			Hydrologic Model Identification. A code that provides a link to the hydrologic model feature class, S_HYDROMODEL.	Yes		
SOILTYPE	Text	20			Soil Type (dependent on classification system utilized –to be referenced in metadata).	Yes		
SOILABBREV	Text	20			Abbreviation (i.e. Ch, Wg, Chcr).	No		
SOILDESC	Text	100			Example: "Watauga Silty Clay Loam".	No		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_HYDROTC								
A linear feature class that represents Time of Concentration flowpaths. This feature class is required if utilized for rainfall runoff model parameterization.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
TCID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
HYDROID	Text	25			Hydrologic Model Identification. A code that provides a link to the hydrologic model feature class, S_HYDROMODEL.	Yes		
BASINID	Text	25			Foreign key to S_HYDROBASIN.	Yes		
TC	Numeric		9	3	Time of Concentration (time is by segment, not total for a basin).	Yes		
TIME_LID	Text	5			Time units.	Yes		D_TIME_UNITS
REGIME	Text	10			Flow regime (Channel, Swale, Lake, Overland, Pipe, etc.).	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

HYDROLOGY
Geodatabase Tables and Spatial Files



HYDRAULICS

ENGINEERING

L_AFFECTED_COMMUNITIES								
The L_AFFECTED_COMMUNITIES is used to populate the Affected Communities portion of the "Flooding Sources Studied by" methods table in the FIS. This table relates Communities (CID) to their associated S_HYDRAMODEL (HYDRAID) or S_CSTMODEL (CST_MDL_ID). It is created by 1) intersecting the S_FLD_HAZ_AR with the S_POL_AR, 2) concatenating CID & HYDRAID into a single field and summarizing to remove duplicate entries. Contractors will populate this table for the extents of their contracted studies. This table is required.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
AFFCTCIDID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
CID	Text	6			Community Identification Number. This is the six-digit community identification number assigned by FEMA.	Yes		D_CID
HYDRAID	Text	25			Hydraulic Model Identification. A code that provides a link to the hydraulic model feature class, S_HYDRAMODEL.	No		
CST_MDL_ID	Text	25			Foreign key to S_CSTMODEL table.	No		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_EFFECTIVE_WTRNMS								
A lookup table that contains and tracks regulatory stream names as referenced from the hardcopy DFIRM's and corresponding PGDB water name table (MAPLWTRNM), prior to the implementation of D^2E and the S_WTR_NM feature class. L_EFFECTIVE_WTRNMS is for informational purposes only and is maintained by the NCFMP and not required for contractor submittals.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
EFFWTRNMID	Text	25			Primary key. Unique number defined by the NCFMP.	Yes	Yes	
WTR_NM_LID	Text	25			Foreign key link to S_WTR_NM.	Yes		
EFF_WTR_NM	Text	254			Regulatory stream name as referenced from pre-DDE hardcopy DFIRMs where the name differs from what is recorded in S_WTR_NM.	Yes		
CO_FIPS	Text	5			County FIPS Code. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS

L_EVENT								
A table defining a list of modeled floods. This table is required for all types of coastal, hydraulic and hydrologic analyses. L_EVENT is delivered to contractors pre-populated, containing pre-defined codes for the EVENTIDs. Contractors should adhere to these pre-defined codes for their analyses. L_EVENT can be expanded to capture modeled events that aren't a part of the standardized list. In such cases, notification of those changes should be communicated to the NCFMP.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
EVENTID	Text	25			Primary key defined by sequential numbers.	Yes	Yes	
DESCRIPT	Text	100			Brief description of flood event (i.e. 10-year or Hurricane Hugo).	Yes		
RETURNPER	Numeric		7	1	The recurrence interval of the event in years (i.e. 10, 27, 100).	Yes		
TIME_LID	Text	5			Duration Unit Lookup Identification. A code that provides a link to a valid entry from D_TIME_UNITS.	Yes		D_TIME_UNITS
ISFW	Integer				Identifies a floodway simulation? 0 = False, 1 = True.	Yes		
ISFUTURE	Integer				Identifies a future conditions simulation? 0 = False, 1 = True.	Yes		

L_FOOTNOTES								
L_FOOTNOTES is a table that provides a listing of footnotes that report specific conditions to be applied to results within tables in the FIS.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
FOOTNOTEID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
FOOTNOTE	Text	4000			Footnote to be applied to specific results in the FIS.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_HYDRA_FOOTNOTES								
The L_HYDRA_FOOTNOTES table relates the L_HYDRAFLOODRESULT table to the L_FOOTNOTES table to provide result specific footnotes to FIS table outputs.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
HDRAFTNTID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
RESULTID	Text	25			Foreign key to L_HYDRAFLOODRESULT.	Yes		
FOOTNOTEID	Text	25			Foreign key to L_FOOTNOTES.	Yes		
FIS_COLUMN	Text	5			Specifies the column in the FIS to which the footnote applies.	Yes		D_HYDRAFOOTNOTE_COLUMN

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_HYDRAFLOODRESULT								
A table used to store one or more flood elevations and discharges per cross section. This table is required for all types of hydraulic analyses.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
RESULTID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
XSECTID	Text	25			Foreign key to S_HYDRACROSSSECTION.	Yes		
EVENTID	Text	25			Foreign key to L_EVENT.	Yes		
WSEL	Numeric		10	2	Water surface elevation with backwater, otherwise CALC_WO_BW is true (1). All water surface elevations within this field should be rounded to the tenth of a foot using the absolute rounding method. Within ESRI products, users can achieve the appropriate rounding by employing the formatnumber VB method within the field calculator. E.g., formatnumber([WSEL],1).	Yes		
CALC_WO_BW	Integer				Calculated Without Backwater Effects Note. This indicates whether the elevations listed for this cross section are calculated without backwater effects. This is used to add a footnote to the Floodway Data Table. 0 = False, 1 = True.	Yes		

IS_CP	Integer				Water surface elevation reflects combined probability (CP) calculations? 0 = False, 1 = True. If True, combined probability spreadsheets should be zipped with the hydraulic model.	Yes		
EGELEV	Numeric		10	2	Energy grade elevation at the cross section.	No		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
DISCHARGE	Numeric		10	1	Discharge.	Yes		
DISCH_LID	Text	5			Discharge Unit Lookup Identification.	Yes		D_DISCHARGE_UNITS
XS_AREA	Numeric		12	2	Underwater cross section area used in floodway data table.	No		
AREA_LID	Text	5			Units of area measure.	No		D_AREA_UNITS
VELOCITY	Numeric		10	2	Mean velocity, used in the floodway data table.	No		
VEL_LID	Text	5			Velocity Unit Lookup Identification.	No		D_VELOCITY_UNITS
CLSTATION	Numeric		10	2	Centerline station of cross section.	No		
STAWSLFT	Numeric		10	2	Left station where water intersects the ground.	No		
STAWSRGT	Numeric		10	2	Right station where water intersects the ground.	No		
TOP_WIDTH	Numeric		11	2	Top Width. Width of the floodway at this cross section as shown in the Floodway Data table in the FIS.	No		
ENCSTAL	Numeric		10	2	Left station of encroachment.	No		
ENCSTAR	Numeric		10	2	Right station of encroachment.	No		
NE_WIDTH_L	Numeric		10	2	Non-Encroachment Zone Width, Left Side. This is the width of the non-encroachment zone at this cross section as shown in the Non -Encroachment Zone Data table. This field is populated when a non-encroachment zone is defined.	No		

NE_WIDTH_R	Numeric		10	2	Non-Encroachment Zone Width, Right Side. This is the width of the non-encroachment zone at this cross section as shown in the Non -Encroachment Zone Data table. This field is populated when a non-encroachment zone is defined.	No		
LEVEE_TF	Integer				Cross Section is Associated with Levee(s)? 0 = False, 1 = True.	Yes		
LVSCENARIO	Text	5			Cross Section Levee Scenario. This field describes the modeled levee scenario. Acceptable values for this field are listed in D_LEVSCENARIO.	No		D_LEVSCENARIO
WSEL_LEV_R	Numeric		10	2	Regulatory Water Surface Elevation for the 1-Percent-Annual Chance Flood Event for the Right Levee. If there are two levees on the stream and both are de-accredited, this is the regulatory water-surface elevation landward of the right levee for the 1-percent-annual-chance flood at the cross section. The calculated value includes backwater. This field is populated when the cross section is associated with de-accredited levees on the left and right banks.	No		

WSEL_LEV_L	Numeric		10	2	Regulatory Water Surface Elevation for the 1-Percent-Annual Chance Flood Event for the Left Levee. If there are two levees on the stream and both are de-accredited, this is the regulatory water-surface elevation landward of the left levee for the 1-percent-annual-chance flood at the cross section. The calculated value includes backwater. This field is populated when the cross section is associated with de-accredited levees on the left and right banks.	No		
FREEBRD_LL	Numeric		10	2	Freeboard Value of the Left Levee. The freeboard value above the 1-PCT Annual Chance Flood water-surface elevation at the cross section. This field is only required if and when the data can be exported from RASPLOT in Appendix L format.	No		
FREEBRD_RL	Numeric		10	2	Freeboard Value of the Right Levee. The freeboard value above the 1-percent-annual-chance elevation at the cross section. This field is only required if and when the data can be exported from RASPLOT in Appendix L format.	No		
ISCNTRLDBY	Text	254			If WSEL is controlled by another source, list that source here. Controlling water name only.	No		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_HYDRAXSPT								
A table used to store intermediate terrain profiles. This table is required for any modeling approaches that do not store 3-D cross section geometries explicitly in the model inputs.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
XSPTID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
XSECTID	Text	25			Foreign key to S_HYDRACROSSSECTION.	Yes		
POINTNUM	Long				Useful for ordering points when there is a vertical step. Integer values ordered from left to right looking downstream.	Yes		
STATION	Numeric		10	2	Distance from start of section to profile point. Integer values ordered from left to right looking downstream.	Yes		
ELEV	Numeric		10	2	Elevation.	Yes		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
XSPTSRC	Text	45			Cross-section point type. Was the point derived from LIDAR, survey, etc.	No		
EASTING	Numeric		14	2	X-coordinate.	Yes		
NORTHING	Numeric		14	2	Y-coordinate.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_HYDRA_TERRAIN_GROUPS								
The L_HYDRA_TERRAIN_GROUPS table relates the S_HYDRAMODEL feature class to the S_TERRAINGROUP feature class to allow for a hydraulic model to have many terrain sources.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
HYDRATERID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
HYDRAID	Text	25			Foreign key to S_HYDRAMODEL.	Yes		
TERRAGRPID	Text	25			Foreign key to S_TERRAINGROUP.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_LEGACY_PROFILE								
A lookup table linking legacy FIS profiles to S_HYDRAMODEL's where WSEL rasters are not available. This is required for all projects without WSEL rasters.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
PROFILE_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
HYDRAID	Text	25			Foreign key to S_HYDRAMODEL.	Yes		
PROFILENAME	Text	254			File name of the profile in PDF format.	Yes		
DESCRIPT	Text	254			Profile description.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_PROFIL_BKWTR_EL								
The L_ PROFIL_BACKWTR_EL table is required when appropriate WSEL Rasters are not able to be produced and an updated profile graph is needed. This table stores the backwater elevations for each flood frequency by stream.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
PROF_BW_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
HYDRAID	Text	25			Hydraulic Model Identification. A code that provides a link to the hydraulic model feature class, S_HYDRAMODEL.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
EVENTID	Text	25			Foreign key to L_EVENT.	Yes		
BKWTR_WSEL	Numeric		10	2	Backwater Water-Surface Elevation. This is the backwater water-surface elevation for the flood event specified in the EVENT field. This value is used in the FDTs and profiles.	No		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_PROFIL_LABEL								
The L_ PROFIL_LABEL table is required when appropriate WSEL Rasters are not able to be produced and an updated profile graph is needed. The table is required when that stream profile in the FIS text includes user-defined landmark labels that are not associated with specific cross sections or structures. This table stores the labels needed for FIS profiles by stream.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
PROFLBL_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
HYDRAID	Text	25			Hydraulic Model Identification. A code that provides a link to the hydraulic model feature class, S_HYDRAMODEL.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
STREAM_STN	Numeric		10	2	Distance from the reference point along the stream.	Yes		
WSEL	Numeric		10	2	Water surface elevation.	Yes		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
PROFTEXT	Text	80			Text. This is the user-defined text that is to be placed in the FIS profile at this location.	Yes		
TEXTDIR	Text	5			Orientation of Text. This is the orientation of the text. Acceptable values for this field are listed in the D_PROF_LBL_ORIENT table.	Yes		D_PROF_LBL_ORIENT

ADJUSTED	Text	5			Adjustment of Text. This provides additional information about the placement of the text. Acceptable values are LEFT, RIGHT, or CENTER for vertical text and TOP, MIDDLE, or BOTTOM for horizontal text. Acceptable values for this field are listed in the D_PROF_LBL_ADJUST table.	Yes		D_PROF_LBL_ADJUST
UNDERLINE	Integer				Is Text Underlined? 0 = False, 1 = True.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_ROUGHNESS_SUMMARY								
L_ROUGHNESS_SUMMARY table contains information on Manning's "n" or “k” roughness coefficients used in the flood risk project to create the FIS Roughness Coefficients table.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
ROUGH_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
HYDRAID	Text	25			Hydraulic Model Identification. A code that provides a link to the hydraulic model feature class, S_HYDRAMODEL.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
LANDCOVER	Text	254			Land Cover. This is a description of the land cover used in the hydraulic analysis. Examples include short grass, boulders, dense brush, etc.	Yes		
CHAN_LOW	Numeric	10	2		Lowest Channel Roughness Coefficient. This is the lowest roughness coefficient for the channel. This is normally a number between 0.01 and 0.2.	Yes		
CHAN_HIGH	Numeric	10	2		Highest Channel Roughness Coefficient. This is the highest roughness coefficient for the channel. This is normally a number between 0.01 and 0.2.	Yes		

OB_LOW	Numeric	10	2		Lowest Overbank Roughness Coefficient. This is the lowest roughness coefficient for the overbank. This is normally a number between 0.01 and 0.2.	Yes		
OB_HIGH	Numeric	10	2		Highest Overbank Roughness Coefficient. This is the highest roughness coefficient for the overbank. This is normally a number between 0.01 and 0.2.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_XS_STRUCT								
The L_ XS_STRUCT table is required when appropriate WSEL Rasters are not able to be produced and an updated profile graph is needed. This table is required when the cross section is associated with a structure (other than a levee) that is shown on the profile. There will be two records per structure in this table – one for the downstream face of the structure and one for the upstream face of the structure. This table stores information needed to plot the structure on the profile.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
XS_STR_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
HYDRAID	Text	25			Hydraulic Model Identification. A code that provides a link to the hydraulic model feature class, S_HYDRAMODEL.	Yes		
XSECTID	Text	25			Foreign key to S_HYDRACROSSSECTION for associated top of road (TOR) and other structure defining cross sections.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
STRUCT_LID	Text	5			Structure Type Lookup Identification.	Yes		D_STRUC_TYP
STRUCT_STN	Numeric		10	2	Structure Station. This is the measurement along the streamline to the face of the structure described in the STRUC_FACE field, as measured from the stream's starting reference point. This value is needed for profiles.	Yes		

STRUC_FACE	Text	5			Structure Face. This is the face of the structure, for example UPSTREAM or DOWNSTREAM. Acceptable values for this field are listed in the D_STRUCT_FACE table.	Yes		D_STRUCT_FACE
LO_CHRD_EL	Numeric		10	2	Low-chord Elevation at the Face of the Structure. For bridges, this is the structure bottom of the deck or beam elevation at the face of the bridge. It is at the same location when measured vertically from the ground point with the lowest streambed.	Yes		
HI_CHRD_EL	Numeric		10	2	High-chord Elevation at the Face of the Structure. This is the structure top of the deck or rail elevation at the face of the bridge, culvert, or inline weir. It is at the same location when measured vertically from the ground point with the lowest streambed.	Yes		
STRMBED_EL	Numeric		10	2	Streambed Elevation. This is the water-surface elevation for the thalweg or the lowest point in the main channel. For culverts, this is the invert elevation. This value is used in the profiles.	Yes		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_ALLUVIAL_FAN								
This table is required when the modeling includes alluvial fans. Only the 1-percent-annual-chance flood is mapped for alluvial fans. The alluvial fan could be mapped as: Zone AO areas with depths and velocities; Zone AO areas with just depths; or as Zone A, AE, or X. This information is needed for the Summary of Alluvial Fan Analyses and Results of Alluvial Fan Analyses tables in the FIS report. The spatial entities representing the alluvial fans are polygons.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
ALLUVL_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
HYDRAID	Text	25			Hydraulic Model Identification. A code that provides a link to the hydraulic model feature class, S_HYDRAMODEL.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
ACTIVE_FAN	Integer				Active Fan Designation. This value specifies if the alluvial fan is currently active. This field will be true when the alluvial fan is active. It should be false when the fan is inactive. 0 = False, 1 = True.	Yes		
FANAPEX_DA	Numeric		10	2	Drainage Area at Fan Apex.	Yes		
AREA_LID	Text	5			Units of Alluvial Fan Drainage Area. This unit indicates the measurement system used for drainage area. This would normally be in square miles. Acceptable values for this field are listed in D_AREA_UNITS table.	Yes		D_AREA_UNITS

FAN_VEL_MN	Numeric		10	2	Alluvial Fan Minimum Velocity. This value represents the minimum velocity of the 1-percent-annual-chance flood flow in this area, if there is a velocity range specified. If there is only one velocity listed, it must be entered here. This field is populated when the FAN program is used for analysis.	No		
FAN_VEL_MX	Numeric		10	2	Alluvial Fan Maximum Velocity. This value represents the maximum velocity of the 1-percent-annual-chance flood flow in this area, if there is a velocity range specified. This field is populated when the FAN program is used for analysis.	No		
VEL_LID	Text	5			Velocity Unit. This is the unit of measurement for the velocity for the 1-percent-annual-chance flood. This field is populated when the VELOCITY field is populated. Acceptable values for this field are listed in the D_VELOCITY_UNITS table.	No		D_VELOCITY_UNITS
DEPTH	Numeric		10	2	Depth. This is the depth for the 1-percent-annual-chance flood for Zone AO areas. This field is populated if the hydraulic analysis determines a depth for the AO zone.	No		
LEN_LID	Text	5			Depth Units. This unit indicates the measurement system used for depths. This field is populated when the DEPTH field is populated. Acceptable values for this field are listed in the D_LENGTH_UNITS table.	No		D_LENGTH_UNITS

ZONE_LID	Text	5			Flood Zone. This is the flood zone designation for the alluvial fan. These zones are used by FEMA to designate the SFHAs and for insurance rating purposes. NOTE: The symbol '%' is a reserved symbol in most software packages so the word 'percent' was abbreviated to 'PCT'. Acceptable values for this field are listed in the D_ZONE table.	Yes		D_ZONE
METH_DESC	Text	254			Description of Methodology Used In Alluvial Fan analysis. Used in Results of Alluvial Fan Analyses section of FIS report.	No		
FANAPEX_Q	Numeric		10	2	1% Annual Chance Peak Flow at fan apex.	Yes		
DISCH_LID	Text	5			Discharge Unit Lookup Identification.	Yes		D_DISCHARGE_UNITS
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective*

S_FLD_HAZ_AR								
A polygon feature class that contains information about flood hazards. This feature class is required if there are flood hazards present within the study area.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
FLD_AR_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
HYDRAID	Text	25			Hydraulic Model Identification. A code that provides a link to the hydraulic model feature class, S_HYDRAMODEL.	Yes		
CST_MDL_ID	Text	25			Foreign key to S_CSTMODEL.	No		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
ZONE_LID	Text	5			Flood Zone Lookup Identification.	Yes		D_ZONE

ZONSUB_LID	Text	5			Flood Zone Subtype. This field captures additional information about the flood zones not related to insurance rating purposes. For example, insurance rate zone Shaded X could be "PROTECTED BY LEVEE" or "0.2 PCT ANNUAL CHANCE FLOOD HAZARD CONTAINED IN STRUCTURE." Types of floodways are also stored in this field. Normal floodway areas are specified as 'FLOODWAY.' Special cases will have a more specific term for the designation (such as COLORADO RIVER) and will appear as a note on the hardcopy FIRM. Acceptable values for this field are listed in the D_ZONE_SUBTYPE table.	No		D_ZONE_SUBTYPE
STATIC_BFE	Numeric		10	2	Static Base Flood Elevation.	No		
DEPTH	Numeric		10	2	Depth Value for Zone AO Areas. This is shown beneath the zone label on the FIRM.	No		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
VELOCITY	Numeric		10	2	Velocity Measurement. For alluvial fan areas.	No		
VEL_LID	Text	5			Velocity Measurement. For alluvial fan areas.	No		D_VELOCITY_UNITS
SFHA_TF	Integer				Is this a special flood hazard area? 0 = False, 1 = True.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_FLD_HAZ_LN								
A linear feature class that contains information about flood hazards. This feature class is required if there are flood hazards present within the study area.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
FLD_LN_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
HYDRAID	Text	25			Hydraulic Model Identification. A code that provides a link to the hydraulic model feature class, S_HYDRAMODEL.	Yes		
CST_MDL_ID	Text	25			Foreign key to S_CSTMODEL table.	No		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
LN_LID	Text	5			Line Lookup Identification.	Yes		D_LN_TYP
CURREFFTF	Integer				True if line is effective, False if line represents historic boundary that is superseded. 0 = False, 1 = True.	No		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_HYDRABFE

The use of BFE lines is now only required in special cases. S_HYDRABFE is required for any digital data where BFE lines will be shown in the FMIS web viewer, with the exception of areas where a water surface elevation raster is present for the 1% annual chance flood event or a water surface elevation profile is available. For areas where a 1% annual chance water surface elevation raster is present the regulatory water-surface elevation (BFE value) will be accessible within the FMIS web viewer. For areas where a profile exists, the regulatory water-surface elevation (BFE value) will be labeled on the cross sections as stored in the FIRM Database S_HYDRACROSSSECTION feature class and/or found on the legacy PDF profile that will be available for viewing/download. For proper BFE placement criteria see Volume 1 and section 6.3 of FEMA's Guidelines and Specifications Appendix L and Appendix C respectively.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
BFE_LN_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
HYDRAID	Text	25			Hydraulic Model Identification. A code that provides a link to the hydraulic model feature class, S_HYDRAMODEL.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
ELEV	Numeric		10	0	Base Flood Elevation. The rounded, whole foot elevation of the 1-percent-annual-chance flood.	Yes		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_HYDRACROSSSECTION								
A linear feature class that is required for models that utilize cross sections. This feature class is not submitted for two-dimensional models that do not employ cross sections for simulating water surfaces.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
XSECTID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
HYDRAID	Text	25			Hydraulic Model Identification. A code that provides a link to the hydraulic model feature class, S_HYDRAMODEL.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
REFPTID	Text	25			Foreign key to S_REFPOINT.	Yes		
STREAM_STN	Numeric		14	2	Distance from the reference point along the stream.	Yes		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
XSNAME	Text	100			Cross section name.	Yes		
XS_LTR	Text	10			Cross section letter or number shown on FIRM.	No		
XS_LN_TYP	Text	5			Cross section line type. NOTE: In all cases users should populate Top of Road (TOR) cross sections with D_XS_LNTYP code 1020 - NOT LETTERED, MAPPED, NOT MODELED.	Yes		D_XS_LNTYP

CENTERSTAT	Numeric		11	2	The cross section station used in the model that corresponds to the intersection point of the stream and cross section. Integer values ordered from left to right looking downstream.	Yes		
BED_ELEV	Numeric		10	2	Lowest stream bed elevation, from profile.	Yes		
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
DATTYP_LID	Text	5			Cross section or data type lookup identification. A code that provides a link to an entry from D_DATTYP.	Yes		D_DATTYP
PROF_XS_TEXT	Text	80			Profile Cross Section Text. This field stores user-defined cross section text that is plotted on the profile. This field is required when appropriate WSEL Rasters are not able to be produced and an updated profile graph is needed.	No		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_HYDRAFLOWPATH								
A linear feature class that is required for hydraulic models other than HEC-RAS and HEC-2, such as SWMM or ICPR.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
PATHID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
HYDRAID	Text	25			Hydraulic Model Identification. A code that provides a link to the hydraulic model feature class, S_HYDRAMODEL.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
REFPTID	Text	25			Foreign key to S_REFPOINT.	Yes		
PATHNAME	Text	254			Unique alphanumeric identifier (i.e. CC-1).	Yes		
PATHTYPE	Text	5			"Stream", "Structure", "Pipe", "Simple Channel".	Yes		D_PATHTYP
DSSTATION	Numeric		14	2	Distance measured from a prominent location, such as a confluence or county line.	Yes		
USSTATION	Numeric		14	2	Distance measured from a prominent location, such as a confluence or county line.	Yes		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
DOWNNODEID	Text	25			Foreign key to S_HYDRAJUNCTION.	Yes		
UPNODEID	Text	25			Foreign key to S_HYDRAJUNCTION.	Yes		

DSINVERT	Numeric		10	2	Downstream thalweg elevation.	No		
USINVERT	Numeric		10	2	Upstream thalweg elevation.	No		
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
TOPOFFSET	Numeric		5	1	Average difference between the true thalweg and the lowest profile elevation derived from the terrain.	No		
WATER_LID	Text	5			Surface Water Feature Lookup Identification.	Yes		D_WATER_TYP
ROUTE_METH	Text	254			Hydrologic Routing Method. This is the hydrologic routing method used for the reach.	No		
SHOWN_FIRM	Integer				Profile Baseline Shown on FIRM. This field is true only if the centerline is shown on the FIRM. 0 = False, 1 = True.	No		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_HYDRAJUNCTION								
A point feature class that is required for hydraulic models other than HEC-RAS and HEC-2, such as SWMM or ICPR.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
JUNCTIONID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
HYDRAID	Text	25			Hydraulic Model Identification. A code that provides a link to the hydraulic model feature class, S_HYDRAMODEL.	Yes		
JUNCTNAME	Text	50			Unique alphanumeric identifier (i.e. A-201).	Yes		
JUNCTTYPE	Text	5			"Transition", "Manhole", "Curb Inlet", "Slab Inlet", "Junction Box", "Pipe Junction".	Yes		D_JUNCTTYP
INVERT	Numeric		10	2	Lowest elevation at junction.	No		
LEN_LID	Text	5			Units of linear measure. Required if INVERT is populated.	No		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification. Required if INVERT is populated.	No		D_V_DATUM
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_HYDRAMODEL

A polygon feature class that identifies the models used for the floodplain delineation study. This feature class can be constructed by appropriately buffering flood hazards e.g. 100ft buffer, to encompass the full extent of a modeled stream reach, including backwater fingers. Users will cut derived S_HYDRAMODEL polygons by the downstream most cross section from within the S_HYDRACROSSSECTION feature class to indicate the starting point for the associated hydraulic model. For back population, it has been observed that the first redelineated cross section may be located outside of the backwater influence from the mainstem. In these cases it is appropriate to use the BFE line that indicates the extent of backwater from the mainstem as the break for determining the S_HYDRAMODEL extent. Hydraulic features that are associated with the model in question that fall outside the S_HYDRAMODEL polygon extents will be associated by HYDRAID to solidify the data/model relationship. S_HYDRAMODEL polygons should not overlap within a single submittal. This feature class is required for all types of hydraulic analyses.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
HYDRAID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
MDL_GRP_ID	Text	25			Foreign key to S_MODEL_GROUP.	Yes		
HYDROID	Text	25			Hydrologic Model Identification. A code that provides a link to the hydrologic model feature class, S_HYDROMODEL.	Yes		
SURVYGRPID	Text	25			Foreign key link to S_SURVEY_GROUP.	Yes		
HYDRA_LID	Text	5			Model type lookup identification.	Yes		D_HYDRA
DESCRIPT	Text	254			Model description.	Yes		
STUDYTYPE	Text	5			Study type.	Yes		D_STUDY_TYP

TASK_TYP	Text	5			Data Development Task Type. This is the type of data development task which is represented by the polygonal footprint. Acceptable values for this field are listed in the D_TASK_TYP table.	Yes		D_TASK_TYP
ISNETWORK	Integer				Specifies whether this is a network model. 0 = False, 1 = True. An entry of 0 for "False" would indicate that it is a backwater model.	Yes		
ISSECLUDED	Integer				Is this area a levee seclusion zone? 0 = False, 1 = True.	Yes		
ISLOMR	Integer				Is this study a LOMR? 0 = False, 1 = True.	Yes		
LOMR_STAT	Text	5			LOMR status. Valid values from D_STATUS.	No		D_STATUS
LOMRDT	Date/Time				LOMR status date.	No		
MDLDT	Date/Time				Final Model Date.	Yes		
ZIPNAME	Text	254			File name of a compressed hydraulic model, including inputs and outputs. If ISLOMR = 1 (True), LOMR case documents will also be included.	Yes		
RPTNAME	Text	254			File name of the FIS narrative report.	Yes		
START_DESC	Text	254			Start of study limits (downstream) description. This is used to populate the From field in the FIS Flood Flooding Sources Studied tables.	No		
END_DESC	Text	254			End of study limits (upstream) description. This is used to populate the To field in the FIS Flood Flooding Sources Studied tables.	No		
COMMENTS	Text	254			General comments or can be used for footnotes etc…, for FIS summaries.	No		

SPEC_CONS	Text	4000			Special considerations field for describing the modeling methodology used.	No		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_HYDRANVALUE_CHAN								
A polygon feature class required when utilized for calculating the distribution of the roughness coefficients along cross sections. This feature class documents channel roughness coefficients as determined by the engineer during the model creation process.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
CHNVALUEID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
HYDRAID	Text	25			Hydraulic Model Identification. A code that provides a link to the hydraulic model feature class, S_HYDRAMODEL.	Yes		
NVALUE	Numeric		8	3	Manning's n-value. Usually a number between 0.01 and 0.20.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_HYDRANVALUE_OB								
A polygon feature class required when utilized for calculating the distribution of the roughness coefficients along cross sections. This feature class documents overbank roughness coefficients as determined by the engineer during the model creation process.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
OBNVALUEID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
HYDRAID	Text	25			Hydraulic Model Identification. A code that provides a link to the hydraulic model feature class, S_HYDRAMODEL.	Yes		
LANDCOVER	Text	50			A brief description of the land cover (short grass, boulders, dense brush, fine silty clay, etc.).	Yes		
NVALUE	Numeric		8	3	Manning's n-value. Usually a number between 0.01 and 0.20.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_MODEL_GROUP								
A feature class holding essential information about modeling submittals. S_MODEL_GROUP should consist of a polygon that is drawn to encompass all modeling related data i.e., coastal, hydraulics, hydrology and survey data related to the submittal. This table is required for all contractor submittals.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
MDL_GRP_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
H_DATUM	Text	5			Horizontal datum.	Yes		D_HDATUM
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
PROJECTION	Text	5			Map projection.	Yes		D_PROJECTION
PROJ_ZONE	Text	10			Projection zone, e.g. 3200.	No		
META_NM	Text	50			METADATA file name.	Yes		
STUDY_ZIP	Text	254			File name of the zipped file that contains auxiliary data that is relevant to the entire study.	No		
CNTRACTDBY	Text	50			Study Contracted by, e.g. FEMA, NCFMP.	Yes		
SUBMIT_BY	Text	5			Company name of Mapping Partner who is submitting this dataset.	Yes		D_CONTRACTOR
SUBMIT_CON	Text	100			Contact person for this submittal.	Yes		
SUBMIT_PHO	Text	15			Phone number of Mapping Partner.	Yes		
SUBMIT_DT	Date/Time				Date of submittal.	Yes		
PROJ_UNIT	Text	5			Projection unit.	Yes		D_PROJ_UNIT
PROJ_SECND	Text	5			Secondary projection.	No		D_PROJECTION
PROJ_SUNIT	Text	5			Secondary projection unit.	No		D_PROJ_UNIT
CONTRACT_NO	Text	50			Contract number.	Yes		
DESCRIPT	Text	254			Description of modeled area.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_NONENCROACHMENT_AR								
A polygon feature class that identifies non-encroachment areas for limited detailed studies. This feature class is required for all types of hydraulic analyses.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
NONENCRID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
HYDRAID	Text	25			Foreign key to S_HYDRAMODEL.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_OVRBNKLN								
A linear feature class that contains features representing the overbank flow distances between two adjacent cross sections. This feature class is required for a detailed study that uses overbank flow lengths as input data.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
OVRBNK_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + COFIPS + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD).	Yes	Yes	
HYDRAID	Text	25			Hydraulic Model Identification. A code that provides a link to the hydraulic model feature class, S_HYDRAMODEL.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM table.	Yes		
ONBNK_SIDE	Text	1			"L" or "R", indicates Left or Right when looking downstream.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

S_REFPOINT								
A point feature class that indicates the reference point that was used as the origin for distance measurements along streams and rivers. This feature class is required for all modeled streams.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
REFPTID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
MDL_GRP_ID	Text	25			Foreign key to S_MODEL_GROUP	Yes		
START_DESC	Text	254			Description of the location of the station starting point. For example, "Feet upstream of Mecklenburg County line".	Yes		
LOC_ACC	Text	5			Start Station Locational Accuracy. The spatial placement accuracy level of the stream's starting reference point. For all new models with profile baselines, the exact location of the profile baseline station start should be placed and the locational accuracy be categorized as “HIGH.” For old models where the profile baseline and station start are documented on work maps, the locational accuracy is “MEDIUM.” For areas that only have a text description, the point shall be placed as best possible and the locational accuracy will be attributed as “LOW.” The acceptable values for this field can be found in the D_LOC_ACCURACY table.	Yes		D_LOC_ACCURACY

METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_REVISIONS								
A polygon feature class that identifies changes in floodplain delineations based on new studies. S_REVISIONS facilitates the population of tables 8P, 9P, 10P, and 18P in the Flood Insurance Study Report. This feature class can be constructed from the S_HYDRAMODEL and/or S_CSTMODEL with reference to the Changes Since Last FIRM (S_CSLF_AR) feature class. The objective is to create spatial features that represent areas revised due to new studies where there is S_HYDRAMODEL and/or S_CSTMODEL geometry present (including backwater effects on non-studied streams). S_REVISIONS isn't intended to catalog areas that aren't associated with S_HYDRAMODEL and/or S_CSTMODEL, or areas of change such as ZONE A that is converted to ZONE X. To determine preliminary panels issuance, S_REVISIONS should be paired with S_CSLF_AR. S_REVISIONS polygons should not overlap within a single submittal. This feature class is required for all types of preliminary hydraulic and coastal analyses.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
REVISIONID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
HYDRAID	Text	25			Foreign key to S_HYDRAMODEL.	Yes		
CST_MDL_ID	Text	25			Foreign key to S_CSTMODEL.	Yes		
REV_START	Text	254			Start of revision limits (downstream) description. This is used to populate the From field in the Preliminary FIS Scope of Revisions table. For coastal revsions this would be the revised LIMIT_FROM description.	Yes		
REV_END	Text	254			End of revision limits (upstream) description. This is used to populate the To field in the Preliminary FIS Scope of Revisions table. For coastal revsions this would be the revised LIMIT_TO description.	Yes		
REASON	Text	5			Reason for change to SFHA.	Yes		D_REASON

DESCRIPTION	Text	4000			Description of the revision. It is highly recommended that detailed descriptions be provided when the REASON field contains the 1050 (NCFMP ADJUSTMENT /MODIFICATION) entry.	No		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the Application of Primary Keys for Back Population (Effective Data) section of the Data Inputs section of this dictionary.

S_RIV_MRK								
The S_RIV_MRK table contains information about the River Marks shown on the FIRM if applicable. The spatial entities representing the river marks are points. The points are located along the centerline of rivers at regular intervals. This table is required if the FIRM shows river distance marks.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
RIV_MRK_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
REFPTID	Text	25			Foreign key to S_REFPOINT.	Yes		
RIV_MRK_NO	Text	6			River Mark Number. This attribute usually represents the distance from a known point (identified by REFPTID), such as the confluence with another river, to the current river mark. This is the value shown next to the river mark on the FIRM.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_STREAMCNTRLINE								
A linear feature class that is required for locating all cross-sections and for referencing the data from the hydraulic study.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
STRMLINEID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
HYDRAID	Text	25			Hydraulic Model Identification. A code that provides a link to the hydraulic model feature class, S_HYDRAMODEL.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
WATER_LID	Text	5			Surface Water Feature Lookup Identification.	Yes		D_WATER_TYP
SEGNAME	Text	254			An optional identification string for each reach. If used, this must be unique for a stream.	No		
LEN_LID	Text	5			Length Units. This is the unit of measure for the vertical datum offset distance length.	No		D_LENGTH_UNITS
V_DATM_OFF	Numeric		10	2	Vertical Datum Offset. Populated if a single vertical datum offset cannot be used across the flood risk project and offset values must be calculated stream by stream.	No		
ONINDEX	Integer				Does this feature appear on the Countywide Panel Index? 0 = False, 1 = True.	Yes		

METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_STREAMCNTRLNPT								
A point feature class used to capture the ground elevation for each vertex of S_STREAMCNTRLINE. This feature class is not required.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
STRMLNPTID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
STRMLINEID	Text	25			Foreign key link to S_STREAMCNTRLINE.	Yes		
ELEV	Numeric		10	2	Elevation.	Yes		
LEN_LID	Text	5			Length Units. This is the unit of measure for the vertical datum offset distance length. Acceptable values for the field are listed in the D_LENGTH_UNITS table.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_WTR_AR								
A polygon feature class that contains information about surface water area features. This feature class is required if there are surface water polygons within the county.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
WTR_AR_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
WATER_LID	Text	5			Surface Water Feature Lookup Identification.	Yes		D_WATER_TYP
SHOREYR	Date/Time				Year shoreline represents, if available.	Yes		
NORMPOOL	Numeric		10	2	Normal pool elevation.	No		
LEN_LID	Text	5			Units of linear measure.	No		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	No		D_V_DATUM
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_WTR_NM								
A statewide feature class that contains regulatory stream names referenced throughout the database. S_WTR_NM is maintained by the NCFMP and will be provided to contractors prior to study update activities. Contractors should request water name updates via the NCFMP. The geometric representations within S_WTR_NM are for visual reference only and are not to be used for map representations or modeling purposes.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
WTR_NM_LID	Text	25			Primary key. Unique number defined by the NCFMP.	Yes	Yes	
WTR_NM	Text	100			Regulatory stream name.	Yes		

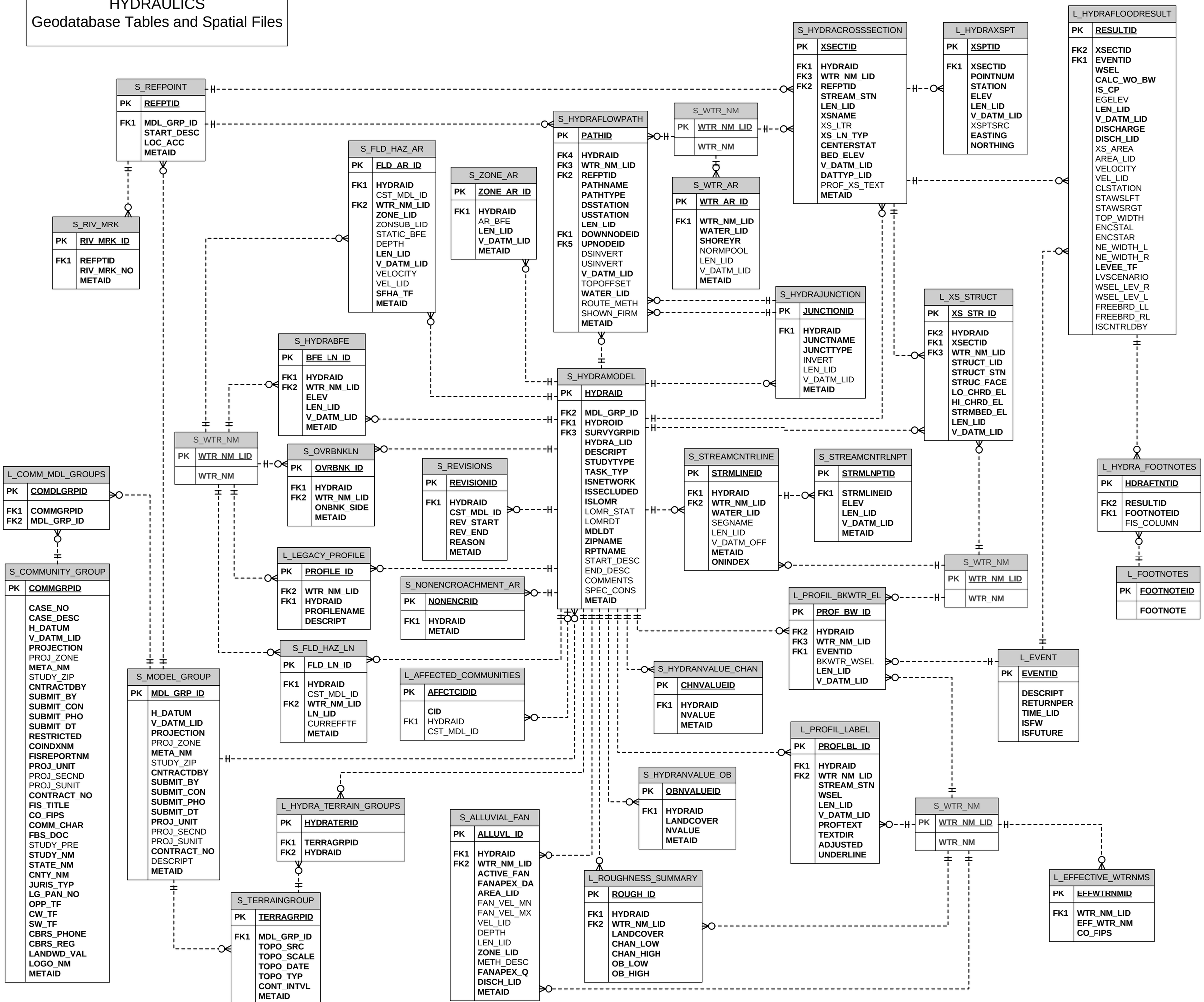
S_ZONE_AR

The S_Zone_AR layer contains information about the areas defined as Zone AR within the flood risk project area. In some cases, the SFHA that was formerly protected from the 1-percent-annual-chance flood event by a flood control system was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1-percent-annual-chance flood event. This layer is required when the flood risk project area contains flood hazards defined as Zone AR. Alternate zone(s) will be shown in S_FLD_HAZ_AR for the area covered by this polygon.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
ZONE_AR_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
HYDRAID	Text	25			Hydraulic Model Identification. A code that provides a link to the hydraulic model feature class, S_HYDRAMODEL.	Yes		
AR_BFE	Numeric		10	2	If Zone is Zone AR, this field would hold the static base flood elevation for the reverted zone.	No		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

HYDRAULICS
Geodatabase Tables and Spatial Files



COASTAL

L_CST_TERRAIN_GROUPS								
The L_CST_TERRAIN_GROUPS table relates the S_CSTMODEL feature class to the S_TERRAINGROUP feature class to allow for a coastal model to have many terrain sources.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
CSTTERID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
CST_MDL_ID	Text	25			Foreign key to S_CSTMODEL.	Yes		
TERRAGRPID	Text	25			Foreign key to S_TERRAINGROUP.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_CST_TSCT_PT_ELEV								
A table containing coastal transect point information utilized in the overland wave hazard modeling effort. This table is required when there is a coastal study within the county.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
TSCTPTELID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
TSCTPT_ID	Text	25			Foreign key to L_CST_TSCTPT.	Yes		
EVENTID	Text	25			Foreign key to L_EVENT.	Yes		
SW_WSEL	Numeric		10	2	Stillwater elevation.	Yes		
SETUP_ELE	Numeric		10	2	Water surface elevation containing wave setup.	Yes		
INCWVPER	Numeric		10	2	Incident wave period (seconds).	Yes		
INCWVHT	Numeric		10	2	Incident wave height.	Yes		
WVCRESTEL	Numeric		10	2	Wave crest elevation.	Yes		
WVRUNUPD	Numeric		10	2	Wave run-up depth.	Yes		
WVRUNUPEL	Numeric		10	2	Wave run-up elevation.	Yes		
GUTTERTF	Integer				Is the point a gutter point? 0 = False, 1 = True.	No		
TIME_LID	Text	5			Recording Interval Time Unit Lookup Identification. A code that provides a link to a valid entry from the D_TIME_UNITS table.	Yes		D_TIME_UNITS
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_CST_TSCT_PT_ELEV_FOOTNOTES								
The L_CST_TSCT_PT_ELEV_FOOTNOTES table relates the L_CST_TSCT_PT_ELEV to the L_FOOTNOTES table to provide result specific footnotes to FIS table outputs.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
TSELFTNTID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
TSCTPTELID	Text	25			Foreign key to L_CST_TSCT_PT_ELEV.	Yes		
FOOTNOTEID	Text	25			Foreign key to L_FOOTNOTES.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_CST_TSCTPT								
A table containing coastal transect point information utilized in the overland wave hazard modeling effort. This table is required when there is a coastal study within the county.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
TSCTPT_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
TRAN_LN_ID	Text	25			Foreign key to S_CSTTSCTLN.	Yes		
POINTNUM	Long				Useful for ordering points when there is a vertical step. Integer values.	Yes		
OBSTRUCTTY	Text	5			Transect point obstruction type. Valid values from D_OBSTRUCTION.	Yes		D_OBSTRUCTION
GROUNDELEV	Numeric		10	2	Ground elevation.	Yes		
STATION	Numeric		10	2	Station along transect from 0.0 feet (positive onshore & negative offshore).	Yes		
EASTING	Numeric		14	2	X-coordinate.	Yes		
NORTHING	Numeric		14	2	Y-coordinate.	Yes		
PROTECSTRUC	Text	5			Protection structures. Valid values from D_STRUC_TYP.	No		D_STRUC_TYP
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
ZONE_LID	Text	5			Flood Zone Lookup Identification.	Yes		D_ZONE

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_SURGE_PARAM								
Parameter values used in surge elevations calculations for coastal modeling.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
SURGPARMID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
CST_MDL_ID	Text	25			Foreign key to S_CSTMODEL.	Yes		
PARAM_LID	Text	5			Surge Parameter.	Yes		D_PARAMS
PARAM_VAL	Integer				Surge Parameter value.	Yes		
PARAM_UNIT	Text	5			Surge parameter unit.	Yes		D_SURGE_PARAM_VALUES
PROBCLASS	Text	5			Probability class.	Yes		D_PROBABILTY_CLASS
PROB	Numeric		10	2	Surge parameter probability value for the specified probability class.	Yes		
RATE	Numeric		10	2	Storm rate value for the specified direction.	No		
RATE_UNIT	Text	5			Storm rate value unit lookup.	No		D_RATE_UNIT

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_TSCTPHOTO								
A relate table containing information about transect photos. This table is required if coastal study is within the county.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
TSCTPHT_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
TSCTSRVYID	Text	25			Foreign key to L_TSCTSURVEY.	Yes		
PHOTO_ID	Text	25			Foreign key to S_PHOTO.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_TSCTRGHNSS								
A table containing field-derived coastal transect point information utilized in the overland wave hazard modeling effort. This table contains ground obstruction attributes for the overland wave hazard analysis. Note that while several records per point are possible, the only time multiple records will be present per point is when Marsh Cards (VH) are present with multiple plan types (MGs). This table is required when there is a coastal study within the county.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
ROUGHID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
STSCTPT_ID	Text	25			Foreign key to S_TSCTSURVPTS.	Yes		
STEMDIAMMID	Numeric		10	2	Average stem diameter of marsh grass (in feet).	Yes		
STEMDIAMTOP	Numeric		10	2	Average stem diameter of marsh grass (in feet).	Yes		
STEMDIAMBOT	Numeric		10	2	Average stem diameter of marsh grass (in feet).	Yes		
OBSTRUCTY	Text	5			Obstruction type. Valid values from D_OBSTRUCTION.	Yes		D_OBSTRUCTION
MATERIAL	Text	5			Land cover material. Grass, marsh, trees.	Yes		D_TSCT_MATERIAL
MARSHTY	Text	5			Marsh type. Valid values from D_MARSHTY.	Yes		D_MARSHTY
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
DRAGCOEFF	Numeric		10	2	Drag coefficient.	Yes		
LEAFSTEM	Numeric		10	2	Ratio of total frontal area of cylindrical part of leaves to frontal part of main stem.	Yes		
PCTCOVER	Numeric		10	2	Percent of area covered by this vegetation type.	Yes		

PLANTSSF	Numeric		10	2	Average number of plants per square foot.	Yes		
VEGCYLDIA	Numeric		10	2	Average diameter of vegetation cylinder (mangrove, trees, shrubs) in feet.	Yes		
VEGHT	Numeric		10	2	Average height of vegetation (in feet).	Yes		
VEGSPACE	Numeric		10	2	Average spacing between plants (in feet).	Yes		
SEACOASTREG1	Text	100			Primary seacoast region.	Yes		
SEACOASTREG2	Text	100			Secondary seacoast region.	No		
SEACOASTWT	Text	100			Seacoast region weighting factor.	No		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_TSCTSKT								
A relate table that is required if coastal study is within the county.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
TSCTSKT_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
TSCTSRVYID	Text	25			Foreign key to L_TSCTSURVEY.	Yes		
SKETCH_ID	Text	25			Foreign key to L_SKETCH.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_TSCTSURVEY								
A table containing field-derived coastal transect information utilized in the overland wave hazard modeling effort. This table catalogues both topographic elevation and roughness/obstruction information for a surveyed transect. The topographic data may or may not be captured at the same time as the roughness/obstruction information, so there may be multiple L_TSCTSURVEY records per transect. This table is required when there is a coastal study within the county.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
TSCTSRVYID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
TRAN_LN_ID	Text	25			Foreign key to S_CSTTSCTLN.	Yes		
TBM_ID	Text	25			Foreign key to S_TBM. Elevation reference point of cross section.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
DATTYP_LID	Text	5			Cross section or data type lookup identification. A code that provides a link to an entry from D_DATTYP.	Yes		D_DATTYP
TSCTMETH	Text	5			Source method used to locate transection. Valid values from D_METHOD.	Yes		D_METHOD
FILENM	Text	254			File name of survey.	Yes		
LOCATION	Text	254			Description of location of transect (Used in transect table in FIS text).	Yes		
ORIENT	Text	5			Direction in which survey shots were taken. Valid values are LANDWARD or SEAWARD.	Yes		D_ORIENT
SURVEYDT	Date/Time				Date of survey.	Yes		

L_TSCTSURVEY								
A table containing field-derived coastal transect information utilized in the overland wave hazard modeling effort. This table catalogues both topographic elevation and roughness/obstruction information for a surveyed transect. The topographic data may or may not be captured at the same time as the roughness/obstruction information, so there may be multiple L_TSCTSURVEY records per transect. This table is required when there is a coastal study within the county.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
TSCTSRVYID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + COFIPS + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD).	Yes	Yes	
TRAN_LN_ID	Text	25			Foreign key to S_CSTTSCTLN.	Yes		
TBM_ID	Text	25			Foreign key to S_TBM. Elevation reference point of cross section.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
DATTYP_LID	Text	5			Cross section or data type lookup identification. A code that provides a link to an entry from D_DATTYP.	Yes		D_DATTYP
TSCTMETH	Text	5			Source method used to locate transection. Valid values from D_METHOD.	Yes		D_METHOD
FILENM	Text	254			File name of survey.	Yes		
LOCATION	Text	254			Description of location of transect (Used in transect table in FIS text).	Yes		
ORIENT	Text	5			Direction in which survey shots were taken. Valid values are LANDWARD or SEAWARD.	Yes		D_ORIENT
SURVEYDT	Date/Time				Date of survey.	Yes		

VEGCYLDIA	Numeric		10	2	Average diameter of vegetation cylinder (mangrove, trees, shrubs) in feet.	Yes		
VEGHT	Numeric		10	2	Average height of vegetation (in feet).	Yes		
VEGSPACE	Numeric		10	2	Average spacing between plants (in feet).	Yes		
SEACOASTREG1	Text	100			Primary seacoast region.	Yes		
SEACOASTREG2	Text	100			Secondary seacoast region.	No		
SEACOASTWT	Text	100			Seacoast region weighting factor.	No		

L_TSCTSKT								
A relate table that is required if coastal study is within the county.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
TSCTSKT_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
TSCTSRVYID	Text	25			Foreign key to L_TSCTSURVEY.	Yes		
SKETCH_ID	Text	25			Foreign key to L_SKETCH.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

L_TSCTSURVEY								
A table containing field-derived coastal transect information utilized in the overland wave hazard modeling effort. This table catalogues both topographic elevation and roughness/obstruction information for a surveyed transect. The topographic data may or may not be captured at the same time as the roughness/obstruction information, so there may be multiple L_TSCTSURVEY records per transect. This table is required when there is a coastal study within the county.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
TSCTSRVYID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
TRAN_LN_ID	Text	25			Foreign key to S_CSTTSCTLN.	Yes		
TBM_ID	Text	25			Foreign key to S_TBM. Elevation reference point of cross section.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
DATTYP_LID	Text	5			Cross section or data type lookup identification. A code that provides a link to an entry from D_DATTYP.	Yes		D_DATTYP
TSCTMETH	Text	5			Source method used to locate transection. Valid values from D_METHOD.	Yes		D_METHOD
FILENM	Text	254			File name of survey.	Yes		
LOCATION	Text	254			Description of location of transect (Used in transect table in FIS text).	Yes		
ORIENT	Text	5			Direction in which survey shots were taken. Valid values are LANDWARD or SEAWARD.	Yes		D_ORIENT
SURVEYDT	Date/Time				Date of survey.	Yes		

SURVEYTIME	Text	10			Survey Time. Time of the survey. This value should be formatted as hh:mm. This field is populated when the time of the survey is available.	Yes		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
PROVIDEDBY	Text	5			Firm or agency providing data.	No		D_CONTRACTOR
COMMENTS	Text	254			General comments or notes.	No		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_CST_GAGE								
A point feature class that contains information about coastal gages for the study area. This feature class is required if there is coastal study in the county.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
CST_GAGE_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
CST_MDL_ID	Text	25			Foreign key to S_CSTMODEL.	Yes		
GAGESRCID	Text	50			Gage number assigned by agency maintaining gage.	Yes		
GAGE_NM	Text	150			Gage name assigned by agency maintaining gage.	Yes		
GAGEDESC	Text	254			Information describing the location of the gage (i.e. Black River at I-95).	Yes		
AGENCY	Text	150			Name of agency maintaining the gage.	Yes		
REC_INTVL	Text	11			Recording Interval. This field is populated only if the coastal gage is a fixed-interval gage.	Yes		
TIME_LID	Text	5			Recording Interval Time Unit Lookup Identification.	Yes		D_TIME_UNITS
START_PD	Date/Time				Gage Record Starting Date. Start of earliest period of record used in gage analysis.	Yes		
END_PD	Date/Time				Gage Record Ending Date. End of latest period of record used in gage analysis.	Yes		
GAGE_LID	Text	5			Gage Type Lookup Identification.	Yes		D_GAGE
WVDIR_TF	Integer				Does the gage record wave direction True or False? 0 = False, 1 = True.	Yes		
WDSPD_TF	Integer				Does the gage record wind speed True or False? 0 = False, 1 = True.	Yes		

WDDIR_TF	Integer				Does the gage record wind direction True or False? 0 = False, 1 = True.	Yes		
START_TIME	Text	10			Gage Record Starting Time. This is the time for the start of the earliest period of record used in gage analysis. This value should be formatted as hh:mm. This field is populated when the starting time is available.	No		
END_TIME	Text	10			Gage Record Ending Date. This is the time for the end of the latest period of record used in gage analysis. This value should be formatted as hh:mm. This field is populated when the end time is available.	No		
DATUM_CONV	Numeric		10	2	Vertical Datum Conversion. This is the value used to convert from the gage datum (such as MLLW and MSL) to NAVD88. This value may be a decimal number. This field is populated when there is a vertical datum conversion between the gage data datum and NAVD88.	No		
TIDE_TF	Integer				Record Tide Elevations. Does the gage record tide elevations? 0 = False, 1 = True.	Yes		
TIDE_EPOCH	Text	11			Tidal Epoch. This field stores the date range for the tidal epoch; for example, “1983-2001.” This field is populated when the tide gage information is available.	No		

TIDE_VBM	Text	11			Tide Benchmark Vertical Marker. This is the NOAA, NGS or community-assigned permanent benchmark identifier. The identifier must be unique for each benchmark.	No		
WVSPEC_TF	Integer				Record Wave Spectra. Does the gage record wave spectra? 0 = False, 1 = True.	Yes		
WDSTN_HT	Long				Wind Station Height. This is the height of the wind station above ground elevation. This field is populated when wind gage data is used in the flood risk project.	No		
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_CSTMODEL								
A polygon feature class that identifies the models used for the coastal floodplain delineation study. This feature class is drawn as a single polygon that represents the true spatial extent of the surge model, extending around all coastal components for that studied coastline. In some cases coastal modeling features that are associated with the model in question may fall outside the S_CSTMODEL polygon extents. In those situations the related S_CSTMODEL's CST_MDL_ID should be associated with the coastal study in question to solidify the data/model relationship. In certain situations, especially in regards to the back population of data, S_CSTMODEL polygons may overlap. It is expected that under this guidance, when new studies are performed, overlaps will not exist in the S_CSTMODEL geometries. This feature class is required for all types of coastal analyses.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
CST_MDL_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
MDL_GRP_ID	Text	25			Foreign key to S_MODEL_GROUP.	Yes		
SURVYGRPID	Text	25			Foreign key to S_SURVEYGROUP.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
STUDYTYPE	Text	5			Study type.	Yes		D_STUDY_TYP
TASK_TYP	Text	5			Data Development Task Type. This is the type of data development task which is represented by the polygonal footprint. Acceptable values for this field are listed in the D_TASK_TYP table.	Yes		D_TASK_TYP
SURGE_LID	Text	5			Hurricane Surge Model Lookup Identification. The surge model information is taken from the D_SURGE_MDL table.	Yes		D_SURGE_MDL
SURGE_DATE	Date/Time				Hurricane Surge Model Run Date. This is the date the model was run.	Yes		

SURGE_ZIP	Text	254			Folder path to the data or filename of zip file containing surge model input, surge model output.	Yes		
PFD_TF	Integer				Have primary frontal dune criteria been applied in the coastal modeling? 0 = False, 1 = True.	Yes		
EROS_TF	Integer				Has erosion treatment been applied in the coastal modeling? 0 = False, 1 = True.	Yes		
SURGE_EFF	Date/Time				Surge Effective Date. Effective date of the surge model.	Yes		
WAVEHT_LID	Text	5			Wave Height Model. This is the name or abbreviation of the FEMA approved wave height model that was used for the coastal engineering analysis. Acceptable values for this field are listed in the D_WAVE_MDL table. This field is populated when wave calculations are included in the scope of the new coastal analysis. This field is also populated for a coastal redelineation or digital conversion when wave height model data are available from a previous flood risk project.	No		D_WAVE_MDL
WAVEHT_DT	Date/Time				Wave Height Model Run Date. This is the date the model was run.	No		
RUNUP_LID	Text	5			Runup Model Lookup Identification. The runup model information is taken from the D_RUNUP_MDL table.	No		D_RUNUP_MDL
RUNUP_DATE	Date/Time				Runup Model Run Date. This is the date the wave runup model was run.	No		

SETUP_METH	Text	5			Wave Setup Methodology. This information should detail the methodology used for determining the wave setup magnitude.	No		D_WAVE_METH
SETUP_DATE	Date/Time				Wave Setup Methodology Date. This is the date the setup methodology was run.	No		
WAVE_EFFDT	Date/Time				Wave Effective Date. Effective date of the wave height and wave runup models. This field is populated for a coastal redelineation or digital conversion when previously effective wave analysis data were used. This field is not populated for new coastal analysis.	No		
WAVE_ZIP	Text	254			File name of zip file containing wave height input, wave height output.	No		
EROS_METH	Text	100			Erosion methodology.	No		
RUNUP_ZIP	Text	254			Filename of zip containing wave runup input, output.	No		
LIMIT_FROM	Text	254			Study Limit From. This is the study limit “from” value, for example “From the North Carolina/City of Virginia Beach boundary.”	Yes		
LIMIT_TO	Text	254			Study Limit To. This is the study limit “to” value, for example “To the northernmost boundary of Fort Story at 96th Street”.	Yes		

STRM_PRM	Text	50			Storm Parameterization Method. This is the name or abbreviation of the storm parameterization method used for storm surge simulations. This field is populated when storm parameterization is included in the new coastal analysis. This field is also populated for a coastal redelineation or digital conversion when storm surge modeling data are available from a previous flood risk project.	No		
STM_PRM_DT	Date/Time				Storm Parameterization Date. This is the date the storm parameterization was completed. This field is populated when the storm parameterization is included in the new coastal analysis. This field is also populated for a coastal redelineation or digital conversion when the storm parameterization data are available from a previous flood risk project.	No		
TDESTAT_MT	Text	50			This is the name or abbreviation of the flood frequency analysis method and distribution used for tide gage analysis. This field is populated when tide gage analysis is included in the new coastal analysis. This field is also populated for a coastal redelineation or digital conversion when tide gage analysis data are available from a previous flood risk project.	No		

TDESTAT_DT	Date/Time				This is the date the tide gage analysis was completed. This field is populated when the tide gage analysis is included in the new coastal analysis. This field is also populated for a coastal redelineation or digital conversion when the tide gage analysis data are available from a previous flood risk project.	No		
R_FETCH_MT	Text	50			Restricted Fetch Wave Growth Methodology. This information should detail the methodology used for calculating restricted fetch wave growth. This field is populated when restricted fetch wave growth is included in the new coastal analysis. This field is also populated for a coastal redelineation or digital conversion when restricted fetch wave growth analysis is available from a previous flood risk project.	No		
R_FETCH_DT	Date/Time				Restricted Fetch Wave Growth Methodology Date. This is the date the restricted fetch wave growth modeling was run. This field is populated when restricted fetch wave growth analysis is included in the new coastal analysis. This field is also populated for a coastal redelineation or digital conversion when restricted fetch wave growth analysis is available from a previous flood risk project.	No		

EROS_DATE	Date/Time				Erosion Analysis Date. This is the date the erosion analysis was completed. This field is populated when erosion is included in the new coastal analysis. This field is also populated for a coastal redelineation or digital conversion when erosion analysis is available from a previous flood risk project.	No		
HAZARDEVAL	Text	25			Coastal hazard type evaluated. Examples include Storm Surge, Storm Parameterization, Wave Runup, Wave Generation, and Overland Wave Propagation.	Yes		
COMP_DATE	Date/Time				Completion Date. This is the date in which work was completed by the assigned Mapping Partner.	Yes		
SWELMAP	Text	254			Filename of zip file containing the 1% Annual Chance Total Stillwater Elevations for Coastal Areas Maps.	Yes		
TSCT_MAP	Text	254			Filename of PDF file containing the Transect Locator Map.	Yes		
WHAFIS_TF	Integer				Overland propagation of wave height modeling. Was overland propagation of wave height modeling with FEMA's WHAFIS model performed? 0 = False, 1 = True.	Yes		
OVERTOP_TF	Integer				Wave Overtopping Calculations. Were wave overtopping calculations performed? 0 = False, 1 = True.	Yes		
BW_HGT_TF	Integer				Breaking Wave Height Calculations. Have breaking wave calculations been performed? 0 = False, 1 = True.	Yes		

HVFLOW_TF	Integer				High Velocity Flow Calculations. Have high velocity flow calculations been performed? 0 = False, 1 = True.	Yes		
WAVE_02PCT	Integer				0.2-Percent Wave Calculations. Were 0.2-percent wave calculations performed? 0 = False, 1 = True.	Yes		
RPTNAME	Text	254			File name of the FIS narrative report.	Yes		
SUPPORTZIP	Text	254			Zip File containing additional support files utilized in modeling such as roughness delineations, obstructions, vegetation, etc…	No		
COMMENTS	Text	254			General comments or can be used for footnotes etc…, for FIS summaries.	No		
SPEC_CONS	Text	4000			Special considerations field for describing the modeling methodology used.	No		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_CSTTSCTLN								
A linear feature class of coastal transect lines for use in engineering analyses. This feature class is required if there is coastal study within the county.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
TRAN_LN_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
CST_MDL_ID	Text	25			Foreign key to S_CSTMODEL.	Yes		
SHR_LN_ID	Text	25			Foreign key to S_SHORE_LN.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
TRAN_NO	Text	4			Transect number shown on FIRM.	Yes		
TIME_LID	Text	5			Units of Time Measurement Lookup Identification.	Yes		D_TIME_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
VZONE_LID	Text	5			V Zone Extent Lookup Identification.	Yes		D_VZONE
SFHALIMIT	Text	5			1% Annual Chance Boundary Extent Lookup Identification.	Yes		D_SFHALIMIT
METH_LID	Text	5			Source Method Lookup Identification.	Yes		D_METHOD
EFF_TF	Integer				Is the coastal transect part of the effective study? 0 = False, 1 = True.	Yes		
SHOWN_FIRM	Integer				Is the transect shown on the FIRM? 0 = False, 1 = True.	Yes		

LOC_DESC	Text	254			Location Description. This is a description of the location of the coastal transects and is used to populate the Location field in the FIS Summary of Coastal Analyses table.	Yes		
L_DIRECT	Numeric		10	2	Direction of Left Range. Direction is entered as the bearing of the range away from the transect.	Yes		
R_DIRECT	Numeric		10	2	Direction of Right Range. Direction is entered as the bearing of the range away from the transect.	Yes		
EASTING_0	Numeric		10	2	X-Coordinate. The X-coordinate of the 0.0-foot elevation point along the transect.	Yes		
NORTHING_0	Numeric		10	2	Y-Coordinate. The Y-coordinate of the 0.0-foot elevation point along the transect.	Yes		
R_RANGE	Numeric		10	2	Right Range of Coastal Transect. Looking landward, the range is the along-shore distance to the right of the transect line.	Yes		
L_RANGE	Numeric		10	2	Left Range of Coastal Transect. Looking landward, the range is the along-shore distance to the left of the transect line.	Yes		
EROS_LID	Text	5			Erosion Methodology Lookup.	No		D_EROS_METHOD
MEAN_HT	Numeric		10	2	Mean Wave Height. Average height of all waves. This information is typically derived from wave gage data.	No		
MEAN_PD	Numeric		10	2	Mean Wave Period. Average period of all waves. This information is typically derived from wave gage data.	No		
CON_HT	Numeric		10	2	Controlling Wave Height. 1.6 times the significant wave height.	No		

CON_PD	Numeric		10	2	Controlling Wave Period. It is the time it takes for a wave of the controlling wave height to pass a point. Normally shown in seconds. This field is populated when the controlling wave period is available for the start of each transect. This field is not required if the controlling wave period is not available for the start of each transect, and WHAFIS default values are used.	No		
SIG_HT	Numeric		10	2	Significant Wave Height. This is the wave height associated with the 1% annual chance storm event. It is the average height of the highest 1/3 of all waves.	No		
SIG_PD	Numeric		10	2	Significant Wave Period. This is the wave period associated with the 1% annual chance storm event.	No		
SETUP_DPTH	Numeric		10	2	Wave Set-up Depth. This is the depth of wave setup that is added to the 1% annual chance stillwater elevation.	No		
DATUM_CONV	Numeric		10	2	Vertical Datum Conversion. This is the value used to convert from the gage datum (such as MLLW and MSL) to NAVD88. This value may be a decimal number. This field is populated when there is a vertical datum conversion between the gage data datum and NAVD88.	No		
SHR_LID	Text	5			Shoreline Roughness Lookup Identification. A code that provides a link to a valid shoreline type from the D_SHR_ROUGH table.	Yes		D_SHR_ROUGH

CSTLN_TYP	Text	5			Coastline Type. This describes the type of coastline. Acceptable values for this field are listed in the D_CST_TYP table.	Yes		D_CST_TYP
BEACH_SET	Text	5			Beach Setting. This field describes the local geomorphic characteristics of the shore and backshore zone. Acceptable values for this field are listed in the D_BEACHSET table. See Appendix D of FEMA's Guidelines for additional information regarding beach setting. This field is populated for new coastal analysis. Additionally, for coastal redelineation or digital conversion, this field is populated if the data are available.	No		D_BEACHSET
FETCH_LEN	Numeric		10	2	Fetch Length. This is the starting fetch length. This field is populated when it is used for starting wave conditions for new coastal wave studies.	No		
FTCHLNUNIT	Text	5			Fetch Length Units. This unit indicates the measurement system used for the fetch length. Normally shown in miles. This field is populated when it is used for starting wave conditions for new coastal wave studies.	No		D_LENGTH_UNITS
LU_SOURCE	Text	254			Land Use Description Source. This is the description of a land use data source along the transect (aerials, land-use shapefile, etc.). This field is always populated for new coastal analysis. For data development tasks related to coastal redelineation or digital conversion, this field is populated when the data is available.	No		

ISPFD	Integer				Does the coastal transect intersect the the primary frontal dune (PFD)? 0 = False, 1 = True.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_ERDUNE_PK_LN								
This linear feature class depicts the spatial extent of the Coastal Erosion Dune Peak Line. The creation of this dataset is only applicable in coastal areas where dunes are present. This is an enhanced feature class that is required to be populated when this dataset is specifically included as part of the project scope.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
ERD_LN_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
CST_MDL_ID	Text	25			Foreign key to S_CSTMODEL table.	Yes		
DELIN_DATE	Date/Time				Date of feature delineation.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_INC_FLOOD_SCEN_AR								
This polygon feature class represents increased flooding scenarios for additional areas that would be flooded by hypothetical increases of 1, 2 or 3 feet (or other user-defined values) above the base flood elevation level. This is an enhanced feature class that is required to be populated when this dataset is specifically included as part of the project scope.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
IFS_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
CST_MDL_ID	Text	25			Foreign key to S_CSTMODEL.	Yes		
HYDRAID	Text	25			Foreign key to S_HYDRAMODEL.	Yes		
EVENTID	Text	25			Foreign key to L_EVENT.	Yes		
INCREASE	Float				Increase in feet (1, 2, 3, etc.). The standard increments will be in whole feet, but fractional values are permissible (e.g., 1.5, 2.75, etc.) if specifically requested.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_LIMWA								
This table is required for all preliminary or final FIRM Databases that show coastal Limit of Moderate Wave Action (LiMWA) features. The S_LIMWA layer is required when a Limit of Moderate Wave Action (LiMWA, previously described as a Coastal Zone A boundary line) is delineated within the coastal floodplain. This layer is required for new coastal analysis. The spatial entities representing the LiMWA are lines. The line represents the limit of 1.5 foot or greater waves in a Coastal AE Zone.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
LIMWA_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
CST_MDL_ID	Text	25			Foreign key to S_CSTMODEL.	Yes		
SHOWN_FIRM	Integer				LiMWA Line Shown On FIRM. This field indicates if the LiMWA line feature is shown on the FIRM. This field is true when the line is shown and false when the line is not shown. 0 = False, 1 = True.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_LIMWA_AR								
The S_LIMWA_AR layer will be compiled on an as needed basis by the NCFMP to incorporate new coastal analyses. S_LIMWA_AR is a polygon feature class that shows the coastal Limit of Moderate Wave Action (LiMWA) features that have been derived from the S_LIMWA polyline. The S_LIMWA layer is required when a Limit of Moderate Wave Action (LiMWA, previously described as a Coastal Zone A boundary) is delineated within the coastal floodplain.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
LIMWAAR_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
SHOWN_FIRM	Integer				LiMWA Polygon Shown On FIRM? This field indicates if the LiMWA feature is shown on the FIRM. This field is true when the polygon is shown and false when it is not shown. 0 = False, 1 = True.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

S_PFD_ERSN_AR								
This polygon feature class depicts the spatial extent of the FEMA regulatory PFD, delineated between the dune toe and heel. The creation of this dataset is only applicable in coastal areas where dunes are present. This file is required when a primary frontal dune (PFD) is present along portions, or all of the coastline within the modeled coastal floodplain. This is an enhanced feature class that is required to be populated when this dataset is specifically included as part of the project scope.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
PFD_AR_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
CST_MDL_ID	Text	25			Foreign key to S_CSTMODEL table.	Yes		
DELIN_DATE	Date/Time				Date of feature delineation.	Yes		
PFD_TF	Integer				Part of the PFD? 0 = False, 1 = True.	Yes		
DUNE_SIZE	Text	5			Dune Size. This is the relative size of the dune, most commonly determined by the erosion analysis for the flood study. Valid values for this field are in the domain D_PFD_SIZE – SMALL, LARGE, or UNKNOWN .	Yes		D_PFD_SIZE
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_PFD_LN								
A linear spatial file of Primary Frontal Dune information.This file is required when a primary frontal dune (PFD) is present along portions, or all of the coastline within the modeled coastal floodplain.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
PFD_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
CST_MDL_ID	Text	25			Foreign key to S_CSTMODEL table.	Yes		
VZONE_LIMT	Integer				Limit of V Zone. This field indicates if the line is a limit of the Zone V(E) limit is based on the PFD. This field is true when the PFD determines the Zone V(E) limit and is false when the PFD is not the controlling factor of the Zone V(E) limit. 0 = False, 1 = True.	Yes		
PFDSRCDESC	Text	254			Description of the PFD delineation method and source data used aerial, topo, etc…	Yes		
PFDSRCDT	Date				Date of source data used in the PFD delineation.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_REVISIONS								
A polygon feature class that identifies changes in floodplain delineations based on new studies. This feature class can be constructed from the S_HYDRAMODEL and/or S_CSTMODEL in conjunction with the Changes Since Last FIRM (CSLF) from the iRISK Geodatabase. The objective is to create a spatial feature that represents the areas revised due to new studies (including backwater effects on non-studied streams). S_REVISIONS polygons should not overlap within a single submittal. This feature class is required for all types of preliminary hydraulic and coastal analyses.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
REVISIONID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
HYDRAID	Text	25			Foreign key to S_HYDRAMODEL.	Yes		
CST_MDL_ID	Text	25			Foreign key to S_CSTMODEL.			
REV_START	Text	254			Start of revision limits (downstream) description. This is used to populate the From field in the Preliminary FIS Scope of Revisions table. For coastal revsions this would be the revised LIMIT_FROM description.	Yes		
REV_END	Text	254			End of revision limits (upstream) description. This is used to populate the To field in the Preliminary FIS Scope of Revisions table. For coastal revsions this would be the revised LIMIT_TO description.	Yes		
REASON	Text	5			Reason for change to SFHA.	Yes		D_REASON
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_SHORE_LN								
A linear feature class that contains information about the shoreline used in the coastal flood hazard model. This feature class is required for coastal modeling studies.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
SHR_LN_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
CST_MDL_ID	Text	25			Foreign key to S_CSTMODEL table.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
SHRTYP_LID	Text	5			Shore Type. This value describes the criteria used in determining the transect baseline in coastal flood hazard models.	Yes		D_SHR_TYP
SHR_LN_DT	Date/Time				Date Shoreline represents ground conditions.	Yes		
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
V_DATM_OFF	Text	6			Vertical Datum Offset. Populated if a single vertical datum offset cannot be used across the flood risk project and offset values must be calculated water body to water body.	No		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

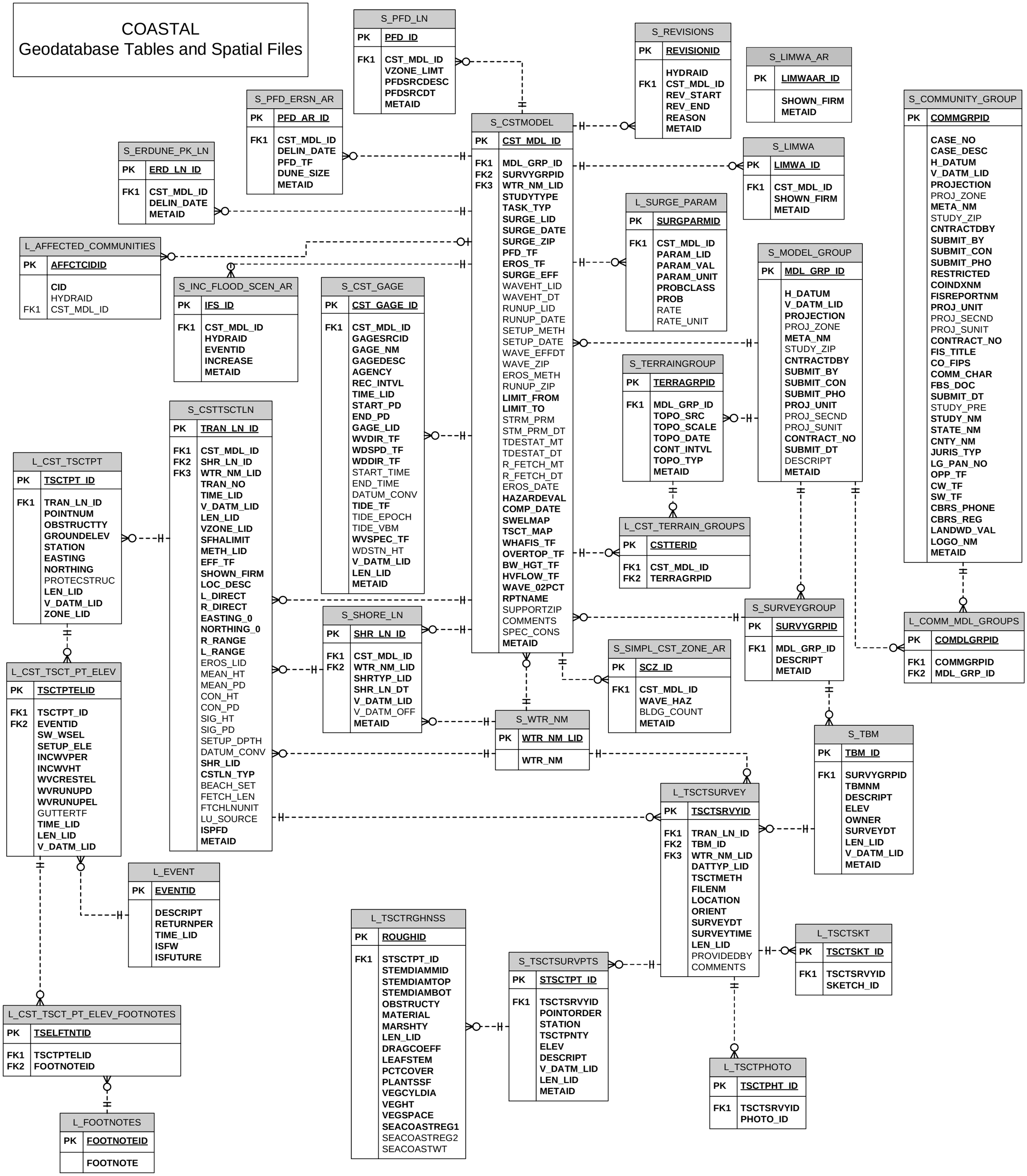
S_SIMPL_CST_ZONE_AR								
This polygon feature class represents the relative level of wave action within the coastal 1% annual chance floodplain. This is an enhanced feature class that is required to be populated when this dataset is specifically included as part of the project scope.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
SCZ_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
CST_MDL_ID	Text	25			Foreign key to S_CSTMODEL.	Yes		
WAVE_HAZ	Text	5			Wave Action Level. Indicates the relative level of wave action within the coastal 1% annual chance floodplain. The valid values for this field are in the domain D_WAVE_HAZ: HIGH (areas designated as coastal high hazard areas – V or VE, including the primary frontal dune if present), MODERATE (Coastal A Zone areas with wave heights between 1.5 and 3 feet), and MINIMAL (A Zone areas with wave heights less than 1.5 feet).	Yes		D_WAVE_HAZ
BLDG_COUNT	Long Integer				Optional field that can be populated with a count of the number of buildings within each wave hazard feature polygon if a building footprint feature class exists.	No		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

S_TSCTSURVPTS								
A point feature class containing field-derived coastal transect information utilized in the overland wave hazard modeling effort. This point feature class catalogues both topographic elevation and roughness/obstruction information for a surveyed transect. The topographic data may or may not be captured at the same time as the roughness/obstruction information, so there may be multiple parent L_TSCTSURVEY records per transect. This table is required when there is a coastal study within the county.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
STSCTPT_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
TSCTSRVYID	Text	25			Foreign key to L_TSCTSURVEY.	Yes		
POINTORDER	Long				Used to order points along cross section.	Yes		
STATION	Numeric		10	2	Station along transect from 0.0 feet (positive onshore & negative offshore).	Yes		
TSCTPNTY	Text	5			Type of point.	Yes		D_TSCTPTTY
ELEV	Numeric		10	2	Elevation of surveyed cross section shot or point.	Yes		
DESCRIPT	Text	100			Description of surveyed cross section shot or point.	Yes		
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

COASTAL
Geodatabase Tables and Spatial Files



TERRAIN

S_TERRAINGROUP								
A polygon feature class that identifies terrain submittals used for the floodplain delineation study. This table is required for all terrain submittals.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
TERRAGRPID	Text	25			Primary key. Defined by mapping contractor.	Yes	Yes	
MDL_GRP_ID	Text	25			Foreign key to S_MODEL_GROUP.	Yes		
TOPO_SRC	Text	50			Topography source.	Yes		
TOPO_SCALE	Long				The scale of the topographic data used in this specific submittal. This references the scale of the topographic map and is stored as the scale ratio denominator (i.e. 2400, for 1:2400 or 1”=200’).	Yes		
TOPO_DATE	Date				Currency date of terrain source.	Yes		
CONT_INTVL	Numeric		10	2	Contour interval.	Yes		
TOPO_TYP	Text	5			Type of topography. Used to populate OLD_TOPO and NEW_TOPO fields in S_CSLF_AR feature class.	Yes		D_TOPO_TYP
METAID	Text	25			Foreign key to METADATA.	Yes		

NCFRIS Visualization Layers

NCFRIS Visualization Layers

(Regulatory Effective)

V_DATUM_CONV_PT

The V_DATUM_CONV_PT is derived from the S_DATUM_CONV_PT table with the addition of LATITUDE and LONGITUDE fields to facilitate FIS table creation. V_DATUM_CONV_PT is required when a vertical datum conversion was performed as part of the study. The spatial elements representing this layer are points. This table must be populated whether a countywide /community-based or stream-by-stream based datum conversion factor is required. There cannot be a mixture of countywide/community-based and stream-by-stream conversion factors within a single submittal. Appendix B of FEMA's Guidelines and Standards should be referenced to determine which type of factor must be calculated. This information is needed for the Countywide Vertical Datum Conversion and Stream-by-Stream Vertical Datum Conversion tables in the FIS report. This feature class will be maintained by NCFMP and is not required for contractor submittals as these points were derived at a statewide level.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
DATCONPTID	Text	25			Primary key defined by the NCFMP.	Yes	Yes	
QUAD_NM	Text	50			Quad Name. Provides the name for the U.S. Geological Survey (USGS) 7.5-minute series topographic quadrangle map. For example “Red Rock.”	Yes		
QUAD_COR	Text	4			Quad Corner. Describes one of four quad corners (e.g. NW, SW, NE, and SE). Acceptable values for this field are listed in the D_QUADRANT table.	Yes		D_QUADRANT
FROM_DATUM	Text	5			The original vertical datum being converted. Acceptable values for this field are listed in the D_V_DATUM table.	Yes		D_V_DATUM
TO_DATUM	Text	5			The new vertical datum that is being converted to. Acceptable values for this field are listed in the D_V_DATUM table.	Yes		D_V_DATUM
ISCOMBASED	Integer				Is COUNTYWIDE/COMMUNITY-BASED? 0 = False, 1 = True.	Yes		
WTR_NM_LID	Text	25			If stream specific, the water name lookup identification number from S_WTR_NM that the shift applies to.	No		

CONVFACTOR	Numeric		38	8	Conversion Factor at this specific point, not the average of all points. References vertical datum conversion factor used in observing surface elevations in different datums. The two most common standard vertical datums in use nationwide are the National Geodetic Vertical Datum (NGVD) of 1929 and the North American Vertical Datum (NAVD) of 1988. NGVD 29 to NAVD 88 conversion values range from roughly negative one foot or more on the east coast to more than negative four feet on the west coast.	Yes		
LEN_LID	Text	5			Length Units. This unit indicates the measurement system used for vertical datum conversion factor height. Normally this would be feet. Acceptable values for this field are listed in the D_LENGTH_UNITS table.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		
LATITUDE	Numeric		14	6	Latitude.	Yes		
LONGITUDE	Numeric		14	6	Longitude.	Yes		

V_E_CBRS								
A polygon feature class that contains information about the Coastal Barrier Resources Systems (CBRS) and Otherwise Protected (OPA) areas within the study area, if applicable. V_E_CBRS is derived from the S_CBRS feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate NCFRIS content creation.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
V_CBRSID	Text	25			Primary key. Defined by the NCFMP.	Yes	Yes	
CBRS_ID	Text	26			Foreign key to S_CBRS.			
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
CBRS_LID	Text	5			CBRS Lookup Identification.	Yes		D_CBRS_TYP
CBRS_TF	Integer				This field is True if the area is a CBRS and False for an OPA. 0 = False, 1 = True.	Yes		
CBRS_DATE	Text	10			CBRS Date. Legislative or administrative date on which prohibitions for the CBRS area apply.	Yes		D_CBRSDT
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
CO_FIPS1	Text	5			County FIPS Code 1. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
CO_FIPS2	Text	5			County FIPS Code 2. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS3	Text	5			County FIPS Code 3. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS

CO_FIPS4	Text	5			County FIPS Code 4. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS5	Text	5			County FIPS Code 5. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS6	Text	5			County FIPS Code 6. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS7	Text	5			County FIPS Code 7. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS8	Text	5			County FIPS Code 8. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS9	Text	5			County FIPS Code 9. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS10	Text	5			County FIPS Code 10. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

V_E_CST_GAGE								
A point feature class that contains information about coastal gages for the study area. V_E_CST_GAGE is derived from the S_CST_GAGE feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class is required if there is coastal study in the county.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
CST_GAGE_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
CST_MDL_ID	Text	25			Foreign key to S_CSTMODEL.	Yes		
GAGESRCID	Text	50			Gage number assigned by agency maintaining gage.	Yes		
GAGE_NM	Text	150			Gage name assigned by agency maintaining gage.	Yes		
GAGEDESC	Text	254			Information describing the location of the gage (i.e. Black River at I-95).	Yes		
AGENCY	Text	150			Name of agency maintaining the gage.	Yes		
REC_INTVL	Text	11			Recording Interval. This field is populated only if the coastal gage is a fixed-interval gage.	Yes		
TIME_LID	Text	5			Recording Interval Time Unit Lookup Identification.	Yes		D_TIME_UNITS
START_PD	Date/Time				Gage Record Starting Date. Start of earliest period of record used in gage analysis.	Yes		
END_PD	Date/Time				Gage Record Ending Date. End of latest period of record used in gage analysis.	Yes		
GAGE_LID	Text	5			Gage Type Lookup Identification.	Yes		D_GAGE
WVDIR_TF	Integer				Does the gage record wave direction True or False? 0 = False, 1 = True.	Yes		

WDSPD_TF	Integer				Does the gage record wind speed True or False? 0 = False, 1 = True.	Yes		
WDDIR_TF	Integer				Does the gage record wind direction True or False? 0 = False, 1 = True.	Yes		
START_TIME	Text	10			Gage Record Starting Time. This is the time for the start of the earliest period of record used in gage analysis. This value should be formatted as hh:mm. This field is populated when the starting time is available.	No		
END_TIME	Text	10			Gage Record Ending Date. This is the time for the end of the latest period of record used in gage analysis. This value should be formatted as hh:mm. This field is populated when the end time is available.	No		
DATUM_CONV	Numeric		10	2	Vertical Datum Conversion. This is the value used to convert from the gage datum (such as MLLW and MSL) to NAVD88. This value may be a decimal number. This field is populated when there is a vertical datum conversion between the gage data datum and NAVD88.	No		
TIDE_TF	Integer				Record Tide Elevations. Does the gage record tide elevations? 0 = False, 1 = True.	Yes		
TIDE_EPOCH	Text	11			Tidal Epoch. This field stores the date range for the tidal epoch; for example, “1983-2001.” This field is populated when the tide gage information is available.	No		

TIDE_VBM	Text	11			Tide Benchmark Vertical Marker. This is the NOAA, NGS or community-assigned permanent benchmark identifier. The identifier must be unique for each benchmark.	No		
WVSPEC_TF	Integer				Record Wave Spectra. Does the gage record wave spectra? 0 = False, 1 = True.	Yes		
WDSTN_HT	Long				Wind Station Height. This is the height of the wind station above ground elevation. This field is populated when wind gage data is used in the flood risk project.	No		
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
CO_FIPS1	Text	5			county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
CO_FIPS2	Text	5			County FIPS Code 2. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS3	Text	5			County FIPS Code 3. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS4	Text	5			County FIPS Code 4. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS5	Text	5			County FIPS Code 5. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS

CO_FIPS6	Text	5			County FIPS Code 6. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS7	Text	5			County FIPS Code 7. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS8	Text	5			County FIPS Code 8. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS9	Text	5			County FIPS Code 9. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS10	Text	5			County FIPS Code 10. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		
ISNEW	Integer				ISNEW = 1 indicates features that were studied or updated as a part of the latest submittal. ISNEW = 0 indicates features that were previously effective and not updated as a part of the latest submittal.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective*

V_E_CSTMODEL

A polygon feature class that identifies the models used for the coastal floodplain delineation study. V_E_CSTMODEL is derived from the S_CSTMODEL feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class is drawn as a single polygon that represents the true spatial extent of the surge model, extending around all coastal components for that studied coastline. In some cases coastal modeling features that are associated with the model in question may fall outside the S_CSTMODEL polygon extents. In those situations the related S_CSTMODEL's CST_MDL_ID should be associated with the coastal study in question to solidify the data/model relationship. In certain situations, especially in regards to the back population of data, S_CSTMODEL polygons may overlap. It is expected that under this guidance, when new studies are performed, overlaps will not exist in the S_CSTMODEL geometries. This feature class is required for all types of coastal analyses.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
V_CSTMDLID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
CST_MDL_ID	Text	25			Foreign key to S_CSTMODEL.	Yes		
MDL_GRP_ID	Text	25			Foreign key to S_MODEL_GROUP.	Yes		
SURVYGRPID	Text	25			Foreign key to S_SURVEYGROUP.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
STUDYTYPE	Text	5			Study type.	Yes		D_STUDY_TYP
TASK_TYP	Text	5			Data Development Task Type. This is the type of data development task which is represented by the polygonal footprint. Acceptable values for this field are listed in the D_TASK_TYP table.	Yes		D_TASK_TYP

SURGE_LID	Text	5			Hurricane Surge Model Lookup Identification. The surge model information is taken from the D_SURGE_MDL table.	Yes		D_SURGE_MDL
SURGE_DATE	Date/Time				Hurricane Surge Model Run Date. This is the date the model was run.	Yes		
SURGE_ZIP	Text	254			Folder path to the data or filename of zip file containing surge model input, surge model output.	Yes		
PFD_TF	Integer				Have primary frontal dune criteria been applied in the coastal modeling? 0 = False, 1 = True.	Yes		
EROS_TF	Integer				Has erosion treatment been applied in the coastal modeling? 0 = False, 1 = True.	Yes		
SURGE_EFF	Date/Time				Surge Effective Date. Effective date of the surge model.	Yes		
WAVEHT_LID	Text	5			Wave Height Model. This is the name or abbreviation of the FEMA approved wave height model that was used for the coastal engineering analysis. Acceptable values for this field are listed in the D_WAVE_MDL table. This field is populated when wave calculations are included in the scope of the new coastal analysis. This field is also populated for a coastal redelineation or digital conversion when wave height model data are available from a previous flood risk project.	No		D_WAVE_MDL
WAVEHT_DT	Date/Time				Wave Height Model Run Date. This is the date the model was run.	No		

RUNUP_LID	Text	5			Runup Model Lookup Identification. The runup model information is taken from the D_RUNUP_MDL table.	No		D_RUNUP_MDL
RUNUP_DATE	Date/Time				Runup Model Run Date. This is the date the wave runup model was run.	No		
SETUP_METH	Text	5			Wave Setup Methodology. This information should detail the methodology used for determining the wave setup magnitude.	No		D_WAVE_METH
SETUP_DATE	Date/Time				Wave Setup Methodology Date. This is the date the setup methodology was run.	No		
WAVE_EFFDT	Date/Time				Wave Effective Date. Effective date of the wave height and wave runup models. This field is populated for a coastal redelineation or digital conversion when previously effective wave analysis data were used. This field is not populated for new coastal analysis.	No		
WAVE_ZIP	Text	254			File name of zip file containing wave height input, wave height output.	No		
EROS_METH	Text	100			Erosion methodology.	No		
RUNUP_ZIP	Text	254			Filename of zip containing wave runup input, output.	No		
LIMIT_FROM	Text	254			Study Limit From. This is the study limit “from” value, for example “From the North Carolina/City of Virginia Beach boundary.”	Yes		
LIMIT_TO	Text	254			Study Limit To. This is the study limit “to” value, for example “To the northernmost boundary of Fort Story at 96th Street”.	Yes		

STRM_PRM	Text	50			Storm Parameterization Method. This is the name or abbreviation of the storm parameterization method used for storm surge simulations. This field is populated when storm parameterization is included in the new coastal analysis. This field is also populated for a coastal redelineation or digital conversion when storm surge modeling data are available from a previous flood risk project.	No		
STM_PRM_DT	Date/Time				Storm Parameterization Date. This is the date the storm parameterization was completed. This field is populated when the storm parameterization is included in the new coastal analysis. This field is also populated for a coastal redelineation or digital conversion when the storm parameterization data are available from a previous flood risk project.	No		
TDESTAT_MT	Text	50			This is the name or abbreviation of the flood frequency analysis method and distribution used for tide gage analysis. This field is populated when tide gage analysis is included in the new coastal analysis. This field is also populated for a coastal redelineation or digital conversion when tide gage analysis data are available from a previous flood risk project.	No		

TDESTAT_DT	Date/Time				This is the date the tide gage analysis was completed. This field is populated when the tide gage analysis is included in the new coastal analysis. This field is also populated for a coastal redelineation or digital conversion when the tide gage analysis data are available from a previous flood risk project.	No		
R_FETCH_MT	Text	50			Restricted Fetch Wave Growth Methodology. This information should detail the methodology used for calculating restricted fetch wave growth. This field is populated when restricted fetch wave growth is included in the new coastal analysis. This field is also populated for a coastal redelineation or digital conversion when restricted fetch wave growth analysis is available from a previous flood risk project.	No		
R_FETCH_DT	Date/Time				Restricted Fetch Wave Growth Methodology Date. This is the date the restricted fetch wave growth modeling was run. This field is populated when restricted fetch wave growth analysis is included in the new coastal analysis. This field is also populated for a coastal redelineation or digital conversion when restricted fetch wave growth analysis is available from a previous flood risk project.	No		

EROS_DATE	Date/Time				Erosion Analysis Date. This is the date the erosion analysis was completed. This field is populated when erosion is included in the new coastal analysis. This field is also populated for a coastal redelineation or digital conversion when erosion analysis is available from a previous flood risk project.	No		
HAZARDEVAL	Text	25			Coastal hazard type evaluated. Examples include Storm Surge, Storm Parameterization, Wave Runup, Wave Generation, and Overland Wave Propagation.	Yes		
COMP_DATE	Date/Time				Completion Date. This is the date in which work was completed by the assigned Mapping Partner.	Yes		
SWELMAP	Text	254			Filename of zip file containing the 1% Annual Chance Total Stillwater Elevations for Coastal Areas Maps.	Yes		
TSCT_MAP	Text	254			Filename of zip file containing the Transect Locator Map.	Yes		
WHAFIS_TF	Integer				Overland propagation of wave height modeling. Was overland propagation of wave height modeling with FEMA's WHAFIS model performed? 0 = False, 1 = True.	Yes		
OVERTOP_TF	Integer				Wave Overtopping Calculations. Were wave overtopping calculations performed? 0 = False, 1 = True.	Yes		
BW_HGT_TF	Integer				Breaking Wave Height Calculations. Have breaking wave calculations been performed? 0 = False, 1 = True.	Yes		

HVFLOW_TF	Integer				High Velocity Flow Calculations. Have high velocity flow calculations been performed? 0 = False, 1 = True.	Yes		
WAVE_02PCT	Integer				0.2-Percent Wave Calculations. Were 0.2-percent wave calculations performed? 0 = False, 1 = True.	Yes		
RPTNAME	Text	254			File name of the FIS narrative report.	Yes		
SUPPORTZIP	Text	254			Zip File containing additional support files utilized in modeling such as roughness delineations, obstructions, vegetation, etc…	No		
COMMENTS	Text	254			General comments or can be used for footnotes etc…, for FIS summaries.	No		
SPEC_CONS	Text	4000			Special considerations field for describing the modeling methodology used.	No		
WTR_NM	Text	100			Regulatory stream name.	Yes		
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
CO_FIPS1	Text	5			County FIPS Code 1. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
CO_FIPS2	Text	5			County FIPS Code 2. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS3	Text	5			County FIPS Code 3. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS4	Text	5			County FIPS Code 4. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS

CO_FIPS5	Text	5			County FIPS Code 5. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS6	Text	5			County FIPS Code 6. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS7	Text	5			County FIPS Code 7. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS8	Text	5			County FIPS Code 8. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS9	Text	5			County FIPS Code 9. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS10	Text	5			County FIPS Code 10. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		
ISNEW	Integer				ISNEW = 1 indicates features that were studied or updated as a part of the latest submittal. ISNEW = 0 indicates features that were previously effective and not updated as a part of the latest submittal.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

V_E_CSTTSCTLN								
A linear feature class of coastal transect lines for use in engineering analyses. V_E_CSTTSCTLN is derived from the S_CSTTSCTLN feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class is required if there is coastal study within the county.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
TRAN_LN_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
CST_MDL_ID	Text	25			Foreign key to S_CSTMODEL.	Yes		
SHR_LN_ID	Text	25			Foreign key to S_SHORE_LN.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
TRAN_NO	Text	4			Transect number shown on FIRM.	Yes		
TIME_LID	Text	5			Units of Time Measurement Lookup Identification.	Yes		D_TIME_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
VZONE_LID	Text	5			V Zone Extent Lookup Identification.	Yes		D_VZONE
SFHALIMIT	Text	5			1% Annual Chance Boundary Extent Lookup Identification.	Yes		D_SFHALIMIT
METH_LID	Text	5			Source Method Lookup Identification.	Yes		D_METHOD
EFF_TF	Integer				Is the coastal transect part of the effective study? 0 = False, 1 = True.	Yes		
SHOWN_FIRM	Integer				Is the transect shown on the FIRM? 0 = False, 1 = True.	Yes		

LOC_DESC	Text	254			Location Description. This is a description of the location of the coastal transects and is used to populate the Location field in the FIS Summary of Coastal Analyses table.	Yes		
L_DIRECT	Numeric		10	2	Direction of Left Range. Direction is entered as the bearing of the range away from the transect.	Yes		
R_DIRECT	Numeric		10	2	Direction of Right Range. Direction is entered as the bearing of the range away from the transect.	Yes		
EASTING_0	Numeric		10	2	X-Coordinate. The X-coordinate of the 0.0-foot elevation point along the transect.	Yes		
NORTHING_0	Numeric		10	2	Y-Coordinate. The Y-coordinate of the 0.0-foot elevation point along the transect.	Yes		
R_RANGE	Numeric		10	2	Right Range of Coastal Transect. Looking landward, the range is the along-shore distance to the right of the transect line.	Yes		
L_RANGE	Numeric		10	2	Left Range of Coastal Transect. Looking landward, the range is the along-shore distance to the left of the transect line.	Yes		
EROS_LID	Text	5			Erosion Methodology Lookup.	No		D_EROS_METHOD
MEAN_HT	Numeric		10	2	Mean Wave Height. Average height of all waves. This information is typically derived from wave gage data.	No		
MEAN_PD	Numeric		10	2	Mean Wave Period. Average period of all waves. This information is typically derived from wave gage data.	No		
CON_HT	Numeric		10	2	Controlling Wave Height. 1.6 times the significant wave height.	No		

CON_PD	Numeric		10	2	Controlling Wave Period. It is the time it takes for a wave of the controlling wave height to pass a point. Normally shown in seconds. This field is populated when the controlling wave period is available for the start of each transect. This field is not required if the controlling wave period is not available for the start of each transect, and WHAFIS default values are used.	No		
SIG_HT	Numeric		10	2	Significant Wave Height. This is the wave height associated with the 1% annual chance storm event. It is the average height of the highest 1/3 of all waves.	No		
SIG_PD	Numeric		10	2	Significant Wave Period. This is the wave period associated with the 1% annual chance storm event.	No		
SETUP_DPTH	Numeric		10	2	Wave Set-up Depth. This is the depth of wave setup that is added to the 1% annual chance stillwater elevation.	No		
DATUM_CONV	Numeric		10	2	Vertical Datum Conversion. This is the value used to convert from the gage datum (such as MLLW and MSL) to NAVD88. This value may be a decimal number. This field is populated when there is a vertical datum conversion between the gage data datum and NAVD88.	No		
SHR_LID	Text	5			Shoreline Roughness Lookup Identification. A code that provides a link to a valid shoreline type from the D_SHR_ROUGH	Yes		D_SHR_ROUGH

CSTLN_TYP	Text	5			Coastline Type. This describes the type of coastline. Acceptable values for this field are listed in the D_CST_TYP table.	Yes		D_CST_TYP
BEACH_SET	Text	5			Beach Setting. This field describes the local geomorphic characteristics of the shore and backshore zone. Acceptable values for this field are listed in the D_BEACHSET table. See Appendix D of FEMA's Guidelines for additional information regarding beach setting. This field is populated for new coastal analysis. Additionally, for coastal redelineation or digital conversion, this field is populated if the data are available.	No		D_BEACHSET
FETCH_LEN	Numeric		10	2	Fetch Length. This is the starting fetch length. This field is populated when it is used for starting wave conditions for new coastal wave studies.	No		
FTCHLNUNIT	Text	5			Fetch Length Units. This unit indicates the measurement system used for the fetch length. Normally shown in miles. This field is populated when it is used for starting wave conditions for new coastal wave studies.	No		D_LENGTH_UNITS

LU_SOURCE	Text	254			Land Use Description Source. This is the description of a land use data source along the transect (aerials, land-use shapefile, etc.). This field is always populated for new coastal analysis. For data development tasks related to coastal redelineation or digital conversion, this field is populated when the data is available.	No		
ISPFD	Integer				Does the coastal transect intersect the the primary frontal dune (PFD)? 0 = False, 1 = True.	Yes		
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
WTR_NM	Text	100			Regulatory water name.	Yes		
CO_FIPS1	Text	5			County FIPS Code 1. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
CO_FIPS2	Text	5			County FIPS Code 2. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS3	Text	5			County FIPS Code 3. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS4	Text	5			County FIPS Code 4. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS5	Text	5			County FIPS Code 5. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS

CO_FIPS6	Text	5			County FIPS Code 6. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS7	Text	5			County FIPS Code 7. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS8	Text	5			County FIPS Code 8. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS9	Text	5			County FIPS Code 9. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS10	Text	5			County FIPS Code 10. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		
ISNEW	Integer				ISNEW = 1 indicates features that were studied or updated as a part of the latest submittal. ISNEW = 0 indicates features that were previously effective and not updated as a part of the latest submittal.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective*

V_E_FLD_HAZ_AR

A polygon feature class that depicts regulatory effective flood hazard information. V_E_FLD_HAZ_AR is derived from the S_FLD_HAZ_AR feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class displays the latest version of regulatory effective flood hazard information for a county, including revisions from incorporated LOMR data. This feature class will be updated when a preliminary study data goes effective and/or when effective LOMR information is incorporated into the study area. Preliminary data and effective LOMR information will be stitched into the existing regulatory effective geometry of this feature class in order to display the latest version of regulatory effective flood hazard information for a county within the NCFRIS website. This layer is required anytime a contractor provides updates to regulatory effective flood information. The elements within this feature class should be split at the boundary of the county in which the update falls to fulfill the CO_FIPS for the visualization layer requirements.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
V_FLDARID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
ZONE_LID	Text	5			Flood Zone Lookup Identification.	Yes		D_ZONE

ZONSUB_LID	Text	5			Flood Zone Subtype. This field captures additional information about the flood zones not related to insurance rating purposes. For example, insurance rate zone Shaded X could be “PROTECTED BY LEVEE” or “0.2 PCT ANNUAL CHANCE FLOOD HAZARD CONTAINED IN STRUCTURE.” Types of floodways are also stored in this field. Normal floodway areas are specified as ‘FLOODWAY.’ Special cases will have a more specific term for the designation (such as COLORADO RIVER) and will appear as a note on the hardcopy FIRM. Acceptable values for this field are listed in the D_ZONE_SUBTYPE table.	No		D_ZONE_SUBTYPE
STATIC_BFE	Numeric		10	2	Static Base Flood Elevation.	No		
DEPTH	Numeric		10	2	Depth Value for Zone AO Areas. This is shown beneath the zone label on the FIRM.	No		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
VELOCITY	Numeric		10	2	Velocity Measurement. For alluvial fan areas.	No		
VEL_LID	Text	5			Velocity Measurement. For alluvial fan areas.	No		D_VELOCITY_UNITS
SFHA_TF	Integer				Is this a special flood hazard area? 0 = False, 1 = True.	Yes		
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS

CO_FIPS	Text	5			County FIPS Code. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
ZONE_LID_VALUE	Text	254			Text based description of the flood zone from D_ZONE, e.g. AE.	Yes		
ZONESUB_LID_VALUE	Text	254			Text based description of the flood zone from D_ZONE_SUBTYPE, e.g. FLOODWAY.	No		
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the Application of Primary Keys for Back Population (Effective Data) section of the Data Inputs section of this dictionary.

V_E_FLD_HAZ_LN

A linear feature class that depicts regulatory effective flood hazard information. V_E_FLD_HAZ_LN is derived from the S_FLD_HAZ_LN feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class displays the latest version of regulatory effective flood hazard information for a county, including revisions from incorporated LOMR data. This feature class will be updated when a preliminary study data goes effective and/or when effective LOMR information is incorporated into the study area. Preliminary data and effective LOMR information will be stitched into the existing regulatory effective geometry of this feature class in order to display the latest version of regulatory effective flood hazard information for a county within the NCFRIS website. This layer is required anytime a contractor provides updates to regulatory effective flood information. The elements within this feature class should be split at the boundary of the county in which the update falls to fulfill the CO_FIPS for the visualization layer requirements.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
V_FLDLNID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
LN_LID	Text	5			Line Lookup Identification.	Yes		D_LN_TYP
CURREFFTF	Integer				True if line is effective, False if line represents historic boundary that is superseded. 0 = False, 1 = True.	No		
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
CO_FIPS	Text	5			County FIPS Code. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the Application of Primary Keys for Back Population (Effective Data) section of the Data Inputs section of this dictionary.

V_E_FLOOD_PROBLEMS

A polygon feature class that contains features representing special flood problems for documentation within the effective study. V_E_FLOOD_PROBLEMS is derived from the S_FLOOD_PROBLEMS feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class is required if there are special flood problems to report.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
V_FLPRBMID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
FLPRBLMID	Text	25			Foreign key link to S_FLOOD_PROBLEM.	Yes		
COMMGRPID	Text	25			Foreign key to S_COMMUNITY_GROUP.	Yes		
FLD_PROB	Text	4000			Description of Flooding Problems by flooding source.	Yes		
WTR_NM_LID	Text	25			Foreign key link to S_WTR_NM.	No		
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
CO_FIPS1	Text	5			County FIPS Code 1. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
CO_FIPS2	Text	5			County FIPS Code 2. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS3	Text	5			County FIPS Code 3. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS

CO_FIPS4	Text	5			County FIPS Code 4. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS5	Text	5			County FIPS Code 5. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS6	Text	5			County FIPS Code 6. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS7	Text	5			County FIPS Code 7. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS8	Text	5			County FIPS Code 8. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS9	Text	5			County FIPS Code 9. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS10	Text	5			County FIPS Code 10. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		
ISNEW	Integer				ISNEW = 1 indicates features that were studied or updated as a part of the latest submittal. ISNEW = 0 indicates features that were previously effective and not updated as a part of the latest submittal.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the Application of Primary Keys for Back Population (Effective Data) section of the Data Inputs section of this dictionary.

V_E_HWM								
A point feature class that contains the attributes and the locations of the high water marks (HWMs) that were surveyed for the effective study. V_E_HWM is derived from the S_HWM feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class is required for all HWM surveys.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
V_HWM_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
HWM_ID	Text	25			Foreign key to S_HWM.	Yes		
SURVYGRPID	Text	25			Foreign key to S_SURVEYGROUP.	Yes		
HWMNM	Text	50			Name of high water mark.	Yes		
LNTYP_LID	Text	5			HWM type lookup identification.	Yes		D_HWLNTP
LOCATION	Text	254			Location of the high water mark.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
STREAM_STN	Numeric		38	8	Approximate stream station.	Yes		
ELEV	Numeric		10	2	Elevation of high water mark.	Yes		
STORMNM	Text	50			Name of storm.	No		
EVENTDT	Date/Time				Date of the storm. If the storm date is not known please give an approximate date or date range in the comments field.	Yes		
APX_FREQ	Long				Approximate recurrence interval in years of the high water event.	Yes		
WTNSS_ID	Text	25			Foreign key to L_HWMWTNS table.	Yes		
INTRVIEWDT	Date/Time				Date of interview with witness to high water mark.	Yes		
INTRVWRNM	Text	30			Name of person conducting interview.	No		

SOURCE	Text	5			Source of HWM.	No		D_HWMSRC
SURVEYTY	Text	5			Type of survey.	No		D_SURVEYTY
ACCURACY	Text	25			Survey accuracy rating. (Good, Fair, Poor).	No		
SURVPRMT	Integer				Do the surveyors have permission to survey? 0 = False, 1 = True.	No		
COMMENTS	Text	254			General comments or notes.	No		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
IS_FISDESC	Integer				Is this HWM used in the FIS Historic Flood Elevations table? 0 = False, 1 = True.	Yes		
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
CO_FIPS1	Text	5			County FIPS Code 1. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
CO_FIPS2	Text	5			County FIPS Code 2. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS3	Text	5			County FIPS Code 3. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS4	Text	5			County FIPS Code 4. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS5	Text	5			County FIPS Code 5. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS6	Text	5			County FIPS Code 6. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS

CO_FIPS7	Text	5			County FIPS Code 7. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS8	Text	5			County FIPS Code 8. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS9	Text	5			County FIPS Code 9. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS10	Text	5			County FIPS Code 10. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		
ISNEW	Integer				ISNEW = 1 indicates features that were studied or updated as a part of the latest submittal. ISNEW = 0 indicates features that were previously effective and not updated as a part of the latest submittal.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the Application of Primary Keys for Back Population (Effective Data) section of the Data Inputs section of this dictionary.

V_E_HYDRABFE								
The use of BFE lines is now only required in special cases. V_E_HYDRABFE is derived from the S_HYDRABFE feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. S_HYDRABFE is required for any digital data where BFE lines will be shown in the FMIS web viewer, with the exception of areas where a water surface elevation raster is present for the 1% annual chance flood event or a water surface elevation profile is available. For areas where a 1% annual chance water surface elevation raster is present the regulatory water-surface elevation (BFE value) will be accessible within the FMIS web viewer. For areas where a profile exists, the regulatory water-surface elevation (BFE value) will be labeled on the cross sections as stored in the FIRM Database S_HYDRACROSSSECTION feature class and/or found on the legacy PDF profile that will be available for viewing/download. For proper BFE placement criteria see Volume 1 and section 6.3 of FEMA's Guidelines and Specifications Appendix L and Appendix C respectively.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
V_BFE_LN_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
HYDRAID	Text	25			Hydraulic Model Identification. A code that provides a link to the hydraulic model feature class, S_HYDRAMODEL.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
ELEV	Numeric		10	0	Base Flood Elevation. The rounded, whole foot elevation of the 1-percent-annual-chance flood.	Yes		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS

CO_FIPS1	Text	5			county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
CO_FIPS2	Text	5			County FIPS Code 2. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS3	Text	5			County FIPS Code 3. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS4	Text	5			County FIPS Code 4. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS5	Text	5			County FIPS Code 5. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS6	Text	5			County FIPS Code 6. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS7	Text	5			County FIPS Code 7. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS8	Text	5			County FIPS Code 8. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS9	Text	5			County FIPS Code 9. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS10	Text	5			County FIPS Code 10. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		

ISNEW	Integer				ISNEW = 1 indicates features that were studied or updated as a part of the latest submittal. ISNEW = 0 indicates features that were previously effective and not updated as a part of the latest submittal.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

V_E_HYDRACROSSSECTION								
A linear feature class that is required for effective models that utilize cross sections. V_E_HYDRACROSSSECTION is derived from the S_HYDRACROSSSECTION feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class is not submitted for two-dimensional models that do not employ cross sections for simulating water surfaces.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
V_XSECTID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
XSECTID	Text	25			Foreign key to S_HYDRACROSSSECTION.	Yes		
HYDRAID	Text	25			Hydraulic Model Identification. A code that provides a link to the hydraulic model feature class, S_HYDRAMODEL.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
REFPTID	Text	25			Foreign key to S_REFPOINT.	Yes		
STREAM_STN	Numeric		14	2	Distance from the reference point along the stream.	Yes		

WSEL1PCT	Numeric		10	2	1% Annual Chance Base Flood Elevation. This value is constructed by querying the L_HYDRAFLOODRESULT table on EVENTID = 1050 and subsequently performing a summary on the XSECTID field with the WSEL field included in the summary output as the maximum WSEL value. This summary table can then be joined on XSECTID to the V_E_HYDRACROSSSECTION feature class. Max_WSEL from the summary is then calculated into the WSEL1PCT field within the visualization layer. All water surface elevations within this field should be rounded to the tenth of a foot using the absolute rounding method. Within ESRI products, users can achieve the appropriate rounding by employing the formatnumber VB method within the field calculator. E.g., formatnumber([WSEL1PCT],1).	Yes		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
XSNAME	Text	100			Cross section name.	Yes		
XS_LTR	Text	10			Cross section letter or number shown on FIRM.	No		
XS_LN_TYP	Text	5			Cross section line type. NOTE: In all cases users should populate Top of Road (TOR) cross sections with D_XS_LNTYP code 1020 - NOT LETTERED, MAPPED, NOT MODELED.	Yes		D_XS_LNTYP
CENTERSTAT	Numeric		11	2	The cross section station used in the model that corresponds to the intersection point of the stream and cross section. Integer values ordered from left to right looking downstream.	Yes		

BED_ELEV	Numeric		10	2	Lowest stream bed elevation, from profile.	Yes		
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
DATTYP_LID	Text	5			Cross section or data type lookup identification. A code that provides a link to an entry from D_DATTYP.	Yes		D_DATTYP
PROF_XS_TEXT	Text	80			Profile Cross Section Text. This field stores user-defined cross section text that is plotted on the profile. This field is required when appropriate WSEL Rasters are not able to be produced and an updated profile graph is needed.	No		
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
WTR_NM	Text	100			Regulatory stream name.	Yes		
CO_FIPS1	Text	5			County FIPS Code 1. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
CO_FIPS2	Text	5			County FIPS Code 2. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS3	Text	5			County FIPS Code 3. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS4	Text	5			County FIPS Code 4. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS5	Text	5			County FIPS Code 5. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS

CO_FIPS6	Text	5			County FIPS Code 6. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS7	Text	5			County FIPS Code 7. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS8	Text	5			County FIPS Code 8. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS9	Text	5			County FIPS Code 9. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS10	Text	5			County FIPS Code 10. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		
ISNEW	Integer				ISNEW = 1 indicates features that were studied or updated as a part of the latest submittal. ISNEW = 0 indicates features that were previously effective and not updated as a part of the latest submittal.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the Application of Primary Keys for Back Population (Effective Data) section of the Data Inputs section of this dictionary.

V_E_HYDRAMODEL

A polygon feature class that identifies the models used for the effective floodplain delineation study. V_E_HYDRAMODEL is derived from the S_HYDRAMODEL feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class is drawn as a single polygon that represents a modeled stream reach extending around all associated hydraulic components. In most cases it is appropriate to snap the polygon vertices to the endpoints of the cross sections, while making sure to encompass all associated hydraulic entities, e.g. backwater fingers etc... In some cases stream centerline features that are associated with the model in question may fall outside the S_HYDRAMODEL polygon extents. In those situations the related S_HYDRAMODEL's HYDRAID should be associated with the stream centerline in question to solidify the data/model relationship. In certain situations, especially in regards to the back population of data, S_HYDRAMODEL polygons may overlap. It is expected that under this guidance, when new studies are performed, overlaps will not exist in the S_HYDRAMODEL geometries. This feature class is required for all types of hydraulic analyses. The elements within this feature class should be clipped to the boundary of the county in which the update falls to fulfill the visualization layer requirements.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
V_HYDRAID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
HYDRAID	Text	25			Foreign key to S_HYDRAMODEL.	Yes		
MDL_GRP_ID	Text	25			Foreign key to S_MODEL_GROUP.	Yes		
HYDROID	Text	25			Hydrologic Model Identification. A code that provides a link to the hydrologic model feature class, S_HYDROMODEL.	Yes		
SURVYGRPID	Text	25			Foreign key link to S_SURVEY_GROUP.	Yes		
HYDRA_LID	Text	5			Model type lookup identification.	Yes		D_HYDRA
DESCRIPT	Text	254			Model description.	Yes		
STUDYTYPE	Text	5			Study type.	Yes		D_STUDY_TYP

TASK_TYP	Text	5			Data Development Task Type. This is the type of data development task which is represented by the polygonal footprint. Acceptable values for this field are listed in the D_TASK_TYP table.	Yes		D_TASK_TYP
ISNETWORK	Integer				Specifies whether this is a network model. 0 = False, 1 = True. An entry of 0 for "False" would indicate that it is a backwater model.	Yes		
ISSECLUDED	Integer				Is this area a levee seclusion zone? 0 = False, 1 = True.	Yes		
ISLOMR	Integer				Is this study a LOMR? 0 = False, 1 = True.	Yes		
LOMR_STAT	Text	5			LOMR status. Valid values from D_STATUS.	No		D_STATUS
LOMRDT	Date/Time				LOMR status date.	No		
MDLDT	Date/Time				Final Model Date.	Yes		
ZIPNAME	Text	254			File name of a compressed hydraulic model, including inputs and outputs.	Yes		
RPTNAME	Text	254			File name of the FIS narrative report.	Yes		
START_DESC	Text	254			Start of study limits (downstream) description.	No		
END_DESC	Text	254			End of study limits (upstream) description.	No		
COMMENTS	Text	254			General comments or can be used for footnotes etc…, for FIS summaries.	No		
SPEC_CONS	Text	4000			Special considerations field for describing the modeling methodology used.	No		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		

WTR_NM	Text	100			Regulatory stream name.	Yes		
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
CO_FIPS1	Text	5			County FIPS Code 1. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
CO_FIPS2	Text	5			County FIPS Code 2. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS3	Text	5			County FIPS Code 3. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS4	Text	5			County FIPS Code 4. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS5	Text	5			County FIPS Code 5. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS6	Text	5			County FIPS Code 6. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS7	Text	5			County FIPS Code 7. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS8	Text	5			County FIPS Code 8. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS9	Text	5			County FIPS Code 9. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS

CO_FIPS10	Text	5			County FIPS Code 10. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		
ISNEW	Integer				ISNEW = 1 indicates features that were studied or updated as a part of the latest submittal. ISNEW = 0 indicates features that were previously effective and not updated as a part of the latest submittal.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the Application of Primary Keys for Back Population (Effective Data) section of the Data Inputs section of this dictionary.

V_E_HYDROGAGE								
A point feature class that is used to locate precipitation and flow gages for the effective study. V_E_HYDROGAGE is derived from the S_HYDROGAGE feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class is required if it is utilized for calibration, regression, or frequency analysis.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
V_GAGEID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
GAGEID	Text	25			Foreign key to S_HYDROGAGE.	Yes		
HYDROID	Text	25			Hydrologic Model Identification. A code that provides a link to the hydrologic model feature class, S_HYDROMODEL.	Yes		
WTR_NM_LID	Text	25			Surface Water Feature Name from S_WTR_NM. This is the formal name of the surface water feature associated with the stream gage. Doesn't apply to precipitation gages.	Yes		
GAGENAME	Text	100			An alpha-numeric name.	Yes		
GAGE_LID	Text	5			Gage Type Lookup Identification.	Yes		D_GAGE
GAGEDESC	Text	254			Information describing the location of the gage (i.e. Black River at I-95).	Yes		
REC_INTVL	Text	11			Recording Interval. Recording interval for the gage.	Yes		
START_PD	Date/Time				Start Period. This value is the start of the earliest period of record used in the gage analysis.	Yes		
END_PD	Date/Time				End Period. This value is the end of the latest period of record used in the gage analysis.	Yes		

TIMEFNAME	Text	254			File name of database file with time series data. File should be stored in the FILE_L_HYDROMODEL folder for this watershed.	No		
TIME_LID	Text	5			Recording Interval Time Unit Lookup Identification. A code that provides a link to a valid entry from D_TIME_UNITS.	Yes		D_TIME_UNITS
DA	Numeric		10	2	Gage Drainage Area.	Yes		
AREA_LID	Text	5			Units of area measure. A code that provides a link to an entry from D_AREA_UNITS.	Yes		D_AREA_UNITS
AGENCY	Text	150			Name of agency maintaining the gage.	Yes		
GAGEOWN_ID	Text	25			Gage Identification. Assigned by the agency maintaining the gage.	Yes		
DTA_ACCESS	Text	254			Data Access Information. URL for finding gage data, if available.	No		
WTR_NM	Text	100			Regulatory stream name.	Yes		
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
CO_FIPS1	Text	5			County FIPS Code 1. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
CO_FIPS2	Text	5			County FIPS Code 2. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS3	Text	5			County FIPS Code 3. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS4	Text	5			County FIPS Code 4. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS

CO_FIPS5	Text	5			County FIPS Code 5. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS6	Text	5			County FIPS Code 6. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS7	Text	5			County FIPS Code 7. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS8	Text	5			County FIPS Code 8. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS9	Text	5			County FIPS Code 9. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS10	Text	5			County FIPS Code 10. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		
ISNEW	Integer				ISNEW = 1 indicates features that were studied or updated as a part of the latest submittal. ISNEW = 0 indicates features that were previously effective and not updated as a part of the latest submittal.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the Application of Primary Keys for Back Population (Effective Data) section of the Data Inputs section of this dictionary.

V_E_HYDRONODE								
A point feature class that is required for all types of effective hydrologic analyses. V_E_HYDRONODE is derived from the S_HYDRONODE feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate NCFRIS content creation.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
V_NODEID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
NODEID	Text	25			Foreign key to S_HYDRONODE	Yes		
HYDROID	Text	25			Hydrologic Model Identification. A code that provides a link to the hydrologic model feature class, S_HYDROMODEL.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
NODENAME	Text	254			Model identification or descriptive name for this node. This information will be included in the FIS text. Must be unique across a watershed.	Yes		
NODE_TYP	Text	5			Node Type. Values include junction (default), structure, outlet, and diversion. This field if required when the node is utilized in the hydraulic model. Acceptable values for this field are listed in the D_NODE_TYP table.	No		D_NODE_TYP

NODE_DESC	Text	100			Node Location Description. This describes the location of the node. This name must match what is used in the model and is what will be shown in the Summary of Discharges Table and Summary of Elevations Table in the FIS Text. Must be unique across a watershed. Examples of this value include “Downstream of State Route 234”, “At the confluence of Hillton Run”, and “Approximately 1.08 miles upstream of confluence with McIntosh Run.”	Yes		
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
CO_FIPS1	Text	5			County FIPS Code 1. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
CO_FIPS2	Text	5			County FIPS Code 2. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS3	Text	5			County FIPS Code 3. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS4	Text	5			County FIPS Code 4. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS5	Text	5			County FIPS Code 5. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS6	Text	5			County FIPS Code 6. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS

CO_FIPS7	Text	5			County FIPS Code 7. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS8	Text	5			County FIPS Code 8. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS9	Text	5			County FIPS Code 9. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS10	Text	5			County FIPS Code 10. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		
ISNEW	Integer				ISNEW = 1 indicates features that were studied or updated as a part of the latest submittal. ISNEW = 0 indicates features that were previously effective and not updated as a part of the latest submittal.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the Application of Primary Keys for Back Population (Effective Data) section of the Data Inputs section of this dictionary.

V_E_LIMWA

A linear feature class required for all preliminary or final FIRM Databases that show coastal Limit of Moderate Wave Action (LiMWA) features. V_E_LIMWA is derived from the S_LIMWA feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. The S_LIMWA layer is required when a Limit of Moderate Wave Action (LiMWA, previously described as a Coastal Zone A boundary line) is delineated within the coastal floodplain. This layer is required for new coastal analysis. The spatial entities representing the LiMWA are lines. The line represents the limit of 1.5 foot or greater waves in a Coastal AE Zone.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
V_LIMWA_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
LIMWA_ID	Text	25			Foreign key to S_LIMWA.	Yes		
CST_MDL_ID	Text	25			Foreign key to S_CSTMODEL.	Yes		
SHOWN_FIRM	Integer				LiMWA Line Shown On FIRM. This field indicates if the LiMWA line feature is shown on the FIRM. This field is true when the line is shown and false when the line is not shown. 0 = False, 1 = True.	Yes		
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
CO_FIPS1	Text	5			County FIPS Code 1. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
CO_FIPS2	Text	5			County FIPS Code 2. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS

CO_FIPS3	Text	5			County FIPS Code 3. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS4	Text	5			County FIPS Code 4. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS5	Text	5			County FIPS Code 5. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS6	Text	5			County FIPS Code 6. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS7	Text	5			County FIPS Code 7. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS8	Text	5			County FIPS Code 8. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS9	Text	5			County FIPS Code 9. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS10	Text	5			County FIPS Code 10. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		
ISNEW	Integer				ISNEW = 1 indicates features that were studied or updated as a part of the latest submittal. ISNEW = 0 indicates features that were previously effective and not updated as a part of the latest submittal.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

V_E_LIMWA_AR								
The V_E_LIMWA_AR layer will be compiled on an as needed basis by the NCFMP to incorporate new coastal analyses. V_E_LIMWA_AR is derived from the S_LIMWA_AR feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. S_LIMWA_AR is a polygon feature class that shows the coastal Limit of Moderate Wave Action (LiMWA) features that have been derived from the S_LIMWA polyline. The S_LIMWA layer is required when a Limit of Moderate Wave Action (LiMWA, previously described as a Coastal Zone A boundary) is delineated within the coastal floodplain.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
V_LIMWAAR_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
LIMWAAR_ID	Text	25			Foreign key to S_LIMWA.	Yes	Yes	
SHOWN_FIRM	Integer				LiMWA Polygon Shown On FIRM? This field indicates if the LiMWA feature is shown on the FIRM. This field is true when the polygon is shown and false when it is not shown. 0 = False, 1 = True.	Yes		
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
CO_FIPS	Text	5			County FIPS Code. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		

ISNEW	Integer				ISNEW = 1 indicates features that were studied or updated as a part of the latest submittal. ISNEW = 0 indicates features that were previously effective and not updated as a part of the latest submittal.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

V_E_NONENCROACHMENT_AR								
A polygon feature class that identifies non-encroachment areas for limited detailed studies. This feature class is required for all types of hydraulic analyses.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
V_NONENCID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
NONENCRID	Text	25			Foreign key to S_NONENCROACHMENT_AR.	Yes		
HYDRAID	Text	25			Foreign key to S_HYDRAMODEL.	Yes		
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
CO_FIPS1	Text	5			County FIPS Code 1. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
CO_FIPS2	Text	5			County FIPS Code 2. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS3	Text	5			County FIPS Code 3. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS4	Text	5			County FIPS Code 4. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS5	Text	5			County FIPS Code 5. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS

CO_FIPS6	Text	5			County FIPS Code 6. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS7	Text	5			County FIPS Code 7. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS8	Text	5			County FIPS Code 8. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS9	Text	5			County FIPS Code 9. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS10	Text	5			County FIPS Code 10. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		
ISNEW	Integer				ISNEW = 1 indicates features that were studied or updated as a part of the latest submittal. ISNEW = 0 indicates features that were previously effective and not updated as a part of the latest submittal.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

V_E_PFD_LN								
V_E_PFD_LN is derived from the S_PFD_LN feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. A linear spatial file of Primary Frontal Dune information. This file is required when a primary frontal dune (PFD) is present along portions, or all of the coastline within the modeled coastal floodplain.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
V_PFD_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
VZONE_LIMT	Integer				Limit of V Zone. This field indicates if the line is a limit of the Zone V(E) limit is based on the PFD. This field is true when the PFD determines the Zone V(E) limit and is false when the PFD is not the controlling factor of the Zone V(E) limit. 0 = False, 1 = True.	Yes		
PFDSRCDESC	Text	254			Description of the PFD delineation method and source data used aerial, topo, etc...	Yes		
PFDSRCDT	Date				Date of source data used in the PFD delineation.	Yes		
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
CO_FIPS	Text	5			County FIPS Code. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		

ISNEW	Integer				ISNEW = 1 indicates features that were studied or updated as a part of the latest submittal. ISNEW = 0 indicates features that were previously effective and not updated as a part of the latest submittal.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

V_E_SIMPL_CST_ZONE_AR								
V_E_SIMPL_CST_ZONE_AR is derived from the S_SIMPL_CST_ZONE_AR feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. This polygon feature class represents the relative level of wave action within the coastal 1% annual chance floodplain. This is an enhanced feature class that is required to be populated when this dataset is specifically included as part of the project scope. The elements within this feature class should be split at the boundary of the county in which the update falls to fulfill the CO_FIPS for the visualization layer requirements.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
V_SCZ_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
WAVE_HAZ	Text	5			Wave Action Level. Indicates the relative level of wave action within the coastal 1% annual chance floodplain. The valid values for this field are in the domain D_WAVE_HAZ: HIGH (areas designated as coastal high hazard areas – V or VE, including the primary frontal dune if present), MODERATE (Coastal A Zone areas with wave heights between 1.5 and 3 feet), and MINIMAL (A Zone areas with wave heights less than 1.5 feet).	Yes		D_WAVE_HAZ
BLDG_COUNT	Long Integer				Optional field that can be populated with a count of the number of buildings within each wave hazard feature polygon if a building footprint feature class exists.	No		
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
CO_FIPS	Text	5			County FIPS Code. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS

V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		
ISNEW	Integer				ISNEW = 1 indicates features that were studied or updated as a part of the latest submittal. ISNEW = 0 indicates features that were previously effective and not updated as a part of the latest submittal.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

V_E_STREAMCNTRLINE								
A linear feature class that is required for locating all cross-sections and for referencing the data from the effective hydraulic study. V_E_STREAMCNTRLINE is derived from the S_STREAMCNTRLINE feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate NCFRIS content creation.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
V_STRMLNID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
STRMLINEID	Text	25			Foreign key to S_STREAMCNTRLINE.			
HYDRAID	Text	25			Hydraulic Model Identification. A code that provides a link to the hydraulic model feature class, S_HYDRAMODEL.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
WATER_LID	Text	5			Surface Water Feature Lookup Identification.	Yes		D_WATER_TYP
SEGNAME	Text	254			An optional identification string for each reach. If used, this must be unique for a stream.	No		
LEN_LID	Text	5			Length Units. This is the unit of measure for the vertical datum offset distance length.	No		D_LENGTH_UNITS
V_DATM_OFF	Numeric		38	8	Vertical Datum Offset. Populated if a single vertical datum offset cannot be used across the flood risk project and offset values must be calculated stream by stream.	No		

ONINDEX	Integer				Does this feature appear on the Countywide Panel Index? 0 = False, 1 = True.	Yes		
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
CO_FIPS1	Text	5			county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
CO_FIPS2	Text	5			County FIPS Code 2. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS3	Text	5			County FIPS Code 3. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS4	Text	5			County FIPS Code 4. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS5	Text	5			County FIPS Code 5. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS6	Text	5			County FIPS Code 6. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS7	Text	5			County FIPS Code 7. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS8	Text	5			County FIPS Code 8. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS9	Text	5			County FIPS Code 9. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS

CO_FIPS10	Text	5			County FIPS Code 10. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		
ISNEW	Integer				ISNEW = 1 indicates features that were studied or updated as a part of the latest submittal. ISNEW = 0 indicates features that were previously effective and not updated as a part of the latest submittal.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the Application of Primary Keys for Back Population (Effective Data) section of the Data Inputs section of this dictionary.

V_E_STRUC								
A linear feature class that contains attributes and locational information for each effective structure. V_E_STRUC is derived from the S_STRUC feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class is required for all types of field survey.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
V_STRUC_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
STRUC_ID	Text	25			Foreign key to S_STRUC	Yes		
SURVYGRPID	Text	25			Foreign key to S_SURVEYGROUP.	Yes		
STRUCT_LID	Text	5			Structure Type Lookup Identification. If structure type is OTHER/MISC STRUCTURE provide a detailed description of the structure type in the STRUC_DESC column.	Yes		D_STRUC_TYP
TBM_ID	Text	25			Foreign key to S_TBM. Elevation reference point of cross section.	Yes		
STRUCT_NM	Text	50			Field name of the structure.	Yes		
STRUC_DESC	Text	4000			Structure Description. This is a description of the structure itself.	No		
LOC_DESC	Text	254			Location Description. This is a description of where the structure is located. Used in FIS report Flood Protection Measures table, if applicable.	No		
ROADNM	Text	254			Road name or location of structure.	Yes		
STREAM_STN	Numeric		14	2	Distance along stream from a user-defined reference point to where structure intersects stream.	No		

WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
ORIENT	Text	5			Direction in which survey shots were taken. Valid values are LEFT TO RIGHT LOOKING UPSTREAM or LEFT TO RIGHT LOOKING DOWNSTREAM.	No		D_ORIENT
CLSTN	Numeric		10	2	Station at intersection of stream centerline and cross section. Measured from the left endpoint of the structure moving right, looking downstream.	No		
USINVERT	Numeric		10	2	Elevation of the lowest point in stream, under structure on the upstream side.	No		
DSINVERT	Numeric		10	2	Elevation of the lowest point in stream, under structure on downstream side.	No		
LNGTH	Numeric		10	2	Distance from beginning of structure to end.	Yes		
WDTH	Numeric		10	2	For bridges, culverts, and dams, the hydraulic distance from one edge of structure to the other, parallel to stream.	Yes		
MTLFIL_LID	Text	5			Fill material type lookup identification. A code that provides a link to an entry from D_MTLTYP.	No		D_MTLTYP
MTLBED_LID	Text	5			Bed material type lookup identification. A code that provides a link to an entry from D_MTLTYP.	No		D_MTLTYP
SKEW	Numeric		12	4	Angle of structure, if not perpendicular to stream.	No		
RAILAVGHT	Numeric		10	2	Average rail height.	No		

LOCASBILT	Text	50			Firm or agency that has as-built plans.	No		
LOCINSPEC	Text	50			Firm or agency that has current inspection data.	No		
LOCPLANS	Text	100			Where structure construction plans are located.	No		
MAINTRESP	Text	50			Name of agency with overall maintenance responsibility for structure.	No		
YRBUILT	Date/Time				Year structure was built.	No		
YRINSPEC	Date/Time				Inspection date as of flood study.	No		
SHOWN_FIRM	Integer				Shown on FIRM. This field captures if the structure is shown on the FIRM. If the structure is shown on the FIRM, this field would be True. If the structure is not shown on the FIRM, this field is False. 0 = False, 1 = True.	Yes		
COMMENTS	Text	254			General comments or notes.	No		
CLEASTING	Numeric		14	2	Easting or X-Coordinate of centerline station.	No		
CLNORTHING	Numeric		14	2	Northing of Y-Coordinate of centerline station.	No		
SURVEYDT	Date/Time				Date of survey.	Yes		
SURVEY_TM	Text	10			Survey Time. Time of the structure survey. This value should be formatted as hh:mm. This field is populated when the time of the survey is available.	No		
PROVIDEDBY	Text	5			Company name of Mapping Partner who is submitting this dataset.	No		D_CONTRACTOR
FILENM	Text	254			Name of survey file.	Yes		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM

ISFLDPRTCT	Integer				Indicates whether the structure is listed in the Flood Protection Measures table in the FIS.	Yes		
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
CO_FIPS1	Text	5			county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
CO_FIPS2	Text	5			County FIPS Code 2. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS3	Text	5			County FIPS Code 3. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS4	Text	5			County FIPS Code 4. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS5	Text	5			County FIPS Code 5. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS6	Text	5			County FIPS Code 6. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS7	Text	5			County FIPS Code 7. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS8	Text	5			County FIPS Code 8. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS9	Text	5			County FIPS Code 9. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS

CO_FIPS10	Text	5			County FIPS Code 10. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		
ISNEW	Integer				ISNEW = 1 indicates features that were studied or updated as a part of the latest submittal. ISNEW = 0 indicates features that were previously effective and not updated as a part of the latest submittal.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the Application of Primary Keys for Back Population (Effective Data) section of the Data Inputs section of this dictionary.

V_FIRMPAN								
A polygon feature class that contains information about the Flood Insurance Rate Map (FIRM) panel area. V_FIRMPAN is derived from the S_FIRMPAN feature class. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class will be maintained by NCFMP and is not required for contractor submittals.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
FIRM_ID	Text	25			Primary key. Defined by a 10 digit FIRM panel number without suffix. i.e. 3720465800.	Yes	Yes	
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
PANEL	Text	4			Panel Number.	Yes		
SCALE_LID	Text	5			Map Scale Lookup Identification.	Yes		
MAPID34	Text	2			2-digit panel state plane coordinate millions values.	Yes		
MAPID910	Text	2			2-digit NC FIRM map number ending.	Yes		
MAP310	Text	8			8-digit Land Records Management Program (LRMP) state plane coordinate for the southwest corner of the panel, combination of MAPID34, PANEL, MAPID910.	Yes		
FIRM_PAN	Text	11			Complete FIRM Panel Number.	Yes		
CO_FIPS1	Text	5			County FIPS Code. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
CO_FIPS2	Text	5			County FIPS Code 2. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS3	Text	5			County FIPS Code 3. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS

CO_FIPS4	Text	5			County FIPS Code 4. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS5	Text	5			County FIPS Code 5. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS6	Text	5			County FIPS Code 6. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS7	Text	5			County FIPS Code 7. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS8	Text	5			County FIPS Code 8. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS9	Text	5			County FIPS Code 9. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS10	Text	5			County FIPS Code 10. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
METAID	Text	25			Foreign key to METADATA.	Yes		

V_HUC								
This spatial file contains the Hydrologic Unit Codes (HUCs) for the flood risk project flood risk project area. V_HUC is derived from the S_HUC feature class. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class will be maintained by NCFMP and is not required for contractor submittals.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
HUC_ID	Text	25			Primary key for table lookup. Assigned by table creator.	Yes	Yes	
HUC_CODE	Text	8			Unique hydrologic unit based on USGS levels of classification in the hydrologic unit system.	Yes		
HUC_NAME	Text	254			The primary name of the hydrologic unit.	Yes		
DESCRIPT	Text	254			Hydrologic unit code description. This is used to populate the Description of Affected Area in the FIS Basin Description table.	Yes		
DA	Numeric		10	2	Drainage Area.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
WTR_NM	Text	100			Regulatory stream name.	Yes		
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
CO_FIPS1	Text	5			County FIPS Code 1. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
CO_FIPS2	Text	5			County FIPS Code 2. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS

CO_FIPS3	Text	5			County FIPS Code 3. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS4	Text	5			County FIPS Code 4. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS5	Text	5			County FIPS Code 5. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS6	Text	5			County FIPS Code 6. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS7	Text	5			County FIPS Code 7. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS8	Text	5			County FIPS Code 8. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS9	Text	5			County FIPS Code 9. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS10	Text	5			County FIPS Code 10. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS11	Text	5			County FIPS Code 11. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
CO_FIPS12	Text	5			County FIPS Code 12. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS13	Text	5			County FIPS Code 13. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS

CO_FIPS14	Text	5			County FIPS Code 14. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS15	Text	5			County FIPS Code 15. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS16	Text	5			County FIPS Code 16. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS17	Text	5			County FIPS Code 17. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
METAID	Text	25			Foreign key to METADATA.	Yes		

V_REFGRID								
A polygon feature class that identifies the extents of visualization packet data exchanges between NCFMP and its contractors. Contractors will intersect the V_REFGRID feature class with their visualization feature classes in order to apply the V_GRIDID foreign key. The NCFMP utilizes the statewide FIRM panel geometry and FIRM panel numbering for its reference grid. This feature class is maintained by the NCFMP and is not required for contractor data submittals.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
V_GRIDID	Text	25			Primary key defined by NCFMP.	Yes	Yes	

NCFRIS Visualization Layers

(Preliminary)

V_P_CBRS								
A polygon feature class that contains information about the Coastal Barrier Resources Systems (CBRS) and Otherwise Protected (OPA) areas within the study area, if applicable. V_P_CBRS is derived from the S_CBRS feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate NCFRIS content creation.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
V_CBRSID	Text	25			Primary key. Defined by the NCFMP.	Yes	Yes	
CBRS_ID	Text	26			Foreign key to S_CBRS.			
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
CBRS_LID	Text	5			CBRS Lookup Identification.	Yes		D_CBRS_TYP
CBRS_TF	Integer				This field is True if the area is a CBRS and False for an OPA. 0 = False, 1 = True.	Yes		
CBRS_DATE	Text	10			CBRS Date. Legislative or administrative date on which prohibitions for the CBRS area apply.	Yes		D_CBRSDT
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
CO_FIPS1	Text	5			County FIPS Code 1. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
CO_FIPS2	Text	5			County FIPS Code 2. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS3	Text	5			County FIPS Code 3. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS

CO_FIPS4	Text	5			County FIPS Code 4. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS5	Text	5			County FIPS Code 5. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS6	Text	5			County FIPS Code 6. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS7	Text	5			County FIPS Code 7. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS8	Text	5			County FIPS Code 8. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS9	Text	5			County FIPS Code 9. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS10	Text	5			County FIPS Code 10. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

V_P_CSLF_AR								
A polygon feature class depicting areas of change between new and previous flood hazards. V_P_CSLF_AR is derived from the S_CSLF_AR feature class and compiled at a countywide extent. Supplemental fields/content are added to facilitate NCFRIS content creation.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
V_CSLFID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD).	Yes	Yes	
COMMGRPID	Text	25			Foreign key link to S_COMMUNITY_GROUP.	Yes		
CNMS_ID	Text	12			CNMS Identifier. Foreign Key to S_Studies_Ar feature class in the CNMS Database. This identifier is composed of the 5-digit county FIPS code, '02' indicating the S_Studies_Ar feature class, and a 5-digit unique sequential number.	Yes		
OLD_ZONE	Text	5			Previous Flood Zone Designation. This is the flood zone designation from the previous, effective FIRM.	Yes		D_ZONE
OLD_ZONEST	Text	5			Previous Flood Zone Subtype Designation. This is the designation from the previous, effective FIRM.	Yes		D_ZONE_SUBTYPE
OLDHYDRAID	Text	25			Previous foreign key to S_HYDRAMODEL table.	No		
OLDCSTLID	Text	25			Previous foreign key to S_CSTMODEL table.	No		
OLD_TOPO	Text	5			Topographic Type used for previous delineation.	No		D_TOPO_TYP

OLD_METAID	Text	25			Previous foreign key to METADATA table.	No		
NEW_ZONE	Text	5			New Flood Zone Designation. This is the flood zone designation from the current project.	Yes		D_ZONE
NEW_ZONEST	Text	5			New Flood Zone SubType Designation. This is the flood zone designation from the current project.	Yes		D_ZONE_SUBTYPE
NEWHYDRAID	Text	25			New foreign key to S_HYDRAMODEL table.	Yes		
NEWCSTLID	Text	25			New foreign key to S_CSTMODEL table.	Yes		
NEW_TOPO	Text	5			Topographic Type used for new delineation.	Yes		D_TOPO_TYP
NEW_METAID	Text	50			Previous foreign key to METADATA table.	Yes		
SFHACHG	Text	5			SFHA Change. The type of SFHA change for each CSLF polygon based upon previous and new flood zones (i.e., does this polygon indicate an Increase/Decrease/Zero change in the SFHA).	No		D_CHANGE
FLDWYCHG	Text	5			Floodway Change. The type of floodway change for each CSLF polygon based upon previous and new flood zones (i.e., does this polygon indicate an Increase/Decrease/Zero change in the floodway area).	No		D_CHANGE

NONSFHACHG	Text	5			Non-SFHA Change. The type of non-SFHA change for each CSLF polygon based upon previous and new flood zones (i.e., does this polygon indicate an Increase/Decrease/Zero change in the non-SFHA area).	No		D_CHANGE
CHHACHG	Text	5			Increase or decreases in the SFHA in coastal communities that have been newly added into, or removed from, the coastal high hazard areas (VE or V Zones). This field is not meant to capture changes in V zone elevations (e.g. VE10 to VE12, VE9 to VE8, etc.).	No		D_CHANGE
STRUCTURES	Long				The estimated count of affected structures within the area of change. This is an enhanced field.	No		
POPULATION	Numeric		38	8	The estimated affected population within the area of change. This is an enhanced field.	No		
CID	Text	6			Community Identification Number. This is the six-digit community identification number assigned by FEMA.	Yes		D_CID
HUC8_CODE	Text	8			WBD 8-digit Hydrologic Unit Code for the sub-basin in which the CSLF polygon feature lies. If a feature crosses a HUC-8 boundary, the field shall be populated with the HUC-8 value in which the majority of the feature lies.	Yes		
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS

CO_FIPS	Text	5			County FIPS Code. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_CO_FIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

V_P_CST_GAGE								
A point feature class that contains information about coastal gages for the study area. V_P_CST_GAGE is derived from the S_CST_GAGE feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class is required if there is coastal study in the county.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
CST_GAGE_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
CST_MDL_ID	Text	25			Foreign key to S_CSTMODEL.	Yes		
GAGESRCID	Text	50			Gage number assigned by agency maintaining gage.	Yes		
GAGE_NM	Text	150			Gage name assigned by agency maintaining gage.	Yes		
GAGEDESC	Text	254			Information describing the location of the gage (i.e. Black River at I-95).	Yes		
AGENCY	Text	150			Name of agency maintaining the gage.	Yes		
REC_INTVL	Text	11			Recording Interval. This field is populated only if the coastal gage is a fixed-interval gage.	Yes		
TIME_LID	Text	5			Recording Interval Time Unit Lookup Identification.	Yes		D_TIME_UNITS
START_PD	Date/Time				Gage Record Starting Date. Start of earliest period of record used in gage analysis.	Yes		
END_PD	Date/Time				Gage Record Ending Date. End of latest period of record used in gage analysis.	Yes		
GAGE_LID	Text	5			Gage Type Lookup Identification.	Yes		D_GAGE
WVDIR_TF	Integer				Does the gage record wave direction True or False? 0 = False, 1 = True.	Yes		

WDSPD_TF	Integer				Does the gage record wind speed True or False? 0 = False, 1 = True.	Yes		
WDDIR_TF	Integer				Does the gage record wind direction True or False? 0 = False, 1 = True.	Yes		
START_TIME	Text	10			Gage Record Starting Time. This is the time for the start of the earliest period of record used in gage analysis. This value should be formatted as hh:mm. This field is populated when the starting time is available.	No		
END_TIME	Text	10			Gage Record Ending Date. This is the time for the end of the latest period of record used in gage analysis. This value should be formatted as hh:mm. This field is populated when the end time is available.	No		
DATUM_CONV	Numeric		10	2	Vertical Datum Conversion. This is the value used to convert from the gage datum (such as MLLW and MSL) to NAVD88. This value may be a decimal number. This field is populated when there is a vertical datum conversion between the gage data datum and NAVD88.	No		
TIDE_TF	Integer				Record Tide Elevations. Does the gage record tide elevations? 0 = False, 1 = True.	Yes		
TIDE_EPOCH	Text	11			Tidal Epoch. This field stores the date range for the tidal epoch; for example, “1983-2001.” This field is populated when the tide gage information is available.	No		

TIDE_VBM	Text	11			Tide Benchmark Vertical Marker. This is the NOAA, NGS or community-assigned permanent benchmark identifier. The identifier must be unique for each benchmark.	No		
WVSPEC_TF	Integer				Record Wave Spectra. Does the gage record wave spectra? 0 = False, 1 = True.	Yes		
WDSTN_HT	Long				Wind Station Height. This is the height of the wind station above ground elevation. This field is populated when wind gage data is used in the flood risk project.	No		
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
CO_FIPS1	Text	5			county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
CO_FIPS2	Text	5			County FIPS Code 2. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS3	Text	5			County FIPS Code 3. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS4	Text	5			County FIPS Code 4. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS5	Text	5			County FIPS Code 5. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS

CO_FIPS6	Text	5			County FIPS Code 6. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS7	Text	5			County FIPS Code 7. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS8	Text	5			County FIPS Code 8. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS9	Text	5			County FIPS Code 9. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS10	Text	5			County FIPS Code 10. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		
ISNEW	Integer				ISNEW = 1 indicates features that were studied or updated as a part of the latest submittal. ISNEW = 0 indicates features that were previously effective and not updated as a part of the latest submittal.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective*

V_P_CSTMODEL

A polygon feature class that identifies the models used for the coastal floodplain delineation study. V_P_CSTMODEL is derived from the S_CSTMODEL feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate NCFRIS content creation.This feature class is drawn as a single polygon that represents the true spatial extent of the surge model, extending around all coastal components for that studied coastline. In some cases coastal modeling features that are associated with the model in question may fall outside the S_CSTMODEL polygon extents. In those situations the related S_CSTMODEL's CST_MDL_ID should be associated with the coastal study in question to solidify the data/model relationship. In certain situations, especially in regards to the back population of data, S_CSTMODEL polygons may overlap. It is expected that under this guidance, when new studies are performed, overlaps will not exist in the S_CSTMODEL geometries. This feature class is required for all types of coastal analyses.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
V_CSTMDLID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD).	Yes	Yes	
CST_MDL_ID	Text	25			Foreign key to S_CSTMODEL.	Yes		
MDL_GRP_ID	Text	25			Foreign key to S_MODEL_GROUP.	Yes		
SURVYGRPID	Text	25			Foreign key to S_SURVEYGROUP.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
STUDYTYPE	Text	5			Study type.	Yes		D_STUDY_TYP
TASK_TYP	Text	5			Data Development Task Type. This is the type of data development task which is represented by the polygonal footprint. Acceptable values for this field are listed in the D_TASK_TYP table.	Yes		D_TASK_TYP

SURGE_LID	Text	5			Hurricane Surge Model Lookup Identification. The surge model information is taken from the D_SURGE_MDL table.	Yes		D_SURGE_MDL
SURGE_DATE	Date/Time				Hurricane Surge Model Run Date. This is the date the model was run.	Yes		
SURGE_ZIP	Text	254			Folder path to the data or filename of zip file containing surge model input, surge model output.	Yes		
PFD_TF	Integer				Have primary frontal dune criteria been applied in the coastal modeling? 0 = False, 1 = True.	Yes		
EROS_TF	Integer				Has erosion treatment been applied in the coastal modeling? 0 = False, 1 = True.	Yes		
SURGE_EFF	Date/Time				Surge Effective Date. Effective date of the surge model.	Yes		
WAVEHT_LID	Text	5			Wave Height Model. This is the name or abbreviation of the FEMA approved wave height model that was used for the coastal engineering analysis. Acceptable values for this field are listed in the D_WAVE_MDL table. This field is populated when wave calculations are included in the scope of the new coastal analysis. This field is also populated for a coastal redelineation or digital conversion when wave height model data are available from a previous flood risk project.	No		D_WAVE_MDL
WAVEHT_DT	Date/Time				Wave Height Model Run Date. This is the date the model was run.	No		

RUNUP_LID	Text	5			Runup Model Lookup Identification. The runup model information is taken from the D_RUNUP_MDL table.	No		D_RUNUP_MDL
RUNUP_DATE	Date/Time				Runup Model Run Date. This is the date the wave runup model was run.	No		
SETUP_METH	Text	5			Wave Setup Methodology. This information should detail the methodology used for determining the wave setup magnitude.	No		D_WAVE_METH
SETUP_DATE	Date/Time				Wave Setup Methodology Date. This is the date the setup methodology was run.	No		
WAVE_EFFDT	Date/Time				Wave Effective Date. Effective date of the wave height and wave runup models. This field is populated for a coastal redelineation or digital conversion when previously effective wave analysis data were used. This field is not populated for new coastal analysis.	No		
WAVE_ZIP	Text	254			File name of zip file containing wave height input, wave height output.	No		
EROS_METH	Text	100			Erosion methodology.	No		
RUNUP_ZIP	Text	254			Filename of zip containing wave runup input, output.	No		
LIMIT_FROM	Text	254			Study Limit From. This is the study limit “from” value, for example “From the North Carolina/City of Virginia Beach boundary.”	Yes		
LIMIT_TO	Text	254			Study Limit To. This is the study limit “to” value, for example “To the northernmost boundary of Fort Story at 96th Street”.	Yes		

STRM_PRM	Text	50			Storm Parameterization Method. This is the name or abbreviation of the storm parameterization method used for storm surge simulations. This field is populated when storm parameterization is included in the new coastal analysis. This field is also populated for a coastal redelineation or digital conversion when storm surge modeling data are available from a previous flood risk project.	No		
STM_PRM_DT	Date/Time				Storm Parameterization Date. This is the date the storm parameterization was completed. This field is populated when the storm parameterization is included in the new coastal analysis. This field is also populated for a coastal redelineation or digital conversion when the storm parameterization data are available from a previous flood risk project.	No		
TDESTAT_MT	Text	50			This is the name or abbreviation of the flood frequency analysis method and distribution used for tide gage analysis. This field is populated when tide gage analysis is included in the new coastal analysis. This field is also populated for a coastal redelineation or digital conversion when tide gage analysis data are available from a previous flood risk project.	No		

TDESTAT_DT	Date/Time				This is the date the tide gage analysis was completed. This field is populated when the tide gage analysis is included in the new coastal analysis. This field is also populated for a coastal redelineation or digital conversion when the tide gage analysis data are available from a previous flood risk project.	No		
R_FETCH_MT	Text	50			Restricted Fetch Wave Growth Methodology. This information should detail the methodology used for calculating restricted fetch wave growth. This field is populated when restricted fetch wave growth is included in the new coastal analysis. This field is also populated for a coastal redelineation or digital conversion when restricted fetch wave growth analysis is available from a previous flood risk project.	No		
R_FETCH_DT	Date/Time				Restricted Fetch Wave Growth Methodology Date. This is the date the restricted fetch wave growth modeling was run. This field is populated when restricted fetch wave growth analysis is included in the new coastal analysis. This field is also populated for a coastal redelineation or digital conversion when restricted fetch wave growth analysis is available from a previous flood risk project.	No		

EROS_DATE	Date/Time				Erosion Analysis Date. This is the date the erosion analysis was completed. This field is populated when erosion is included in the new coastal analysis. This field is also populated for a coastal redelineation or digital conversion when erosion analysis is available from a previous flood risk project.	No		
HAZARDEVAL	Text	25			Coastal hazard type evaluated. Examples include Storm Surge, Storm Parameterization, Wave Runup, Wave Generation, and Overland Wave Propagation.	Yes		
COMP_DATE	Date/Time				Completion Date. This is the date in which work was completed by the assigned Mapping Partner.	Yes		
SWELMAP	Text	254			Filename of zip file containing the 1% Annual Chance Total Stillwater Elevations for Coastal Areas Maps.	Yes		
TSCT_MAP	Text	254			Filename of zip file containing the Transect Locator Map.	Yes		
WHAFIS_TF	Integer				Overland propagation of wave height modeling. Was overland propagation of wave height modeling with FEMA's WHAFIS model performed? 0 = False, 1 = True.	Yes		
OVERTOP_TF	Integer				Wave Overtopping Calculations. Were wave overtopping calculations performed? 0 = False, 1 = True.	Yes		
BW_HGT_TF	Integer				Breaking Wave Height Calculations. Have breaking wave calculations been performed? 0 = False, 1 = True.	Yes		

HVFLOW_TF	Integer				High Velocity Flow Calculations. Have high velocity flow calculations been performed? 0 = False, 1 = True.	Yes		
WAVE_02PCT	Integer				0.2-Percent Wave Calculations. Were 0.2-percent wave calculations performed? 0 = False, 1 = True.	Yes		
RPTNAME	Text	254			File name of the FIS narrative report.	Yes		
SUPPORTZIP	Text	254			Zip File containing additional support files utilized in modeling such as roughness delineations, obstructions, vegetation, etc…	No		
COMMENTS	Text	254			General comments or can be used for footnotes etc…, for FIS summaries.	No		
SPEC_CONS	Text	4000			Special considerations field for describing the modeling methodology used.	No		
WTR_NM	Text	100			Regulatory stream name.	Yes		
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
CO_FIPS1	Text	5			County FIPS Code 1. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
CO_FIPS2	Text	5			County FIPS Code 2. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS3	Text	5			County FIPS Code 3. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS4	Text	5			County FIPS Code 4. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS

CO_FIPS5	Text	5			County FIPS Code 5. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS6	Text	5			County FIPS Code 6. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS7	Text	5			County FIPS Code 7. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS8	Text	5			County FIPS Code 8. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS9	Text	5			County FIPS Code 9. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS10	Text	5			County FIPS Code 10. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		
ISNEW	Integer				ISNEW = 1 indicates features that were studied or updated as a part of the latest submittal. ISNEW = 0 indicates features that were previously effective and not updated as a part of the latest submittal.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

V_P_CSTTSCTLN								
A linear feature class of coastal transect lines for use in engineering analyses. V_P_CSTTSCTLN is derived from the S_CSTTSCTLN feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class is required if there is coastal study within the county.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
TRAN_LN_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
CST_MDL_ID	Text	25			Foreign key to S_CSTMODEL.	Yes		
SHR_LN_ID	Text	25			Foreign key to S_SHORE_LN.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
TRAN_NO	Text	4			Transect number shown on FIRM.	Yes		
TIME_LID	Text	5			Units of Time Measurement Lookup Identification.	Yes		D_TIME_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
VZONE_LID	Text	5			V Zone Extent Lookup Identification.	Yes		D_VZONE
SFHALIMIT	Text	5			1% Annual Chance Boundary Extent Lookup Identification.	Yes		D_SFHALIMIT
METH_LID	Text	5			Source Method Lookup Identification.	Yes		D_METHOD
EFF_TF	Integer				Is the coastal transect part of the effective study? 0 = False, 1 = True.	Yes		
SHOWN_FIRM	Integer				Is the transect shown on the FIRM? 0 = False, 1 = True.	Yes		

LOC_DESC	Text	254			Location Description. This is a description of the location of the coastal transects and is used to populate the Location field in the FIS Summary of Coastal Analyses table.	Yes		
L_DIRECT	Numeric		10	2	Direction of Left Range. Direction is entered as the bearing of the range away from the transect.	Yes		
R_DIRECT	Numeric		10	2	Direction of Right Range. Direction is entered as the bearing of the range away from the transect.	Yes		
EASTING_0	Numeric		10	2	X-Coordinate. The X-coordinate of the 0.0-foot elevation point along the transect.	Yes		
NORTHING_0	Numeric		10	2	Y-Coordinate. The Y-coordinate of the 0.0-foot elevation point along the transect.	Yes		
R_RANGE	Numeric		10	2	Right Range of Coastal Transect. Looking landward, the range is the along-shore distance to the right of the transect line.	Yes		
L_RANGE	Numeric		10	2	Left Range of Coastal Transect. Looking landward, the range is the along-shore distance to the left of the transect line.	Yes		
EROS_LID	Text	5			Erosion Methodology Lookup.	No		D_EROS_METHOD
MEAN_HT	Numeric		10	2	Mean Wave Height. Average height of all waves. This information is typically derived from wave gage data.	No		
MEAN_PD	Numeric		10	2	Mean Wave Period. Average period of all waves. This information is typically derived from wave gage data.	No		
CON_HT	Numeric		10	2	Controlling Wave Height. 1.6 times the significant wave height.	No		

CON_PD	Numeric		10	2	Controlling Wave Period. It is the time it takes for a wave of the controlling wave height to pass a point. Normally shown in seconds. This field is populated when the controlling wave period is available for the start of each transect. This field is not required if the controlling wave period is not available for the start of each transect, and WHAFIS default values are used.	No		
SIG_HT	Numeric		10	2	Significant Wave Height. This is the wave height associated with the 1% annual chance storm event. It is the average height of the highest 1/3 of all waves.	No		
SIG_PD	Numeric		10	2	Significant Wave Period. This is the wave period associated with the 1% annual chance storm event.	No		
SETUP_DPTH	Numeric		10	2	Wave Set-up Depth. This is the depth of wave setup that is added to the 1% annual chance stillwater elevation.	No		
DATUM_CONV	Numeric		10	2	Vertical Datum Conversion. This is the value used to convert from the gage datum (such as MLLW and MSL) to NAVD88. This value may be a decimal number. This field is populated when there is a vertical datum conversion between the gage data datum and NAVD88.	No		
SHR_LID	Text	5			Shoreline Roughness Lookup Identification. A code that provides a link to a valid shoreline type from the D_SHR_ROUGH	Yes		D_SHR_ROUGH

CSTLN_TYP	Text	5			Coastline Type. This describes the type of coastline. Acceptable values for this field are listed in the D_CST_TYP table.	Yes		D_CST_TYP
BEACH_SET	Text	5			Beach Setting. This field describes the local geomorphic characteristics of the shore and backshore zone. Acceptable values for this field are listed in the D_BEACHSET table. See Appendix D of FEMA's Guidelines for additional information regarding beach setting. This field is populated for new coastal analysis. Additionally, for coastal redelineation or digital conversion, this field is populated if the data are available.	No		D_BEACHSET
FETCH_LEN	Numeric		10	2	Fetch Length. This is the starting fetch length. This field is populated when it is used for starting wave conditions for new coastal wave studies.	No		
FTCHLNUNIT	Text	5			Fetch Length Units. This unit indicates the measurement system used for the fetch length. Normally shown in miles. This field is populated when it is used for starting wave conditions for new coastal wave studies.	No		D_LENGTH_UNITS

LU_SOURCE	Text	254			Land Use Description Source. This is the description of a land use data source along the transect (aerials, land-use shapefile, etc.). This field is always populated for new coastal analysis. For data development tasks related to coastal redelineation or digital conversion, this field is populated when the data is available.	No		
ISPFD	Integer				Does the coastal transect intersect the the primary frontal dune (PFD)? 0 = False, 1 = True.	Yes		
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
WTR_NM	Text	100			Regulatory water name.	Yes		
CO_FIPS1	Text	5			County FIPS Code 1. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
CO_FIPS2	Text	5			County FIPS Code 2. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS3	Text	5			County FIPS Code 3. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS4	Text	5			County FIPS Code 4. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS5	Text	5			County FIPS Code 5. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS

CO_FIPS6	Text	5			County FIPS Code 6. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS7	Text	5			County FIPS Code 7. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS8	Text	5			County FIPS Code 8. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS9	Text	5			County FIPS Code 9. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS10	Text	5			County FIPS Code 10. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		
ISNEW	Integer				ISNEW = 1 indicates features that were studied or updated as a part of the latest submittal. ISNEW = 0 indicates features that were previously effective and not updated as a part of the latest submittal.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective*

V_P_FLD_HAZ_AR

A polygon feature class that depicts preliminary flood hazard information. V_P_FLD_HAZ_AR is derived from the S_FLD_HAZ_AR feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class displays the preliminary version of flood hazard information for a county, and may include revisions from incorporated LOMR data. This feature class will be created to show preliminary study data. Effective data will be stitched into the preliminary geometry of this feature class in order to display a contigous countywide version of flood hazard information within the NCFRIS website. This layer is required anytime a contractor produces preliminary flood information. The elements within this feature class should be clipped to the boundary of the county in which the preliminary study falls to fulfill the CO_FIPS for the visualization layer layer requirements.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
V_FLDARID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD).	Yes	Yes	
ZONE_LID	Text	5			Flood Zone Lookup Identification.	Yes		D_ZONE

ZONSUB_LID	Text	5			Flood Zone Subtype. This field captures additional information about the flood zones not related to insurance rating purposes. For example, insurance rate zone Shaded X could be “PROTECTED BY LEVEE” or “0.2 PCT ANNUAL CHANCE FLOOD HAZARD CONTAINED IN STRUCTURE.” Types of floodways are also stored in this field. Normal floodway areas are specified as ‘FLOODWAY.’ Special cases will have a more specific term for the designation (such as COLORADO RIVER) and will appear as a note on the hardcopy FIRM. Acceptable values for this field are listed in the D_ZONE_SUBTYPE table.	No		D_ZONE_SUBTYPE
STATIC_BFE	Numeric		10	2	Static Base Flood Elevation.	No		
DEPTH	Numeric		10	2	Depth Value for Zone AO Areas. This is shown beneath the zone label on the FIRM.	No		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
VELOCITY	Numeric		10	2	Velocity Measurement. For alluvial fan areas.	No		
VEL_LID	Text	5			Velocity Measurement. For alluvial fan areas.	No		D_VELOCITY_UNITS
SFHA_TF	Integer				Is this a special flood hazard area? 0 = False, 1 = True.	Yes		
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS

CO_FIPS	Text	5			County FIPS Code. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
ZONE_LID_VALUE	Text	254			Text based description of the flood zone from D_ZONE, e.g. AE.	Yes		
ZONESUB_LID_VALUE	Text	254			Text based description of the flood zone from D_ZONE_SUBTYPE, e.g. FLOODWAY.	No		
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

V_P_FLD_HAZ_LN

A linear feature class that depicts preliminary flood hazard information. V_P_FLD_HAZ_LN is derived from the S_FLD_HAZ_LN feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class displays the preliminary version of flood hazard information for a county, and may include revisions from incorporated LOMR data. This feature class will be created to show preliminary study data. Effective data will be stitched into the preliminary geometry of this feature class in order to display a contigous countywide version of flood hazard information within the NCFRIS website. This layer is required anytime a contractor produces preliminary flood information. The elements within this feature class should be clipped to the boundary of the county in which the preliminary study falls to fulfill the CO_FIPS for the visualization layer requirements.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
V_FLDLNID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD).	Yes	Yes	
LN_LID	Text	5			Line Lookup Identification.	Yes		D_LN_TYP
CURREFFTF	Integer				True if line is effective, False if line represents historic boundary that is superseded. 0 = False, 1 = True.	No		
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
CO_FIPS	Text	5			County FIPS Code. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

V_P_FLOOD_PROBLEMS

A polygon feature class that contains features representing special flood problems for documentation within the preliminary study. V_P_FLOOD_PROBLEMS is derived from the S_FLOOD_PROBLEMS feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class is required if there are special flood problems to report.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
V_FLPRBMID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD).	Yes	Yes	
FLPRBLMID	Text	25			Foreign key link to S_FLOOD_PROBLEM.	Yes		
COMMGRPID	Text	25			Foreign key to S_COMMUNITY_GROUP.	Yes		
FLD_PROB	Text	4000			Description of Flooding Problems by flooding source.	Yes		
WTR_NM_LID	Text	25			Foreign key link to S_WTR_NM.	No		
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
CO_FIPS1	Text	5			County FIPS Code 1. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
CO_FIPS2	Text	5			County FIPS Code 2. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS3	Text	5			County FIPS Code 3. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS

CO_FIPS4	Text	5			County FIPS Code 4. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS5	Text	5			County FIPS Code 5. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS6	Text	5			County FIPS Code 6. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS7	Text	5			County FIPS Code 7. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS8	Text	5			County FIPS Code 8. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS9	Text	5			County FIPS Code 9. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS10	Text	5			County FIPS Code 10. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		
ISNEW	Integer				ISNEW = 1 indicates features that were studied or updated as a part of the latest submittal. ISNEW = 0 indicates features that were previously effective and not updated as a part of the latest submittal.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

V_P_HWM								
A point feature class that contains the attributes and the locations of the high water marks (HWMs) that were surveyed for the preliminary study. V_P_HWM is derived from the S_HWM feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class is required for all HWM surveys.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
V_HWM_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD).	Yes	Yes	
HWM_ID	Text	25			Foreign key to S_HWM.	Yes		
SURVYGRPID	Text	25			Foreign key to S_SURVEYGROUP.	Yes		
HWMNM	Text	50			Name of high water mark.	Yes		
LNTYP_LID	Text	5			HWM type lookup identification.	Yes		D_HWLNTP
LOCATION	Text	254			Location of the high water mark.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
STREAM_STN	Numeric		38	8	Approximate stream station.	Yes		
ELEV	Numeric		10	2	Elevation of high water mark.	Yes		
STORMNM	Text	50			Name of storm.	No		
EVENTDT	Date/Time				Date of the storm. If the storm date is not known please give an approximate date or date range in the comments field.	Yes		
APX_FREQ	Long				Approximate recurrence interval in years of the high water event.	Yes		
WTNSS_ID	Text	25			Foreign key to L_HWMWTNS table.	Yes		
INTRVIEWDT	Date/Time				Date of interview with witness to high water mark.	Yes		
INTRVWRNM	Text	30			Name of person conducting interview.	No		

SOURCE	Text	5			Source of HWM.	No		D_HWMSRC
SURVEYTY	Text	5			Type of survey.	No		D_SURVEYTY
ACCURACY	Text	25			Survey accuracy rating. (Good, Fair, Poor).	No		
SURVPRMT	Integer				Do the surveyors have permission to survey? 0 = False, 1 = True.	No		
COMMENTS	Text	254			General comments or notes.	No		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
IS_FISDESC	Integer				Is this HWM used in the FIS Historic Flood Elevations table? 0 = False, 1 = True.	Yes		
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
CO_FIPS1	Text	5			County FIPS Code 1. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
CO_FIPS2	Text	5			County FIPS Code 2. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS3	Text	5			County FIPS Code 3. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS4	Text	5			County FIPS Code 4. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS5	Text	5			County FIPS Code 5. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS6	Text	5			County FIPS Code 6. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS

CO_FIPS7	Text	5			County FIPS Code 7. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS8	Text	5			County FIPS Code 8. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS9	Text	5			County FIPS Code 9. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS10	Text	5			County FIPS Code 10. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		
ISNEW	Integer				ISNEW = 1 indicates features that were studied or updated as a part of the latest submittal. ISNEW = 0 indicates features that were previously effective and not updated as a part of the latest submittal.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

V_P_HYDRABFE								
The use of BFE lines is now only required in special cases. V_P_HYDRABFE is derived from the S_HYDRABFE feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. S_HYDRABFE is required for any digital data where BFE lines will be shown in the FMIS web viewer, with the exception of areas where a water surface elevation raster is present for the 1% annual chance flood event or a water surface elevation profile is available. For areas where a 1% annual chance water surface elevation raster is present the regulatory water-surface elevation (BFE value) will be accessible within the FMIS web viewer. For areas where a profile exists, the regulatory water-surface elevation (BFE value) will be labeled on the cross sections as stored in the FIRM Database S_HYDRACROSSSECTION feature class and/or found on the legacy PDF profile that will be available for viewing/download. For proper BFE placement criteria see Volume 1 and section 6.3 of FEMA's Guidelines and Specifications Appendix L and Appendix C respectively.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
V_BFE_LN_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
HYDRAID	Text	25			Hydraulic Model Identification. A code that provides a link to the hydraulic model feature class, S_HYDRAMODEL.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
ELEV	Numeric		10	0	Base Flood Elevation. The rounded, whole foot elevation of the 1-percent-annual-chance flood.	Yes		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
ST_FIPS	Text	5			corresponds to the State Federal Information Processing Standard (FIPS)	Yes		D_STATE_FIPS

CO_FIPS1	Text	5			County FIPS Code 1. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
CO_FIPS2	Text	5			County FIPS Code 2. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS3	Text	5			County FIPS Code 3. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS4	Text	5			County FIPS Code 4. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS5	Text	5			County FIPS Code 5. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS6	Text	5			County FIPS Code 6. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS7	Text	5			County FIPS Code 7. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS8	Text	5			County FIPS Code 8. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS9	Text	5			County FIPS Code 9. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS10	Text	5			County FIPS Code 10. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		

ISNEW	Integer				ISNEW = 1 indicates features that were studied or updated as a part of the latest submittal. ISNEW = 0 indicates features that were previously effective and not updated as a part of the latest submittal.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

V_P_HYDRACROSSSECTION								
A linear feature class that is required for preliminary models that utilize cross sections. V_P_HYDRACROSSSECTION is derived from the S_HYDRACROSSSECTION feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate RFRIS content creation. This feature class is not submitted for two-dimensional models that do not employ cross sections for simulating water surfaces. This feature class is required for preliminary studies.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
V_XSECTID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD).	Yes	Yes	
XSECTID	Text	25			Foreign key to S_HYDRACROSSSECTION.	Yes		
HYDRAID	Text	25			Hydraulic Model Identification. A code that provides a link to the hydraulic model feature class, S_HYDRAMODEL.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
REFPTID	Text	25			Foreign key to S_REFPOINT.	Yes		
STREAM_STN	Numeric		14	2	Distance from the reference point along the stream.	Yes		

WSEL1PCT	Numeric		10	2	1% Annual Chance Base Flood Elevation. This value is constructed by querying the L_HYDRAFLOODRESULT table on EVENTID = 1050 and subsequently performing a summary on the XSECTID field with the WSEL field included in the summary output as the maximum WSEL value. This summary table can then be joined on XSECTID to the V_P_HYDRACROSSSECTION feature class. Max_WSEL from the summary is then calculated into the WSEL1PCT field within the visualization layer. All water surface elevations within this field should be rounded to the tenth of a foot using the absolute rounding method. Within ESRI products, users can achieve the appropriate rounding by employing the formatnumber VB method within the field calculator. E.g., formatnumber([WSEL1PCT],1).	Yes		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
XSNAME	Text	100			Cross section name.	Yes		
XS_LTR	Text	10			Cross section letter or number shown on FIRM.	No		
XS_LN_TYP	Text	5			Cross section line type. NOTE: In all cases users should populate Top of Road (TOR) cross sections with D_XS_LNTYP code 1020 - NOT LETTERED, MAPPED, NOT MODELED.	Yes		D_XS_LNTYP

CENTERSTAT	Numeric		11	2	The cross section station used in the model that corresponds to the intersection point of the stream and cross section. Integer values ordered from left to right looking downstream.	Yes		
BED_ELEV	Numeric		10	2	Lowest stream bed elevation, from profile.	Yes		
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM
DATTYP_LID	Text	5			Cross section or data type lookup identification. A code that provides a link to an entry from D_DATTYP.	Yes		D_DATTYP
PROF_XS_TEXT	Text	80			Profile Cross Section Text. This field stores user-defined cross section text that is plotted on the profile. This field is required when appropriate WSEL Rasters are not able to be produced and an updated profile graph is needed.	No		
WTR_NM	Text	100			Regulatory stream name.	Yes		
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
CO_FIPS1	Text	5			County FIPS Code 1. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
CO_FIPS2	Text	5			County FIPS Code 2. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS3	Text	5			County FIPS Code 3. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS4	Text	5			County FIPS Code 4. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS

CO_FIPS5	Text	5			County FIPS Code 5. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS6	Text	5			County FIPS Code 6. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS7	Text	5			County FIPS Code 7. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS8	Text	5			County FIPS Code 8. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS9	Text	5			County FIPS Code 9. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS10	Text	5			County FIPS Code 10. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		
ISNEW	Integer				ISNEW = 1 indicates features that were studied or updated as a part of the latest submittal. ISNEW = 0 indicates features that were previously effective and not updated as a part of the latest submittal.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

V_P_HYDRAMODEL

A polygon feature class that identifies the models used for the preliminary floodplain delineation study. V_P_HYDRAMODEL is derived from the S_HYDRAMODEL feature class and compiled at a study wide extent representing only preliminary hydra models. Effective hydra models will not reside within this feature class due to symbology requirements that are necessary for the display of preliminary information within NCFRIS. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class is drawn as a single polygon that represents a modeled stream reach extending around all associated hydraulic components. In most cases it is appropriate to snap the polygon vertices to the endpoints of the cross sections, while making sure to encompass all associated hydraulic entities, e.g. backwater fingers etc... In some cases stream centerline features that are associated with the model in question may fall outside the S_HYDRAMODEL polygon extents. In those situations the related S_HYDRAMODEL's HYDRAID should be associated with the stream centerline in question to solidify the data/model relationship. In certain situations, especially in regards to the back population of data, S_HYDRAMODEL polygons may overlap. It is expected that under this guidance, when new studies are performed, overlaps will not exist in the S_HYDRAMODEL geometries. This feature class is required for all types of hydraulic analyses. The elements within this feature class should be clipped to the boundary of the county in which the update falls to fulfill the visualization layer requirements.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
V_HYDRAID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD).	Yes	Yes	
HYDRAID	Text	25			Foreign key to S_HYDRAMODEL.	Yes		
MDL_GRP_ID	Text	25			Foreign key to S_MODEL_GROUP.	Yes		
HYDROID	Text	25			Hydrologic Model Identification. A code that provides a link to the hydrologic model feature class, S_HYDROMODEL.	Yes		
SURVYGRPID	Text	25			Foreign key link to S_SURVEY_GROUP.	Yes		
HYDRA_LID	Text	5			Model type lookup identification.	Yes		D_HYDRA
DESCRIPT	Text	254			Model description.	Yes		
STUDYTYPE	Text	5			Study type.	Yes		D_STUDY_TYP

TASK_TYP	Text	5			Data Development Task Type. This is the type of data development task which is represented by the polygonal footprint. Acceptable values for this field are listed in the D_TASK_TYP table.	Yes		D_TASK_TYP
ISNETWORK	Integer				Specifies whether this is a network model. 0 = False, 1 = True. An entry of 0 for "False" would indicate that it is a backwater model.	Yes		
ISSECLUDED	Integer				Is this area a levee seclusion zone? 0 = False, 1 = True.	Yes		
ISLOMR	Integer				Is this study a LOMR? 0 = False, 1 = True.	Yes		
LOMR_STAT	Text	5			LOMR status. Valid values from D_STATUS.	No		D_STATUS
LOMRDT	Date/Time				LOMR status date.	No		
MDLDT	Date/Time				Final Model Date.	Yes		
ZIPNAME	Text	254			File name of a compressed hydraulic model, including inputs and outputs.	Yes		
RPTNAME	Text	254			File name of the FIS narrative report.	Yes		
START_DESC	Text	254			Start of study limits (downstream) description.	No		
END_DESC	Text	254			End of study limits (upstream) description.	No		
REV_START	Text	254			Start of revision limits (downstream) description. This is used to populate the From field in the Preliminary FIS Scope of Revisions table.	No		
REV_END	Text	254			End of revision limits (upstream) description. This is used to populate the To field in the Preliminary FIS Scope of Revisions table.	No		

COMMENTS	Text	254			General comments or can be used for footnotes etc…, for FIS summaries.	No		
SPEC_CONS	Text	4000			Special considerations field for describing the modeling methodology used.	No		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
WTR_NM	Text	100			Regulatory stream name.	Yes		
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
CO_FIPS1	Text	5			County FIPS Code 1. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
CO_FIPS2	Text	5			County FIPS Code 2. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS3	Text	5			County FIPS Code 3. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS4	Text	5			County FIPS Code 4. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS5	Text	5			County FIPS Code 5. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS6	Text	5			County FIPS Code 6. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS

CO_FIPS7	Text	5			County FIPS Code 7. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS8	Text	5			County FIPS Code 8. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS9	Text	5			County FIPS Code 9. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS10	Text	5			County FIPS Code 10. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		
ISNEW	Integer				ISNEW = 1 indicates features that were studied or updated as a part of the latest submittal. ISNEW = 0 indicates features that were previously effective and not updated as a part of the latest submittal.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

V_P_HYDROGAGE								
A point feature class that is used to locate precipitation and flow gages for the preliminary study. V_P_HYDROGAGE is derived from the S_HYDROGAGE feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class is required if it is utilized for calibration, regression, or frequency analysis.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
V_GAGEID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD).	Yes	Yes	
GAGEID	Text	25			Foreign key to S_HYDROGAGE.	Yes		
HYDROID	Text	25			Hydrologic Model Identification. A code that provides a link to the hydrologic model feature class, S_HYDROMODEL.	Yes		
WTR_NM_LID	Text	25			Surface Water Feature Name from S_WTR_NM. This is the formal name of the surface water feature associated with the stream gage. Doesn't apply to precipitation gages.	Yes		
GAGENAME	Text	100			An alpha-numeric name.	Yes		
GAGE_LID	Text	5			Gage Type Lookup Identification.	Yes		D_GAGE
GAGEDESC	Text	254			Information describing the location of the gage (i.e. Black River at I-95).	Yes		
REC_INTVL	Text	11			Recording Interval. Recording interval for the gage.	Yes		
START_PD	Date/Time				Start Period. This value is the start of the earliest period of record used in the gage analysis.	Yes		
END_PD	Date/Time				End Period. This value is the end of the latest period of record used in the gage analysis.	Yes		

TIMEFNAME	Text	254			File name of database file with time series data. File should be stored in the FILE_L_HYDROMODEL folder for this watershed.	No		
TIME_LID	Text	5			Recording Interval Time Unit Lookup Identification. A code that provides a link to a valid entry from D_TIME_UNITS.	Yes		D_TIME_UNITS
DA	Numeric		10	2	Gage Drainage Area.	Yes		
AREA_LID	Text	5			Units of area measure. A code that provides a link to an entry from D_AREA_UNITS.	Yes		D_AREA_UNITS
AGENCY	Text	150			Name of agency maintaining the gage.	Yes		
GAGEOWN_ID	Text	25			Gage Identification. Assigned by the agency maintaining the gage.	Yes		
DTA_ACCESS	Text	254			Data Access Information. URL for finding gage data, if available.	No		
WTR_NM	Text	100			Regulatory stream name.	Yes		
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
CO_FIPS1	Text	5			County FIPS Code 1. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
CO_FIPS2	Text	5			County FIPS Code 2. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS3	Text	5			County FIPS Code 3. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS4	Text	5			County FIPS Code 4. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS

CO_FIPS5	Text	5			County FIPS Code 5. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS6	Text	5			County FIPS Code 6. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS7	Text	5			County FIPS Code 7. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS8	Text	5			County FIPS Code 8. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS9	Text	5			County FIPS Code 9. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS10	Text	5			County FIPS Code 10. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		
ISNEW	Integer				ISNEW = 1 indicates features that were studied or updated as a part of the latest submittal. ISNEW = 0 indicates features that were previously effective and not updated as a part of the latest submittal.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

V_P_HYDRONODE								
A point feature class that is required for all types of preliminary hydrologic analyses. V_P_HYDRONODE is derived from the S_HYDRONODE feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate NCFRIS content creation.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
V_NODEID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD).	Yes	Yes	
NODEID	Text	25			Foreign key to S_HYDRONODE	Yes		
HYDROID	Text	25			Hydrologic Model Identification. A code that provides a link to the hydrologic model feature class, S_HYDROMODEL.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
NODENAME	Text	254			Model identification or descriptive name for this node. This information will be included in the FIS text. Must be unique across a watershed.	Yes		
NODE_TYP	Text	5			Node Type. Values include junction (default), structure, outlet, and diversion. This field if required when the node is utilized in the hydraulic model. Acceptable values for this field are listed in the D_NODE_TYP table.	No		D_NODE_TYP

NODE_DESC	Text	100			Node Location Description. This describes the location of the node. This name must match what is used in the model and is what will be shown in the Summary of Discharges Table and Summary of Elevations Table in the FIS Text. Must be unique across a watershed. Examples of this value include “Downstream of State Route 234”, “At the confluence of Hillton Run”, and “Approximately 1.08 miles upstream of confluence with McIntosh Run.”	Yes		
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
CO_FIPS1	Text	5			County FIPS Code 1. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
CO_FIPS2	Text	5			County FIPS Code 2. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS3	Text	5			County FIPS Code 3. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS4	Text	5			County FIPS Code 4. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS5	Text	5			County FIPS Code 5. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS

CO_FIPS6	Text	5			County FIPS Code 6. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS7	Text	5			County FIPS Code 7. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS8	Text	5			County FIPS Code 8. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS9	Text	5			County FIPS Code 9. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS10	Text	5			County FIPS Code 10. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		
ISNEW	Integer				ISNEW = 1 indicates features that were studied or updated as a part of the latest submittal. ISNEW = 0 indicates features that were previously effective and not updated as a part of the latest submittal.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

V_P_LIMWA

A linear feature class required for all preliminary or final FIRM Databases that show coastal Limit of Moderate Wave Action (LiMWA) features. V_P_LIMWA is derived from the S_LIMWA feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. The S_LIMWA layer is required when a Limit of Moderate Wave Action (LiMWA, previously described as a Coastal Zone A boundary line) is delineated within the coastal floodplain. This layer is required for new coastal analysis. The spatial entities representing the LiMWA are lines. The line represents the limit of 1.5 foot or greater waves in a Coastal AE Zone.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
V_LIMWA_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
LIMWA_ID	Text	25			Foreign key to S_LIMWA.	Yes		
CST_MDL_ID	Text	25			Foreign key to S_CSTMODEL.	Yes		
SHOWN_FIRM	Integer				LiMWA Line Shown On FIRM. This field indicates if the LiMWA line feature is shown on the FIRM. This field is true when the line is shown and false when the line is not shown. 0 = False, 1 = True.	Yes		
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
CO_FIPS1	Text	5			County FIPS Code 1. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
CO_FIPS2	Text	5			County FIPS Code 2. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS

CO_FIPS3	Text	5			County FIPS Code 3. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS4	Text	5			County FIPS Code 4. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS5	Text	5			County FIPS Code 5. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS6	Text	5			County FIPS Code 6. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS7	Text	5			County FIPS Code 7. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS8	Text	5			County FIPS Code 8. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS9	Text	5			County FIPS Code 9. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS10	Text	5			County FIPS Code 10. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		
ISNEW	Integer				ISNEW = 1 indicates features that were studied or updated as a part of the latest submittal. ISNEW = 0 indicates features that were previously effective and not updated as a part of the latest submittal.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

V_P_LIMWA_AR								
The V_P_LIMWA_AR layer will be compiled on an as needed basis by the NCFMP to incorporate new coastal analyses. V_P_LIMWA_AR is derived from the S_LIMWA_AR feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. S_LIMWA_AR is a polygon feature class that shows the coastal Limit of Moderate Wave Action (LiMWA) features that have been derived from the S_LIMWA polyline. The S_LIMWA layer is required when a Limit of Moderate Wave Action (LiMWA, previously described as a Coastal Zone A boundary) is delineated within the coastal floodplain.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
V_LIMWAAR_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
LIMWAAR_ID	Text	25			Foreign key to S_LIMWA.	Yes	Yes	
SHOWN_FIRM	Integer				LiMWA Polygon Shown On FIRM? This field indicates if the LiMWA feature is shown on the FIRM. This field is true when the polygon is shown and false when it is not shown. 0 = False, 1 = True.	Yes		
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
CO_FIPS	Text	5			County FIPS Code 1. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		

ISNEW	Integer				ISNEW = 1 indicates features that were studied or updated as a part of the latest submittal. ISNEW = 0 indicates features that were previously effective and not updated as a part of the latest submittal.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

V_P_NONENCROACHMENT_AR								
A polygon feature class that identifies non-encroachment areas for limited detailed studies. This feature class is required for all types of hydraulic analyses.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
V_NONENCID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
NONENCRID	Text	25			Foreign key to S_NONENCROACHMENT_AR.	Yes		
HYDRAID	Text	25			Foreign key to S_HYDRAMODEL.	Yes		
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
CO_FIPS1	Text	5			County FIPS Code 1. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
CO_FIPS2	Text	5			County FIPS Code 2. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS3	Text	5			County FIPS Code 3. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS4	Text	5			County FIPS Code 4. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS5	Text	5			County FIPS Code 5. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS

CO_FIPS6	Text	5			County FIPS Code 6. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS7	Text	5			County FIPS Code 7. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS8	Text	5			County FIPS Code 8. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS9	Text	5			County FIPS Code 9. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS10	Text	5			County FIPS Code 10. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		
ISNEW	Integer				ISNEW = 1 indicates features that were studied or updated as a part of the latest submittal. ISNEW = 0 indicates features that were previously effective and not updated as a part of the latest submittal.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

V_P_PFD_LN								
V_P_PFD_LN is derived from the S_PFD_LN feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. A linear spatial file of Primary Frontal Dune information. This file is required when a primary frontal dune (PFD) is present along portions, or all of the coastline within the modeled coastal floodplain.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
V_PFD_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
VZONE_LIMT	Integer				Limit of V Zone. This field indicates if the line is a limit of the Zone V(E) limit is based on the PFD. This field is true when the PFD determines the Zone V(E) limit and is false when the PFD is not the controlling factor of the Zone V(E) limit. 0 = False, 1 = True.	Yes		
PFDSRCDESC	Text	254			Description of the PFD delineation method and source data used aerial, topo, etc...	Yes		
PFDSRCDT	Date				Date of source data used in the PFD delineation.	Yes		
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
CO_FIPS	Text	5			County FIPS Code. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		

ISNEW	Integer				ISNEW = 1 indicates features that were studied or updated as a part of the latest submittal. ISNEW = 0 indicates features that were previously effective and not updated as a part of the latest submittal.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

V_P_REVISIONS								
A polygon feature class that identifies changes in floodplain delineations based on new studies. V_P_REVISIONS facilitates the population of tables 8P, 9P, 10P, and 18P in the Flood Insurance Study Report. This feature class can be constructed from the S_HYDRAMODEL and/or S_CSTMODEL in conjunction with the Changes Since Last FIRM (S_CSLF_AR). The objective is to create spatial features that represent areas revised due to new studies where there is S_HYDRAMODEL and or S_CSTMODEL geometry present (including backwater effects on non-studied streams). V_P_REVISIONS doesn't catalog areas that are not associated with a S_HYDRAMODEL or areas of change such as ZONE A that is converted to ZONE X. V_P_REVISIONS shouldn't be exclusively used to determine preliminary panels issuance. V_P_REVISIONS polygons should not overlap within a single submittal. This feature class is required for all types of preliminary hydraulic and coastal analyses. V_P_REVISIONS is derived from S_REVISIONS feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate RFRIS content creation.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
V_REVISID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
REVISIONID	Text	25			Foreign key to S_REVISIONS.	Yes		
HYDRAID	Text	25			Foreign key to S_HYDRAMODEL.	Yes		
CST_MDL_ID	Text	25			Foreign key to S_CSTMODEL.	Yes		
REV_START	Text	254			Start of revision limits (downstream) description. This is used to populate the From field in the Preliminary FIS Scope of Revisions table. For coastal revisions this would be the revised LIMIT_FROM description.	Yes		
REV_END	Text	254			End of revision limits (upstream) description. This is used to populate the To field in the Preliminary FIS Scope of Revisions table. For coastal revisions this would be the revised LIMIT_TO description.	Yes		

REASON	Text	5			Reason for change to SFHA.	Yes		D_REASON
DESCRIPTION	Text	4000			Description of the revision. It is highly recommended that detailed descriptions be provided when the REASON field contains the 1050 (NCFMP ADJUSTMENT /MODIFICATION) entry.	No		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
WTR_NM	Text	100			Regulatory stream name.	Yes		
STUDYTYP	Text	5			Study type.	Yes		D_STUDY_TYP
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
CO_FIPS1	Text	5			County FIPS Code 1. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
CO_FIPS2	Text	5			County FIPS Code 2. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS3	Text	5			County FIPS Code 3. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS4	Text	5			County FIPS Code 4. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS5	Text	5			County FIPS Code 5. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS6	Text	5			County FIPS Code 6. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS

CO_FIPS7	Text	5			County FIPS Code 7. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS8	Text	5			County FIPS Code 8. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS9	Text	5			County FIPS Code 9. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS10	Text	5			County FIPS Code 10. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		
ISNEW	Integer				ISNEW = 1 indicates features that were studied or updated as a part of the latest submittal. ISNEW = 0 indicates features that were previously effective and not updated as a part of the latest submittal.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

V_P_SIMPL_CST_ZONE_AR								
V_P_SIMPL_CST_ZONE_AR is derived from the S_SIMPL_CST_ZONE_AR feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate NCFRIS content creation.This polygon feature class represents the relative level of wave action within the coastal 1% annual chance floodplain. This is an enhanced feature class that is required to be populated when this dataset is specifically included as part of the project scope. The elements within this feature class should be split at the boundary of the county in which the update falls to fulfill the CO_FIPS for the visualization layer requirements.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
V_SCZ_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD). [1]	Yes	Yes	
WAVE_HAZ	Text	5			Wave Action Level. Indicates the relative level of wave action within the coastal 1% annual chance floodplain. The valid values for this field are in the domain D_WAVE_HAZ: HIGH (areas designated as coastal high hazard areas – V or VE, including the primary frontal dune if present), MODERATE (Coastal A Zone areas with wave heights between 1.5 and 3 feet), and MINIMAL (A Zone areas with wave heights less than 1.5 feet).	Yes		D_WAVE_HAZ
BLDG_COUNT	Long Integer				Optional field that can be populated with a count of the number of buildings within each wave hazard feature polygon if a building footprint feature class exists.	No		

ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
CO_FIPS	Text	5			County FIPS Code. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		
ISNEW	Integer				ISNEW = 1 indicates features that were studied or updated as a part of the latest submittal. ISNEW = 0 indicates features that were previously effective and not updated as a part of the latest submittal.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

[1] For primary key designations on effective data for back population efforts, refer to the *Application of Primary Keys for Back Population (Effective Data)* section of the Data Inputs section of this dictionary.

V_P_STREAMCNTRLINE								
A linear feature class that is required for locating all cross-sections and for referencing the data from the preliminary hydraulic study. V_P_STREAMCNTRLINE is derived from the S_STREAMCNTRLINE feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate NCFRIS content creation.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
V_STRMLNID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD).	Yes	Yes	
STRMLINEID	Text	25			Foreign key to S_STREAMCNTRLINE.			
HYDRAID	Text	25			Hydraulic Model Identification. A code that provides a link to the hydraulic model feature class, S_HYDRAMODEL.	Yes		
WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
WATER_LID	Text	5			Surface Water Feature Lookup Identification.	Yes		D_WATER_TYP
SEGNAME	Text	254			An optional identification string for each reach. If used, this must be unique for a stream.	No		
LEN_LID	Text	5			Length Units. This is the unit of measure for the vertical datum offset distance length.	No		D_LENGTH_UNITS
V_DATM_OFF	Numeric		38	8	Vertical Datum Offset. Populated if a single vertical datum offset cannot be used across the flood risk project and offset values must be calculated stream by stream.	No		

ONINDEX	Integer				Does this feature appear on the Countywide Panel Index? 0 = False, 1 = True.	Yes		
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
CO_FIPS1	Text	5			county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
CO_FIPS2	Text	5			County FIPS Code 2. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS3	Text	5			County FIPS Code 3. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS4	Text	5			County FIPS Code 4. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS5	Text	5			County FIPS Code 5. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS6	Text	5			County FIPS Code 6. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS7	Text	5			County FIPS Code 7. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS8	Text	5			County FIPS Code 8. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS9	Text	5			County FIPS Code 9. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS

CO_FIPS10	Text	5			County FIPS Code 10. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		
ISNEW	Integer				ISNEW = 1 indicates features that were studied or updated as a part of the latest submittal. ISNEW = 0 indicates features that were previously effective and not updated as a part of the latest submittal.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

V_P_STRUC								
A linear feature class that contains attributes and locational information for each preliminary structure. V_P_STRUC is derived from the S_STRUC feature class and compiled at a study wide extent. Supplemental fields/content are added to facilitate NCFRIS content creation. This feature class is required for all types of field survey.								
Field	**Data Type**	**Length**	**Precision**	**Scale**	**Description**	**Required**	**PK**	**Domain Table**
V_STRUC_ID	Text	25			Primary key. Defined by mapping contractor using the formula STFIPS + CONTRACTOR IDENTIFICATION CODE (D_CONTRACTOR) + DATE + SEQUENTIAL NUMBER (where date = YYYYMMDD).	Yes	Yes	
STRUC_ID	Text	25			Foreign key to S_STRUC	Yes		
SURVYGRPID	Text	25			Foreign key to S_SURVEYGROUP.	Yes		
STRUCT_LID	Text	5			Structure Type Lookup Identification. If structure type is OTHER/MISC STRUCTURE provide a detailed description of the structure type in the STRUC_DESC column.	Yes		D_STRUC_TYP
TBM_ID	Text	25			Foreign key to S_TBM. Elevation reference point of cross section.	Yes		
STRUCT_NM	Text	50			Field name of the structure.	Yes		
STRUC_DESC	Text	4000			Structure Description. This is a description of the structure itself.	No		
LOC_DESC	Text	254			Location Description. This is a description of where the structure is located. Used in FIS report Flood Protection Measures table, if applicable.	No		
ROADNM	Text	254			Road name or location of structure.	Yes		
STREAM_STN	Numeric		14	2	Distance along stream from a user-defined reference point to where structure intersects stream.	No		

WTR_NM_LID	Text	25			Water Name Lookup Identification. A code that provides a link to the name of the water feature in the S_WTR_NM feature class.	Yes		
ORIENT	Text	5			Direction in which survey shots were taken. Valid values are LEFT TO RIGHT LOOKING UPSTREAM or LEFT TO RIGHT LOOKING DOWNSTREAM.	No		D_ORIENT
CLSTN	Numeric		10	2	Station at intersection of stream centerline and cross section. Measured from the left endpoint of the structure moving right, looking downstream.	No		
USINVERT	Numeric		10	2	Elevation of the lowest point in stream, under structure on the upstream side.	No		
DSINVERT	Numeric		10	2	Elevation of the lowest point in stream, under structure on downstream side.	No		
LNGTH	Numeric		10	2	Distance from beginning of structure to end.	Yes		
WDTH	Numeric		10	2	For bridges, culverts, and dams, the hydraulic distance from one edge of structure to the other, parallel to stream.	Yes		
MTLFIL_LID	Text	5			Fill material type lookup identification. A code that provides a link to an entry from D_MTLTYP.	No		D_MTLTYP
MTLBED_LID	Text	5			Bed material type lookup identification. A code that provides a link to an entry from D_MTLTYP.	No		D_MTLTYP
SKEW	Numeric		12	4	Angle of structure, if not perpendicular to stream.	No		
RAILAVGHT	Numeric		10	2	Average rail height.	No		

LOCASBILT	Text	50			Firm or agency that has as-built plans.	No		
LOCINSPEC	Text	50			Firm or agency that has current inspection data.	No		
LOCPLANS	Text	100			Where structure construction plans are located.	No		
MAINTRESP	Text	50			Name of agency with overall maintenance responsibility for structure.	No		
YRBUILT	Date/Time				Year structure was built.	No		
YRINSPEC	Date/Time				Inspection date as of flood study.	No		
SHOWN_FIRM	Integer				Shown on FIRM. This field captures if the structure is shown on the FIRM. If the structure is shown on the FIRM, this field would be True. If the structure is not shown on the FIRM, this field is False. 0 = False, 1 = True.	Yes		
COMMENTS	Text	254			General comments or notes.	No		
CLEASTING	Numeric		14	2	Easting or X-Coordinate of centerline station.	No		
CLNORTHING	Numeric		14	2	Northing of Y-Coordinate of centerline station.	No		
SURVEYDT	Date/Time				Date of survey.	Yes		
SURVEY_TM	Text	10			Survey Time. Time of the structure survey. This value should be formatted as hh:mm. This field is populated when the time of the survey is available.	No		
PROVIDEDBY	Text	5			Company name of Mapping Partner who is submitting this dataset.	No		D_CONTRACTOR
FILENM	Text	254			Name of survey file.	Yes		
LEN_LID	Text	5			Units of linear measure.	Yes		D_LENGTH_UNITS
V_DATM_LID	Text	5			Vertical Datum Lookup Identification.	Yes		D_V_DATUM

ISFLDPRTCT	Integer				Indicates whether the structure is listed in the Flood Protection Measures table in the FIS.	Yes		
ST_FIPS	Text	5			State FIPS. This is the two-digit code that corresponds to the State Federal Information Processing Standard (FIPS) code.	Yes		D_STATE_FIPS
CO_FIPS1	Text	5			County FIPS Code 1. This is the three digit county Federal Information Processing Standard (FIPS) code.	Yes		D_COFIPS
CO_FIPS2	Text	5			County FIPS Code 2. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS3	Text	5			County FIPS Code 3. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS4	Text	5			County FIPS Code 4. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS5	Text	5			County FIPS Code 5. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS6	Text	5			County FIPS Code 6. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS7	Text	5			County FIPS Code 7. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS8	Text	5			County FIPS Code 8. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
CO_FIPS9	Text	5			County FIPS Code 9. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS

CO_FIPS10	Text	5			County FIPS Code 10. This is the three digit county Federal Information Processing Standard (FIPS) code.	No		D_COFIPS
V_GRIDID	Text	25			Foreign key to V_REFGRID.	Yes		
ISNEW	Integer				ISNEW = 1 indicates features that were studied or updated as a part of the latest submittal. ISNEW = 0 indicates features that were previously effective and not updated as a part of the latest submittal.	Yes		
METAID	Text	25			Foreign key to METADATA.	Yes		

RASTERS

ELEVATION RASTERS

10% annual chance water surface elevation (WSEL) rasters								
The 10% annual chance water surface elevation (WSEL) rasters will be tiled via the V_REFGRID feature class and named accordingly. Naming convention will consist of ("EG" indicating elevation grid) + ("V_GRIDID" minus the 2 trailing zeros) + ("_recurrence interval"), eg: EG209748_010. The WSEL raster must have a cell size of 10 ft x10 ft generated from 10 foot Digital Elevation Models (DEM). Each grid cell will contain an elevation for the 10% annual chance WSEL for all studied streams in the county. The WSEL raster will contain the backwater areas for mapped and unmapped tributaries. The 10% annual chance WSEL must be contained within the 1% annual chance floodplain. Rasters must be submitted in the File Geodatabase (FGDB) format. The 10% annual chance WSEL rasters are required for all study types. For additional information users should reference NCFMP's Issue Paper #69.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
Pixel value	32 Bit Float				10% annual chance WSEL. Water surface elevations within this field should be rounded to the tenth of a foot using the absolute rounding method. For 32 bit rasters it is understood that decimal places beyond the tenth may show up after rounding in ESRI products.	Yes	No	

4% annual chance water surface elevation (WSEL) rasters								
The 4% annual chance water surface elevation (WSEL) rasters will be tiled via the V_REFGRID feature class and named accordingly. Naming convention will consist of ("EG" indicating elevation grid) + ("V_GRIDID" minus the 2 trailing zeros) + ("_recurrence interval"), eg: EG209748_025. The WSEL raster must have a cell size of 10 ft x10 ft generated from 10 foot Digital Elevation Models (DEM). Each grid cell will contain an elevation for the 4% annual chance WSEL for all studied streams in the county. The WSEL raster will contain the backwater areas for mapped and unmapped tributaries. The 4% annual chance WSEL must be contained within the 1% annual chance floodplain. Rasters must be submitted in the File Geodatabase (FGDB) format. The 4% annual chance WSEL rasters are required for all study types. For additional information users should reference NCFMP's Issue Paper #69.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
Pixel value	32 Bit Float				4% annual chance WSEL. Water surface elevations within this field should be rounded to the tenth of a foot using the absolute rounding method. For 32 bit rasters it is understood that decimal places beyond the tenth may show up after rounding in ESRI products.	Yes	No	

2% annual chance water surface elevation (WSEL) rasters								
The 2% annual chance water surface elevation (WSEL) rasters will be tiled via the V_REFGRID feature class and named accordingly. Naming convention will consist of ("EG" indicating elevation grid) + ("V_GRIDID" minus the 2 trailing zeros) + ("_recurrence interval"), eg: EG209748_050. The WSEL raster must have a cell size of 10 ft x10 ft generated from 10 foot Digital Elevation Models (DEM). Each grid cell will contain an elevation for the 2% annual chance WSEL for all studied streams in the county. The WSEL raster will contain the backwater areas for mapped and unmapped tributaries. The 2% annual chance WSEL must be contained within the 1% annual chance floodplain. Rasters must be submitted in the File Geodatabase (FGDB) format. The 2% annual chance WSEL rasters are required for all study types. For additional information users should reference NCFMP's Issue Paper #69.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
Pixel value	32 Bit Float				2% annual chance WSEL. Water surface elevations within this field should be rounded to the tenth of a foot using the absolute rounding method. For 32 bit rasters it is understood that decimal places beyond the tenth may show up after rounding in ESRI products.	Yes	No	

1% annual chance water surface elevation (WSEL) rasters								
The 1% annual chance water surface elevation (WSEL) rasters will be tiled via the V_REFGRID feature class and named accordingly. Naming convention will consist of ("EG" indicating elevation grid) + ("V_GRIDID" minus the 2 trailing zeros) + ("_recurrence interval"), eg: EG209748_100. The WSEL raster must have a cell size of 10 ft x10 ft generated from 10 foot Digital Elevation Models (DEM). Each grid cell will contain an elevation for the 1% annual chance WSEL for all studied streams in the county. The WSEL raster will contain the backwater areas for mapped and unmapped tributaries. The 1% annual chance WSEL will have a shape similar to the 1% annual chance floodplain. Rasters must be submitted in the File Geodatabase (FGDB) format. The 1% annual chance WSEL rasters are required for all study types. For additional information users should reference NCFMP's Issue Paper #69.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
Pixel value	32 Bit Float				1% annual chance WSEL. Water surface elevations within this field should be rounded to the tenth of a foot using the absolute rounding method. For 32 bit rasters it is understood that decimal places beyond the tenth may show up after rounding in ESRI products.	Yes	No	

0.2% annual chance water surface elevation (WSEL) rasters								
The 0.2% annual chance water surface elevation (WSEL) rasters will be tiled via the V_REFGRID feature class and named accordingly. Naming convention will consist of ("EG" indicating elevation grid) + ("V_GRIDID" minus the 2 trailing zeros) + ("_recurrence interval"), eg: EG209748_500. The WSEL raster must have a cell size of 10 ft x10 ft generated from 10 foot Digital Elevation Models (DEM). Each grid cell will contain an elevation for the 0.2% annual chance WSEL for all studied streams in the county. The WSEL raster will contain the backwater areas for mapped and unmapped tributaries. The 0.2% annual chance event elevation grid will have a shape similar to 0.2% annual chance floodplain. Rasters must be submitted in the File Geodatabase (FGDB) format. The 0.2% annual chance WSEL rasters are required for all study types. For additional information users should reference NCFMP's Issue Paper #69.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
Pixel value	32 Bit Float				0.2% annual chance WSEL. Water surface elevations within this field should be rounded to the tenth of a foot using the absolute rounding method. For 32 bit rasters it is understood that decimal places beyond the tenth may show up after rounding in ESRI products.	Yes	No	

10% impervious area future conditions water surface elevation (WSEL) rasters								
The 10% impervious area future conditions water surface elevation (WSEL) rasters will be tiled via the V_REFGRID feature class and named accordingly. Naming convention will consist of ("EG" indicating elevation grid) + ("V_GRIDID" minus the 2 trailing zeros) + ("_recurrence interval"), eg: EG209748_F10. The WSEL raster must have a cell size of 10 ft x10 ft generated from 10 foot Digital Elevation Models (DEM). Each grid cell will contain an elevation for the 10% impervious area future conditions WSEL for all studied streams in the county. The WSEL raster will contain the backwater areas for mapped and unmapped tributaries. The 10% impervious area future conditions WSEL will exceed the 1% annual chance floodplain. Rasters must be submitted in the File Geodatabase (FGDB) format. The 10% impervious area future conditions water surface elevation (WSEL) rasters are required for all study types. For additional information users should reference NCFMP's Issue Paper #69.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
Pixel value	32 Bit Float				10% impervious area future conditions WSEL. Water surface elevations within this field should be rounded to the tenth of a foot using the absolute rounding method. For 32 bit rasters it is understood that decimal places beyond the tenth may show up after rounding in ESRI products.	Yes	No	

20% impervious area future conditions water surface elevation (WSEL) rasters								
The 20% impervious area future conditions water surface elevation (WSEL) rasters will be tiled via the V_REFGRID feature class and named accordingly. Naming convention will consist of ("EG" indicating elevation grid) + ("V_GRIDID" minus the 2 trailing zeros) + ("_recurrence interval"), eg: EG209748_F20. The WSEL raster must have a cell size of 10 ft x10 ft generated from 10 foot Digital Elevation Models (DEM). Each grid cell will contain an elevation for the 20% impervious area future conditions WSEL for all studied streams in the county. The WSEL raster will contain the backwater areas for mapped and unmapped tributaries. The 20% impervious area future conditions WSEL will exceed the 1% annual chance floodplain. Rasters must be submitted in the File Geodatabase (FGDB) format. The 20% impervious area future condition WSEL rasters are required for all study types. For additional information users should reference NCFMP's Issue Paper #69.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
Pixel value	32 Bit Float				20% impervious area future conditions WSEL. Water surface elevations within this field should be rounded to the tenth of a foot using the absolute rounding method. For 32 bit rasters it is understood that decimal places beyond the tenth may show up after rounding in ESRI products.	Yes	No	

35% impervious area future conditions water surface elevation (WSEL) rasters

The 35% impervious area future conditions water surface elevation (WSEL) rasters will be tiled via the V_REFGRID feature class and named accordingly. Naming convention will consist of ("EG" indicating elevation grid) + ("V_GRIDID" minus the 2 trailing zeros) + ("_recurrence interval"), eg: EG209748_F35. The WSEL raster must have a cell size of 10 ft x10 ft generated from 10 foot Digital Elevation Models (DEM). Each grid cell will contain an elevation for the 35% impervious area future condition WSEL for all studied streams in the county. The WSEL raster will contain the backwater areas for mapped and unmapped tributaries. The 35% impervious area future conditions WSEL will exceed the 1% annual chance floodplain. Rasters must be submitted in the File Geodatabase (FGDB) format. The 35% impervious area future conditions WSEL rasters are required for all study types. For additional information users should reference NCFMP's Issue Paper #69.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
Pixel value	32 Bit Float				35% impervious area future conditions WSEL. Water surface elevations within this field should be rounded to the tenth of a foot using the absolute rounding method. For 32 bit rasters it is understood that decimal places beyond the tenth may show up after rounding in ESRI products.	Yes	No	

Percent chance of flooding in 30 years rasters

The percent chance in 30 years rasters will be tiled via the V_REFGRID feature class and named accordingly. Naming convention will consist of **("P30"** indicating percent chance of flooding in 30 years**) + ("_V_GRIDID"** minus the 2 trailing zeros**)**, eg: **P30_209748**. The raster must have a cell size of 10 ft x10 ft generated from 10 foot Digital Elevation Models (DEM). Each grid cell will contain the percent chance of flooding in 30 years for all studied streams in the county. The raster will contain the backwater areas for mapped and unmapped tributaries. The percent chance in 30 years raster is not required to adhere to any previous floodplain geometry. Rasters must be submitted in the File Geodatabase (FGDB) format. The percent chance in 30 years rasters are required for all study types. For additional information users should reference NCFMP's Issue Paper #69.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
Pixel value	32 Bit Float				Percent chance of flooding in 30 years.	Yes	No	

Percent annual chance rasters

The percent annual chance rasters will be tiled via the V_REFGRID feature class and named accordingly. Naming convention will consist of **("PAC"** indicating percent annual chance of flooding**) + ("_V_GRIDID"** minus the 2 trailing zeros**)**, eg: **PAC_209748**. The raster must have a cell size of 10 ft x10 ft generated from 10 foot Digital Elevation Models (DEM). Each grid cell will contain the percent annual chance of flooding for all studied streams in the county. The raster will contain the backwater areas for mapped and unmapped tributaries. The percent annual chance raster is not required to adhere to any previous floodplain geometry. Rasters must be submitted in the File Geodatabase (FGDB) format. The percent annual chance rasters are required for all study types. For additional information users should reference NCFMP's Issue Paper #69.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
Pixel value	32 Bit Float				Percent annual chance of flooding.	Yes	No	

DEPTH RASTERS

10% annual chance depth rasters

The 10% annual chance depth raster will be tiled via the V_REFGRID feature class and named accordingly. Naming convention will consist of **("DG"** indicating elevation grid**) + ("V_GRIDID"** minus the 2 trailing zeros**) + ("_recurrence interval"),** eg: **DG209748_010**. The depth raster must have a cell size of 10 ft x10 ft generated from 10 foot Digital Elevation Models (DEM). Each grid cell will contain the 10% annual chance flood depth (positive values) for all studied streams in the county. The depth raster will contain the backwater areas for mapped and unmapped tributaries. The 10% annual chance depth raster must be contained within the 1% annual chance floodplain. Rasters must be submitted in the File Geodatabase (FGDB) format. The 10% annual chance depth rasters are required for all study types. For additional information users should reference NCFMP's Issue Paper #69.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
Pixel value	32 Bit Float				10% annual chance depth.	Yes	No	

4% annual chance depth rasters

The 4% annual chance depth raster will be tiled via the V_REFGRID feature class and named accordingly. Naming convention will consist of **("DG"** indicating elevation grid**) + ("V_GRIDID"** minus the 2 trailing zeros**) + ("_recurrence interval"),** eg: **DG209748_025**. The depth raster must have a cell size of 10 ft x10 ft generated from 10 foot Digital Elevation Models (DEM). Each grid cell will contain the 4% annual chance flood depth (positive values) for all studied streams in the county. The depth raster will contain the backwater areas for mapped and unmapped tributaries. The 4% annual chance depth raster must be contained within the 1% annual chance floodplain. Rasters must be submitted in the File Geodatabase (FGDB) format. The 4% annual chance depth rasters are required for all study types. For additional information users should reference NCFMP's Issue Paper #69.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
Pixel value	32 Bit Float				4% annual chance depth.	Yes	No	

2% annual chance depth rasters

The 2% annual chance depth raster will be tiled via the V_REFGRID feature class and named accordingly. Naming convention will consist of **("DG"** indicating elevation grid**) + ("V_GRIDID"** minus the 2 trailing zeros**) + ("_recurrence interval"),** eg: **DG209748_050**. The depth raster must have a cell size of 10 ft x10 ft generated from 10 foot Digital Elevation Models (DEM). Each grid cell will contain the 2% annual chance flood depth (positive values) for all studied streams in the county. The depth raster will contain the backwater areas for mapped and unmapped tributaries. The 2% annual chance depth raster must be contained within the 1% annual chance floodplain. Rasters must be submitted in the File Geodatabase (FGDB) format. The 2% annual chance depth rasters are required for all study types. For additional information users should reference NCFMP's Issue Paper #69.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
Pixel value	32 Bit Float				2% annual chance depth.	Yes	No	

1% annual chance depth rasters

The 1% annual chance depth raster will be tiled via the V_REFGRID feature class and named accordingly. Naming convention will consist of **("DG"** indicating elevation grid**) + ("V_GRIDID"** minus the 2 trailing zeros**) + ("_recurrence interval"),** eg: **DG209748_100**. The depth raster must have a cell size of 10 ft x10 ft generated from 10 foot Digital Elevation Models (DEM). Each grid cell will contain the 1% annual chance flood depth (positive values) for all studied streams in the county. The depth raster will contain the backwater areas for mapped and unmapped tributaries. The 1% annual chance depth raster will have a shape similar to the 1% annual chance floodplain. Rasters must be submitted in the File Geodatabase (FGDB) format. The 1% annual chance depth rasters are required for all study types. For additional information users should reference NCFMP's Issue Paper #69.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
Pixel value	32 Bit Float				1% annual chance depth.	Yes	No	

0.2% annual chance depth rasters
The 0.2% annual chance depth raster will be tiled via the V_REFGRID feature class and named accordingly. Naming convention will consist of **("DG"** indicating elevation grid**) + ("V_GRIDID"** minus the 2 trailing zeros**) + ("_recurrence interval"),** eg: **DG209748_500**. The depth raster must have a cell size of 10 ft x10 ft generated from 10 foot Digital Elevation Models (DEM). Each grid cell will contain the 0.2% annual chance flood depth (positive values) for all studied streams in the county. The depth raster will contain the backwater areas for mapped and unmapped tributaries. The 0.2% annual chance event elevation grid will have a shape similar to 0.2% annual chance floodplain. Rasters must be submitted in the File Geodatabase (FGDB) format. The 0.2% annual chance depth rasters are required for all study types. For additional information users should reference NCFMP's Issue Paper #69.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
Pixel value	32 Bit Float				0.2% annual chance depth.	Yes	No	

10% impervious area future conditions depth rasters

The 10% impervious area future conditions depth raster will be tiled via the V_REFGRID feature class and named accordingly. Naming convention will consist of **("DG"** indicating elevation grid**) + ("V_GRIDID"** minus the 2 trailing zeros**) + ("_recurrence interval"),** eg: **DG209748_F10**. The depth raster must have a cell size of 10 ft x10 ft generated from 10 foot Digital Elevation Models (DEM). Each grid cell will contain the 10% impervious area future conditions flood depth (positive values) for all studied streams in the county. The depth raster will contain the backwater areas for mapped and unmapped tributaries. The 10% impervious area future conditions depth raster will exceed the 1% annual chance floodplain. Rasters must be submitted in the File Geodatabase (FGDB) format. The 10% impervious area future conditions depth rasters are required for all study types. For additional information users should reference NCFMP's Issue Paper #69.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
Pixel value	32 Bit Float				10% impervious area future conditions depth.	Yes	No	

20% impervious area future conditions depth rasters

The 20% impervious area future conditions depth raster will be tiled via the V_REFGRID feature class and named accordingly. Naming convention will consist of **("DG"** indicating elevation grid**) + ("V_GRIDID"** minus the 2 trailing zeros**) + ("_recurrence interval"),** eg: **DG209748_F20**. The depth raster must have a cell size of 10 ft x10 ft generated from 10 foot Digital Elevation Models (DEM). Each grid cell will contain the 20% impervious area future conditions flood depth (positive values) for all studied streams in the county. The depth raster will contain the backwater areas for mapped and unmapped tributaries. The 20% impervious area future conditions depth raster will exceed the 1% annual chance floodplain. Rasters must be submitted in the File Geodatabase (FGDB) format. The 20% impervious area future conditions depth rasters are required for all study types. For additional information users should reference NCFMP's Issue Paper #69.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
Pixel value	32 Bit Float				20% impervious area future conditions depth.	Yes	No	

35% impervious area future conditions depth rasters

The 35% impervious area future conditions depth raster will be tiled via the V_REFGRID feature class and named accordingly. Naming convention will consist of **("DG"** indicating elevation grid**) + ("V_GRIDID"** minus the 2 trailing zeros**) + ("_recurrence interval"),** eg: **DG209748_F35**. The depth raster must have a cell size of 10 ft x10 ft generated from 10 foot Digital Elevation Models (DEM). Each grid cell will contain the 35% impervious area future conditions flood depth (positive values) for all studied streams in the county. The depth raster will contain the backwater areas for mapped and unmapped tributaries. The 35% impervious area future conditions depth raster will exceed the 1% annual chance floodplain. Rasters must be submitted in the File Geodatabase (FGDB) format. The 35% impervious area future conditions depth rasters are required for all study types. For additional information users should reference NCFMP's Issue Paper #69.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
Pixel value	32 Bit Float				35% impervious area future conditions depth.	Yes	No	

PRELIMINARY ELEVATION RASTERS

Preliminary 10% annual chance water surface elevation (WSEL) rasters								
The 10% annual chance water surface elevation (WSEL) rasters will be tiled via the V_REFGRID feature class and named accordingly. Naming convention will consist of ("EG" indicating elevation grid) + ("V_GRIDID" minus the 2 trailing zeros) + ("_P" for preliminary) + ("recurrence interval"), eg: EG209748_P010. The WSEL raster must have a cell size of 10 ft x10 ft generated from 10 foot Digital Elevation Models (DEM). Each grid cell will contain an elevation for the 10% annual chance WSEL for all studied streams in the county. The WSEL raster will contain the backwater areas for mapped and unmapped tributaries. The 10% annual chance WSEL must be contained within the 1% annual chance floodplain. Rasters must be submitted in the File Geodatabase (FGDB) format. The 10% annual chance WSEL rasters are required for all study types. For additional information users should reference NCFMP's Issue Paper #69.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
Pixel value	32 Bit Float				Preliminary 10% annual chance WSEL. Water surface elevations within this field should be rounded to the tenth of a foot using the absolute rounding method. For 32 bit rasters it is understood that decimal places beyond the tenth may show up after rounding in ESRI products.	Yes	No	

Preliminary 4% annual chance water surface elevation (WSEL) rasters								
The 4% annual chance water surface elevation (WSEL) rasters will be tiled via the V_REFGRID feature class and named accordingly. Naming convention will consist of ("EG" indicating elevation grid) + ("V_GRIDID" minus the 2 trailing zeros) + ("_P" for preliminary) + ("recurrence interval"), eg: EG209748_P025. The WSEL raster must have a cell size of 10 ft x10 ft generated from 10 foot Digital Elevation Models (DEM). Each grid cell will contain an elevation for the 4% annual chance WSEL for all studied streams in the county. The WSEL raster will contain the backwater areas for mapped and unmapped tributaries. The 4% annual chance WSEL must be contained within the 1% annual chance floodplain. Rasters must be submitted in the File Geodatabase (FGDB) format. The 4% annual chance WSEL rasters are required for all study types. For additional information users should reference NCFMP's Issue Paper #69.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
Pixel value	32 Bit Float				Preliminary 4% annual chance WSEL. Water surface elevations within this field should be rounded to the tenth of a foot using the absolute rounding method. For 32 bit rasters it is understood that decimal places beyond the tenth may show up after rounding in ESRI products.	Yes	No	

Preliminary 2% annual chance water surface elevation (WSEL) rasters								
The 2% annual chance water surface elevation (WSEL) rasters will be tiled via the V_REFGRID feature class and named accordingly. Naming convention will consist of ("EG" indicating elevation grid) + ("V_GRIDID" minus the 2 trailing zeros) + ("_P" for preliminary) + ("recurrence interval"), eg: EG209748_P050. The WSEL raster must have a cell size of 10 ft x10 ft generated from 10 foot Digital Elevation Models (DEM). Each grid cell will contain an elevation for the 2% annual chance WSEL for all studied streams in the county. The WSEL raster will contain the backwater areas for mapped and unmapped tributaries. The 2% annual chance WSEL must be contained within the 1% annual chance floodplain. Rasters must be submitted in the File Geodatabase (FGDB) format. The 2% annual chance WSEL rasters are required for all study types. For additional information users should reference NCFMP's Issue Paper #69.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
Pixel value	32 Bit Float				Preliminary 2% annual chance WSEL. Water surface elevations within this field should be rounded to the tenth of a foot using the absolute rounding method. For 32 bit rasters it is understood that decimal places beyond the tenth may show up after rounding in ESRI products.	Yes	No	

Preliminary 1% annual chance water surface elevation (WSEL) rasters								
The 1% annual chance water surface elevation (WSEL) rasters will be tiled via the V_REFGRID feature class and named accordingly. Naming convention will consist of ("EG" indicating elevation grid) + ("V_GRIDID" minus the 2 trailing zeros) + ("_P" for preliminary) + ("recurrence interval"), eg: EG209748_P100. The WSEL raster must have a cell size of 10 ft x10 ft generated from 10 foot Digital Elevation Models (DEM). Each grid cell will contain an elevation for the 1% annual chance WSEL for all studied streams in the county. The WSEL raster will contain the backwater areas for mapped and unmapped tributaries. The 1% annual chance WSEL will have a shape similar to the 1% annual chance floodplain. Rasters must be submitted in the File Geodatabase (FGDB) format. The 1% annual chance WSEL rasters are required for all study types. For additional information users should reference NCFMP's Issue Paper #69.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
Pixel value	32 Bit Float				Preliminary 1% annual chance WSEL. Water surface elevations within this field should be rounded to the tenth of a foot using the absolute rounding method. For 32 bit rasters it is understood that decimal places beyond the tenth may show up after rounding in ESRI products.	Yes	No	

Preliminary 0.2% annual chance water surface elevation (WSEL) rasters								
The 0.2% annual chance water surface elevation (WSEL) rasters will be tiled via the V_REFGRID feature class and named accordingly. Naming convention will consist of ("EG" indicating elevation grid) + ("V_GRIDID" minus the 2 trailing zeros) + ("_P" for preliminary) + ("recurrence interval"), eg: EG209748_P500. The WSEL raster must have a cell size of 10 ft x10 ft generated from 10 foot Digital Elevation Models (DEM). Each grid cell will contain an elevation for the 0.2% annual chance WSEL for all studied streams in the county. The WSEL raster will contain the backwater areas for mapped and unmapped tributaries. The 0.2% annual chance event elevation grid will have a shape similar to 0.2% annual chance floodplain. Rasters must be submitted in the File Geodatabase (FGDB) format. The 0.2% annual chance WSEL rasters are required for all study types. For additional information users should reference NCFMP's Issue Paper #69.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
Pixel value	32 Bit Float				Preliminary 0.2% annual chance WSEL. Water surface elevations within this field should be rounded to the tenth of a foot using the absolute rounding method. For 32 bit rasters it is understood that decimal places beyond the tenth may show up after rounding in ESRI products.	Yes	No	

Preliminary 10% impervious area future conditions water surface elevation (WSEL) rasters								
The 10% impervious area future conditions water surface elevation (WSEL) rasters will be tiled via the V_REFGRID feature class and named accordingly. Naming convention will consist of ("EG" indicating elevation grid) + ("V_GRIDID" minus the 2 trailing zeros) + ("_P" for preliminary) + ("recurrence interval"), eg: EG209748_PF10. The WSEL raster must have a cell size of 10 ft x10 ft generated from 10 foot Digital Elevation Models (DEM). Each grid cell will contain an elevation for the 10% impervious area future conditions WSEL for all studied streams in the county. The WSEL raster will contain the backwater areas for mapped and unmapped tributaries. The 10% impervious area future conditions WSEL will exceed the 1% annual chance floodplain. Rasters must be submitted in the File Geodatabase (FGDB) format. The 10% impervious area future conditions water surface elevation (WSEL) rasters are required for all study types. For additional information users should reference NCFMP's Issue Paper #69.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
Pixel value	32 Bit Float				Preliminary 10% impervious area future conditions WSEL. Water surface elevations within this field should be rounded to the tenth of a foot using the absolute rounding method. For 32 bit rasters it is understood that decimal places beyond the tenth may show up after rounding in ESRI products.	Yes	No	

Preliminary 20% impervious area future conditions water surface elevation (WSEL) rasters								
The 20% impervious area future conditions water surface elevation (WSEL) rasters will be tiled via the V_REFGRID feature class and named accordingly. Naming convention will consist of ("EG" indicating elevation grid) + ("V_GRIDID" minus the 2 trailing zeros) + ("_P" for preliminary) + ("recurrence interval"), eg: EG209748_PF20. The WSEL raster must have a cell size of 10 ft x10 ft generated from 10 foot Digital Elevation Models (DEM). Each grid cell will contain an elevation for the 20% impervious area future conditions WSEL for all studied streams in the county. The WSEL raster will contain the backwater areas for mapped and unmapped tributaries. The 20% impervious area future conditions WSEL will exceed the 1% annual chance floodplain. Rasters must be submitted in the File Geodatabase (FGDB) format. The 20% impervious area future condition WSEL rasters are required for all study types. For additional information users should reference NCFMP's Issue Paper #69.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
Pixel value	32 Bit Float				Preliminary 20% impervious area future conditions WSEL. Water surface elevations within this field should be rounded to the tenth of a foot using the absolute rounding method. For 32 bit rasters it is understood that decimal places beyond the tenth may show up after rounding in ESRI products.	Yes	No	

Preliminary 35% impervious area future conditions water surface elevation (WSEL) rasters								
The 35% impervious area future conditions water surface elevation (WSEL) rasters will be tiled via the V_REFGRID feature class and named accordingly. Naming convention will consist of ("EG" indicating elevation grid) + ("V_GRIDID" minus the 2 trailing zeros) + ("_P" for preliminary) + ("recurrence interval"), eg: EG209748_PF35. The WSEL raster must have a cell size of 10 ft x10 ft generated from 10 foot Digital Elevation Models (DEM). Each grid cell will contain an elevation for the 35% impervious area future condition WSEL for all studied streams in the county. The WSEL raster will contain the backwater areas for mapped and unmapped tributaries. The 35% impervious area future conditions WSEL will exceed the 1% annual chance floodplain. Rasters must be submitted in the File Geodatabase (FGDB) format. The 35% impervious area future conditions WSEL rasters are required for all study types. For additional information users should reference NCFMP's Issue Paper #69.								
Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
Pixel value	32 Bit Float				Preliminary 35% impervious area future conditions WSEL. Water surface elevations within this field should be rounded to the tenth of a foot using the absolute rounding method. For 32 bit rasters it is understood that decimal places beyond the tenth may show up after rounding in ESRI products.	Yes	No	

Preliminary percent chance of flooding in 30 years rasters

The percent chance in 30 years rasters will be tiled via the V_REFGRID feature class and named accordingly. Naming convention will consist of **("P30"** indicating percent chance of flooding in 30 years**) + ("_V_GRIDID"** minus the 2 trailing zeros**)**, + (**"_P"** for preliminary), eg: **P30_209748_P**. The raster must have a cell size of 10 ft x10 ft generated from 10 foot Digital Elevation Models (DEM). Each grid cell will contain the percent chance of flooding in 30 years for all studied streams in the county. The raster will contain the backwater areas for mapped and unmapped tributaries. The percent chance in 30 years raster is not required to adhere to any previous floodplain geometry. Rasters must be submitted in the File Geodatabase (FGDB) format. The percent chance in 30 years rasters are required for all study types. For additional information users should reference NCFMP's Issue Paper #69.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
Pixel value	32 Bit Float				Preliminary percent chance of flooding in 30 years.	Yes	No	

Preliminary percent annual chance rasters

The percent annual chance rasters will be tiled via the V_REFGRID feature class and named accordingly. Naming convention will consist of **("PAC"** indicating percent annual chance of flooding**) + ("_V_GRIDID"** minus the 2 trailing zeros**)**, + (**"_P"** for preliminary), eg: **PAC_209748_P**. The raster must have a cell size of 10 ft x10 ft generated from 10 foot Digital Elevation Models (DEM). Each grid cell will contain the percent annual chance of flooding for all studied streams in the county. The raster will contain the backwater areas for mapped and unmapped tributaries. The percent annual chance raster is not required to adhere to any previous floodplain geometry. Rasters must be submitted in the File Geodatabase (FGDB) format. The percent annual chance rasters are required for all study types. For additional information users should reference NCFMP's Issue Paper #69.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
Pixel value	32 Bit Float				Preliminary percent annual chance of flooding.	Yes	No	

PRELIMINARY DEPTH RASTERS

Preliminary 10% annual chance depth rasters

The 10% annual chance depth raster will be tiled via the V_REFGRID feature class and named accordingly. Naming convention will consist of **("DG"** indicating elevation grid**) + ("V_GRIDID"** minus the 2 trailing zeros**) + ("_P" for preliminary) + ("recurrence interval"),** eg: **DG209748_P010**. The depth raster must have a cell size of 10 ft x10 ft generated from 10 foot Digital Elevation Models (DEM). Each grid cell will contain the 10% annual chance flood depth (positive values) for all studied streams in the county. The depth raster will contain the backwater areas for mapped and unmapped tributaries. The 10% annual chance depth raster must be contained within the 1% annual chance floodplain. Rasters must be submitted in the File Geodatabase (FGDB) format. The 10% annual chance depth rasters are required for all study types. For additional information users should reference NCFMP's Issue Paper #69.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
Pixel value	32 Bit Float				Preliminary 10% annual chance depth.	Yes	No	

Preliminary 4% annual chance depth rasters

The 4% annual chance depth raster will be tiled via the V_REFGRID feature class and named accordingly. Naming convention will consist of **("DG"** indicating elevation grid**) + ("V_GRIDID"** minus the 2 trailing zeros**) + ("_P" for preliminary) + ("recurrence interval"),** eg: **DG209748_P025**. The depth raster must have a cell size of 10 ft x10 ft generated from 10 foot Digital Elevation Models (DEM). Each grid cell will contain the 4% annual chance flood depth (positive values) for all studied streams in the county. The depth raster will contain the backwater areas for mapped and unmapped tributaries. The 4% annual chance depth raster must be contained within the 1% annual chance floodplain. Rasters must be submitted in the File Geodatabase (FGDB) format. The 4% annual chance depth rasters are required for all study types. For additional information users should reference NCFMP's Issue Paper #69.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
Pixel value	32 Bit Float				Preliminary 4% annual chance depth rasters in FGDB format.	Yes	No	

Preliminary 2% annual chance depth rasters

The 2% annual chance depth raster will be tiled via the V_REFGRID feature class and named accordingly. Naming convention will consist of **("DG"** indicating elevation grid**) + ("V_GRIDID"** minus the 2 trailing zeros**) + ("_P" for preliminary) + ("recurrence interval"),** eg: **DG209748_P050**. The depth raster must have a cell size of 10 ft x10 ft generated from 10 foot Digital Elevation Models (DEM). Each grid cell will contain the 2% annual chance flood depth (positive values) for all studied streams in the county. The depth raster will contain the backwater areas for mapped and unmapped tributaries. The 2% annual chance depth raster must be contained within the 1% annual chance floodplain. Rasters must be submitted in the File Geodatabase (FGDB) format. The 2% annual chance depth rasters are required for all study types. For additional information users should reference NCFMP's Issue Paper #69.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
Pixel value	32 Bit Float				Preliminary 2% annual chance depth rasters in FGDB format.	Yes	No	

Preliminary 1% annual chance depth rasters

The 1% annual chance depth raster will be tiled via the V_REFGRID feature class and named accordingly. Naming convention will consist of **("DG"** indicating elevation grid**) + ("V_GRIDID"** minus the 2 trailing zeros**) + ("_P" for preliminary) + ("recurrence interval"),** eg: **DG209748_P100**. The depth raster must have a cell size of 10 ft x10 ft generated from 10 foot Digital Elevation Models (DEM). Each grid cell will contain the 1% annual chance flood depth (positive values) for all studied streams in the county. The depth raster will contain the backwater areas for mapped and unmapped tributaries. The 1% annual chance depth raster will have a shape similar to the 1% annual chance floodplain. Rasters must be submitted in the File Geodatabase (FGDB) format. The 1% annual chance depth rasters are required for all study types. For additional information users should reference NCFMP's Issue Paper #69.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
Pixel value	32 Bit Float				Preliminary 1% annual chance depth.	Yes	No	

Preliminary 0.2% annual chance depth rasters

The 0.2% annual chance depth raster will be tiled via the V_REFGRID feature class and named accordingly. Naming convention will consist of **("DG"** indicating elevation grid**) + ("V_GRIDID"** minus the 2 trailing zeros**) + ("_P" for preliminary) + ("recurrence interval"),** eg: **DG209748_P500**. The depth raster must have a cell size of 10 ft x10 ft generated from 10 foot Digital Elevation Models (DEM). Each grid cell will contain the 0.2% annual chance flood depth (positive values) for all studied streams in the county. The depth raster will contain the backwater areas for mapped and unmapped tributaries. The 0.2% annual chance event elevation grid will have a shape similar to 0.2% annual chance floodplain. Rasters must be submitted in the File Geodatabase (FGDB) format. The 0.2% annual chance depth rasters are required for all study types. For additional information users should reference NCFMP's Issue Paper #69.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
Pixel value	32 Bit Float				Preliminary 0.2% annual chance depth.	Yes	No	

Preliminary 10% impervious area future conditions depth rasters

The 10% impervious area future conditions depth raster will be tiled via the V_REFGRID feature class and named accordingly. Naming convention will consist of **("DG"** indicating elevation grid**) + ("V_GRIDID"** minus the 2 trailing zeros**) + ("_P" for preliminary) + ("recurrence interval"),** eg: **DG209748_PF10**. The depth raster must have a cell size of 10 ft x10 ft generated from 10 foot Digital Elevation Models (DEM). Each grid cell will contain the 10% impervious area future conditions flood depth (positive values) for all studied streams in the county. The depth raster will contain the backwater areas for mapped and unmapped tributaries. The 10% impervious area future conditions depth raster will exceed the 1% annual chance floodplain. Rasters must be submitted in the File Geodatabase (FGDB) format. The 10% impervious area future conditions depth rasters are required for all study types. For additional information users should reference NCFMP's Issue Paper #69.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
Pixel value	32 Bit Float				Preliminary 10% impervious area future conditions depth.	Yes	No	

Preliminary 20% impervious area future conditions depth rasters

The 20% impervious area future conditions depth raster will be tiled via the V_REFGRID feature class and named accordingly. Naming convention will consist of **("DG"** indicating elevation grid**) + ("V_GRIDID"** minus the 2 trailing zeros**) + ("_P" for preliminary) + ("recurrence interval"),** eg: **DG209748_PF20**. The depth raster must have a cell size of 10 ft x10 ft generated from 10 foot Digital Elevation Models (DEM). Each grid cell will contain the 20% impervious area future conditions flood depth (positive values) for all studied streams in the county. The depth raster will contain the backwater areas for mapped and unmapped tributaries. The 20% impervious area future conditions depth raster will exceed the 1% annual chance floodplain. Rasters must be submitted in the File Geodatabase (FGDB) format. The 20% impervious area future conditions depth rasters are required for all study types. For additional information users should reference NCFMP's Issue Paper #69.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
Pixel value	32 Bit Float				Preliminary 20% impervious area future conditions depth.	Yes	No	

Preliminary 35% impervious area future conditions depth rasters

The 35% impervious area future conditions depth raster will be tiled via the V_REFGRID feature class and named accordingly. Naming convention will consist of **("DG"** indicating elevation grid**) + ("V_GRIDID"** minus the 2 trailing zeros**) + ("_P"** for preliminary**) + ("recurrence interval"),** eg: **DG209748_PF35**. The depth raster must have a cell size of 10 ft x10 ft generated from 10 foot Digital Elevation Models (DEM). Each grid cell will contain the 35% impervious area future conditions flood depth (positive values) for all studied streams in the county. The depth raster will contain the backwater areas for mapped and unmapped tributaries. The 35% impervious area future conditions depth raster will exceed the 1% annual chance floodplain. Rasters must be submitted in the File Geodatabase (FGDB) format. The 35% impervious area future conditions depth rasters are required for all study types. For additional information users should reference NCFMP's Issue Paper #69.

Field	Data Type	Length	Precision	Scale	Description	Required	PK	Domain Table
Pixel value	32 Bit Float				Preliminary 35% impervious area future conditions depth.	Yes	No	

DOMAINS

D_ABTTYP	
CODE	**DESCRIPTION**
1000	SPILL THROUGH
1010	VERTICAL WALL
1020	OTHER
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
ABTTYP_LID	L_BRDG

D_AREA_UNITS	
CODE	**DESCRIPTION**
1000	ACRES
1010	HECTARES
1020	SQUARE FEET
1030	SQUARE METERS
1040	SQUARE YARDS
1050	SQUARE MILES
1060	SQUARE KILOMETERS
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
AREA_LID	L_APXDAM
AREA_LID	L_DAM
AREA_LID	L_HYDRAFLOODRESULT
AREA_LID	L_LEVEE
AREA_LID	L_NATMETRICS_INFO
AREA_LID	L_STRUCSTO
AREA_LID	S_ALLUVIAL_FAN
AREA_LID	S_FIN_STUDY_AR
AREA_LID	S_HYDROGAGE
AREA_LID	V_E_HYDROGAGE
AREA_LID	V_P_HYDROGAGE

D_BASEMAP_TYP	
CODE	**DESCRIPTION**
1000	ORTHOPHOTO
1010	VECTOR
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
BASE_TYP	L_PAN_REVIS

D_BEACHSET	
CODE	**DESCRIPTION**
1000	SANDY BEACH BACKED BY LOW SAND BERM OR HIGH SAND DUNE FORMATION
1010	SANDY BEACH BACKED BY SHORE PROTECTION STRUCTURES COBBLE, GRAVEL, SHINGLE, OR MIXED GRAIN SIZED BEACH AND BERMS
1020	ERODIBLE COASTAL BLUFFS
1030	NON-ERODIBLE COASTAL CLIFFS AND BLUFFS
1040	TIDAL FLATS AND WETLANDS
FIELD	**ASSOCIATED FEATURE CLASS**
BEACH_SET	S_CSTTSCTLN

D_BMAGEN	
CODE	**DESCRIPTION**
1000	NCGS
1010	NGS
1020	CONTRACTOR
1030	COUNTY
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
AGENCY	S_BENCHMARK

D_CBRS_TYP	
CODE	**DESCRIPTION**
1000	COASTAL BARRIER RESOURCES SYSTEM
1010	OTHERWISE PROTECTED AREA
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
CBRS_LID	S_CBRS
CBRS_LID	V_E_CBRS
CBRS_LID	V_P_CBRS

D_CBRSDT	
CODE	**DESCRIPTION**
10/1/1983	10/1/1983 - ALL COASTAL BARRIER UNITS ESTABLISHED WITH THE PASSAGE OF THE COASTAL BARRIER RESOURCES SYSTEM ACT OF 1982 WERE MAPPED AND FINALIZED ON FIRMS DATED OCTOBER 1, 1983.
11/16/1990	11/16/1990 - PASSAGE OF THE COASTAL BARRIER IMPROVEMENT ACT (PUBLIC LAW 101-591). THE EFFECT OF THIS ACT WAS TO SIGNIFICANTLY ENLARGE THE CBRS AND TO IMPOSE FEDERAL INSURANCE AND FUNDING PROHIBITIONS FOR NEW CONSTRUCTION OR SUBSTANTIAL IMPROVEMENTS WITHIN UNITS ADDED TO THE CBRS ON AND AFTER NOVEMBER 16, 1990. THIS ACT ALSO ESTABLISHED THE ADDITION OF SPECIFIC PUBLIC LANDS TO THE CBRS 1 YEAR AFTER PASSAGE OF THE ACT.
11/16/1991	11/16/1991 - DATE ON WHICH FEDERAL FLOOD INSURANCE PROHIBITIONS WERE APPLIED TO PUBLIC LANDS DESIGNATED AS OPAS WITHIN THE CBRS. THE ONLY PROHIBITION THAT APPLIES IN AN OPA IS FEDERAL FLOOD INSURANCE FOR NEW CONSTRUCTION OR SUBSTANTIAL IMPROVEMENTS THAT OCCUR AFTER THAT DATE, WITH SPECIFIC AND LIMITED EXCEPTIONS.
10/23/1992	10/23/1992 - PASSAGE OF PUBLIC LAW 102-440 (THE “WILD EXOTIC BIRD CONSERVATION ACT”). THE CBRS CHANGES THAT WERE MADE AS A RESULT OF THIS ACT WERE PUBLISHED IN THE FEDERAL REGISTER OF NOVEMBER 15, 1993.
11/15/1993	11/15/1993 - PUBLICATION OF THE FEDERAL REGISTER THAT PROVIDED NOTIFICATION OF THE CHANGES MADE UNDER SECTION 4(E) OF PUBLIC LAW 101-591. THIS SECTION OF PUBLIC LAW 101-591 WAS ESTABLISHED TO ALLOW FOR MINOR AND TECHNICAL BOUNDARY MODIFICATIONS SUBSEQUENT TO THE PASSAGE OF THE COASTAL BARRIER IMPROVEMENT ACT. THIS FEDERAL REGISTER ALSO PROVIDED NOTIFICATION OF THE AVAILABILITY OF REVISED CBRS MAPS SHOWING THE CHANGES MADE BY PUBLIC LAW 102-440.
2/23/1995	2/23/1995 - PUBLICATION IN THE FEDERAL REGISTER OF THE AVAILABILITY OF CBRS MAPS SHOWING THE CHANGES MADE UNDER PUBLIC LAW 103-461. ALTHOUGH MOST CHANGES UNDER THIS ACT INVOLVED MINOR EXCLUSIONS FROM THE SYSTEM, THERE WERE SMALL AREAS ADDED, THUS THE NEW PROHIBITION DATE.
2/24/1997	2/24/1997 - NOTIFICATION IN THE FEDERAL REGISTER OF THE FINALIZATION OF CHANGES TO THE CBRS RESULTING FROM A 5-YEAR REVIEW/UPDATE OF CBRS UNIT BOUNDARIES PROVIDED FOR IN SECTION 4(C) OF PUBLIC LAW 101-591. THE INTENT OF THESE CHANGES WAS TO KEEP THE CBRS CURRENT WITH THE PHYSIOGRAPHIC CHANGES THAT OCCUR IN COASTAL AREAS.

10/21/1998	10/21/1998 - PASSAGE OF PUBLIC LAW 105-277, WHICH REINSTATED THE CHANGES MADE BY PUBLIC LAW 104-333 THAT WERE INVALIDATED ON MARCH 5, 1998. THIS LAW ALSO EFFECTED OTHER MINOR CHANGES TO THE CBRS IN SOUTH CAROLINA AND FLORIDA.
11/29/1999	11/29/1999 - PASSAGE OF PUBLIC LAW 106-116, WHICH REPLACED 7 MAPS RELATING TO THE SYSTEM WITH 14 NEW MAPS. THESE CHANGES AFFECTED CBRS UNIT L03 AND OPA UNIT NC-03P. CBRS UNIT L03 WAS CHANGED TO MEET THE ORIGINAL INTENT OF CONGRESS, AND OPA UNIT NC-03P WAS CHANGED TO MEET THE ORIGINAL INTENT OF CONGRESS, AND OPA UNIT NC-03P WAS CHANGED TO COINCIDE WITH THE BOUNDARY OF THE CAPE HATTERAS NATIONAL SEASHORE.
12/6/1999	12/6/1999 - PASSAGE OF PUBLIC LAW 106-128, WHICH REVISED OPA UNIT DE-03P TO ADD STATE PARK LAND TO THE OPA AND REMOVE PRIVATELY OWNED LAND OUTSIDE OF THE PARK.
10/19/2000	10/19/2000 - DATE THAT PUBLIC LAW 106-332, WHICH CLARIFIED THE BOUNDARIES OF NATIONAL AUDUBON SOCIETY LANDS THAT CBRS UNIT NC-01 WAS INTENDED TO MIRROR, WAS SIGNED INTO LAW BY THE PRESIDENT.
2/20/2003	2/20/2003 - DATE THAT PUBLIC LAW 108-7, WHICH REVISED THE BOUNDARY OF VA-60P TO FOLLOW LANDS PROTECTED BY THE CITY OF HAMPTON, WAS SIGNED INTO LAW BY THE PRESIDENT. IN ADDITION, AN ORTHOPHOTOGRAPH DATED 1994 WAS USED AS THE NEW BASE MAP.
10/18/2004	10/18/2004 - DATE THAT PUBLIC LAW 108-339, WHICH REVISED THE BOUNDARY OF NC-07P TO ONLY INCLUDE LANDS WITHDRAWN FROM THE NORMAL CYCLE OF PRIVATE DEVELOPMENT AND DEDICATED FOR CONSERVATION, WILDLIFE MANAGEMENT, PUBLIC RECREATION, OR SCIENTIFIC PURPOSES, WAS SIGNED INTO LAW BY THE PRESIDENT.
10/16/2006	10/16/2006 - DATE THAT PUBLIC LAWS 109-354 AND 109-355 WERE SIGNED INTO LAW AND THE CHANGES TO GA-06P AND FL-95P WENT INTO EFFECT.
10/15/2008	10/15/2008 - DATE THAT PUBLIC LAW 110-419 WAS SIGNED INTO LAW AND THE CHANGES TO FL-64P WENT INTO EFFECT.
8/8/8888	8/8/8888
FIELD	**ASSOCIATED FEATURE CLASS**
CBRS_DATE	S_CBRS
CBRS_DATE	V_E_CBRS
CBRS_DATE	V_P_CBRS

D_CERT_STATUS	
CODE	**DESCRIPTION**
1000	MEETS EXISTING FEMA ACCREDITATION POLICY
1010	CERTIFIED PRIOR TO EXISTING FEMA POLICY
1020	CERTIFIED BY ANOTHER FEDERAL AGENCY
1030	NOT CERTIFIED: FAILURE OF VERTICAL STRUCTURE
1040	NOT CERTIFIED: FAILURE OF REVETMENT
1050	NOT CERTIFIED: FAILURE OF LEVEE
1060	NOT APPLICABLE
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
CERT_STAT	L_CST_STRUCT

D_CHANCOND	
CODE	**DESCRIPTION**
ABBREV	DESCRIPTION
1000	BUSHES/TREES IN CHANNEL
1010	CRACKED
1020	ERODED
1030	GOOD
1040	OTHER
1050	SEDIMENT
1060	TRASH/DEBRIS
1070	VEGETATION
1080	BANKS COLLAPSED
1090	FAIR
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
CONDITION	L_CHANCOND

D_CHANGE	
CODE	**DESCRIPTION**
1000	INCREASE
1010	DECREASE
1020	NEGLIGIBLE
1030	NONE (ZERO)
1040	UNKNOWN
FIELD	**ASSOCIATED FEATURE CLASS**
SFHACHG	S_CSLF_AR
FLDWYCHG	S_CSLF_AR
NONSFHACHG	S_CSLF_AR
CHHACHG	S_CSLF_AR
SFHACHG	V_P_CSLF_AR
FLDWYCHG	V_P_CSLF_AR
NONSFHACHG	V_P_CSLF_AR
CHHACHG	V_P_CSLF_AR

D_CID	
CODE	**DESCRIPTION**
370165	ABERDEEN, TOWN OF
370428	ADKIN, CITY OF
370131	AHOSKIE,TOWN OF
370001	ALAMANCE COUNTY *
370457	ALAMANCE, VILLAGE OF
370223	ALBEMARLE, CITY OF
370398	ALEXANDER COUNTY *
370004	ALLEGHANY COUNTY
370404	ALLIANCE, TOWN OF
370060	ANDREWS, TOWN OF
370522	ANGIER, TOWN OF
370284	ANSON COUNTY *
370541	ANSONVILLE, TOWN OF
370467	APEX, TOWN OF
370591	ARAPAHOE, TOWN OF
370273	ARCHDALE, CITY OF
370407	ARLINGTON, TOWN OF
370007	ASHE COUNTY *
370196	ASHEBORO, CITY OF
370032	ASHEVILLE, CITY OF
370029	ASKEWVILLE, TOWN OF
370542	ATKINSON, TOWN OF
370044	ATLANTIC BEACH, TOWN OF
370018	AULANDER, TOWN OF
370014	AURORA, CITY OF
370358	AUTRYVILLE,TOWN OF
370010	AVERY COUNTY *
370189	AYDEN,TOWN OF
370417	BADEN, TOWN OF
370543	BAILEY, TOWN OF
370162	BAKERSVILLE, TOWN OF
370442	BALD HEAD ISLAND, VILLAGE OF
370126	BALFOUR, TOWN OF
370011	BANNER ELK, TOWN OF
370127	BARKER HEIGHTS, TOWN OF
370288	BATH, TOWN OF
370088	BATTLEBORO, TOWN OF

370183	BAYBORO, TOWN OF
370544	BEARGRASS, TOWN OF
370013	BEAUFORT COUNTY *
375346	BEAUFORT, TOWN OF
370480	BEECH MOUNTAIN, TOWN OF
370015	BELHAVEN, TOWN OF
370320	BELMONT, CITY OF
370545	BELVILLE, TOWN OF
370653	BELWOOD, TOWN OF
370504	BENSON, TOWN OF
370290	BERTIE COUNTY *
370526	BESSEMER, CITY OF
370477	BETHANIA, TOWN OF
370546	BETHEL, TOWN OF
370547	BEULAVILLE, TOWN OF
370475	BILTMORE FOREST, TOWN OF
370548	BISCOE, TOWN OF
370549	BLACK CREEK, TOWN OF
370033	BLACK MOUNTAIN, TOWN OF
370293	BLADEN COUNTY *
370020	BLADENBORO, TOWN OF
370252	BLOWING ROCK, TOWN OF
370659	BOARDMAN, TOWN OF
370491	BOGUE, TOWN OF
370453	BOILING SPRING LAKES, CITY OF
370550	BOILING SPRINGS, TOWN OF
370394	BOLIVIA, TOWN OF
370274	BOLTON, TOWN OF
370253	BOONE, TOWN OF
370551	BOONVILLE, TOWN OF
370354	BOSTIC, TOWN OF
370231	BREVARD, CITY OF
370436	BRIDGETON, TOWN OF
370552	BROADWAY, TOWN OF
370051	BROOKFORD, TOWN OF
370295	BRUNSWICK COUNTY *
370306	BRUNSWICK, TOWN OF
370228	BRYSON CITY, CITY OF
370031	BUNCOMBE COUNTY *
370329	BUNN, TOWN OF

370483	BURGAW, TOWN OF
370034	BURKE COUNTY *
370002	BURLINGTON, CITY OF
370373	BURNSVILLE, TOWN OF
370660	BUTNER, TOWN OF
370036	CABARRUS COUNTY *
370650	CAJAHS MOUNTAIN, TOWN OF
370452	CAJUN MOUNTAIN, TOWN OF
370395	CALABASH, TOWN OF
370039	CALDWELL COUNTY *
370661	CALYPSO, TOWN OF
370042	CAMDEN COUNTY *
370461	CAMERON, TOWN OF
370554	CANDOR, TOWN OF
370121	CANTON, TOWN OF
370046	CAPE CARTERET, TOWN OF
375347	CAROLINA BEACH, TOWN OF
370517	CAROLINA SHORES, TOWN OF
370275	CARRBORO, TOWN OF
370043	CARTERET COUNTY *
370555	CARTHAGE, TOWN OF
370238	CARY, TOWN OF
370408	CASAR, TOWN OF
370556	CASTALIA, TOWN OF
370391	CASWELL BEACH, CITY OF
370300	CASWELL COUNTY *
370050	CATAWBA COUNTY *
370052	CATAWBA, TOWN OF
370465	CEDAR POINT, TOWN OF
370357	CENTERVILLE, TOWN OF
370311	CERRO GORDO, TOWN OF
370065	CHADBOURN, TOWN OF
370180	CHAPEL HILL, TOWN OF
370159	CHARLOTTE, CITY OF
370299	CHATHAM COUNTY
370059	CHEROKEE COUNTY *
370455	CHERRYVILLE, TOWN OF
370487	CHIMNEY ROCK, VILLAGE OF
370210	CHINA GROVE, TOWN OF
370289	CHOCOWINITY, TOWN OF

370301	CHOWAN COUNTY *
370557	CLAREMONT, TOWN OF
370021	CLARKTON, TOWN OF
370063	CLAY COUNTY
370139	CLAYTON, TOWN OF
370531	CLEMMONS, VILLAGE OF
370302	CLEVELAND COUNTY *
370263	CLINTON, CITY OF
370122	CLYDE, TOWN OF
370558	COATS, TOWN OF
370409	COFIELD, VILLAGE OF
370291	COLERAIN, TOWN OF
370233	COLUMBIA, TOWN OF
370305	COLUMBUS COUNTY *
370662	COMO, TOWN OF
370037	CONCORD, CITY OF
370089	CONETOE, TOWN OF
370600	CONNELLYS SPRINGS, TOWN OF
370053	CONOVER, TOWN OF
370174	CONWAY, TOWN OF
370498	CORNELIUS, TOWN OF
370601	COVE CITY, TOWN OF
370321	CRAMERTON, TOWN OF
370072	CRAVEN COUNTY *
370107	CREEDMOOR, CITY OF
370443	CRESWELL, TOWN OF
370287	CROSSNORE, TOWN OF
370076	CUMBERLAND COUNTY *
370078	CURRITUCK COUNTY *
370322	DALLAS, TOWN OF
370363	DANBURY, TOWN OF
375348	DARE COUNTY *
370307	DAVIDSON COUNTY *
370503	DAVIDSON, TOWN OF
370308	DAVIE COUNTY *
370528	DELLVIEW, TOWN OF
370506	DENTON, TOWN OF
370136	DILLSBORO, CITY OF
370651	DOBBINS HEIGHTS, TOWN OF
370603	DOBSON, TOWN OF

370652	DORTCHES, TOWN OF
370664	DOVER, TOWN OF
370297	DREXEL, TOWN OF
370022	DUBLIN, TOWN OF
370632	DUCK, TOWN OF
370264	DUNN, CITY OF
370083	DUPLIN COUNTY *
370085	DURHAM COUNTY *
370086	DURHAM, CITY OF
370496	EAST ARCADIA, TOWN OF
370560	EAST BEND, TOWN OF
370359	EAST LAURINBURG, TOWN OF
370211	EAST SPENCER, TOWN OF
370401	EASTERN BAND OF CHEROKEE INDIANS
370206	EDEN, CITY OF
370062	EDENTON, TOWN OF
370087	EDGECOMBE COUNTY *
370185	ELIZABETH CITY, CITY OF
370027	ELIZABETHTOWN, TOWN OF
370382	ELK PARK, TOWN OF
370225	ELKIN, TOWN OF
370561	ELLENBORO, TOWN OF
370562	ELLERBE, TOWN OF
370521	ELM CITY, TOWN OF
370411	ELON, TOWN OF
370047	EMERALD ISLE, TOWN OF
370115	ENFIELD, TOWN OF
370456	ERWIN, TOWN OF
370563	EUREKA, TOWN OF
370333	EVERETTS, TOWN OF
370066	EVERGREEN, TOWN OF
370067	FAIR BLUFF,TOWN OF
370205	FAIRMONT, TOWN OF
370495	FAISON, TOWN OF
370352	FAITH, TOWN OF
370412	FALCON, TOWN OF
370666	FALKLAND, TOWN OF
370564	FALLSTON, TOWN OF
370190	FARMVILLE, TOWN OF
370077	FAYETTEVILLE, CITY OF

370565	FLAT ROCK, TOWN OF
370568	FLETCHER, TOWN OF
370218	FOREST CITY, TOWN OF
375349	FORSYTH COUNTY *
370631	FOUNTAIN, TOWN OF
370502	FOUR OAKS, TOWN OF
370402	FOXFIRE, VILLAGE OF
370377	FRANKLIN COUNTY *
375350	FRANKLIN, TOWN OF
370497	FRANKLINTON, TOWN OF
370197	FRANKLINVILLE, TOWN OF
370492	FREMONT, TOWN OF
370239	FUQUAY-VARINA, TOWN OF
370451	GAMEWELL, TOWN OF
370221	GARLAND, TOWN OF
370240	GARNER, TOWN OF
370339	GARYSBURG, TOWN OF
370099	GASTON COUNTY *
370413	GASTON, TOWN OF
370100	GASTONIA, CITY OF
370103	GATES COUNTY *
370104	GATESVILLE, TOWN OF
370566	GIBSON, TOWN OF
370387	GIBSONVILLE, TOWN OF
370533	GODWIN, TOWN OF
370255	GOLDSBORO, CITY OF
370569	GOLDSTON, TOWN OF
370105	GRAHAM COUNTY
370283	GRAHAM, CITY OF
370414	GRANITE FALLS, TOWN OF
370212	GRANITE QUARRY, TOWN OF
370571	GRANTSBORO, TOWN OF
370325	GRANVILLE COUNTY *
370482	GREEN LEVEL, TOWN OF
370378	GREENE COUNTY *
370655	GREENEVERS, TOWN OF
375351	GREENSBORO, CITY OF
370191	GREENVILLE, CITY OF
370192	GRIFTON, TOWN OF
370535	GRIMESLAND, TOWN OF

370572	GROVER, TOWN OF
370111	GUILFORD COUNTY *
370415	HALIFAX , TOWN OF
370327	HALIFAX COUNTY *
370068	HALLSBORO, TOWN OF
370334	HAMILTON, TOWN OF
370200	HAMLET, CITY OF
370602	HAMLET, TOWN OF
370328	HARNETT COUNTY *
370573	HARRELLS, TOWN OF
370570	HARRELLSVILLE, TOWN OF
370038	HARRISBURG, TOWN OF
370680	HASSELL, TOWN OF
370265	HAVELOCK, CITY OF
370003	HAW RIVER, TOWN OF
370431	HAYESVILLE, TOWN OF
370120	HAYWOOD COUNTY *
370123	HAZELWOOD, TOWN OF
370125	HENDERSON COUNTY *
370367	HENDERSON, CITY OF
370128	HENDERSONVILLE, CITY OF
370130	HERTFORD COUNTY *
370188	HERTFORD, TOWN OF
370054	HICKORY, CITY OF
370113	HIGH POINT, CITY OF
370405	HIGH SHOALS, CITY OF
370574	HIGHLANDS, TOWN OF
370519	HILDEBRAN, TOWN OF
370343	HILLSBOROUGH, TOWN OF
370116	HOBGOOD, TOWN OF
370460	HOFFMAN, TOWN OF
370397	HOKE COUNTY *
375352	HOLDEN BEACH, TOWN OF
370575	HOLLY RIDGE, TOWN OF
370403	HOLLY SPRINGS, TOWN OF
370416	HOLLYVILLE, TOWN OF
370326	HOOKERTON, TOWN OF
370312	HOPE MILLS, TOWN OF
370153	HOT SPRINGS, TOWN OF
370450	HUDSON, TOWN OF

370478	HUNTERSVILLE, TOWN OF
370133	HYDE COUNTY *
370433	INDIAN BEACH, TOWN OF
370235	INDIAN TRAIL, TOWN OF
370313	IREDELL COUNTY *
370282	JACKSON COUNTY *
370175	JACKSON,TOWN OF
370178	JACKSONVILLE, CITY OF
370114	JAMESTOWN, TOWN OF
370576	JAMESVILLE, TOWN OF
370008	JEFFERSON, TOWN OF
370138	JOHNSTON COUNTY *
370379	JONES COUNTY *
370260	JONESVILLE, TOWN OF
370383	JUPITER, TOWN OF
370469	KANNAPOLIS, CITY OF
370577	KELFORD, TOWN OF
370399	KENANSVILLE, TOWN OF
370501	KENLY, TOWN OF
370540	KENLY, TOWN OF
370319	KERNERSVILLE, TOWN OF
375353	KILL DEVIL HILLS, CITY OF
370458	KING, CITY OF
370304	KINGS MOUNTAIN, CITY OF
370604	KINGSTOWN, TOWN OF
370145	KINSTON, CITY OF
370578	KITTRELL, TOWN OF
370439	KITTY HAWK, TOWN OF
370241	KNIGHTDALE, TOWN OF
370170	KURE BEACH, TOWN OF
370579	LA GRANGE, TOWN OF
370488	LAKE LURE, TOWN OF
370520	LAKE PARK, VILLAGE OF
370656	LAKE SANTEETLAH, TOWN OF
370069	LAKE WACCAMAW, TOWN OF
370213	LANDIS, TOWN OF
370374	LANSING, TOWN OF
370580	LASKER, TOWN OF
370384	LAUREL PARK, TOWN OF
370222	LAURINBURG, CITY OF

370303	LAWNDALE, TOWN OF
370331	LEE COUNTY *
370317	LEGGETT, TOWN OF
370471	LELAND, TOWN OF
370144	LENOIR COUNTY *
370040	LENOIR, CITY OF
370553	LENOIR, TOWN OF
370112	LEWISTON-WOODVILLE, TOWN OF
370581	LEWISVILLE, TOWN OF
370081	LEXINGTON, CITY OF
370582	LIBERTY, TOWN OF
370583	LILESVILLE, TOWN OF
370381	LILLINGTON, TOWN OF
370146	LINCOLN COUNTY *
370147	LINCOLNTON, CITY OF
370538	LINDEN, TOWN OF
370584	LITTLETON, TOWN OF
370508	LOCUST, CITY OF
375354	LONG BEACH, TOWN OF
370055	LONG VIEW, TOWN OF
370098	LOUISBURG, TOWN OF
370654	LOVE VALLEY, TOWN OF
370507	LOWELL MILL, TOWN OF
370323	LOWELL, CITY OF
370537	LUCAMA, TOWN OF
370459	LUMBER BRIDGE, TOWN OF
370203	LUMBERTON, CITY OF
370090	MACCLESFIELD, TOWN OF
370150	MACON COUNTY *
370585	MACON, TOWN OF
370152	MADISON COUNTY *
370207	MADISON, TOWN OF
370389	MAGGIE VALLEY, TOWN OF
370669	MAGNOLIA, TOWN OF
370056	MAIDEN, TOWNSHIP OF
375355	MANTEO, TOWN OF
370586	MARIETTA, TOWN OF
370266	MARION, CITY OF
370385	MARS HILL, TOWN OF
370154	MARSHALL, TOWN OF

370474	MARSHVILLE, TOWN OF
370155	MARTIN COUNTY *
370514	MARVIN, VILLAGE OF
370310	MATTHEWS, TOWN OF
370587	MAXTON, TOWN OF
370208	MAYODAN, TOWN OF
370330	MAYSVILLE, CITY OF
370101	MCADENVILLE,TOWN OF
370670	MCDONALD, TOWN OF
370148	MCDOWELL COUNTY *
370390	MEBANE, CITY OF
370158	MECKLENBURG COUNTY *
370426	MESIC, CITY OF
370500	MICRO, TOWN OF
370589	MIDDLEBURG, TOWN OF
370445	MIDDLESEX, TOWN OF
370590	MILTON, TOWN OF
370418	MINNESOTT BEACH, TOWN OF
370539	MINT HILL, TOWN OF
370161	MITCHELL COUNTY *
370309	MOCKSVILLE, TOWN OF
370657	MOMEYER, TOWN OF
370236	MONROE, CITY OF
370336	MONTGOMERY COUNTY *
370476	MONTREAT, TOWN OF
370164	MOORE COUNTY *
370592	MOORESBORO, TOWN OF
370314	MOORESVILLE, TOWN OF
370048	MOREHEAD CITY, TOWN OF
370035	MORGANTON,CITY OF
370242	MORRISVILLE, TOWN OF
370226	MOUNT AIRY,CITY OF
370672	MOUNT GILEAD, TOWN OF
370102	MOUNT HOLLY, CITY OF
370369	MOUNT OLIVE, TOWN OF
370470	MOUNT PLEASANT, TOWN OF
370419	MURFREESBORO,TOWN OF
370061	MURPHY, TOWN OF
375356	NAGS HEAD, CITY OF
370278	NASH COUNTY *

370167	NASHVILLE, TOWN OF
370593	NAVASSA, TOWN OF
370074	NEW BERN, CITY OF
370168	NEW HANOVER COUNTY *
370512	NEW LONDON, TOWN OF
370012	NEWLAND, TOWN OF
370049	NEWPORT, TOWN OF
370524	NEWTON GROVE, TOWN OF
370057	NEWTON, TOWN OF
370594	NORLINA, TOWN OF
370673	NORMAN, TOWN OF
370466	NORTH TOPSAIL BEACH, TOWN OF
370257	NORTH WILKESBORO, TOWN OF
370173	NORTHAMPTON COUNTY *
370513	NORTHWEST, CITY OF
370509	NORWOOD, TOWN OF
370595	OAK CITY, TOWN OF
370523	OAK ISLAND, TOWN OF
370596	OAK RIDGE, TOWN OF
370493	OAKBORO, TOWN OF
375357	OCEAN ISLE BEACH, TOWN OF
370149	OLD FORT, TOWN OF
370340	ONSLOW COUNTY *
370342	ORANGE COUNTY *
370279	ORIENTAL, TOWN OF
370349	ORRUM, TOWN OF
370689	OSSIPEE, TOWN OF
370108	OXFORD, CITY OF
370181	PAMLICO COUNTY *
370016	PANTEGO, TOWN OF
370454	PARKTON, TOWN OF
370335	PARMELE, TOWN OF
370184	PASQUOTANK COUNTY *
370285	PEACHLAND,TOWN OF
370658	PELETIER, TOWN OF
370597	PEMBROKE, TOWN OF
370344	PENDER COUNTY *
370315	PERQUIMANS COUNTY *
370346	PERSON COUNTY *
370429	PIKEVILLE, TOWN OF

370598	PILOT MOUNTAIN, TOWN OF
370337	PINE BLUFF, TOWN OF
370267	PINE KNOLL SHORES, TOWN OF
370505	PINE LEVEL, TOWN OF
370463	PINEHURST, VILLAGE OF
370091	PINETOPS, TOWN OF
370160	PINEVILLE, TOWN OF
370599	PINK HILL, TOWN OF
370372	PITT COUNTY *
370420	PITTSBORO, TOWN OF
370618	PLEASANT GARDEN, TOWN OF
370249	PLYMOUTH, TOWN OF
370194	POLK COUNTY *
370286	POLKTON, TOWN OF
370634	POLKVILLE, TOWN OF
370142	POLLOCKSVILLE, TOWN OF
370292	POWELLSVILLE, TOWN OF
370485	PRINCETON, TOWN OF
370318	PRINCEVILLE, TOWN OF
370635	PROCTORVILLE, TOWN OF
370132	RAEFORD, CITY OF
370243	RALEIGH, CITY OF
370198	RAMSEUR, TOWN OF
370199	RANDLEMAN, CITY OF
370195	RANDOLPH COUNTY *
370324	RANLO, TOWN OF
370642	RAYNHAM, TOWN OF
370516	RED OAK, TOWN OF
370204	RED SPRINGS, TOWN OF
370209	REIDSVILLE, CITY OF
370643	RENNERT, TOWN OF
370041	RHODHISS, TOWN OF
370176	RICH SQUARE, TOWN OF
370511	RICHFIELD, TOWN OF
370341	RICHLANDS, TOWN OF
370348	RICHMOND COUNTY *
370432	RIVER BEND, TOWN OF
370117	ROANOKE RAPIDS, CITY OF
370166	ROBBINS, TOWN OF
370106	ROBBINSVILLE, TOWN OF

370156	ROBERSONVILLE, TOWN OF
370202	ROBESON COUNTY *
370350	ROCKINGHAM COUNTY *
370201	ROCKINGHAM, CITY OF
370214	ROCKWELL, TOWN OF
370092	ROCKY MOUNT, CITY OF
370468	ROLESVILLE, TOWN OF
370258	RONDA, TOWN OF
370421	ROPER, TOWN OF
370375	ROSE HILL, TOWN OF
370637	ROSEBORO, TOWN OF
375358	ROSMAN, TOWN OF
370351	ROWAN COUNTY *
370636	ROWLAND, TOWN OF
370347	ROXBORO, CITY OF
370605	ROXOBEL, TOWN OF
370606	RURAL HALL, TOWN OF
370355	RUTH, TOWN OF
370607	RUTHERFORD COLLEGE, TOWN OF
370217	RUTHERFORD COUNTY *
370219	RUTHERFORDTON, TOWN OF
370649	SAINT HELENA, VILLAGE OF
370608	SAINT PAULS, TOWN OF
370609	SALEMBURG, TOWN OF
370215	SALISBURY, CITY OF
370610	SALUDA, CITY OF
370220	SAMPSON COUNTY *
370677	SANDY CREEK, TOWN OF
370644	SANDYFIELD, TOWN OF
370143	SANFORD, CITY OF
370611	SARATOGA, TOWN OF
370645	SAWMILLS, TOWN OF
370316	SCOTLAND COUNTY *
370118	SCOTLAND NECK, TOWN OF
370612	SEABOARD, TOWN OF
370613	SEAGROVE, TOWN OF
370614	SEDALIA, TOWN OF
370499	SELMA, TOWN OF
370481	SEVEN DEVILS, TOWN OF
370392	SEVEN SPRINGS, TOWN OF

370422	SEVERN, TOWN OF
370388	SHALLOTTE, TOWN OF
370441	SHARPSBURG, TOWN OF
370064	SHELBY, CITY OF
370058	SILER CITY,TOWN OF
370615	SIMPSON, VILLAGE OF
370423	SIMS, TOWN OF
370140	SMITHFIELD, TOWN OF
370110	SNOW HILL, TOWN OF
370338	SOUTHERN PINES, TOWN OF
370430	SOUTHERN SHORES, TOWN OF
370028	SOUTHPORT, CITY OF
370005	SPARTA, TOWN OF
370093	SPEED,TOWN OF
370406	SPENCER MOUNTAIN, TOWN OF
370216	SPENCER, TOWN OF
370356	SPINDALE, TOWN OF
370616	SPRING HOPE, TOWN OF
370484	SPRING LAKE, TOWN OF
370163	SPRUCE PINE, TOWN OF
370530	ST JAMES, TOWN OF
370617	STALEY, TOWN OF
370472	STALLINGS, TOWN OF
370510	STANFIELD, TOWN OF
370527	STANLEY, TOWN OF
370361	STANLY COUNTY *
370371	STANTONSBURG, TOWN OF
370619	STAR, TOWN OF
370135	STATESVILLE, CITY OF
370534	STEDMAN, TOWN OF
370109	STEM, TOWN OF
370362	STOKES COUNTY *
370489	STOKESDALE, TOWN OF
370620	STONEVILLE, TOWN OF
370437	STONEWALL, TOWN OF
370621	STOVALL, TOWN OF
370622	SUMMERFIELD, TOWN OF
375359	SUNSET BEACH, TOWN OF
370629	SUPPLY, TOWN OF
370186	SURF CITY, TOWN OF

370364	SURRY COUNTY *
370227	SWAIN COUNTY *
370179	SWANSBORO, CITY OF
370638	SWANSBORO, TOWN OF
370073	SWEPSONVILLE, TOWN OF
370137	SYLVA, TOWN OF
370070	TABOR CITY, TOWN OF
370294	TAR HEEL, TOWN OF
370094	TARBORO, TOWN OF
370479	TAYLORSVILLE, TOWN OF
370647	TAYLORTOWN, TOWN OF
370623	TECHEY, TOWN OF
370082	THOMASVILLE, CITY OF
370624	TOBACCOVILLE, VILLAGE OF
370187	TOPSAIL BEACH, TOWN OF
370230	TRANSYLVANIA COUNTY *
370434	TRENT WOODS, TOWNSHIP OF
370141	TRENTON, TOWNSHIP OF
370625	TRINITY, TOWN OF
370626	TROUTMAN, TOWN OF
370627	TROY, TOWN OF
370271	TRYON, TOWN OF
370628	TURKEY, TOWN OF
370232	TYRRELL COUNTY *
370234	UNION COUNTY *
370298	VALDESE, TOWN OF
370366	VANCE COUNTY *
370075	VANCEBORO, TOWN OF
370438	VANDEMERE, TOWN OF
370277	VANDEMERE, TOWN OF -USE CID # 370438
370648	VARNAMTOWN, TOWN OF
370630	VASS, TOWN OF
370646	WACO, TOWN OF
370532	WADE, TOWN OF
370006	WADESBORO, TOWN OF
370360	WAGRAM, TOWN OF
370368	WAKE COUNTY *
370244	WAKE FOREST, TOWN OF
370679	WALKERTOWN, TOWN OF
370084	WALLACE, TOWN OF

370224	WALNUT COVE, TOWN OF
370435	WALNUT CREEK, CITY OF
370515	WALSTONBURG, TOWN OF
370396	WARREN COUNTY *
370536	WARRENTON, TOWN OF
370633	WARSAW, TOWN OF
370247	WASHINGTON COUNTY *
370268	WASHINGTON PARK, TOWN OF
370017	WASHINGTON, CITY OF
370251	WATAUGA COUNTY *
370486	WATHA, TOWN OF
370473	WAXHAW, TOWN OF
370254	WAYNE COUNTY *
370124	WAYNESVILLE, TOWN OF
370269	WEAVERVILLE, TOWN OF
370281	WEBSTER, TOWN OF
370518	WEDDINGTON, TOWN OF
370119	WELDON, TOWN OF
370245	WENDELL, TOWN OF
370682	WENTWORTH, TOWN OF
370525	WESLEY CHAPEL, VILLAGE OF
370129	WEST HENDERSON, TOWN OF
370009	WEST JEFFERSON, TOWN OF
370376	WEST SMITHFIELD, TOWN OF
370464	WHISPERING PINES, VILLAGE OF
370095	WHITAKERS, TOWN OF
370490	WHITE LAKE, TOWN OF
370071	WHITEVILLE CITY OF
370639	WHITSETT, TOWN OF
370256	WILKES COUNTY *
370259	WILKESBORO, TOWN OF
370157	WILLIAMSTON, TOWN OF
370171	WILMINGTON, CITY OF
370370	WILSON COUNTY *
370270	WILSON, CITY OF
370262	WILSON'S MILLS, TOWN OF
370019	WINDSOR, TOWN OF
370345	WINFALL, TOWN OF
370365	WINGATE, TOWN OF
375360	WINSTON-SALEM, CITY OF

370193	WINTERVILLE, TOWN OF
370424	WINTON, TOWN OF
370380	WOODFIN, TOWN OF
370177	WOODLAND, TOWN OF
375361	WRIGHTSVILLE BEACH, TOWN OF
370400	YADKIN COUNTY *
370640	YADKINVILLE, TOWN OF
370261	YANCEY COUNTY *
370641	YANCEYVILLE, TOWN OF
370030	YAUPON BEACH, TOWN OF
370494	YOUNGSVILLE, TOWN OF
370246	ZEBULON, TOWN OF
NP	NP
370685	BERMUDA RUN
370588	MCFARLAN, TOWN OF
370671	MORVEN, TOWN OF
370686	GRANDFATHER VILLAGE, TOWN OF
370687	SUGAR MOUNTAIN, VILLAGE OF
370567	GLEN ALPINE, TOWN OF
370182	MIDLAND, TOWN OF
370688	CEDAR ROCK, VILLAGE OF
370229	EARL, TOWN OF
370668	LATTIMORE, TOWN OF
370023	PATTERSON SPRINGS, TOWN OF
370425	EASTOVER, TOWN OF
370393	MIDWAY, TOWN OF
370169	WALLBURG, TOWN OF
370663	COOLEEMEE, TOWN OF
370025	MILLS RIVER, TOWN OF
370681	HARMONY, TOWN OF
370248	FOREST HILLS, TOWN OF
370096	COLUMBUS, TOWN OF
370097	CLEVELAND, TOWN OF
370026	MISENHEIMER, VILLAGE OF
370079	RED CROSS, TOWN OF
370024	FAIRVIEW, TOWN OF
370683	HEMBY BRIDGE, TOWN OF
370529	MINERAL SPRINGS, TOWN OF
370684	UNIONVILLE, TOWN OF
FIELD	**ASSOCIATED FEATURE CLASS**

CID	L_AFFECTED_COMMUNITIES
CID	L_COMMUNITIES_STUDIED
CID	L_COMMUNITY_INFO
CID	L_FIRM_CID
CID	L_POL_FHBM
CID	S_CSLF_AR
CID	S_DISCOVERY_MAP
CID	S_FIN_STUDY_AR
CID	S_POL_AR
CID	V_E_HYDRONODE
CID	V_P_HYDRONODE
CID	V_P_CSLF_AR

D_CLSTYP	
CODE	**DESCRIPTION**
1000	COMBINATION
1010	FLOODGATES
1020	OTHER
1030	SANDBAGS
1040	STOP LOGS
1050	NONE
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
CLSTYP_ID	L_LEVEE

D_COFIPS	
CODE	DESCRIPTION
001	ALAMANCE
003	ALEXANDER
005	ALLEGHANY
007	ANSON
009	ASHE
011	AVERY
013	BEAUFORT
015	BERTIE
017	BLADEN
019	BRUNSWICK
021	BUNCOMBE
023	BURKE
025	CABARRUS
027	CALDWELL
029	CAMDEN
031	CARTERET
033	CASWELL
035	CATAWBA
037	CHATHAM
039	CHEROKEE
041	CHOWAN
043	CLAY
045	CLEVELAND
047	COLUMBUS
049	CRAVEN
051	CUMBERLAND
053	CURRITUCK
055	DARE
057	DAVIDSON
059	DAVIE
061	DUPLIN
063	DURHAM
065	EDGECOMBE
067	FORSYTH
069	FRANKLIN
071	GASTON
073	GATES

075	GRAHAM
077	GRANVILLE
079	GREENE
081	GUILFORD
083	HALIFAX
085	HARNETT
087	HAYWOOD
089	HENDERSON
091	HERTFORD
093	HOKE
095	HYDE
097	IREDELL
099	JACKSON
101	JOHNSTON
103	JONES
105	LEE
107	LENOIR
109	LINCOLN
113	MACON
115	MADISON
117	MARTIN
111	MCDOWELL
119	MECKLENBURG
121	MITCHELL
123	MONTGOMERY
125	MOORE
127	NASH
129	NEW HANOVER
131	NORTHAMPTON
133	ONSLOW
135	ORANGE
137	PAMLICO
139	PASQUOTANK
141	PENDER
143	PERQUIMANS
145	PERSON
147	PITT
149	POLK
151	RANDOLPH
153	RICHMOND

155	ROBESON
157	ROCKINGHAM
159	ROWAN
161	RUTHERFORD
163	SAMPSON
165	SCOTLAND
167	STANLY
169	STOKES
171	SURRY
173	SWAIN
175	TRANSYLVANIA
177	TYRRELL
179	UNION
181	VANCE
183	WAKE
185	WARREN
187	WASHINGTON
189	WATAUGA
191	WAYNE
193	WILKES
195	WILSON
197	YADKIN
199	YANCEY
201	EASTERN BAND OF CHEROKEE INDIANS
NP	NP
FIELD	ASSOCIATED FEATURE CLASS
CO_FIPS	L_EFFECTIVE_WTRNMS
CO_FIPS	L_FIS_PUBLICATION_DATES
CO_FIPS	L_HISTSTORM_COFIPS
CO_FIPS	S_COMMUNITY_GROUP
CO_FIPS	S_POL_AR
COUNTY	S_DISCREPANCIES
CO_FIPS	V_E_CBRS
CO_FIPS	V_E_CSTMODEL
CO_FIPS	V_E_FLD_HAZ_AR
CO_FIPS	V_E_FLOOD_PROBLEMS
CO_FIPS	V_E_HWM
CO_FIPS	V_E_HYDRABFE
CO_FIPS	V_E_HYDRACROSSSECTION
CO_FIPS	V_E_HYDRAMODEL

CO_FIPS	V_E_HYDROGAGE
CO_FIPS	V_E_HYDRONODE
CO_FIPS	V_E_PFD_LN
CO_FIPS	V_E_SIMPL_CST_ZONE_AR
CO_FIPS	V_E_STREAMCNTRLINE
CO_FIPS	V_E_STRUC
CO_FIPS	V_FIRMPAN
CO_FIPS	V_HUC
CO_FIPS	V_P_CBRS
CO_FIPS	V_P_CSLF_AR
CO_FIPS	V_P_CSTMODEL
CO_FIPS	V_P_FLD_HAZ_AR
CO_FIPS	V_P_FLOOD_PROBLEMS
CO_FIPS	V_P_HWM
CO_FIPS	V_P_HYDRABFE
CO_FIPS	V_P_HYDRACROSSSECTION
CO_FIPS	V_P_HYDRAMODEL
CO_FIPS	V_P_HYDROGAGE
CO_FIPS	V_P_HYDRONODE
CO_FIPS	V_P_PFD_LN
CO_FIPS	V_P_SIMPL_CST_ZONE_AR
CO_FIPS	V_P_STREAMCNTRLINE
CO_FIPS	V_P_STRUC

D_CONM	
CODE	**DESCRIPTION**
AM	ALAMANCE
AX	ALEXANDER
AG	ALLEGHANY
AN	ANSON
AS	ASHE
AV	AVERY
BF	BEAUFORT
BT	BERTIE
BL	BLADEN
BW	BRUNSWICK
BC	BUNCOMBE
BK	BURKE
CB	CABARRUS
CA	CALDWELL
CM	CAMDEN
CR	CARTERET
CS	CASWELL
CT	CATAWBA
CH	CHATHAM
CE	CHEROKEE
CO	CHOWAN
CL	CLAY
CV	CLEVELAND
CU	COLUMBUS
CN	CRAVEN
CD	CUMBERLAND
CK	CURRITUCK
DR	DARE
DV	DAVIDSON
DA	DAVIE
DP	DUPLIN
DU	DURHAM
ED	EDGECOMBE
FO	FORSYTH
FR	FRANKLIN
GS	GASTON
GA	GATES

GH	GRAHAM
GV	GRANVILLE
GR	GREENE
GU	GUILFORD
HA	HALIFAX
HR	HARNETT
HW	HAYWOOD
HE	HENDERSON
HT	HERTFORD
HO	HOKE
HY	HYDE
IR	IREDELL
JA	JACKSON
JH	JOHNSTON
JO	JONES
LE	LEE
LN	LENOIR
LC	LINCOLN
MA	MACON
MS	MADISON
MR	MARTIN
MC	MCDOWELL
ME	MECKLENBURG
MI	MITCHELL
MN	MONTGOMERY
MO	MOORE
NA	NASH
NH	NEW HANOVER
NO	NORTHAMPTON
ON	ONSLOW
OR	ORANGE
PA	PAMLICO
PS	PASQUOTANK
PE	PENDER
PQ	PERQUIMANS
PR	PERSON
PT	PITT
PK	POLK
RA	RANDOLPH
RI	RICHMOND

RO	ROBESON
RC	ROCKINGHAM
RW	ROWAN
RU	RUTHERFORD
SA	SAMPSON
SC	SCOTLAND
ST	STANLY
SO	STOKES
SU	SURRY
SW	SWAIN
TV	TRANSYLVANIA
TY	TYRRELL
UN	UNION
VA	VANCE
WA	WAKE
WR	WARREN
WH	WASHINGTON
WT	WATAUGA
WY	WAYNE
WL	WILKES
WS	WILSON
YD	YADKIN
YA	YANCEY
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
CNTY_NM	S_COMMUNITY_GROUP
COUNTY	S_DISCOVERY_MAP
COUNTY	S_FIN_STUDY_AR

D_CONTRACTOR	
CODE	DESCRIPTION
1000	ARCADIS
1010	AMEC
1020	DEWBERRY
1030	GREENHORNE & O'MARA, INC.
1040	AECOM
1050	CARTER BURGESS
1060	RENCI
1070	ESP ASSOCIATES
1080	NORTH CAROLINA FLOODPLAIN MAPPING PROGRAM
1090	DATA IMPORT TOOL
1100	ADECA
1110	ATKINS
NP	NP
FIELD	ASSOCIATED FEATURE CLASS
PROVIDEDBY	L_SKETCH
SUBMIT_BY	S_COMMUNITY_GROUP
SUBMIT_BY	S_MODEL_GROUP
PROVIDEDBY	L_SXS
PROVIDEDBY	L_TSCTSURVEY
PROVIDEDBY	S_APXSTR
PROVIDEDBY	S_CHANNEL
PROVIDEDBY	S_PHOTO
PROVIDEDBY	S_STRUC
PROVIDEDBY	V_E_STRUC
PROVIDEDBY	V_P_STRUC

D_CST_TYP	
CODE	**DESCRIPTION**
1000	OPEN COAST
1010	SHELTERED WATERS
1020	COMBINED OPEN COAST AND SHELTERED WATERS
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
CSTLN_TYP	S_CSTTSCTLN

D_DAMTYP	
CODE	**DESCRIPTION**
1000	CONCRETE ARCH
1010	CONCRETE GRAVITY
1020	EARTHFILL
1030	MASONRY
1040	RCC
1050	ROCKFILL
1060	RUBBER
1070	TIMBER CRIB
1080	OTHER
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
DAMTYP_LID	L_APXDAM
DAMTYP_LID	L_DAM

D_DATTYP	
CODE	**DESCRIPTION**
1000	FIELD
1010	TOP OF ROAD
1020	NATURAL
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
DATTYP_LID	L_SXS
DATTYP_LID	L_TSCTSURVEY
DATTYP_LID	S_HYDRACROSSSECTION
DATTYP_LID	V_E_HYDRACROSSSECTION
DATTYP_LID	V_P_HYDRACROSSSECTION

D_DBSECTION	
CODE	**DESCRIPTION**
1000	HYDRAULICS
1010	HYDROLOGY
1020	SURVEY
1030	COASTAL
1040	COMMUNITY INFORMATION
FIELD	**ASSOCIATED FEATURE CLASS**
DB_SECTION	S_DISCREPANCIES

D_DEVELOP	
CODE	**DESCRIPTION**
1000	DEVELOPED
1010	UNDEVELOPED
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
PROTECTLU	L_LEVEE

D_DISCHARGE_UNITS	
CODE	**DESCRIPTION**
1000	CFS
1010	CMS
1020	GPD
1030	GPM
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
DISCH_LID	L_HYDRAFLOODRESULT
DISCH_LID	L_HYDRORESULT
DISCH_LID	S_ALLUVIAL_FAN

D_DOCUMENT_TYP	
CODE	**DESCRIPTION**
1000	CONTACT REPORTS
1010	CONTACT_REPORTS_INDEX
1020	GENERAL CORRESPONDENCE
1030	GENERAL CORRESPONDENCE INDEX
1040	HYDRAULIC ANALYSIS INDEX
1050	KEY TO CROSS SECTION LABELING
1060	MEETING MINUTES
1070	MEETING MINUTES INDEX
1080	SEALED CERTIFICATION
1090	TRANSMITTAL
1100	HYDROLOGIC ANALYSIS INDEX
1110	ADDITIONAL REPORTS
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
DOC_TYP	L_TSDN_DOCUMENTS

D_EMBANKTY	
CODE	**DESCRIPTION**
1000	CONCRETE
1010	EARTH
1020	GABION
1030	OTHER
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
EMBTYPE	L_DAM

D_EROS_METHOD	
CODE	**DESCRIPTION**
1000	NOT APPLIED
1010	REMOVAL
1020	RETREAT
1030	K-D
1040	MK-A
1050	OTHER
1060	SBEACH
FIELD	**ASSOCIATED FEATURE CLASS**
EROS_LID	S_CSTTSCTLN

D_FLOOD_TYP	
CODE	**DESCRIPTION**
1000	RIVER
1010	COASTAL
1020	ALLUVIAL
1030	LACUSTRINE
1040	PONDING
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
FLTYPE	S_DISCOVERY_MAP

D_GAGE	
CODE	**DESCRIPTION**
1000	FLOW
1010	FLOW / STAGE
1020	STAGE
1030	FIXED INTERVAL
1040	INSTANTANEOUS
1050	TIPPING
1060	WAVE HEIGHT AND DIRECTION
1070	WAVE HEIGHT
1080	WIND DIRECTION
1090	WIND SPEED
1100	WIND SPEED & DIRECTION
1110	TIDE
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
GAGE_LID	S_CST_GAGE
GAGE_LID	S_HYDROGAGE
GAGE_LID	V_E_HYDROGAGE
GAGE_LID	V_P_HYDROGAGE

D_HDATUM	
CODE	**DESCRIPTION**
1000	NAD83
1010	NAD27
1020	NAD83 HARN
1030	WGS84
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
H_DATUM	S_COMMUNITY_GROUP
H_DATUM	S_MODEL_GROUP

D_HWLNTP	
CODE	**DESCRIPTION**
1000	MUD
1010	DEBRIS
1020	OTHER
1030	MARK
1040	PICTURE
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
LNTYP_LID	S_HWM
LNTYP_LID	V_E_HWM
LNTYP_LID	V_P_HWM

D_HWMSRC	
CODE	**DESCRIPTION**
1000	PRIVATE CITIZEN
1010	OTHER
1020	USGS
1030	CONTRACTOR/FIELD SURVEY
FIELD	**ASSOCIATED FEATURE CLASS**
SOURCE	S_HWM
SOURCE	V_E_HWM
SOURCE	V_P_HWM

D_HYDRA	
CODE	DESCRIPTION
1000	ADVANCED ICPR 2.20 (OCTOBER 2000)
1010	DHM 21 (AUGUST 1987)
1020	FEQ 8.92 (1997)
1030	FEQUTL 4.68 (1997)
1040	FESWMS 2DH 1.1 (JUNE 1995)
1050	FLDWAV (NOVEMBER 1998)
1060	FLDWY (MAY 1989)
1070	FLO-2D V.2000.11 (DECEMBER 2000)
1080	GAGE ANALYSIS
1090	HCSWMM 4.31B (AUGUST 2000)
1100	HEC-2 4.6.2 (MAY 1991)
1110	HEC-RAS 2.2 (SEPTEMBER 1998)
1120	HEC-RAS 3.0.1
1130	HY8 4.1
1140	HY8 6.0
1150	MIKE 11 HD (JUNE 1999)
1160	PSUPRO
1170	QUICK-2 1.0
1180	QUICK-2 2.0
1190	SFD
1200	SHEET 2D 9 (JULY 2000)
1210	SWMM 4.30 (MAY 1994)
1220	SWMM 4.31 (JANUARY 1997)
1230	TABS-RMA2 V.4.3 (OCTOBER 1996)
1240	TABS-RMA4 V.4.5 (JULY 2000)
1250	UNET 4.0 (APRIL 2001)
1260	WSPGW 12.96 (OCTOBER 2000)
1270	WSPRO (JUNE 1988)
1280	HEC-RAS 3.1.0
1290	HEC-RAS 3.1.1
1300	HEC-RAS 3.1.2
1310	STORMCAD V.4
1320	PONDPACK V.8
1330	CULVERT MASTER V 2.0
1340	XPSTORM 10.0
1350	FEQ 9.98
1360	FEQUTL 5.46

1370	SWMM 5.0
1380	MIKE 11 HD 2002D, 2004, 2005, 2007)
1390	FLO-2D (v 2003.6, 2004.10 and 2006.1)
1400	XP-SWMM 8.52
1410	MIKE Flood HD (2002D, 2004, 2005 and 2007)
1420	HEC-RAS 3.1.3
1430	HEC-RAS 4.0
1440	REDELINEATION OF OLD MODEL
1450	HEC-RAS 4.1.0
1460	HEC-RAS 5.0
1470	HEC-RAS 5.0.1
1480	HEC-RAS 5.0.3
1490	HEC-RAS 5.0.4
1500	HEC-RAS 5.0.5
1510	HEC-RAS 5.0.6
1520	HEC-RAS 5.0.7
1530	HEC-RAS 6.0
1540	HEC-RAS 6.1
1550	HEC-RAS 6.2
1560	HEC-RAS 6.3
NP	NP
FIELD	ASSOCIATED FEATURE CLASS
HYDRA_LID	S_HYDRAMODEL
HYDRA_LID	V_E_HYDRAMODEL
HYDRA_LID	V_P_HYDRAMODEL

D_HYDRAFOOTNOTE_COLUMN	
CODE	**DESCRIPTION**
1000	(FWDT) CROSS SECTION
1010	(FWDT) DISTANCE
1020	(FWDT) WIDTH
1030	(FWDT) SECTION AREA
1040	(FWDT) MEAN VELOCITY
1050	(FWDT) REGULATORY
1060	(FWDT) WITHOUT FLOODWAY
1070	(FWDT) WITH FLOODWAY
1080	(FWDT) INCREASE
2000	(FHDT) CROSS SECTION
2010	(FHDT) STREAM STATION
2020	(FHDT) FLOOD DISCHARGE
2030	(FHDT) FUTURE FLOOD DISCHARGE
2040	(FHDT) REGULATORY
2050	(FHDT) FUTURE WSEL
2060	(FHDT) NON ENCROACHMENT WIDTH
FIELD	**ASSOCIATED FEATURE CLASS**
FIS_COLUMN	L_HYDRA_FOOTNOTES

D_HYDRO	
CODE	DESCRIPTION
1000	AHYMO 97 (AUGUST 1997)
1010	CUHPF/PC (MAY 1996)
1020	DBRM 3.0 (1993)
1030	DR3M (OCTOBER 1993)
1040	FAN
1050	HEC-FFA 3.1
1060	HEC-1 4.0.1
1070	HEC-1 4.1
1080	HEC-HMS 1.1
1090	HEC-HMS 2.0
1100	HEC-HMS 2.0.3
1110	HEC-HMS 2.1.1
1120	HEC-HMS 2.1.2
1130	HEC-HMS 2.1.3
1140	HEC-IFH 1.03
1150	HEC-IFH 1.04
1160	HEC-IFH 2.0
1170	HEC-IFH 2.01
1180	HSPF 10.10
1190	HSPF 10.11
1200	HSPF 11.0
1210	HYMO
1220	MIKE 11 RR (JUNE 1999)
1230	MIKE 11 UHM (JUNE 1999)
1240	PEAKFQ 2.4 (APRIL 1998)
1250	PEAKFQ 2.5
1260	PEAKFQ 3.0
1270	PEAKFQ 4.0
1280	RATIONAL METHOD
1290	REGRESSION EQUATIONS
1300	SNYDER METHOD
1310	SWMM (RUNOFF) 4.30 (MAY 1994)
1320	SWMM (RUNOFF) 4.31 (JANUARY 1997)
1330	TR-20 (FEBRUARY 1992)
1340	TR-55 (JUNE 1986)
1350	TR-20 WIN 1.00.002
1360	WIN TR-55 1.0.08

1370	SWMM 5 VERSION 5.00.005
1380	MIKE 11 UHM (2002D, 2004)
1390	PONDPACK V.8
1400	XP-SWMM 8.52
1410	XPSTORM 10.0
1420	MIKE 11 RR (2002D, 2004)
1430	PRMS VERSION 2.1
1440	PUBLISHED FIS
1450	HEC-HMS 2.2.0
1460	HEC-HMS 2.2.1
1470	HEC-HMS 2.2.2
1480	HEC-HMS 3.0.0
1490	HEC-HMS 3.0.1
1500	HEC-HMS 3.1.0
1510	HEC-HMS 3.2
1520	HEC-HMS 3.3
1530	HEC-HMS 3.4
1540	HEC-HMS 3.5
1550	HEC-HMS 4.0
1560	HEC-HMS 4.1
1570	HEC-HMS 4.2
1580	HEC-HMS 4.2.1
1590	HEC-HMS 4.3
1600	HEC-HMS 4.4
1610	HEC-HMS 4.4.1
1620	PEAKFQ 4.1
1630	PEAKFQ 5.2
1640	PEAKFQ 7.1
1650	PEAKFQ 7.2
1660	PEAKFQ 7.3
1670	PEAKFQ 7.4
1680	PEAKFQ 7.5
1690	WIN TR-20 1.11 non-64bit
1700	WIN TR-20 3.2
1710	WIN TR-55 1.00.10
NP	NP
FIELD	ASSOCIATED FEATURE CLASS
HYDRO_LID	S_HYDROMODEL

D_HYDROFOOTNOTE_COLUMN	
CODE	**DESCRIPTION**
1000	FLOODING SOURCE
1010	LOCATION
1020	DRAINAGE AREA
1030	10% ANNUAL CHANCE DISCHARGE
1040	2% ANNUAL CHANCE DISCHARGE
1050	1% ANNUAL CHANCE DISCHARGE
1060	0.2% ANNUAL CHANCE DISCHARGE
1070	FUTURE 1% ANNUAL CHANCE DISCHARGE
FIELD	**ASSOCIATED FEATURE CLASS**
FIS_COLUMN	L_HYDRO_FOOTNOTES

D_IMGTY	
CODE	**DESCRIPTION**
1000	BLACK AND WHITE
1010	COLOR INFRARED
1020	FALSE COLOR
1030	TRUE COLOR
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
IMGTY	S_BASE_INDEX

D_JUNCTTYP	
CODE	**DESCRIPTION**
1000	CURB INLET
1010	JUNCTION BOX
1020	MANHOLE
1030	PIPE JUNCTION
1040	SLAB INLET
1050	TRANSITION
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
JUNCTTYPE	S_HYDRAJUNCTION

D_JURISDICTION_TYP	
CODE	**DESCRIPTION**
1000	ALL JURISDICTIONS
1010	AND INCORPORATED AREAS
1020	INDEPENDENT CITY
1030	UNINCORPORATED AREAS
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
JURIS_TYP	S_COMMUNITY_GROUP

D_LENGTH_UNITS	
CODE	**DESCRIPTION**
1000	CENTIMETERS
1010	FEET
1020	INCHES
1030	KILOMETERS
1040	METERS
1050	MILES
1060	MILLIMETERS
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
LEN_LID	L_APXBRDG
LEN_LID	L_APXCUL
LEN_LID	L_APXDAM
LEN_LID	L_APXRSR
LEN_LID	L_APXSWY
LEN_LID	L_BRDG
LEN_LID	L_CST_TSCT_PT_ELEV
LEN_LID	L_CST_TSCTPT
LEN_LID	L_CULPP
LEN_LID	L_DAM
LEN_LID	L_HYDRAFLOODRESULT
LEN_LID	L_HYDRAXSPT
LEN_LID	L_HYDRORESULT
LEN_LID	L_HYDROSTORMCURVE
LEN_LID	L_LCHRD
LEN_LID	L_LEVEE
LEN_LID	L_NATMETRICS_INFO
LEN_LID	L_ORFC
LEN_LID	L_OTLPP
LEN_LID	L_PIER
LEN_LID	L_PROFIL_BKWTR_EL
LEN_LID	L_PROFIL_LABEL
LEN_LID	L_RAIL
LEN_LID	L_RISERWEIR
LEN_LID	L_RSRBRL
LEN_LID	L_STRUCSTO
LEN_LID	L_SUMMARY_ELEVATIONS
LEN_LID	L_SWY

LEN_LID	L_SXS
LEN_LID	L_TSCTRGHNSS
LEN_LID	L_TSCTSURVEY
LEN_LID	L_XS_STRUCT
LEN_LID	S_ALLUVIAL_FAN
LEN_LID	S_APXSTR
IMGRESUN	S_BASE_INDEX
LEN_LID	S_CST_GAGE
LEN_LID	S_CSTTSCTLN
FTCHLNUNIT	S_CSTTSCTLN
LEN_LID	S_DATUM_CONV_PT
LEN_LID	S_DISCOVERY_MAP
LEN_LID	S_FBS
LEN_LID	S_FLD_HAZ_AR
LEN_LID	S_HWM
LEN_LID	S_HYDRABFE
LEN_LID	S_HYDRACROSSSECTION
LEN_LID	S_HYDRAFLOWPATH
LEN_LID	S_HYDRAJUNCTION
LEN_LID	S_LEVEEPTS
LEN_LID	S_STREAMCNTRLINE
LEN_LID	S_STREAMCNTRLNPT
LEN_LID	S_STRUC
LEN_LID	S_SXS
LEN_LID	S_TBM
LEN_LID	S_TSCTSURVPTS
LEN_LID	S_WTR_AR
LEN_LID	S_ZONE_AR
LEN_LID	V_E_FLD_HAZ_AR
LEN_LID	V_E_HWM
LEN_LID	V_E_HYDRACROSSSECTION
LEN_LID	V_E_STREAMCNTRLINE
LEN_LID	V_E_STRUC
LEN_LID	V_P_FLD_HAZ_AR
LEN_LID	V_P_HWM
LEN_LID	V_P_HYDRACROSSSECTION
LEN_LID	V_P_STREAMCNTRLINE
LEN_LID	V_P_STRUC

D_LEVEE_STATUS	
CODE	**DESCRIPTION**
1000	ACCREDITED
1010	DE-ACCREDITED
1020	NEVER ACCREDITED
1030	PROVISIONALLY ACCREDITED
1040	SECLUDED
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
LEVEE_STAT	L_LEVEE

D_LEVSCENARIO	
CODE	**DESCRIPTION**
1000	WITH RIGHT LEVEE
1001	WITH LEFT LEVEE
1002	WITH BOTH LEVEES
FIELD	**ASSOCIATED FEATURE CLASS**
LVSCENARIO	L_HYDRAFLOODRESULT

D_LEVTYP	
CODE	**DESCRIPTION**
1000	CLOSURE STRUCTURE
1010	COASTAL LEVEE CENTERLINE
1020	FLOODWALL
1030	LEVEE
1040	LEVEE & FLOODWALL
1050	LEVEE CENTERLINE
1060	RING LEVEE
1070	ROAD EMBANKMENT
1080	RR EMBANKMENT
1090	OTHER
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
LEVTYP_LID	L_LEVEE

D_LN_TYP	
CODE	**DESCRIPTION**
1010	AREA NOT INCLUDED
1020	CORPORATE
1021	EXTRATERRITORIAL JURISDICTION
1022	LEVEE IMPROVEMENT DISTRICT
1023	MUNICIPAL UTILITY DISTRICT
1024	UTILITY DISTRICT
1025	MISCELLANEOUS JURISDICTIONAL LAND
1026	MISCELLANEOUS PUBLIC LAND BOUNDARY
1030	COUNTY
1040	FOREST
1041	PARK
1042	RESERVATION
1044	MILITARY BOUNDARY
1050	INTERNATIONAL
1060	STATE
1070	URBAN GROWTH BOUNDARY
1080	MUNICIPAL URBAN DRAINAGE DISTRICT
2000	0.2 PCT ANNUAL CHANCE FLOOD HAZARD
2001	1 PCT ANNUAL CHANCE FLOOD HAZARD
2002	ZONE D
2003	FUTURE 1 PCT ANNUAL CHANCE FLOOD HAZARD
2030	APPARENT LIMIT
2031	LIMIT OF DETAILED STUDY
2032	LIMIT OF FLOODWAY
2033	LIMIT OF STUDY
2040	FLOODWAY
2050	FLOWAGE EASEMENT BOUNDARY
2051	STATE ENCROACHMENT LINE
2052	ZONE BREAK
2053	LIMIT OF DETAILED STUDY/ZONE BREAK
2054	LIMIT OF FLOODWAY/ZONE BREAK
2055	ZONE BREAK/FLOODWAY
2056	LIMIT OF STUDY/ ZONE BREAK
3000	QUARTER SECTION
3001	COMMUNITY ENCROACHMENT LINE
3002	BOMBING RANGE
3003	GAMELAND

3004	TRIBAL
3005	WILDLIFE REFUGE
3010	RANGE
3020	TOWNSHIP
3030	SECTION
3040	MEANDER
4000	SOURCE BOUNDARY
9000	END OF SPATIAL EXTENT
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
LN_LID	S_FLD_HAZ_LN
LN_LID	V_E_FLD_HAZ_LN
LN_LID	V_P_FLD_HAZ_LN

D_LOC_ACCURACY	
CODE	**DESCRIPTION**
1000	HIGH
1010	MEDIUM
1020	LOW
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
LOC_ACC	S_REFPOINT

D_MARSHTY	
CODE	**DESCRIPTION**
1000	BIG CORDGRASS
1010	BLACK GRASS
1020	BLACK NEEDLERUSH
1030	MEDIUM SALTMEADOW CORDGRASS
1040	SALT GRASS
1050	SALTMEADOW GRASS
1060	SAW GRASS
1070	TALL SALTMEADOW CORDGRASS
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
MARSHTY	L_TSCTRGHNSS

D_METHOD	
CODE	**DESCRIPTION**
1000	CUT FROM TOPO
1010	DIGITIZED FROM FIRM
1020	FIELD SURVEY
1030	COMBO OF TOPO AND SURVEY
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
TSCTMETH	L_TSCTSURVEY
METH_LID	S_CSTTSCTLN

D_MTG_TYP	
CODE	DESCRIPTION
1000	INITIAL CCO
1010	FINAL CCO
1020	PROJECT DISCOVERY
1030	FINAL SCOPING
1040	OTHER OUTREACH
1050	PRELIMINARY
1060	FLOOD RISK REVIEW
1070	PUBLIC
1080	RESILIENCE
1090	INTERMEDIATE CCO
NP	NP
FIELD	ASSOCIATED FEATURE CLASS
MTG_TYP	L_MEETINGS

D_MTLTYP	
CODE	**DESCRIPTION**
1000	GRAVEL
1010	SILT
1020	CLAY
1030	EARTHEN
1040	CONCRETE
1050	METAL
1060	OTHER
1070	UNKNOWN
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
MTLTYP_LID	L_APXDAM
MTLTYP_LID	L_CST_STRUCT
MTLTYP_LID	L_CULPP
MTLTYP_LID	L_OTLPP
MTLTYP_LID	L_RSRBRL
MATERIAL	S_CHANNEL
MTLBED_LID	S_STRUC
MTLFIL_LID	S_STRUC
MTLFIL_LID	V_E_STRUC
MTLBED_LID	V_E_STRUC
MTLFIL_LID	V_P_STRUC
MTLBED_LID	V_P_STRUC

D_MUNNMTY	
CODE	**DESCRIPTION**
1000	BOROUGH OF
1010	CDP
1020	CITY AND COUNTY OF
1030	CITY OF
1040	MUNICIPALITY OF
1050	TOWN AND VILLAGE OF
1060	TOWN OF
1070	TOWNSHIP OF
1080	VILLAGE OF
FIELD	**ASSOCIATED FEATURE CLASS**
STUDY_PRE	S_COMMUNITY_GROUP

D_NM_TYP	
CODE	**DESCRIPTION**
1000	ALLEY
1010	ARCADE
1020	AVENIDA
1030	AVENUE
1040	BOULEVARD
1050	BYPASS
1060	CALLE
1070	CAUSEWAY
1080	CENTER
1090	CIRCLE
1100	COURT
1110	COVE
1120	CRESCENT
1130	CROSSING
1140	DRIVE
1150	ESTE
1160	EXPRESSO
1170	EXPRESSWAY
1180	FREEWAY
1190	HIGHWAY
1200	INTERSTATE HIGHWAY
1210	LANE
1220	LOOP
1230	MOTORWAY
1240	NORTE
1250	OESTE
1260	PARKWAY
1270	PASEO
1280	PASS
1290	PATH
1300	PIKE
1310	PLACE
1320	PLAZA
1330	ROAD
1340	ROW
1350	RUE
1360	SQUARE

1370	STREET
1380	SUR
1390	TERRACE
1400	THROUGHWAY
1410	TRAFFICWAY
1420	TRAIL
1430	TURNPIKE
1440	WAY
1450	HEIGHTS
1460	JUNCTION
1470	POINT
1480	RUN
1490	SPUR
1500	VALLEY
1510	TRACE
1520	WALK
1530	LANDING
1540	PARK
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
NM_LID	S_TRNSPORT_LN

D_NODE_TYP	
CODE	**DESCRIPTION**
1000	DIVERSION
1010	JUNCTION
1020	STRUCTURE
1030	SUB-BASIN OUTLET
FIELD	**ASSOCIATED FEATURE CLASS**
NODE_TYP	S_HYDRONODE
NODE_TYP	V_E_HYDRONODE
NODE_TYP	V_P_HYDRONODE

D_OBSTRUCTION	
CODE	**DESCRIPTION**
1000	ABOVE SURGE
1010	BUILDINGS
1020	DUNE
1030	END OF TRANSECT
1040	INITIAL ELEV
1050	INLAND
1060	MARSH GRASS
1070	OVERWATER
1080	VEGETATION
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
OBSTRUCTTY	L_CST_TSCTPT
OBSTRUCTY	L_TSCTRGHNSS

D_ORIENT	
CODE	**DESCRIPTION**
1000	LEFT TO RIGHT LOOKING DOWNSTREAM
1010	LEFT TO RIGHT LOOKING UPSTREAM
1020	LANDWARD
1030	SEAWARD
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
ORIENT	L_SXS
ORIENT	L_TSCTSURVEY
ORIENT	S_STRUC
ORIENT	V_E_STRUC
ORIENT	V_P_STRUC

D_PANEL_TYP	
CODE	**DESCRIPTION**
1000	COUNTYWIDE, PANEL PRINTED
1010	COUNTYWIDE, NOT PRINTED
1020	COMMUNITY BASED, PANEL PRINTED
1030	COMMUNITY BASED, NOT PRINTED
1040	UNMAPPED COMMUNITY
1050	STATEWIDE, PANEL PRINTED
1060	STATEWIDE, NOT PRINTED
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
PANEL_LID	L_PAN_REVIS

D_PARAMS	
CODE	**DESCRIPTION**
1000	CENTRAL PRESSURE DEPRESSION
1010	DIRECTION OF STORM PATH
1020	MAXIMUM FORWARD SPEED
1030	STORM RADIUS TO MAXIMUM WINDS
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
PARAM_LID	L_SURGE_PARAM

D_PATHTYP	
CODE	**DESCRIPTION**
1000	CHANNEL
1010	PIPE
1020	SIMPLE
1030	STREAM
1040	STRUCTURE
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
PATHTYPE	S_HYDRAFLOWPATH

D_PFD_SIZE	
CODE	DESCRIPTION
1000	SMALL
1010	LARGE
1020	UNKNOWN
NP	NP
FIELD	ASSOCIATED FEATURE CLASS
DUNE_SIZE	S_PFD_ERSN_AR

D_PLACEFIPS	
CODE	**DESCRIPTION**
00100	AARONS CORNER
00140	ABBOTTSBURG
00160	ABERDEEN, TOWN OF
00170	ABINGDON
00180	ABNER
00200	ABSHERS
00220	ACME
00260	ACORN HILL
00300	ACTON
00310	ADAKO
00360	ADAMSVILLE
00370	ADCOCK CROSSROADS
00380	ADDIE
00390	ADDINGTON MILL
00400	ADDOR
00440	ADVANCE
00450	ADVENT CROSSROADS
00460	AFTON
00480	AHO
00500	AHOSKIE, TOWN OF
00540	AIRBORO
00560	AIRLIE
00640	ALAMANCE, VILLAGE OF
00660	ALARKA
00680	ALBEMARLE, CITY OF
00700	ALBEMARLE BEACH
00720	ALBERTSON
00740	ALBRITTONS
00800	ALERT
00840	ALEXANDER MILLS
00880	ALEXIS
00900	ALFORDSVILLE
00910	ALLEGHENY
00920	ALLEN
00930	ALLEN GROVE
00940	ALLEN JAY
00945	ALLENS CROSSROADS

00950	ALLENS LEVEL
00955	ALLENSTAND
00960	ALLENSVILLE
00970	ALLENTON
01000	ALLIANCE, TOWN OF
01020	ALLIGATOR
01030	ALLIGOODS
01040	ALLISON
01050	ALLISON FERRY
01060	ALLREDS
01080	ALMA
01100	ALMOND
01120	ALSPAUGH
01140	ALTAMAHAW
01160	ALTAMONT
01180	ALTAPASS
01190	ALTON
01200	AMANTHA
01210	AMELIA
01230	AMHERST
01270	AMITY HILL
01280	AMMON
01285	AMMON FORD
01290	AMOSTOWN
01300	ANDERSON
01340	ANDERSON CREEK
01360	ANDERSONS CROSSROADS
01380	ANDREWS, TOWN OF
01390	ANDY COVE
01400	ANGIER, TOWN OF
01410	ANSLEY HEIGHTS
01420	ANSONVILLE, TOWN OF
01440	ANTIOCH
01450	ANTIOCH
01460	ANTIOCH
01480	ANTIOCH
01490	ANTIOCH
01520	APEX, TOWN OF
01540	APPLE GROVE
01560	AQUADALE

01580	AQUONE
01600	ARABIA
01640	ARAPAHOE, TOWN OF
01660	ARARAT
01680	ARBA
01700	ARCADIA
01705	ARCADIA
01715	ARCHDALE
01720	ARCHDALE, CITY OF
01760	ARCHER LODGE, TOWN OF
01780	ARCOLA
01800	ARDEN
01820	ARDMORE
01840	ARDULUSA
01860	ARGURA
01900	ARLINGTON, TOWN OF
01940	ARMOUR
01960	ARNOLD
01990	ARRWOOD MILL
02000	ARTESIA
02025	ASBURY
02030	ASBURY
02040	ASBURY
02050	ASBURY
02060	ASH
02080	ASHEBORO, CITY OF
02130	ASHEBROOK PARK
02140	ASHEVILLE, CITY OF
02180	ASHFORD
02200	ASH HILL
02220	ASHLAND
02230	ASHLAND
02240	ASHLEY HEIGHTS
02250	ASHMONT
02260	ASHTON
02300	ASHWOOD
02320	ASKEWVILLE, TOWN OF
02340	ASKIN
02430	ATANDO JUNCTION
02460	ATKINSON, TOWN OF

02480	ATLANTIC
02500	ATLANTIC BEACH, TOWN OF
02535	ATWOOD
02540	AUBURN
02580	AULANDER, TOWN OF
02590	AUMANS CROSSROADS
02600	AURELIAN SPRINGS
02620	AURORA, TOWN OF
02660	AUSTIN
02700	AUTRYVILLE, TOWN OF
02720	AVENTON
02760	AVERY CREEK
02780	AVON
02800	AVONDALE
02820	AXTELL
02840	AYDEN, TOWN OF
02860	AYDLETT
02880	AYERSVILLE
02900	AZALEA
02930	BACCHUS
02940	BACHELOR
02960	BADIN, TOWN OF
02980	BAGLEY
03000	BAHAMA
03010	BAILEY
03020	BAILEY, TOWN OF
03030	BAILEY CAMP
03045	BAILEYTOWN
03050	BAKER CROSSROADS
03060	BAKERS
03080	BAKERS CROSSROADS
03100	BAKERSVILLE, TOWN OF
03120	BAKERTOWN
03140	BALD CREEK
03150	BALD HEAD ISLAND, VILLAGE OF
03160	BALD MOUNTAIN
03180	BALDWIN
03210	BALDWIN WOODS
03220	BALFOUR
03270	BALLARD

03275	BALLARD CROSSROADS
03280	BALLARDS CROSSROAD
03320	BALM
03340	BALSAM
03360	BALSAM GROVE
03380	BALTIC
03400	BALTIMORE
03420	BAMBOO
03440	BANDANA
03460	BANDY
03470	BANKS
03500	BANNER ELK, TOWN OF
03510	BANNERTOWN
03520	BANNERTOWN
03525	BANOAK
03530	BARBECUE
03535	BARBER
03540	BARBER
03560	BARCLAYSVILLE
03580	BARCO
03590	TUSCARORA BEACH
03600	BARHAM
03620	BARIUM SPRINGS
03640	BARKER HEIGHTS
03665	BARKER TEN MILE
03700	BARNARD
03720	BARNARDSVILLE
03740	BARNESVILLE
03760	BARRETT
03780	BARRETTS CROSSROADS
03800	BARRIERS MILL
03804	BARTLETT
03808	BARTONSVILLE
03812	BASS CROSSROADS
03816	BATARORA
03820	BAT CAVE
03825	BATCHELOR CROSSROADS
03830	BATES CREEK
03840	BATH, TOWN OF
03860	BATON

03900	BATTLEBORO
03910	BATTLEGROUND
03925	BATTS CROSSROADS
03930	BAUMTOWN
03935	BAXTER
03960	BAYBORO, TOWN OF
03970	BAY CITY
03980	BAYLEAF
04000	BAYNES
04015	BAYSHORE
04040	BAYVIEW
04060	BEACH SPRINGS
04070	BEAMAN CROSSROADS
04080	BEAM MILL
04100	BEAR CREEK
04110	BEAR CREEK
04120	BEAR CREEK
04160	BEARD
04180	BEAR GRASS, TOWN OF
04200	BEAR POND
04220	BEAR POPLAR
04240	BEARSKIN
04245	BEARWALLOW
04250	BEASLEY
04260	BEAUFORT, TOWN OF
04265	BEAUTANCUS
04270	BEAVERBROOK
04280	BEAVER CREEK
04300	BEAVER CREEK
04320	BEAVERDAM
04340	BEAVERDAM
04380	BECKFORD JUNCTION
04400	BECKWITH
04420	BEECH
04440	BEECH BOTTOM
04460	BEECH CREEK
04480	BEECHERTOWN
04490	BEECH GLEN
04510	BEECH MOUNTAIN, TOWN OF
04520	BEE LOG

04560	BELCROSS
04580	BELEWS CREEK
04600	BELFAST
04620	BELGRADE
04640	BELHAVEN, TOWN OF
04660	BELLAIR
04670	BELLAMY
04680	BELL ARTHUR
04700	BELLEMONT
04720	BELL FORK
04730	BELLS
04740	BELLS CROSSROADS
04745	BELLS CROSSROADS
04750	BELLS CROSSROADS
04760	BELL FORK
04780	BELL SWAMP
04800	BELLTOWN
04820	BELLVIEW
04840	BELMONT, CITY OF
04850	BELMONT
04920	BELVA
04940	BELVIDERE
04950	BELVILLE, TOWN OF
04955	BELVOIR
04960	BELWOOD, TOWN OF
04980	BENAJA
05000	BENHAM
05020	BENNETT
05040	BENSON, TOWN OF
05049	BENT CREEK
05050	BENT CREEK
05100	BENTONS CROSSROADS
05120	BEREA
05135	BERMUDA RUN, TOWN OF
05150	BERRY MILL
05160	BERTHA
05200	BESSEMER
05220	BESSEMER CITY, CITY OF
05240	BESSIE
05260	BEST

05280	BETA
05320	BETHANIA STATION
05340	BETHANIA, TOWN OF
05345	BETHANY
05350	BETHANY CROSSROADS
05370	BETHEL
05380	BETHEL
05400	BETHEL
05430	BETHEL
05440	BETHEL
05460	BETHEL, TOWN OF
05480	BETHEL
05500	BETHEL HILL
05510	BETHESDA
05520	BETHESDA
05530	BETHLEHEM
05560	BETHLEHEM
05580	BETTIE
05600	BEULAH
05620	BEULAH
05640	BEULAHTOWN
05660	BEULAVILLE, TOWN OF
05680	BEVERLY HILLS
05730	BIG CURVE
05735	BIG EAST FORK
05760	BIG LAUREL
05770	BIG LAUREL
05780	BIG LICK
05800	BIG PINE
05820	BIG RIDGE
05840	BILBOA
05850	BILLS CREEK
05860	BILTMORE
05880	BILTMORE FOREST, TOWN OF
05920	BINA
05940	BINGHAM HEIGHTS
05960	BIRD CAGE
05980	BIRDTOWN
06000	BISCOE, TOWN OF
06010	BISHOP

06020	BISHOPS CROSS
06040	BIXBY
06050	BLACKBERRY INN
06060	BLACKBURN
06080	BLACK CREEK, TOWN OF
06100	BLACK JACK
06125	BLACKMANS MILLS
06130	BLACKMON CROSSROADS
06140	BLACK MOUNTAIN, TOWN OF
06170	BLACKNEL
06180	BLACKROCK
06190	BLACK WATER
06200	BLACKWELL
06220	BLACKWOOD
06240	BLADENBORO, TOWN OF
06270	BLADEN SPRINGS
06280	BLADES
06300	BLAINE
06320	BLANCH
06345	BLANDS
06350	BLANDS CROSSROADS
06360	BLANTYRE
06370	BLEVINS CROSSROADS
06400	BLIZZARDS CROSSROADS
06420	BLOOMINGDALE
06440	BLOOMINGTON
06445	BLOSSOMTOWN
06455	BLOUNT
06460	BLOUNTS CREEK
06500	BLOWING ROCK, TOWN OF
06520	BLUEFIELD
06560	BLUE RIDGE
06585	BLUE RIDGE FOREST
06595	BLUE ROCK
06620	BLUFF
06660	BOARDMAN, TOWN OF
06680	BOBBITT
06720	BOGER CITY
06740	BOGUE, TOWN OF
06750	BOHAYNEE

06760	BOILING SPRING LAKES, CITY OF
06780	BOILING SPRINGS
06800	BOILING SPRINGS, TOWN OF
06820	BOLIVIA, TOWN OF
06840	BOLLING
06860	BOLTON, TOWN OF
06880	BON AIR
06910	BONES FORD
06940	BONLEE
06960	BONNERTON
06980	BONNETSVILLE
07000	BONNIE DOONE
07020	BONSAL
07040	BOOGERTOWN
07060	BOOMER
07080	BOONE, TOWN OF
07090	BOONE FORK
07100	BOONES CROSSROADS
07105	BOONES HILL
07110	BOONE TRAIL
07120	BOONFORD
07140	BOONVILLE, TOWN OF
07210	BOSTIAN HEIGHTS
07220	BOSTIC, TOWN OF
07260	BOSWELL
07270	BOSWELLVILLE
07280	BEULAH
07340	BOWDENS
07360	BOWDITCH
07390	BOWLENS CREEK
07395	BOWMAN BLUFF
07400	BOWMORE
07410	BOYD CROSSROADS
07415	BOYDS FORK
07470	BOYLSTON CREEK
07500	BRADFORD CROSSROADS
07540	BRAGGTOWN
07560	BRAKE
07580	BRANDON
07600	BRANON

07610	BRASSFIELD
07620	BRASSTOWN
07640	BRASWELL
07660	BRASWELLS CROSSROADS
07680	BRENDLETOWN
07720	BREVARD, CITY OF
07740	BREWERS CROSSROADS
07750	BRIARCLIFF
07760	BRICE
07765	BRICES CREEK
07770	BRICES CROSSROADS
07780	BRICKHAVEN
07820	BRICKTON
07840	BRIDGERSVILLE
07860	BRIDGETON, TOWN OF
07880	BRIDGEWATER
07900	BRIEF
07920	BRIERTOWN
07930	BRIGHTWATER
07940	BRIGHTWOOD
07960	BRINDLETOWN
08000	BRINKLEYVILLE
08040	BROAD CREEK
08060	BROADVIEW
08065	BROADVIEW ESTATES
08075	BROADWAY
08080	BROADWAY, TOWN OF
08100	BROCKS
08105	BROGDEN
08110	BROGDEN
08120	BROOK COVE
08140	BROOKFORD, TOWN OF
08200	BROOKS CROSSROADS
08220	BROOKSDALE
08260	BROOKSTON
08280	BROOKWOOD
08295	BROWN MOUNTAIN
08300	BROWN MOUNTAIN BEACH
08330	BROWNS CROSSROADS
08340	BROWNS SUMMIT

08365	BROWN TOWN
08370	BROWN TOWN
08375	BROWNTOWN CROSSROADS
08380	BROWNWOOD
08400	BRUCE
08420	BRUNSWICK, TOWN OF
08440	BRYANTOWN
08480	BRYSON CITY, TOWN OF
08490	BUCK
08500	BUCKEYE FORD
08510	BUCKHEAD
08540	BUCKHORN CROSSROADS
08550	BUCKLAND
08560	BUCKLESBERRY
08580	BUCKNER
08610	BUENA VISTA
08620	BUENA VISTA
08640	BUENA VISTA
08650	BUFFALO
08660	BUFFALO
08680	BUFFALO CITY
08700	BUFFALO COVE
08720	BUG HILL
08740	BUIE
08760	BUIES CREEK
08770	BUIES NECK
08780	BULADEAN
08820	BULLOCK
08830	BULLOCKSVILLE
08832	BULLUCKS CROSSROADS
08835	BUNKER HILL
08860	BUNN, TOWN OF
08880	BUNNLEVEL
08900	BUNYAN
08910	BURBAGE CROSSROADS
08920	BURCH
08940	BURDEN
08960	BURGAW, TOWN OF
08970	BURGER TOWN
08980	BURGESS

09020	BURKEMONT
09040	BURKE PARK
09060	BURLINGTON, CITY OF
09085	BURNETT FIELDS
09090	BURNETT SIDING
09095	BURNEY
09100	BURNINGTOWN
09120	BURNSVILLE
09140	BURNSVILLE, TOWN OF
09160	BURNT CHIMNEY CORNER
09180	BURNT MILLS
09205	BURTON
09210	BURTON HILLS
09220	BUSBEE
09260	BUSHY FORK
09300	BUSICK
09310	BUTLER CROSSROADS
09340	BUTLERS CROSSROADS
09360	BUTNER, TOWN OF
09380	BUTTERS
09400	BUXTON
09420	BUZZARDS CROSSROADS
09440	BYNUM
09470	BYRDVILLE
09480	CABARRUS
09490	CABES FORD
09500	CABIN
09510	CAHABA
09520	CAIRO
09530	CAJAH'S MOUNTAIN, TOWN OF
09540	CALABASH, TOWN OF
09560	CALAHALN
09580	CALDWELL
09600	CALDWELL
09610	CALICO
09620	CALIFORNIA
09625	CALIFORNIA
09630	CALIFORNIA
09640	CALIFORNIA
09660	CALL

09680	CALLISONS
09690	CALVANDER
09700	CALVERT
09720	CALVIN
09760	CALYPSO, TOWN OF
09780	CAMDEN
09790	CAMELOT
09800	CAMERON, TOWN OF
09830	CAMPBELL
09840	CAMPBELL CREEK
09844	CAMPBELLS CROSSROAD
09848	CAMP BRYAN
09852	CAMP CREEK
09856	CAMP DON-LEE
09870	CAMP HARDEE
09880	CAMP LEACH
09970	CAMP OCCONEECHEE
09990	CAMP SEAGULL
10000	CAMP SPRINGS
10040	CANA
10080	CANDLER
10100	CANDLER HEIGHTS
10120	CANDOR, TOWN OF
10130	CANE
10135	CANE BRAKE
10190	CANNON CROSSROADS
10200	CANNON FERRY
10220	CANTO
10240	CANTON, TOWN OF
10260	CAPE CARTERET, TOWN OF
10300	CAPE FEAR
10340	CAPELLA
10345	CAPE LOOKOUT
10360	CAPELSIE
10370	CAPELS MILL
10380	CAPERNIUM
10420	CARALEIGH
10440	CARBONTON
10445	CARLOS
10456	CARMEN

10458	CARMUR
10460	CAROLEEN
10480	CAROLINA
10500	CAROLINA BEACH, TOWN OF
10540	CAROLINA PINES
10550	CAROLINA SHORES, TOWN OF
10560	CARPENTER
10580	CARPENTER BOTTOM
10600	CARR
10620	CARRBORO, TOWN OF
10640	CARROLL
10650	CARSON MILL
10660	CARTER
10670	CARTERSVILLE
10680	CARTHAGE, TOWN OF
10720	CARVERS
10740	CARY, TOWN OF
10760	CASAR, TOWN OF
10800	CASHIERS
10840	CASON OLD FIELD
10860	CASTALIA, TOWN OF
10880	CASTLE HAYNE
10900	CASTORIA
10920	CASVILLE
10960	CASWELL BEACH, TOWN OF
10980	CATAWBA, TOWN OF
11000	CATAWBA HEIGHTS
11010	CATES
11015	CATFISH
11020	CATHERINE LAKE
11040	CAT SQUARE
11120	CAYTON
11130	CEDAR BAY
11140	CEDAR CREEK
11160	CEDAR FALLS
11180	CEDAR FORK
11200	CEDAR GROVE
11220	CEDAR GROVE
11230	CEDAR GROVE
11240	CEDAR HILL

11260	CEDAR HILL
11280	CEDAR ISLAND
11320	CEDAR MOUNTAIN
11340	CEDAR POINT, TOWN OF
11352	CEDAR ROCK, VILLAGE OF
11400	CEDAR VALLEY
11420	CEFFO
11440	CELESTE HINKEL
11460	CELO
11480	CENTER
11500	CENTER
11525	CENTER HILL
11530	CENTER PIGEON
11540	CENTERVIEW
11560	CENTERVILLE, TOWN OF
11570	CENTRAL
11575	CENTRAL AREA
11580	CENTRAL FALLS
11620	CERRO GORDO, TOWN OF
11640	CHADBOURN, TOWN OF
11680	CHADWICK ACRES
11710	CHALYBEATE SPRINGS
11780	CHAPANOKE
11800	CHAPEL HILL, TOWN OF
11810	CHAPEL HILL
11820	CHARITY
11840	CHARLES
11860	CHARLESTON
12000	CHARLOTTE, CITY OF
12075	CHEEKS
12100	CHEMWAY
12120	CHEOAH
12140	CHEROKEE
12180	CHERRY
12190	CHERRY CROSSROADS
12200	CHERRYFIELD
12220	CHERRY GROVE
12240	CHERRY GROVE
12280	CHERRY LANE
12290	CHERRY POINT LANDING

12340	CHERRYVILLE, CITY OF
12360	CHESTERFIELD
12380	CHESTNUT DALE
12400	CHESTNUT GROVE
12420	CHESTNUT HILL
12440	CHESTNUT HILL
12460	CHIMNEY ROCK VILLAGE, VILLAGE OF
12480	CHINA GROVE, TOWN OF
12520	CHINQUAPIN
12530	CHIP
12540	CHIP
12580	CHOCOWINITY, TOWN OF
12585	CHOWAN
12590	CHOWAN BEACH
12620	CHURCH HILL
12640	CHURCHLAND
12660	CID
12680	CISCO
12700	CITYVIEW
12710	CLAIRMONT
12720	CLAREMONT, CITY OF
12740	CLARENDON
12760	CLARK
12765	CLARK
12770	CLARKS CROSSROADS
12780	CLARKTON, TOWN OF
12800	CLARRISSA
12820	CLAY
12840	CLAYROOT
12860	CLAYTON, TOWN OF
12900	CLEAR RUN
12920	CLEGG
12930	CLEMENT
12940	CLEMMONS STATION
12960	CLEMMONS, VILLAGE OF
13000	CLEVELAND, TOWN OF
13060	CLIFDALE
13100	CLIFFSIDE
13140	CLIFTON
13150	CLIFTONVILLE

13160	CLIMAX
13200	CLINCHFIELD
13220	CLINGMAN
13240	CLINTON, CITY OF
13250	CLOSS
13260	CLOVERDALE
13270	CLOVER GARDEN
13280	CLYDE, TOWN OF
13300	COAKLEY
13340	COALVILLE
13360	COATS, TOWN OF
13380	COATS CROSSROADS
13410	COBBS CROSSROAD
13420	COBB TOWN
13430	COBURN
13435	COCKRELL BEACH
13460	COFIELD, VILLAGE OF
13470	COGGINS MINE
13480	COGNAC
13500	COINJOCK
13510	COKERS CROSSROADS
13520	COKESBURY
13540	COKESBURY
13544	COLD SPRINGS
13548	COLD SPRINGS
13552	COLD WATER
13556	COLEMAN
13560	COLERAIN, TOWN OF
13580	COLERIDGE
13590	COLEVILLE
13620	COLFAX
13640	COLINGTON
13760	COLLETTSVILLE
13800	COLLINSTOWN
13820	COLLINSVILLE
13840	COLLY
13860	COLON
13870	COLONIAL HEIGHTS
13900	COLONIAL HEIGHTS
13930	COLTRANES MILL

13940	COLUMBIA, TOWN OF
13960	COLUMBIA HEIGHTS
13980	COLUMBUS, TOWN OF
14010	COMBS FORK
14020	COMET
14040	COMFORT
14060	COMO, TOWN OF
14100	CONCORD, CITY OF
14120	CONCORD
14140	CONCORD
14150	CONCORD
14160	CONCORD
14170	CONCORD
14200	CONETOE, TOWN OF
14220	CONGLETON
14240	CONNARITSA
14280	CONNELLY SPRINGS, TOWN OF
14330	CONNOR
14340	CONOVER, CITY OF
14385	CONTENTNEA JUNCTION
14400	CONWAY, TOWN OF
14410	COOKS CROSSING
14420	COOKSVILLE
14440	COOKTOWN
14460	COOLEEMEE, TOWN OF
14480	COOLEEMEE JUNCTION
14485	COOLEYS CROSSROADS
14495	COOL RUN
14500	COOL SPRINGS
14505	COOL SPRINGS
14510	COOLVALE
14515	COOPER
14520	COPELAND
14530	COPPER FORD
14560	CORAPEAKE
14580	CORBETT
14600	CORDOVA
14610	CORE CREEK
14620	CORE POINT
14630	COREYS CROSSROADS

14640	CORINTH
14660	CORINTH
14670	CORINTH
14680	CORNATZER
14700	CORNELIUS, TOWN OF
14710	CORNWALL
14720	COROLLA
14745	CORRIHER HEIGHTS
14750	CORYS
14760	COSTIN
14820	COTTON GROVE
14840	COTTONVILLE
14880	COUNCIL
14960	COURTNEY
15010	COVE
15020	COVE CITY, TOWN OF
15040	COVE CREEK
15050	COVINGTON
15060	COVINGTON
15100	COWANS FORD
15110	COWARTS
15120	COWEE
15130	COX MILL
15135	COXS CROSSROADS
15140	COXVILLE
15150	COZADS MILL
15160	COZART
15190	CRAB POINT VILLAGE
15200	CRABTREE
15240	CRAGGY
15260	CRAMERTON, TOWN OF
15280	CRANBERRY
15300	CRANBERRY GAP
15305	CRAVEN
15310	CRAVEN TERRACE
15315	CREECHES MILL
15320	CREEDMOOR, CITY OF
15340	CREEKSVILLE
15360	CREMO
15380	CRESCENT

15400	CRESTON
15410	CRESTWOOD
15420	CRESWELL, TOWN OF
15430	CRIBB TOWN
15440	CRICKET
15450	CRIMS CROSSROADS
15460	CRISP
15480	CROATAN
15485	CROATAN SHORES
15495	CROCKERS NUB
15500	CROFT
15520	CROOKED OAK
15580	CROSSNORE, TOWN OF
15620	CROSSWAY
15640	CROUSE
15660	CROWDERS
15710	CROWELLS CROSSROADS
15720	CRUMPLER
15730	CRUMPLERS CROSSROADS
15740	CRUMP TOWN
15760	CRUSO
15800	CRUTCHFIELD
15810	CRUTCHFIELD CROSSROADS
15820	CULBERSON
15840	CULBRETH
15860	CULLASAJA
15880	CULLOWHEE
15900	CUMBERLAND
15920	CUMNOCK
15960	CUNNINGHAM
15980	CURRIE
16000	CURRITUCK
16010	CURRYTOWN
16020	CUTSHALLTOWN
16040	CYCLE
16060	CYPRESS CREEK
16080	CYPRESS CREEK
16100	CYRUS
16120	DABNEY
16130	DADDYSVILLE

16180	DALLAS, TOWN OF
16200	DALTON
16220	DANA
16240	DANBURY, TOWN OF
16250	DANIELS
16265	DANIELTOWN
16270	DAN RIVER SHORES
16275	DAN VALLEY
16280	DARBY
16300	DARDENS
16360	DARLINGTON
16380	DAVENPORT FORKS
16400	DAVIDSON, TOWN OF
16420	DAVIDSON RIVER
16450	DAVIE CIRCLE
16460	DAVIE CROSSROADS
16480	DAVIS
16500	DAVISTOWN
16505	DAVISTOWN
16515	DAWSON
16520	DAWSON CROSSROADS
16560	DAY BOOK
16580	DAYS CROSSROADS
16610	DEAN
16615	DEANS MILL
16640	DEAVER VIEW
16660	DEEP CREEK
16700	DEEP RIVER
16720	DEEP RUN
16750	DEGRAFFENRIED PARK
16760	DEHART
16770	DE HART MILL
16780	DELCO
16800	DELIGHT
16815	DELLAPLANE
16820	DELLVIEW, TOWN OF
16840	DELLWOOD
16850	DELMAR
16855	DELTA
16860	DELWAY

16880	DEMOCRAT
16900	DENDRON
16920	DENNIS
16960	DENNY STORE
16980	DENTON, TOWN OF
16990	DENTONS
17000	DENVER
17020	DEPPE
17040	DERBY
17060	DERITA
17080	DEVOTION
17120	DEXTER
17130	DICKERSON
17140	DICKERSON
17143	DIGGS
17147	DILDYS MILL
17150	DILLARD
17160	DILLINGHAM
17170	DILLION RIDGE
17180	DILLSBORO, TOWN OF
17240	DIXIE
17265	DIXIE
17270	DIXIE CROSSROADS
17280	DIXON
17320	DOBBERSVILLE
17325	DOBBINS HEIGHTS, TOWN OF
17340	DOBSON, TOWN OF
17360	DOCKERY
17380	DODGETOWN
17400	DODSONS CROSSROADS
17410	DOE CREEK
17430	DOGWOOD ACRES
17480	DONNAHA
17500	DOOLIE
17510	DORA
17515	DORT
17520	DORTCHES, TOWN OF
17560	DOTHAN
17570	DOUBLE ISLAND
17580	DOUBLE SHOALS

17600	DOUGHTON
17620	DOUGLAS CROSSROADS
17640	DOVER
17660	DOVER, TOWN OF
17670	DOVER
17735	DOZIER
17740	DRACO
17760	DRAKE
17800	DRAPER
17820	DRAUGHN
17830	DRESDEN
17835	DREW
17840	DREWRY
17860	DREXEL, TOWN OF
17880	DRIVERS STORE
17920	DRUM HILL
17940	DRUMS CROSSROADS
17990	DRYSDALE HILLS
18000	DUAN
18020	DUART
18040	DUBLIN, TOWN OF
18060	DUCK, TOWN OF
18065	DUCK CREEK
18070	DUCKTOWN
18080	DUDLEY
18120	DUDLEY SHOALS
18140	DUFF CREEK
18160	DUFFIES
18210	DUKES
18260	DULAH
18270	DULA SPRINGS
18280	DUNCAN
18300	DUNDARRACH
18320	DUNN, CITY OF
18340	DUNN CROSSROADS
18350	DUNNS ROCK
18380	DUPREE CROSSROADS
18390	DURANT
19000	DURHAM, CITY OF
19020	DYSARTSVILLE

19050	EAGLE MILLS
19060	EAGLE ROCK
19080	EAGLE SPRINGS
19090	EAGLETON
19100	EAGLETOWN
19140	EARL, TOWN OF
19160	EARLEYS
19200	EARPSBORO
19220	EASONBURG
19240	EASON CROSSROADS
19300	EAST ARCADIA, TOWN OF
19320	EAST BEND, TOWN OF
19330	EASTBROOK
19400	EAST FAYETTEVILLE
19420	EAST FLAT ROCK
19430	EAST FORK
19440	EAST FRANKLIN
19460	EAST GASTONIA
19580	EAST LAKE
19600	EAST LAPORT
19620	EAST LAURINBURG, TOWN OF
19640	EAST LUMBERTON
19680	EAST MARION
19700	EAST MONBO
19720	EASTON VIEW
19740	EASTOVER, TOWN OF
19780	EAST PARKLAND
19800	EAST ROCKINGHAM
19840	EAST SIDE PARK
19850	EAST SIDE PARK
19860	EAST SPENCER, TOWN OF
19880	EAST TABOR
19940	EAST WHITE OAK
19970	EAST WINSTON
20000	EASTWOOD
20010	EASY HILL
20015	EBBS MILL
20020	EBENEZER
20040	ECHO
20060	ECHO HEIGHTS

20065	ECHO PARK
20070	ECUSTA
20080	EDEN, CITY OF
20120	EDENTON, TOWN OF
20140	EDGAR
20150	EDGECOMBE
20160	EDGEMONT
20180	EDGEVILLE
20230	EDGEWOOD TERRACE
20236	EDINBURGH
20240	EDMONDS
20250	EDMONDSON
20260	EDMUNDSON CROSSROADS
20280	EDNEYVILLE
20300	EDWARD
20320	EDWARDS CROSSROADS
20340	EDWARDS CROSSROADS
20360	EDWARDS CROSSROADS
20380	EDWARDS FORK
20420	EFLAND
20440	ELA
20460	ELAMS
20480	ELBERON
20490	ELBERTA
20500	ELDORADO
20520	ELEANORS CROSSROADS
20525	ELEASE
20530	ELEAZER
20540	ELF
20550	ELIAH
20555	ELI WHITNEY
20580	ELIZABETH CITY, CITY OF
20600	ELIZABETHTOWN, TOWN OF
20620	ELKIN, TOWN OF
20680	ELK MOUNTAIN
20700	ELK PARK, TOWN OF
20720	ELK SHOAL
20740	ELKTON
20760	ELK VALLEY
20770	ELKVILLE

20780	ELLENBORO, TOWN OF
20800	ELLENDALE
20840	ELLERBE, TOWN OF
20850	ELLERBE GROVE
20860	ELLIJAY
20900	ELLIOTT
20920	ELLISBORO
20940	ELLIS CROSSROADS
20960	ELLIS STORE
20980	ELM CITY, TOWN OF
21040	ELM GROVE
21050	ELMIRA CROSSROADS
21060	ELMORE
21070	ELMORES CROSSROADS
21080	ELMWOOD
21095	ELON, TOWN OF
21120	ELROD
21130	ELROY
21140	EMBRO
21160	EMERALD ISLE, TOWN OF
21170	EMERALD VILLAGE
21180	EMERSON
21200	EMERSON
21210	EMERY
21240	EMIT
21260	EMMA
21360	ENFIELD, TOWN OF
21380	ENGELHARD
21420	ENGLISH
21440	ENKA
21460	ENKA VILLAGE
21480	ENNICE
21490	ENO
21500	ENOCHVILLE
21520	ENOLA
21540	ENON
21560	ENTERPRISE
21580	ENTERPRISE
21600	EPHESUS
21620	EPSOM

21640	ERASTUS
21680	ERLANGER
21700	ERNUL
21720	ERVINTOWN
21740	ERWIN, TOWN OF
21760	ERWIN HEIGHTS
21790	ESKOTA
21800	ESSEX
21820	ESTATOE
21840	ESTELLE
21860	ETHER
21880	ETOWAH
21900	EUBANKS
21920	EUFOLA
21940	EURE
21960	EUREKA, TOWN OF
22000	EVANSDALE
22040	EVERETTS, TOWN OF
22060	EVERETTS CROSSROADS
22070	EVERETTS MILL
22080	EVERGREEN
22130	EVERTON
22160	EXUM
22180	EX-WAY
22190	EZZELLTOWN
22240	FAIR BLUFF, TOWN OF
22245	FAIRBROOK
22255	FAIRFAX
22260	FAIRFIELD
22280	FAIRFIELD
22300	FAIRFIELD
22305	FAIRFIELD HARBOUR
22310	FAIRGROVE
22320	FAIR GROVE
22360	FAIRMONT, TOWN OF
22370	FAIRNTOSH
22380	FAIRPLAINS
22400	FAIRPORT
22420	FAIRVIEW
22440	FAIRVIEW

22460	FAIRVIEW
22480	FAIRVIEW
22485	FAIRVIEW
22490	FAIRVIEW
22500	FAIRVIEW, TOWN OF
22530	FAIRVIEW PARK
22540	FAIRWAY ACRES
22550	FAIRWAY HILLS
22560	FAISON, TOWN OF
22580	FAISONS
22600	FAITH, TOWN OF
22620	FALCON, TOWN OF
22640	FALKLAND, TOWN OF
22650	FALLCLIFF
22680	FALLING CREEK
22700	FALLS
22720	FALLSTON, TOWN OF
22740	FARMER
22800	FARMINGTON
22810	FARMVILLE
22820	FARMVILLE, TOWN OF
22840	FARO
22850	FARRAR
22860	FARRINGTON
22870	FAULKNER CROSSROADS
22880	FAUST
22920	FAYETTEVILLE, CITY OF
22970	FEARRINGTON
22982	FEARRINGTON VILLAGE
23020	FEEZOR
23025	FELTONVILLE
23030	FENIX
23060	FERGUSON
23100	FERO
23160	FEW
23200	FIBREVILLE
23220	FIELDS
23225	FIELDSBORO
23230	FIELDS OF THE WOOD
23240	FIG

23250	FILLMORE
23255	FINCH MILL
23260	FINES CREEK
23280	FINGER
23300	FINLEY
23320	FIRES CREEK
23355	FISHER CREEK
23360	FISHER PARK
23380	FISHER TOWN
23400	FITCH
23410	FITZGERALD
23420	FIVE FORKS
23425	FIVE FORKS
23430	FIVE FORKS
23440	FIVE FORKS
23480	FIVE POINTS
23485	FIVE POINTS
23490	FIVE POINTS
23495	FIVE POINTS
23500	FIVE POINTS
23520	FIVE POINTS
23540	FIVE POINTS
23545	FIVE POINTS
23550	FIVE POINTS
23555	FLANNER BEACH
23560	FLAT BRANCH
23580	FLAT CREEK
23590	FLAT GAP
23600	FLAT ROCK, VILLAGE OF
23620	FLAT ROCK
23640	FLAT ROCK
23645	FLAT ROCK
23650	FLAT ROCK FOREST
23680	FLAT SHOALS
23700	FLAT SPRINGS
23705	FLAT TOP
23710	FLATWOOD
23720	FLAY
23740	FLEETWOOD
23760	FLETCHER, TOWN OF

23780	FLINT HILL
23800	FLINT HILL
23820	FLINT HILL
23840	FLORAL COLLEGE
23850	FLORENCE
23860	FLORENCE
23870	FLORENCE TOWN
23880	FLOWERS
23900	FLOWS STORE
23920	FLOYTAN CROSSROADS
23940	FOLKSTONE
23970	FOLLY FORK
23990	FONTANA VILLAGE
24000	FONVILLE
24020	FOOTVILLE
24050	FORBUSH
24060	FOREST
24080	FOREST CITY, TOWN OF
24090	FOREST GROVE
24160	FOREST HILLS
24170	FOREST HILLS, VILLAGE OF
24185	FOREST HILLS
24190	FOREST HILLS
24195	FOREST HILLS
24198	FOREST OAKS
24200	FORESTVILLE
24220	FORK
24230	FORKS OF IVY
24240	FORT BARNWELL
24260	FORT BRAGG
24280	FORT CASWELL
24283	FORT CLARK
24287	FORT DEFIANCE
24320	FORT LANDING
24328	FORT MACON
24360	FORT RALEIGH CITY
24380	FOSCOE
24390	FOSTER
24400	FOSTER CREEK
24420	FOUNTAIN

24440	FOUNTAIN, TOWN OF
24460	FOUNTAIN HILL
24470	FOUNTAIN HILL
24520	FOUR OAKS, TOWN OF
24560	FOURWAY
24563	FOWLER CROSSROADS
24567	FOWLERS CROSSROADS
24570	FOXFIRE, VILLAGE OF
24575	FOX RUN
24600	FRANCISCO
24605	FRANCIS MILL
24610	FRANCKTOWN
24620	FRANK
24640	FRANKLIN, TOWN OF
24660	FRANKLIN
24680	FRANKLIN GROVE
24720	FRANKLINTON, TOWN OF
24740	FRANKLINVILLE, TOWN OF
24780	FRAZIER CROSSROADS
24800	FRAZIERS CROSSROADS
24840	FREELAND
24860	FREEMAN
24880	FREEMAN MILL
24900	FREMONT, TOWN OF
24930	FRIENDSHIP
24940	FRIENDSHIP
24960	FRIENDSHIP
24980	FRIENDSHIP
25020	FRISCO
25040	FROG LEVEL
25060	FROG LEVEL
25100	FROG POND
25120	FROGSBORO
25140	FRONTIS
25160	FRUITLAND
25165	FRUITLAND
25170	FRYING PAN
25180	FULCHER LANDING
25190	FULCHERTOWN
25200	FULFORD

25210	FULLER MILL
25260	FUNSTON
25300	FUQUAY-VARINA, TOWN OF
25320	FURCHES
25335	GADDYSVILLE
25340	GALATIA
25345	GALILEE MISSION
25355	GALLOWAY CROSSROADS
25380	GAMEWELL, TOWN OF
25390	GARDEN CREEK
25410	GARDNER PARK
25420	GARDNERVILLE
25460	GARLAND, TOWN OF
25480	GARNER, TOWN OF
25500	GARNERS STORE
25520	GARREN HILL
25540	GARYSBURG, TOWN OF
25550	GASHES CREEK
25560	GASTON, TOWN OF
25580	GASTONIA, CITY OF
25660	GATES
25680	GATESVILLE, TOWN OF
25700	GATEWOOD
25740	GAY
25760	GAYLORD
25770	GELA
25780	GENLEE
25790	GENOA
25800	GENTRY STORE
25820	GEORGE
25825	GEORGES MILL
25830	GEORGETOWN
25835	GEORGETOWN
25840	GEORGETOWN
25860	GEORGEVILLE
25880	GERMANTON
25890	GERMANTOWN
25900	GERTON
25920	GETHSEMANE
25933	GHIO SCHOLL STATION

25937	GIBBTON
25940	GIBSON, TOWN OF
25965	GIBSON MILL
25975	GIBSONTOWN
25980	GIBSONVILLE, TOWN OF
26000	GIDDENSVILLE
26020	GILEAD
26040	GILKEY
26060	GILL
26080	GILLBURG
26100	GILREATH
26140	GLADE VALLEY
26150	GLADY
26180	GLASS
26200	GLEN ALPINE, TOWN OF
26210	GLEN ANNA
26220	GLEN AYRE
26260	GLENCOE
26300	GLENDALE SPRINGS
26320	GLENDON
26340	GLENFIELD
26350	GLENFIELD CROSSROADS
26360	GLEN FOREST
26370	GLENLAUREL
26380	GLEN LENNOX
26440	GLENOLA
26460	GLEN RAVEN
26500	GLENVIEW
26520	GLENVILLE
26540	GLENWOOD
26560	GLENWOOD
26580	GLENWOOD
26590	GLENWOOD CROSSROADS
26620	GLENWOOD VILLAGE
26640	GLIDEN
26660	GLOBE
26680	GLOUCESTER
26700	GNEISS
26720	GOAT NECK
26740	GODWIN, TOWN OF

26750	GOLD
26790	GOLD HILL
26795	GOLD HILL
26800	GOLD HILL
26840	GOLD POINT
26860	GOLD ROCK
26870	GOLD SAND
26880	GOLDSBORO, CITY OF
26920	GOLDSTON, TOWN OF
26925	GOLD VALLEY CROSSROADS
26935	GOODLUCK
26940	GOODSONVILLE
26970	GOODWIN HILLS
26980	GOOSE CREEK
27000	GOOSE HOLLOW
27020	GOOSENECK
27040	GOOSE POND
27080	GORDONTON
27100	GORDONTOWN
27120	GORMAN
27170	GOSHEN GROVE
27190	GRABTOWN
27200	GRACE
27220	GRACE CHAPEL
27240	GRADYS
27260	GRAGG
27280	GRAHAM, CITY OF
27300	GRAINGERS
27320	GRANDFATHER VILLAGE, VILLAGE OF
27340	GRANDIN
27360	GRANDVIEW
27380	GRANDVIEW HEIGHTS
27400	GRANDY
27420	GRANITE FALLS, TOWN OF
27440	GRANITE QUARRY, TOWN OF
27460	GRANTHAM
27480	GRANTHAMS
27520	GRANTSBORO, TOWN OF
27540	GRAPE CREEK
27570	GRAPEWOOD

27580	GRAPHITE
27600	GRASSY CREEK
27620	GRASSY CREEK
27640	GRAVELTON
27660	GRAYS CHAPEL
27670	GRAYS CREEK
27680	GRAYSON
27690	GREAT NECK
27720	GREEN ACRES
27740	GREENBRIER ESTATES
27750	GREEN CREEK
27760	GREENE COVE
27780	GREENEVERS, TOWN OF
27820	GREEN HILL
27830	GREEN HILL
27840	GREENLEAF
27860	GREENLEE
27870	GREEN LEVEL, TOWN OF
27880	GREEN LEVEL
27930	GREEN MOUNTAIN
27935	GREEN POND
28000	GREENSBORO, CITY OF
28020	GREENS CREEK
28030	GREENS FORK
28040	GREEN VALLEY
28080	GREENVILLE, CITY OF
28110	GREESONS CROSSROADS
28120	GREGORY
28145	GREGORY FORKS
28150	GRETNA GREEN
28160	GREYSTONE
28170	GRIFFINS CROSSROADS
28175	GRIFFINS CROSSROADS
28200	GRIFTON, TOWN OF
28220	GRIMESDALE
28240	GRIMESLAND, TOWN OF
28260	GRIMSHAWES
28280	GRISSETTOWN
28300	GRISSOM
28320	GRIST

28340	GROOMETOWN
28360	GROVE HILL
28380	GROVEMONT
28390	GROVE PARK
28400	GROVER, TOWN OF
28420	GROVES
28440	GROVESTONE
28475	GUIDE
28480	GUIDEWAY
28500	GUILFORD
28520	GUILFORD COLLEGE
28600	GULF
28620	GULROCK
28640	GUMBERRY
28660	GUM BRANCH
28670	GUM FORKS
28680	GUM NECK
28690	GUM SPRINGS
28700	GUM TREE
28720	GUNTERTOWN
28740	GUPTON
28760	GUTHRIE
28800	HACKNEY
28820	HADDOCKS CROSSROADS
28870	HAIRTOWN
28890	HALF HELL
28900	HALF MOON
28920	HALIFAX, TOWN OF
28930	HALIFAX CROSSING
29000	HALLSBORO
29020	HALLS FERRY JUNCTION
29030	HALLS FORD
29040	HALLS MILLS
29060	HALLS STORE
29080	HALLSVILLE
29100	HAMER
29120	HAMILTON, TOWN OF
29130	HAMILTON CROSSROADS
29140	HAMILTON LAKES
29160	HAMLET, CITY OF

29170	HAMMOND CROSSROADS
29180	HAMPSTEAD
29200	HAMPTONVILLE
29220	HAMRICK
29230	HAMS CROSSROADS
29260	HANCOCK
29300	HANDY
29320	HANES
29330	HANKINS
29360	HANRAHAN
29390	HAPPY ACRES
29395	HAPPY HOME
29400	HAPPY VALLEY
29420	HARBINGER
29460	HARDEE CROSS ROADS
29470	HARDIN
29480	HARDINS
29500	HARE
29510	HARES CROSSROADS
29520	HARGETTS CROSSROADS
29550	HARGROVE CROSSROADS
29560	HARKERS ISLAND
29600	HARLEY
29620	HARLOWE
29640	HARMONY, TOWN OF
29645	HARMONY GROVE
29650	HARNETT
29655	HARPER
29660	HARPERS CROSSROADS
29670	HARRELL HILL
29680	HARRELLS, TOWN OF
29690	HARRELLS MILL
29720	HARRELLSVILLE, TOWN OF
29750	HARRELSONVILLE CROSSROADS
29760	HARRIS
29780	HARRIS
29800	HARRISBURG, TOWN OF
29820	HARRIS CROSSROADS
29840	HARRIS CROSSROADS
29880	HARRISONS CROSSROADS

29910	HARRISVILLE
29920	HARTLAND
29940	HARTMAN
29950	HARTSBORO
29960	HARTSEASE
29980	HARTS STORE
30000	HARVEYTOWN
30040	HASSELL, TOWN OF
30050	HASTINGS CORNER
30060	HASTY
30070	HATCHER
30100	HATTERAS
30120	HAVELOCK, CITY OF
30130	HAVELOCK STATION
30160	HAW BRANCH
30180	HAW BRANCH
30200	HAW CREEK
30210	HAWFIELDS
30220	HAWK
30225	HAWK BRANCH
30230	HAWKINS LANDING
30240	HAWKSIDE
30250	HAWRA
30260	HAW RIVER, TOWN OF
30265	HAWS RUN
30270	HAYES
30280	HAYESVILLE, TOWN OF
30300	HAYMOUNT
30320	HAYNE
30340	HAYS
30380	HAYWOOD
30410	HAZEL GREEN
30415	HAZELTON
30420	HAZELWOOD
30440	HEALING SPRINGS
30460	HEATHSVILLE
30480	HEATON
30490	HEBRON
30500	HEBRON
30520	HEDRICK GROVE

30525	HEFLIN
30530	HEILMANS MILL
30560	HELENS CROSSROADS
30580	HELTON
30620	HEMBY BRIDGE, TOWN OF
30660	HENDERSON, CITY OF
30720	HENDERSONVILLE, CITY OF
30780	HENRICO
30790	HENRIETTA
30800	HENRIETTA
30810	HENRY
30820	HENRY RIVER
30830	HENRYTOWN
30880	HERRINGS CROSSROADS
30890	HERRINGS CROSSROADS
30900	HERTFORD, TOWN OF
30920	HERTFORD VILLAGE
30940	HESTER
30980	HESTERTOWN
31000	HEWITT
31020	HEXLENA
31040	HICKMANS CROSSROADS
31050	HICKMANS CROSSROADS
31060	HICKORY, CITY OF
31065	HICKORY
31075	HICKORY CROSSROADS
31100	HICKORY CROSSROADS
31130	HICKORY GROVE
31140	HICKORY GROVE
31145	HICKORY GROVE
31150	HICKORY GROVE CROSSROADS
31220	HICKORY ROCK
31230	HICKS CROSSROADS
31240	HICKS CROSSROADS
31250	HICKS VILLAGE
31260	HIDDENITE
31270	HIDETOWN
31280	HIGDONVILLE
31300	HIGGINS
31310	HIGH CROSSROADS

31330	HIGH HAMPTON
31345	HIGHLAND PARK
31350	HIGHLAND PARK WEST
31355	HIGHLAND PINES
31360	HIGHLANDS, TOWN OF
31400	HIGH POINT, CITY OF
31420	HIGH ROCK
31440	HIGH SHOALS, CITY OF
31450	HIGHSMITH
31460	HIGHSMITHS
31480	HIGHTOWERS
31490	HIGHTSVILLE
31500	HILDEBRAN, TOWN OF
31515	HILLCREST
31520	HILL CREST
31540	HILLCREST
31580	HILLGIRT
31600	HILLIARDSTON
31610	HILLS
31620	HILLSBOROUGH, TOWN OF
31630	HILLS CROSSROADS
31640	HILLS CROSSROADS
31660	HILLSDALE
31680	HILLSDALE
31720	HILLTOP
31750	HINES CROSSROADS
31760	HINES JUNCTION
31765	HINNES CROSSROADS
31770	HINSON
31780	HINSON CROSSROADS
31805	HIWASSEE VILLAGE
31820	HOBBSVILLE
31840	HOBBTON
31860	HOBGOOD, TOWN OF
31880	HOBUCKEN
31890	HOCUTTS CROSSROADS
31920	HOFFMAN, TOWN OF
31925	HOFLERS FORK
31930	HOGETOWN
31940	HOG ISLAND

31950	HOKE
31960	HOLDEN BEACH, TOWN OF
31980	HOLDENS CROSSROADS
32020	HOLLAND
32025	HOLLANDS
32030	HOLLANDS CROSSROADS
32040	HOLLEMANS CROSSROADS
32080	HOLLIS
32100	HOLLISTER
32140	HOLLY GROVE
32160	HOLLY GROVE
32170	HOLLY HILL
32180	HOLLY RIDGE, TOWN OF
32200	HOLLY SPRINGS
32230	HOLLY SPRINGS
32260	HOLLY SPRINGS, TOWN OF
32270	HOLLY VIEW FOREST-HIGHLAND PARK
32280	HOLLYVILLE
32300	HOME ACRES
32340	HOMESTEAD
32380	HOMINY
32420	HONEY HILL
32450	HONEY POND
32460	HONEY TOWN
32480	HONOLULU
32490	HOODS
32520	HOOD SWAMP
32530	HOOKER
32540	HOOKERTON, TOWN OF
32560	HOOPER HILL
32580	HOOPERS CREEK
32600	HOOTENTOWN
32610	HOOTSTOWN
32620	HOPEDALE
32640	HOPE MILLS, TOWN OF
32670	HOPEWELL
32680	HOPEWELL
32700	HOPEWELL
32720	HOPKINS
32723	HORACE

32726	HORNER
32730	HORNEYTOWN
32733	HORSE NECK
32736	HORSESHOE
32740	HORSE SHOE
32820	HOTHOUSE
32840	HOT SPRINGS, TOWN OF
32860	HOUSE
32880	HOUSTON
32900	HOUSTONVILLE
32930	HOWELLSVILLE
32940	HUBERT
32970	HUCKLEBERRY SPRING
32980	HUDSON, TOWN OF
33000	HUFFMANTOWN
33020	HUGHES
33040	HUGO
33060	HULLS CROSSROADS
33080	HUNTDALE
33120	HUNTERSVILLE, TOWN OF
33145	HUNTLEY
33155	HUNTS
33160	HUNTSBORO
33180	HUNTSVILLE
33200	HURDLE MILLS
33210	HURRICANE
33230	HUTSON CORNER
33240	HYATT CREEK
33290	HYDELAND
33310	HYMANS
33320	ICARD
33340	ICARIA
33385	IDALIA
33390	IDA MILL
33400	IDLEWILD
33420	IDLEWILD
33430	IJAMES CROSSROADS
33460	INDIAN BEACH, TOWN OF
33470	INDIAN CAVE PARK
33500	INDIAN HILLS

33520	INDIAN SPRINGS
33540	INDIANTOWN
33560	INDIAN TRAIL, TOWN OF
33580	INEZ
33600	INGALLS
33620	INGLESIDE
33640	INGOLD
33670	INGRAM
33680	INSTITUTE
33710	INVERNESS
33720	IOTLA
33740	IREDELL
33780	IRON DUFF
33800	IRONHILL
33820	IRON STATION
33840	IRVING PARK
33860	IRVINGS CROSSROADS
33880	ISENHOUR
33885	ISENHOUR PARK
33890	ISLAND FORD
33900	ITA
33940	IVANHOE
33950	IVEY CROSSROADS
33960	IVY
33970	IVY HILLS
33980	IVY RIDGE
33993	JAARS
34000	JACKSON, TOWN OF
34025	JACKSON CREEK
34036	JACKSON HAMLET
34040	JACKSON HILL
34060	JACKSON LINE
34080	JACKSON PARK
34160	JACKSON SPRINGS
34190	JACKSONTOWN
34200	JACKSONVILLE, CITY OF
34220	JACKTOWN
34230	JACOCKS
34240	JAKESVILLE
34260	JAMES CITY

34300	JAMESTOWN, TOWN OF
34320	JAMESVILLE, TOWN OF
34340	JANEIRO
34365	JARMANTOWN
34370	JARRETT COVE
34380	JARVISBURG
34400	JASON
34420	JASPER
34440	JEFFERSON, TOWN OF
34460	JEFFERSON PARK
34470	JENKINS HEIGHTS
34473	JENKINS MEADOW
34476	JENNINGS
34480	JENNY LIND
34500	JERICHO
34520	JEROME
34530	JERRY
34540	JERUSALEM
34545	JESSUP MILL
34550	JETER MOUNTAIN TERRACE
34555	JINNYS BRANCH
34580	JOHNS
34590	JOHNSON CROSSROADS
34600	JOHNSONS CORNER
34605	JOHNSONS MILL
34610	JOHNSONS MILLS
34620	JOHNSONTOWN
34630	HOLMESVILLE
34640	JOHNSONTOWN
34660	JOHNSONVILLE
34680	JOHNSONVILLE
34700	JOHNSTOWN
34710	JOHNSTOWN
34720	JONAS RIDGE
34740	JONATHAN
34750	JONES
34780	JONESBORO CROSSING
34800	JONESBORO HEIGHTS
34805	JONES MILL
34815	JONESTOWN

34820	JONESTOWN
34840	JONESVILLE, TOWN OF
34850	JOPLOR
34860	JOPPA
34880	JORDAN
34910	JOYCE MILL
34920	JOYCETON
34940	JOYLAND
34955	JOYNERS CROSSING
34980	JOYNES
35000	JUBILEE
35010	JUDSON
35020	JUGTOWN
35040	JUGTOWN
35060	JULIAN
35085	JUNIPER
35090	JUNKER
35100	JUNO
35120	JUPITER
35150	JUST CROSSROADS
35160	JUSTICE
35180	KALMIA
35200	KANNAPOLIS, CITY OF
35220	KANUGA PINES
35280	KATESVILLE
35290	KAWANA
35320	KEARNEY
35335	KEENE
35340	KEENER
35360	KELFORD, TOWN OF
35380	KELLERVILLE
35390	KELLOGS FORK
35400	KELLUM
35440	KELLY
35450	KELLYS CROSSROADS
35460	KENANSVILLE, TOWN OF
35480	KENDALL CHAPEL
35520	KENILWORTH
35540	KENLY, TOWN OF
35560	KENNEBEC

35580	KENNEL BEACH
35600	KERNERSVILLE, TOWN OF
35620	KERR
35630	KERSHAW
35640	KEYS CROSSROADS
35660	KIKERS
35690	KILKENNY
35720	KILL DEVIL HILLS, TOWN OF
35730	KILLIAN CROSSROADS
35740	KIMESVILLE
35750	KINDY FOREST
35760	KING, CITY OF
35790	KINGDALE
35840	KINGS CREEK
35850	KINGS CROSSROADS
35860	KINGS CROSSROADS
35870	KINGS GRANT
35875	KINGS LANDING
35880	KINGS MOUNTAIN, CITY OF
35890	KINGSTOWN, TOWN OF
35920	KINSTON, CITY OF
35940	KINTON FORK
35960	KIPLING
35970	KIRBYS CROSSING
35975	KIRKLAND
35980	KIRKMAN CROSSROAD
36000	KIRKWOOD
36020	KITTRELL, TOWN OF
36040	KITTY FORK
36060	KITTY HAWK, TOWN OF
36070	KITTY HAWK BEACH
36080	KNIGHTDALE, TOWN OF
36090	KNOB CREEK
36100	KNOB HILL
36120	KNOLLWOOD
36135	KNOTTS CROSSROADS
36140	KNOTTS ISLAND
36160	KONA
36170	KOONTZVILLE
36190	KORNEGAY

36200	KROSS KEYS
36210	KUHNS
36215	KUNGSBORO
36220	KURE BEACH, TOWN OF
36240	KYLE
36250	KYLES CROSSROADS
36260	LABORATORY
36280	LACKEY HILL
36290	LACKEY STORE
36300	LACKEY TOWN
36320	LADONIA
36380	LAGOON
36400	LA GRANGE, TOWN OF
36440	LAKEDALE
36460	LAKE DANIEL
36480	LAKE JUNALUSKA
36490	LAKE LANDING
36500	LAKE LURE, TOWN OF
36508	LAKE NEIGHBORHOOD
36510	LAKE NORMAN
36512	LAKE PARK, VILLAGE OF
36514	LAKE SANTEETLAH, TOWN OF
36515	LAKESIDE VILLAGE
36520	LAKE TOXAWAY
36530	LAKEVIEW
36540	LAKEVIEW
36560	LAKEVIEW
36580	LAKEVIEW ESTATES
36640	LAKE WACCAMAW, TOWN OF
36690	LAKEWOOD
36700	LAKEWOOD
36720	LAKE WORTH
36740	LAMBERT
36800	LAMM
36810	LAMM CROSSROADS
36820	LAMMS CROSSROADS
36830	LANCASTER
36840	LANCASTER CROSSROADS
36860	LANDIS, TOWN OF
36890	LANE

36910	LANGLEY CROSSROADS
36930	LANGSTON
36960	LANSING, TOWN OF
36980	LANVALE
37000	LASKER, TOWN OF
37010	LASSITER
37011	LASSITER CROSSROADS
37013	LAST CHANCE
37015	LATHAM
37017	LATHAM PARK
37020	LATHAM TOWN
37040	LATTIMORE, TOWN OF
37060	LAUADA
37110	LAUREL HILL
37120	LAUREL HILL
37160	LAUREL PARK, TOWN OF
37170	LAUREL PARK
37180	LAUREL ROCK ACRES
37200	LAUREL SPRINGS
37220	LAURINBURG, CITY OF
37260	LAWNDALE, TOWN OF
37320	LAWRENCE
37325	LAWS
37335	LAWSONS MILL
37340	LAWSONVILLE
37360	LAWSONVILLE
37380	LAXON
37420	LEAKSVILLE
37450	LEANDER
37480	LEASBURG
37500	LEATHERMAN
37520	LEDBETTER
37540	LEDGER
37580	LEECHVILLE
37610	LEES MILL
37620	LEESVILLE
37630	LEGERWOOD
37640	LEGGETT, TOWN OF
37645	LEGGETT CROSSROADS
37650	LEGGETTS CROSSROADS

37660	LEICESTER
37680	LELAND, TOWN OF
37700	LEMON SPRINGS
37710	LENA
37720	LENNON CROSSROADS
37730	LENNONS CROSSROADS
37760	LENOIR, CITY OF
37790	LENOXVILLE
37800	LEON
37860	LETITIA
37880	LEVEL CROSS
37900	LEVEL CROSS
37960	LEWIS
37980	LEWISBURG
37985	LEWIS CROSSROADS
37990	LEWIS POINT
38030	LEWISTON WOODVILLE, TOWN OF
38040	LEWISVILLE, TOWN OF
38050	LEWTERS CROSSROAD
38060	LEXINGTON, CITY OF
38080	LIBERIA
38090	LIBERTY
38100	LIBERTY, TOWN OF
38120	LIBERTY
38140	LIBERTY HILL
38145	LICKSKILLET
38150	LICKSKILLET
38160	LIDDELL
38170	LIGHT OAK
38180	LILEDOUN
38200	LILESVILLE, TOWN OF
38220	LILLINGTON, TOWN OF
38240	LILLY
38260	LIMA
38270	LINBERRY
38275	LINCOLN HEIGHTS
38280	LINCOLN PARK
38300	LINCOLN PARK
38320	LINCOLNTON, CITY OF
38340	LINDELL

38360	LINDEN, TOWN OF
38380	LINDLEY PARK
38420	LINVILLE
38440	LINVILLE FALLS
38460	LINWOOD
38480	LISBON
38490	LISTENING ROCK
38500	LITTLE CREEK
38510	LITTLE EASONBURG
38520	LITTLEFIELD
38545	LITTLE KELLY
38550	LITTLE KINNAKEET
38585	LITTLE PORT
38590	LITTLE PRONG
38595	LITTLE RICHMOND
38620	LITTLE RIVER
38640	LITTLE RIVER
38645	LITTLES MILL
38650	LITTLES QUARTERS
38660	LITTLE SWITZERLAND
38680	LITTLETON, TOWN OF
38720	LIVINGSTONS QUARTERS
38730	LIZARD LICK
38740	LIZZIE
38780	LLOYD CROSSROADS
38800	LOAFERS GLORY
38820	LOBELIA
38860	LOCUST, CITY OF
38900	LOCUST HILL
38920	LOFTINS CROSSROADS
38940	LOGAN
38960	LOLA
38980	LOMAX
39000	LONE HICKORY
39040	LONG BEACH, TOWN OF
39060	LONG CREEK
39100	LONGHURST
39120	LONG ISLAND
39150	LONG PINE
39160	LONG RIDGE

39180	LONG SHOALS
39200	LONGS STORE
39220	LONGTOWN
39240	LONGTOWN
39260	LONG VIEW
39280	LONG VIEW, TOWN OF
39300	LONGWOOD
39340	LORAY
39350	LOST COVE
39360	LOUISBURG, TOWN OF
39380	LOVE FIELD
39400	LOVEJOY
39420	LOVE VALLEY, TOWN OF
39430	LOVILL
39460	LOWE
39480	LOWELL, CITY OF
39490	LOWELL MILL
39500	LOWES GROVE
39520	LOWESVILLE
39540	LOWGAP
39550	LOW GAP
39560	LOWLAND
39570	LOWRYS
39590	LUART
39600	LUCAMA, TOWN OF
39620	LUCIA
39660	LUCK
39670	LUKENS
39680	LUMBER BRIDGE, TOWN OF
39690	LUMBER MILL
39700	LUMBERTON, CITY OF
39705	LUMPTOWN
39710	LUNDAY
39720	LUTHER
39760	LYMAN
39770	LYNCH BEACH
39780	LYNCHS CORNER
39800	LYNN
39810	LYNN CROSSROADS
39820	LYONS

39840	MABEL
39880	MCADENVILLE, TOWN OF
39900	MCADOO HEIGHTS
39920	MCARTHUR CROSSROADS
39960	MACCLESFIELD, TOWN OF
39970	MCCLURE MILL
39980	MCCONNELL
40000	MCCONNELL
40020	MCCRAY
40040	MCCULLEN
40045	MCCULLERS
40060	MCCULLERS CROSSROADS
40100	MCDADE
40120	MCDANIELS
40140	MCDONALD, TOWN OF
40150	MCDONALD MILL
40190	MACEDONIA
40200	MACEDONIA
40220	MACEDONIA
40240	MCFARLAN, TOWN OF
40245	MCFARLAND
40250	MCGEE CROSSROADS
40255	MCGEE MILL
40260	MCGEHEES MILL
40280	MCGINNIS CROSSROADS
40300	MCGRADY
40310	MCGUIRES
40340	MACHPELAH
40380	MACKEYS
40390	MCKINNEY COVE
40395	MCKOY
40400	MACKS VILLAGE
40420	MCLAMB CROSSROADS
40460	MCLEANSVILLE
40480	MCMILLAN
40520	MACO
40540	MACON, TOWN OF
40560	MADISON, TOWN OF
40600	MAGGIE VALLEY, TOWN OF
40620	MAGNOLIA

40640	MAGNOLIA, TOWN OF
40660	MAIDEN, TOWN OF
40680	MAINE
40740	MAKATOKA
40760	MAKLEYVILLE
40780	MALMO
40790	MALONEE MILL
40800	MALPASS CORNER
40820	MALTBY
40860	MAMERS
40880	MAMIE
40900	MANCHESTER
40920	MANDALE
40940	MANGUM
40960	MANLY
40980	MANNS HARBOR
41000	MANSFIELD
41040	MANSON
41060	MANTEO, TOWN OF
41080	MAPLE
41100	MAPLECYPRESS
41110	MAPLE GROVE
41120	MAPLE HILL
41130	MAPLE SPRINGS
41140	MAPLE SPRINGS
41160	MAPLETON
41180	MAPLEVILLE
41200	MAPLEWOOD
41220	MARBLE
41260	MAREADY
41270	MARGARET
41320	MARGARETTSVILLE
41360	MARIBEL
41380	MARIETTA, TOWN OF
41410	MARINES
41420	MARION, CITY OF
41460	MARIPOSA
41490	MARK PINE
41500	MARLBORO
41520	MARLER

41530	MARLWOOD ACRE
41540	MAR-MAC
41560	MARMADUKE
41580	MARSHALL, TOWN OF
41600	MARSHALLBERG
41620	MARS HILL, TOWN OF
41640	MARSHVILLE, TOWN OF
41660	MARSTON
41690	MARTHA
41700	MARTINS CREEK
41720	MARVIN, VILLAGE OF
41725	MARYS GROVE
41730	MASHOES
41740	MASONBORO
41760	MASONS CROSSROADS
41800	MASONTOWN
41910	MATKINS
41920	MATNEY
41960	MATTHEWS, TOWN OF
41970	MATTHEWS CROSSROADS
42000	MAURY
42010	MAVATON
42020	MAXTON, TOWN OF
42030	MAYFIELD
42040	MAYHEW
42060	MAYODAN, TOWN OF
42080	MAYOS CROSSROADS
42090	MAYS CROSSROADS
42100	MAYSVILLE, TOWN OF
42120	MAYVIEW PARK
42140	MAZEPPA
42170	MEADOW BROOK VILLAGE
42190	MEADOWS
42200	MEADOW SUMMIT
42210	MEADOWVIEW
42220	MEAT CAMP
42240	MEBANE, CITY OF
42260	MECHANIC
42264	MEDFIELD
42276	MELANCHTON

42280	MELBORNE HEIGHTS
42300	MELROSE
42310	MELVILLE
42340	MENOLA
42360	MERCER
42400	MERRIMON
42420	MERRITT
42440	MERRY HILL
42460	MERRY OAKS
42480	MESIC, TOWN OF
42500	METCALF
42520	METHOD
42560	MEWBORNS CROSSROADS
42580	MICAVILLE
42610	MICHFIELD
42620	MICRO, TOWN OF
42640	MIDDLEBURG, TOWN OF
42680	MIDDLE FORK
42690	MIDDLE RIVER
42700	MIDDLESEX, TOWN OF
42730	MIDDLETON HEIGHTS
42740	MIDDLETOWN
42760	MIDLAND, TOWN OF
42770	MIDPINE
42784	MIDTOWN
42788	MIDWAY
42792	MIDWAY
42796	MIDWAY
42800	MIDWAY
42820	MIDWAY
42860	MIDWAY, TOWN OF
42880	MIDWAY
42900	MIDWAY
42920	MIDWAY PARK
42950	MILBURNIE
42960	MILDRED
42980	MILES
42985	MILES CROSSROAD
43000	MILLBORO
43010	MILL BRANCH

43020	MILL BRIDGE
43040	MILLBROOK
43060	MILL CREEK
43080	MILL CREEK
43100	MILL CREEK
43105	MILL CROSSROADS
43115	MILLENNIUM
43160	MILLERS CREEK
43180	MILLERSVILLE
43190	MILLESVILLE
43200	MILLINGPORT
43210	MILL NECK
43240	MILL SPRING
43250	MILLS RIDGE
43260	MILLS RIVER, TOWN OF
43280	MILLTOWN
43300	MILTON, TOWN OF
43320	MILWAUKEE
43330	MIMOSA SHORES
43350	MINERAL SPRINGS
43360	MINERAL SPRINGS, TOWN OF
43400	MINGO
43420	MINNEAPOLIS
43440	MINNESOTT BEACH, TOWN OF
43460	MINPRO
43480	MINT HILL, TOWN OF
43520	MINTONSVILLE
43540	MINTZ
43580	MISENHEIMER, VILLAGE OF
43620	MISSION
43670	MITCHELLS FORK
43700	MITCHINERS CROSSROADS
43720	MOCKSVILLE, TOWN OF
43740	MOFFITT HILL
43800	MOLLIE
43820	MOLTONVILLE
43860	MOMEYER, TOWN OF
43870	MONBO
43880	MONCURE
43890	MONEY ISLAND BEACH

43900	MONKS CROSSROADS
43910	MONOGRAM
43920	MONROE, CITY OF
43950	MONROETON
43960	MONROETOWN
44000	MONTAGUE
44030	MONTEREY PARK
44040	MONTEZUMA
44060	MONTFORD HILLS
44080	MONTICELLO
44100	MONTREAT, TOWN OF
44120	MONTROSE
44140	MONTVIEW
44150	MOORES BEACH
44160	MOORESBORO, TOWN OF
44165	MOORES CHAPEL
44167	MOORES CORNER
44173	MOORES CROSSROADS
44177	MOORES CROSSROADS
44200	MOORES SPRINGS
44220	MOORESVILLE, TOWN OF
44250	MOORETOWN
44280	MORAVIAN FALLS
44320	MOREHEAD CITY, TOWN OF
44350	MORGAN FORD
44360	MORGANS CORNERS
44400	MORGANTON, CITY OF
44420	MORGANTOWN
44440	MORIAH
44470	MORNING STAR
44520	MORRISVILLE, TOWN OF
44540	MORTIMER
44550	MORTON FORK
44560	MORVEN, TOWN OF
44600	MOSS HILL
44610	MOSS NECK
44620	MOTHER VINEYARD
44640	MOTLETA
44670	MOULTON
44690	MOUNTAIN GROVE

44700	MOUNTAIN HOME
44720	MOUNTAIN ISLAND
44730	MOUNTAIN LAKE CAMP
44735	MOUNTAIN PAGE
44740	MOUNTAIN PARK
44750	MOUNTAIN VALLEY
44760	MOUNTAIN VIEW
44770	MOUNTAIN VIEW
44775	MOUNTAIN VIEW
44780	MOUNTAIN VIEW
44790	MOUNTAIN VIEW
44800	MOUNT AIRY, CITY OF
44840	MOUNT ENERGY
44850	MOUNT GALLOWS
44860	MOUNT GILEAD
44900	MOUNT GILEAD, TOWN OF
44920	MOUNT GOULD
44940	MOUNT HERMAN
44960	MOUNT HOLLY, CITY OF
44970	MOUNT MITCHELL
44975	MOUNT MITCHELL
44980	MOUNT MOURNE
45000	MOUNT OLIVE
45040	MOUNT OLIVE
45050	MOUNT OLIVE
45060	MOUNT OLIVE
45080	MOUNT OLIVE
45100	MOUNT OLIVE, TOWN OF
45110	MOUNT PILGRIM
45120	MOUNT PLEASANT
45140	MOUNT PLEASANT, TOWN OF
45165	MOUNT PLEASANT
45180	MOUNT PLEASANT
45200	MOUNT PLEASANT
45228	MOUNT PLEASANT
45236	MOUNT PLEASANT
45240	MOUNT PLEASANT
45250	MOUNT ROSE
45260	MOUNT STERLING
45280	MOUNT TABOR

45300	MOUNT TABOR
45310	MOUNT TIRZAH
45320	MOUNT ULLA
45330	MOUNT VALLEY
45340	MOUNT VERNON
45360	MOUNT VERNON
45380	MOUNT VERNON SPRINGS
45420	MOUNT ZION
45430	MOUNT ZION
45440	MOXLEY
45460	MOYOCK
45480	MUD CASTLE
45520	MUDDY CREEK
45540	MUDDY CROSS
45550	MULBERRY
45560	MULBERRY
45565	MULLINS CROSSROADS
45570	MUNDO VISTA
45600	MURCHISON
45610	MURCHISONTOWN
45620	MURDOCKSVILLE
45640	MURFREESBORO, TOWN OF
45650	MURPHEY
45660	MURPHY, TOWN OF
45680	MURPHY JUNCTION
45690	MURPHYTOWN
45710	MURRAYS HILL
45720	MURRAYSVILLE
45730	MURRAYTOWN
45740	MURRAY TOWN
45840	MYRTLE GROVE
45845	MYRTLE GROVE JUNCTION
45855	MYRTLE HEAD
45880	NAGS HEAD, TOWN OF
45900	NAHUNTA
45920	NAKINA
45940	NANTAHALA
45980	NAPLES
45990	NARROW RIDGE
46000	NASHVILLE, TOWN OF

46020	NATHANS CREEK
46060	NAVASSA, TOWN OF
46100	NEBO
46120	NEBO
46140	NEBRASKA
46150	NEEDMORE
46155	NEEDMORE
46160	NEEDMORE
46180	NEEDMORE
46210	NELLIE
46215	NELMS
46220	NELSON
46240	NEUSE
46260	NEUSE CROSSROADS
46280	NEUSE FOREST
46310	NEW BELDEN
46340	NEW BERN, CITY OF
46440	NEW BRITTON
46450	NEW CANDLER
46460	NEWDALE
46480	NEWELL
46500	NEWFOUND
46510	NEWFOUNDLAND
46515	NEW GILEAD
46535	NEW HAVEN
46540	NEW HILL
46560	NEW HOLLAND
46590	NEW HOPE
46600	NEW HOPE
46605	NEW HOPE
46610	NEW HOPE
46615	NEW HOPE
46620	NEW HOPE
46625	NEW HOPE
46640	NEW HOPE
46650	NEW HOPE
46660	NEW HOPE
46690	NEWHOPE PROPER
46700	NEW HOUSE
46740	NEWLAND, TOWN OF

46760	NEW LANDS
46790	NEW LIFE
46810	NEW LIGHT
46820	NEW LONDON, TOWN OF
46840	NEW MARKET
46860	NEWPORT, TOWN OF
46870	NEW PROVIDENCE
46960	NEW SALEM
46980	NEWSOM
47000	NEWTON, CITY OF
47020	NEWTON GROVE, TOWN OF
47040	NEWTONS CROSSROADS
47080	NEW TOWN
47090	NEW TOWN
47100	NIAGARA
47120	NICANOR
47130	NIMS
47140	NIXONTON
47160	NOBLES CROSSROADS
47170	NOBLES MILL
47200	NOCHO PARK
47220	NORFLEET
47240	NORLINA, TOWN OF
47260	NORMAN, TOWN OF
47280	NORMANVILLE
47300	NORRINGTON CROSSROADS
47380	NORTH ASHEBORO
47400	NORTH BELMONT
47420	NORTH BREVARD
47500	NORTH CONCORD
47510	NORTH COOLEEMEE
47520	NORTH COVE
47530	NORTH COVE CROSSING
47580	NORTH ELKIN
47590	NORTH FORK
47640	NORTH HARLOWE
47660	NORTH HENDERSON
47670	NORTH HICKORY
47685	NORTH HYDE PARK
47690	NORTH KANNAPOLIS

47695	NORTHLAKES
47750	NORTH RIVER
47820	NORTH SIDE
47845	NORTH TOPSAIL BEACH, TOWN OF
47850	NORTHVIEW
47855	NORTH VIEW
47860	NORTHWEST, CITY OF
47880	NORTH WILKESBORO, TOWN OF
47900	NORTH WINSTON
47940	NORTON
47960	NORTON
47970	NORWOOD
47980	NORWOOD, TOWN OF
47990	NORWOOD BEACH
48000	NORWOOD HOLLOW
48040	OAKBORO, TOWN OF
48060	OAK CITY, TOWN OF
48080	OAK CREST
48100	OAKDALE
48160	OAKDALE
48170	OAK DALE CROSSROADS
48180	OAK FOREST
48185	OAK FOREST
48190	OAK GROVE
48195	OAK GROVE
48200	OAKGROVE
48220	OAK GROVE
48240	OAK GROVE
48250	OAK GROVE
48260	OAK GROVE
48285	OAK GROVE
48290	OAK GROVE INN
48300	OAK HILL
48320	OAK HILL
48323	OAK HILL
48326	OAK HILL
48330	OAK HILL
48333	OAK HILL
48336	OAK HILL COURT
48345	OAK ISLAND, TOWN OF

48350	OAKLAND
48355	OAKLAND
48380	OAKLAND
48400	OAKLEY
48420	OAKLEY
48440	OAK PARK
48460	OAK PARK
48480	OAK RIDGE, TOWN OF
48500	OAK RIDGE
48520	OAK RIDGE PARK
48545	OAKS
48555	OAKTON
48560	OAKVIEW
48570	OAK VILLA
48580	OAKVILLE
48620	OAKWOOD
48660	OAKWOODS
48670	OBIDS
48690	OCEAN
48700	OCEAN ISLE BEACH, TOWN OF
48710	OCONALUFTEE INDIAN VILLAGE
48740	OCRACOKE
48743	ODELL
48746	ODEN MILL
48750	OGBURN CROSSROADS
48753	OGBURNS CROSSROADS
48756	OGBURN STATION
48790	OGDEN
48800	OGREETA
48820	OINE
48840	OKEEWEMEE
48845	OKISKO
48855	OLA
48860	OLD BETHLEHEM
48870	OLD CHAPEL CROSSROADS
48880	OLD DOCK
48905	OLDE PROVIDENCE
48915	OLD FORD
48920	OLD FORT, TOWN OF
48930	OLD GILREATH

48940	OLD HUNDRED
48970	OLDS
48975	OLD SNEEDSBORO
48980	OLD SPARTA
48990	OLD TOWN
49000	OLDTOWN
49020	OLD TRAP
49060	OLIN
49080	OLIVE BRANCH
49120	OLIVE GROVE
49130	OLIVE HILL
49140	OLIVE HILL
49150	OLIVER
49155	OLIVERS
49160	OLIVERS CROSSROADS
49170	OLIVET
49180	OLIVETTE
49200	OLIVIA
49220	OLYMPIA
49240	OLYPHIC
49260	ONVIL
49280	OPHIR
49290	ORA
49310	ORANGE
49320	ORANGE FACTORY
49340	ORANGE GROVE
49360	OREGON HILL
49370	ORE KNOB
49380	ORIENTAL, TOWN OF
49400	ORION
49420	ORLANDO
49440	ORMONDSVILLE
49460	ORRUM, TOWN OF
49500	OSBORNE
49510	OSBORNE KNOB
49520	OSBORNVILLE
49540	OSCEOLA
49560	OSGOOD
49580	OSMOND
49600	OSSIPEE, TOWN OF

49620	OSTWALT
49630	OSWEGO
49640	OTEEN
49645	OTHELLO
49650	OTTANOLA
49660	OTTO
49680	OTWAY
49700	OUTLAWS BRIDGE
49710	OVAL
49720	OVERHILLS
49740	OVERLOOK
49750	OVERSHOT
49760	OWENS
49790	OWLTOWN
49800	OXFORD, CITY OF
49810	OXFORD PARK
49840	PACTOLUS
49860	PADGETT
49880	PAINT FORK
49900	PAINT FORK
49920	PAINT GAP
49940	PAINT ROCK
49945	PAINT TOWN
49955	PALA ALTO
49960	PALESTINE
49980	PALMERVILLE
50000	PALMYRA
50040	PAMLICO
50060	PAMLICO BEACH
50080	PANTEGO, TOWN OF
50100	PANTHER CREEK
50120	PARKER
50160	PARKERSBURG
50180	PARKERS FORK
50200	PARKHILL
50220	PARKLAND
50260	PARKS CROSSROADS
50270	PARK SPRING
50300	PARKSTOWN
50320	PARK TERRACE

50340	PARKTON, TOWN OF
50360	PARKTOWN
50400	PARKVILLE
50420	PARKWAY FOREST
50500	PARKWOOD
50540	PARMELE, TOWN OF
50545	PARRISH GAP
50550	PARROTT FORK
50560	PARSONVILLE
50580	PASCHALL
50585	PASLEY
50590	PASQUOTANK
50620	PATES
50640	PATETOWN
50660	PATTEN
50680	PATTERSON
50700	PATTERSON SPRINGS, TOWN OF
50715	PATTONS RIDGE
50730	PAULS CROSSING
50740	PAW CREEK
50780	PAYNES TAVERN
50810	PEACH
50820	PEACHLAND, TOWN OF
50840	PEACHTREE
50850	PEACOCK CROSSROADS
50860	PEACOCKS CROSSROADS
50870	PEA HILL
50890	PEARCES
50900	PEA RIDGE
50930	PEA RIDGE
50960	PEDEN
50980	PEE DEE
51000	PEE DEE
51020	PEKIN
51040	PELETIER, TOWN OF
51060	PELHAM
51080	PEMBROKE, TOWN OF
51100	PENDER
51140	PENDERLEA
51150	PENDERS CROSSROADS

51160	PENDLETON
51165	PENELO
51170	PENELOPE
51175	PENIEL
51180	PENLAND
51220	PENNY HILL
51240	PENROSE
51260	PENSACOLA
51280	PEORIA
51300	PEPPERS
51355	PERKINSVILLE
51360	PERKINSVILLE
51400	PERRYTOWN
51440	PERU
51445	PETCHE GAP
51450	PET CROSSROADS
51460	PETERSBURG
51480	PETERSBURG
51500	PETERSBURG
51510	PETERSBURG CROSSING
51515	PETERSON
51520	PETERSVILLE
51525	PETRA MILLS
51530	PETTYS SHORE
51540	PFAFFTOWN
51552	PHARRS MILL
51555	PHIL
51557	PHILADELPHIA
51560	PHILADELPHUS
51575	PHILLIPS CROSSROADS
51580	PHILLIPS CROSSROADS
51620	PHOENIX
51680	PIEDMONT HEIGHTS
51690	PIERCES CROSSROADS
51700	PIERCEVILLE
51720	PIGEONROOST
51740	PIKE CROSSROADS
51760	PIKE ROAD
51780	PIKEVILLE, TOWN OF
51790	PILANDS CROSSROADS

51795	PILOT
51800	PILOT
51820	PILOT MOUNTAIN, TOWN OF
51840	PINEBLUFF, TOWN OF
51870	PINE CREST
51880	PINECROFT
51890	PINE GROVE
51900	PINE HALL
51910	PINE HARBOR
51925	PINE HILL
51930	PINE HILL
51935	PINEHURST
51940	PINEHURST, VILLAGE OF
51960	PINE HURST PARK
51980	PINE KNOLL
52000	PINE KNOLL SHORES, TOWN OF
52010	PINE LEVEL
52020	PINE LEVEL, TOWN OF
52040	PINELOG
52045	PINE LOG
52050	PINE LOG VILLAGE
52060	PINEOLA
52080	PINE RIDGE
52090	PINE RIDGE
52100	PINE RIDGE
52120	PEA RIDGE
52140	PINETOPS, TOWN OF
52160	PINETOWN
52170	PINE TREE
52200	PINEVIEW
52220	PINEVILLE, TOWN OF
52230	PINEY
52240	PINEY CREEK
52250	PINEY FOREST CROSSROADS
52260	PINEY GREEN
52280	PINEY GREEN
52295	PINEYGROVE
52300	PINEY GROVE
52324	PINEY GROVE
52328	PINEY GROVE

52332	PINEY GROVE
52336	PINEY PLAINS
52340	PINEY RIDGE
52360	PINEY WOOD
52380	PIN HOOK
52400	PINK HILL, TOWN OF
52440	PINKNEY
52480	PINKSTON
52500	PINNACLE
52525	PINSON
52530	PIONEER MILLS
52540	PIREWAY
52560	PISGAH
52580	PISGAH FOREST
52590	PISGAH SHADOWS
52660	PITTSBORO, TOWN OF
52670	PLAIN VIEW
52685	PLAIN VIEW
52690	PLANTATION ACRES
52700	PLATEAU
52750	PLEAR
52760	PLEASANT GARDEN, TOWN OF
52780	PLEASANT GARDENS
52790	PLEASANT GROVE
52795	PLEASANT GROVE
52800	PLEASANT GROVE
52820	PLEASANT GROVE
52830	PLEASANT GROVE
52840	PLEASANT GROVE
52860	PLEASANT GROVE
52870	PLEASANT HILL
52875	PLEASANT HILL
52880	PLEASANT HILL
52900	PLEASANT HILL
52920	PLEASANT HILL
52940	PLEASANT PLAINS
52945	PLEASANT RIDGE
52950	PLEASANT VALLEY
52960	PLEASANT VIEW
52970	PLEASANTVILLE

52980	PLEASANTVILLE
53000	PLUMTREE
53020	PLYER
53040	PLYMOUTH, TOWN OF
53060	POCOMOKE
53080	POINT CASWELL
53100	POINT HARBOR
53120	POLE CREEK
53140	POLKTON, TOWN OF
53160	POLKVILLE, CITY OF
53180	POLLOCKS
53200	POLLOCKSVILLE, TOWN OF
53220	POMONA
53260	PONZER
53300	POOLETOWN
53340	POOR TOWN
53380	POPLAR
53400	POPLAR BRANCH
53410	POPLAR GROVE
53420	POPLAR GROVE
53430	POPLAR GROVE
53440	POPLAR SPRINGS
53450	POPLAR TENT
53460	PORTER
53470	PORTER JUNCTION
53500	PORTSMOUTH
53520	POSSUMTROT
53540	POSTELL
53560	POTECASI
53570	POTTERS CURVE
53580	POTTERS HILL
53590	POTTERTOWN
53620	POWELL CROSSROADS
53630	POWELLS CROSSING
53640	POWELLS POINT
53680	POWELLSVILLE, TOWN OF
53690	POWELLTOWN
53700	POWERS
53720	POWHATAN
53740	PRENTISS

53750	PRESCOTT
53760	PRESTONVILLE
53780	PRICE
53800	PRICE CREEK
53810	PRICETOWN
53820	PRINCETON, TOWN OF
53840	PRINCEVILLE, TOWN OF
53880	PROCTOR
53900	PROCTORVILLE, TOWN OF
53910	PROGRESS
53920	PROPST CROSSROADS
53940	PROSPECT
53950	PROSPECT
53960	PROSPECT HILL
53980	PROSPER
54020	PROVIDENCE
54040	PROVIDENCE
54060	PROVIDENCE
54080	PROVIDENCE
54085	PROVIDENCE MILL
54100	PROXIMITY
54120	PUMPKIN CENTER
54140	PUMPKIN CENTER
54160	PUMPKIN CENTER
54180	PUMPKINTOWN
54200	PUNGO
54240	PURLEAR
54260	PURLEY
54280	PURNELL
54300	PURVIS
54340	PUTNAM
54360	PYATTE
54370	QUAIL RIDGE
54375	QUAIL ROOST
54380	QUAKER GAP
54390	QUALLA
54420	QUEBEC
54460	QUICK
54480	QUINERLY
54490	QUINLAND

54500	QUINNS STORE
54520	QUITSNA
54530	RABONTOWN
54545	RADFORD CROSSROADS
54580	RAEFORD, CITY OF
54600	RAEMON
54810	RAINBOW SPRINGS
54830	RAINS CROSSROADS
55000	RALEIGH, CITY OF
55020	RAMA
55040	RAMSEUR, TOWN OF
55050	RAMSEY
55060	RAMSEYTOWN
55080	RANDLEMAN, CITY OF
55200	RANGEWOOD
55220	RANKIN
55260	RANLO, TOWN OF
55300	RANSOMVILLE
55310	RAVENSFORD
55315	RAVENSWOOD
55320	RAWLS
55340	RAYNHAM, TOWN OF
55344	RAYNOR
55348	RAYNOR TOWN
55352	RAYS BEACH
55356	READS CHAPEL
55358	REBA
55370	REBEL CITY
55380	REB KEE
55390	REDALLIA
55400	RED BANKS
55410	RED BRUSH
55415	RED BUG
55420	REDBUG
55440	REDCROSS
55460	RED CROSS, TOWN OF
55500	RED HILL
55510	RED HILL
55540	RED HILL
55550	RED HILL

55580	REDLAND
55600	REDMON
55640	RED OAK, TOWN OF
55660	RED SPRINGS, TOWN OF
55670	REDWOOD
55680	REEDS CROSSROADS
55700	REEDY CREEK
55720	REELSBORO
55740	REEPSVILLE
55760	REESE
55780	REEVES
55790	REFUGE MISSION
55800	REGAL
55820	REGAN
55840	REGISTER
55860	REHOBOTH
55880	REID
55900	REIDSVILLE, CITY OF
55920	RELIEF
55930	REN
55935	RENA
55940	RENNERT, TOWN OF
55980	RENSTON
56000	REPUBLICAN
56025	REST HAVEN
56030	RETREAT
56040	REVERE
56060	REVOLUTION
56100	REX
56120	REYNOLDA
56140	REYNOLDA PARK
56145	REYNOLDSON
56155	RHAMKATTE
56160	RHEASVILLE
56180	RHEMS
56210	RHODES
56240	RHODHISS, TOWN OF
56260	RHODO
56265	RHONEY
56275	RHYNE

56280	RHYNE CROSSROAD
56290	RICEFIELD
56295	RICE MILL
56300	RICEVILLE
56320	RICHARDSON
56340	RICHFIELD, TOWN OF
56345	RICH HILL
56350	RICHLAND
56355	RICHLANDS
56360	RICHLANDS, TOWN OF
56400	RICHMOND HILL
56420	RICHMOND MILL
56423	RICHMOND PARK EXTENSION
56430	RICH MOUNTAIN
56440	RICH SQUARE, TOWN OF
56460	RICO
56470	RIDDICK CROSSROADS
56475	RIDDICKSVILLE
56480	RIDDLE
56520	RIDGECREST
56560	RIDGEVILLE
56580	RIDGEWAY
56600	RIEGELWOOD
56620	RILEY
56630	RILEY HILL
56640	RIMER
56660	RINGWOOD
56700	RIVER ACRES
56710	RIVER BEND, TOWN OF
56740	RIVERDALE
56760	RIVER HAVEN
56780	RIVERMONT
56800	RIVER NECK
56815	RIVER ROAD
56840	RIVERSIDE
56850	RIVERSIDE
56860	RIVERSIDE
56880	RIVERSIDE
56888	RIVERVIEW
56900	ROANOKE RAPIDS, CITY OF

56940	ROARING CREEK
56960	ROARING GAP
56980	ROARING RIVER
57000	ROBBINS, TOWN OF
57020	ROBBINSVILLE, TOWN OF
57040	ROBERDELL
57060	ROBERDO
57100	ROBERSONVILLE, TOWN OF
57120	ROBERTA MILL
57160	ROCK CREEK
57180	ROCKDALE
57200	ROCKFISH
57220	ROCKFORD
57260	ROCKINGHAM, CITY OF
57270	ROCK REST
57280	ROCK RIDGE
57300	ROCK SPRING
57310	ROCK SPRINGS
57330	ROCKVIEW
57340	ROCKWELL, TOWN OF
57420	ROCKY CROSS
57440	ROCKY FORD
57450	ROCKY HILL
57460	ROCKYHOCK
57470	ROCKY KNOLL
57480	ROCKY KNOLL
57500	ROCKY MOUNT, CITY OF
57540	ROCKY POINT
57560	ROCKY RIVER
57570	ROCKY SPRINGS
57580	RODANTHE
57590	RODMANS QUARTER
57600	RODUCO
57630	ROGERS CROSSROADS
57640	ROLESVILLE, TOWN OF
57660	ROLLINS
57680	ROMINGER
57700	RONDA, TOWN OF
57720	ROOKS
57740	ROPER, TOWN OF

57750	ROPER SPRINGS
57780	ROSE BAY
57800	ROSEBORO, TOWN OF
57820	ROSEBOROUGH
57830	ROSEBUD
57840	ROSEBUD
57860	ROSE HILL, TOWN OF
57870	ROSE HILL
57875	ROSELAND
57880	ROSELAND
57900	ROSELAND
57910	ROSEMARY
57920	ROSEMEAD
57940	ROSEMONT
57960	ROSENEATH
57965	ROSEVILLE
57970	ROSEWOOD
57980	ROSINDALE
57990	ROSIN HILL
58000	ROSLIN
58020	ROSMAN, TOWN OF
58025	ROSSER
58030	ROSS STORE
58035	ROTEN
58040	ROUGEMONT
58045	ROUGHEDGE
58055	ROUNDHILL
58080	ROUNTREE
58085	ROVER
58095	ROWAN
58100	ROWAN MILLS
58120	ROWES CORNER
58140	ROWLAND, TOWN OF
58160	ROXBORO, CITY OF
58180	ROXOBEL, TOWN OF
58200	ROYAL
58210	ROYAL
58240	ROYAL OAKS
58260	ROYAL PINES
58290	RUBYATT

58295	RUBY CITY
58300	RUDD
58340	RUFFIN
58345	RUFUS
58350	RUGBY
58353	RUGGLES
58357	RUNION
58360	RURAL HALL, TOWN OF
58385	RUSKIN
58390	RUSSELLS CREEK
58395	RUSSELLVILLE
58400	RUSSTOWN
58420	RUTH, TOWN OF
58440	RUTHERFORD COLLEGE, TOWN OF
58460	RUTHERFORDTON, TOWN OF
58480	RUTHERWOOD
58500	RYES
58520	RYLAND
58530	RYMERS FERRY
58570	SACONON
58590	SADDLETREE
58600	SADLER
58620	SAINT HELENA, VILLAGE OF
58630	SAINT JAMES, TOWN OF
58640	SAINT JOHN
58660	SAINT JOHNS
58680	SAINT LEWIS
58720	SAINT PAULS, TOWN OF
58730	SAINT STEPHENS
58740	SALEM
58760	SALEM
58780	SALEM
58800	SALEM
58805	SALEM
58815	SALEM
58820	SALEM
58840	SALEMBURG, TOWN OF
58850	SALES FORD
58860	SALISBURY, CITY OF
58900	SALTER PATH

58920	SALUDA, CITY OF
58940	SALVO
58950	SAMARCAND
58960	SAMARIA
59000	SAND HILL
59040	SANDS
59060	SANDY BOTTOM
59070	SANDY BOTTOM
59080	SANDY BOTTOMS
59090	SANDY CREEK, TOWN OF
59100	SANDY CROSS
59120	SANDY CROSS
59130	SANDY CROSS
59135	SANDYFIELD, TOWN OF
59140	SANDY GROVE
59145	SANDY GROVE
59150	SANDY HILL
59160	SANDYMUSH
59180	SANDY MUSH
59190	SANDY PLAIN
59205	SANDY PLAIN
59215	SANDY PLAINS
59220	SANDY PLAINS
59240	SANDY RIDGE
59260	SANDY RIDGE
59280	SANFORD, CITY OF
59290	SANS SOUCI
59320	SAPPHIRE
59340	SARATOGA, TOWN OF
59350	SARECTA
59370	SAREM
59380	SASSERS MILL
59400	SATTERWHITE
59420	SAULSTON
59440	SAUNDERS
59460	SAUNOOK
59470	SAVAGE
59475	SAVAGES CROSSROADS
59480	SAVANNAH
59540	SAWMILLS, TOWN OF

59580	SAXAPAHAW
59640	SAYLES VILLAGE
59660	SCALESVILLE
59700	SCALY MOUNTAIN
59720	SCHLEY
59770	SCOTIA
59780	SCOTLAND NECK, TOWN OF
59800	SCOTT PARK
59820	SCOTTS
59840	SCOTTS
59860	SCOTTS HILL
59880	SCOTTS STORE
59900	SCOTTVILLE
59920	SCRANTON
59940	SCUFFLETON
59960	SCUPPERNONG
59980	SEABOARD, TOWN OF
60000	SEA BREEZE
60030	SEAFORTH
60060	SEAGATE
60080	SEAGROVE, TOWN OF
60120	SEALEVEL
60160	SEASIDE
60170	SECESSION
60180	SEDALIA, TOWN OF
60200	SEDGEFIELD
60280	SEDGE GARDEN
60285	SEDGE-TOWN
60290	SEESHORE
60295	SEGA LAKE
60300	SELICA
60320	SELMA, TOWN OF
60360	SELWIN
60400	SEMINOLE
60420	SEMORA
60460	SENTER
60470	SESSEX
60503	SEVEN CREEKS
60505	SEVEN DEVILS, TOWN OF
60515	SEVEN LAKES

60520	SEVEN PATHS
60540	SEVEN SPRINGS, TOWN OF
60560	SEVERN, TOWN OF
60600	SEVIER
60620	SEWARD
60630	SEXTON
60660	SHACKTOWN
60680	SHADY BANKS
60700	SHADY BROOK
60720	SHADY FOREST
60740	SHADY GROVE
60750	SHAKEN
60790	SHALEVILLE
60800	SHALLOTTE, TOWN OF
60860	SHALLOW FORD
60880	SHANGHAI
60940	SHANNON
60960	SHARON
60980	SHARON
61010	SHARONBROOK
61020	SHARP POINT
61060	SHARPSBURG, TOWN OF
61080	SHATLEY SPRINGS
61100	SHAWS
61120	SHAWBORO
61150	SHAWTOWN
61180	SHEFFIELD
61200	SHELBY, CITY OF
61220	SHELMERDINE
61230	SHELTER NECK
61240	SHELTON
61250	SHELTON LAUREL
61255	SHELTON STORE
61260	SHELTONTOWN
61300	SHEPHERDS
61320	SHERRILLS FORD
61360	SHERWOOD
61400	SHERWOOD FOREST
61425	SHERWOOD FOREST
61435	SHERWOOD TERRACE

61440	SHERWOOD VILLAGE
61480	SHILOH
61500	SHILOH
61504	SHILOH
61508	SHILOH
61512	SHILOH MILLS
61516	SHINE
61520	SHINES CROSSROADS
61540	SHINGLE HOLLOW
61560	SHINNVILLE
61580	SHOALS
61610	SHOATES
61630	SHOLARS CROSSROADS
61640	SHOOFLY
61660	SHOOKVILLE
61680	SHOOTING CREEK
61700	SHOPTON
61740	SHOTWELL
61750	SHOUPS FORD
61755	SHUFFLETOWN
61780	SHULLS MILL
61790	SHUMONT
61800	SHUPINGS MILL
61845	SIDNEY
61850	SIDNEY CROSSROADS
61855	SIGN PINE
61860	SILER CITY, TOWN OF
61880	SILK HOPE
61900	SILOAM
61910	SILVER BLUFF
61920	SILVER CITY
61940	SILVERDALE
61942	SILVER HILL
61945	SILVER HILL
61947	SILVER HILL
61950	SILVER LAKE
61960	SILVER SPRINGS
61970	SILVER SPRINGS
61980	SILVERSTONE
62000	SILVER VALLEY

62005	SIMMONS BAY
62040	SIMPSON, VILLAGE OF
62060	SIMS, TOWN OF
62080	SIOUX
62100	SIVEY TOWN
62110	SIX FORKS
62120	SIX FORKS
62130	SIX FORKS CROSSROADS
62140	SKIBO
62180	SKINNERSVILLE
62190	SKIPPERS CORNER
62240	SKYLAND
62270	SKY VILLAGE
62300	SLADESVILLE
62305	SLATESTONE
62310	SLICKROCK FORD
62320	SLIGO
62340	SLOAN
62360	SLOCOMB
62370	SLOCUM
62392	SLOOP POINT
62440	SMALL
62480	SMETHPORT
62495	SMITH CREEK
62500	SMITH CROSSING
62510	SMITH CROSSROADS
62520	SMITHFIELD, TOWN OF
62540	SMITH GROVE
62565	SMITHS
62575	SMITHTOWN
62580	SMITHTOWN
62600	SMITHVILLE
62605	SMITHWICK
62620	SMYRE
62640	SMYRNA
62680	SNEADS FERRY
62720	SNOW CAMP
62740	SNOWDEN
62755	SNOWHILL
62760	SNOW HILL, TOWN OF

62770	SNOW HILL
62780	SNOW HILL
62785	SNOW HILL
62790	SNOW HILL
62810	SOCIAL PLAINS
62815	SODA HILL
62840	SODYECO
62865	SOLO
62870	SOLOLA VALLEY
62875	SOMERS CROSSROADS
62880	SOMERSET
62890	SOMERSET
62920	SOPHIA
62940	SOUL CITY
62960	SOUND SIDE
62980	SOUNDSIDE
63040	SOUTH BELMONT
63080	SOUTH CREEK
63120	SOUTHERN PINES, TOWN OF
63130	SOUTHERN SHORES, TOWN OF
63160	SOUTH FORK
63180	SOUTH GASTONIA
63200	SOUTH GOLDSBORO
63240	SOUTH HENDERSON
63260	SOUTH HOMINY
63290	SOUTH LINCOLNTON
63340	SOUTH MILLS
63360	SOUTHMONT
63400	SOUTHPORT, CITY OF
63440	SOUTH RIVER
63460	SOUTH ROCKY MOUNT
63470	SOUTH ROSEMARY
63480	SOUTH SALISBURY
63490	SOUTH SIDE
63520	SOUTHSIDE
63535	SOUTH TUNIS
63540	SOUTH WADESBORO
63560	SOUTH WELDON
63580	SOUTH WHITEVILLE
63660	SOUTHWOOD

63680	SPARTA, TOWN OF
63700	SPEAR
63720	SPEED, TOWN OF
63740	SPEEDWELL
63750	SPEIGHTS BRIDGE
63760	SPENCER, TOWN OF
63780	SPENCER MOUNTAIN, TOWN OF
63860	SPIES
63870	SPILLCORN
63875	SPILONA
63880	SPINDALE, TOWN OF
63920	SPIVEYS CORNER
63980	SPOT
64000	SPOUT SPRINGS
64020	SPRAY
64030	SPRING CREEK
64040	SPRING CREEK
64050	SPRINGDALE
64060	SPRINGFIELD
64070	SPRINGFIELD
64110	SPRING GARDEN
64115	SPRING HILL
64120	SPRING HILL
64125	SPRING HILL
64135	SPRING HILL
64140	SPRING HOPE
64160	SPRING HOPE, TOWN OF
64180	SPRING LAKE, TOWN OF
64240	SPRINGWOOD
64260	SPRUCE PINE, TOWN OF
64310	STACEY
64320	STACKHOUSE
64340	STACY
64360	STAG PARK
64380	STALEY, TOWN OF
64420	STALLINGS, TOWN OF
64425	STALLINGS CROSSROADS
64430	STALLINGS CROSSROADS
64444	STAMEY TOWN
64448	STANCELL

64452	STANCILS CHAPEL
64460	STANFIELD, TOWN OF
64480	STANHOPE
64500	STANLEY, TOWN OF
64540	STANLEYVILLE
64560	STANTONSBURG, TOWN OF
64580	STAR, TOWN OF
64590	STARLIGHT
64595	STARLING
64640	STARMOUNT FOREST
64660	STARTOWN
64720	STATE ROAD
64740	STATESVILLE, CITY OF
64760	STATESVILLE WEST
64800	STATON
64810	STEARNS
64820	STECOAH
64840	STEDMAN, TOWN OF
64860	STEEDS
64900	STEEN TOWN
64910	STEEP PINES FORK
64920	STELLA
64940	STEM, TOWN OF
64945	STEPHENS CROSSROADS
64950	STERLING
64960	STEVENS MILL
64965	STEWART CROSSROADS
64970	STEWARTS MILL
64980	STILES
64985	STILL BLUFF
64990	STILLEY
64995	STILLEYS CROSSROADS
65000	STOCKSVILLE
65020	STOKES
65040	STOKESDALE, TOWN OF
65060	STOKESTOWN
65100	STONEVILLE, TOWN OF
65120	STONEWALL, TOWN OF
65170	STONEY KNOB
65180	STONY CREEK

65200	STONY FORK
65230	STONY HILL
65240	STONY KNOLL
65260	STONY POINT
65265	STONY POINT
65270	STORYS
65280	STOTTS CROSSROADS
65300	STOUTS
65320	STOVALL, TOWN OF
65350	STRABANE
65360	STRAITS
65380	STRATFORD
65390	STRAWBERRY RIDGE
65395	STRICKLAND CROSSROADS
65400	STRICKLAND CROSSROADS
65420	STUBBS
65440	STUMPTOWN
65460	STUMPY POINT
65470	STURDIVANTS CROSSROADS
65480	STURGILLS
65490	SUBURB
65500	SUGAR GROVE
65520	SUGAR HILL
65525	SUGAR HILL
65530	SUGAR MOUNTAIN, VILLAGE OF
65535	SUGAR TOWN
65560	SULPHUR SPRINGS
65570	SULPHUR SPRINGS
65580	SUMMERFIELD, TOWN OF
65600	SUMMERHAVEN
65610	SUMMERLINS CROSSROADS
65690	SUNBURST
65700	SUNBURY
65710	SUNNY POINT
65740	SUNNYSIDE
65760	SUNNY SIDE
65780	SUNNYSIDE
65800	SUNNYSIDE
65840	SUNNYVALE
65860	SUNNY VIEW

65890	SUNRISE BEACH
65900	SUNSET BEACH, TOWN OF
65960	SUNSET HILLS
65970	SUNSET HILLS
66000	SUNSHINE
66020	SUPPLY
66040	SURF CITY, TOWN OF
66060	SURL
66100	SUTHERLAND
66105	SUTPHIN
66115	SUTTENTOWN
66130	SUTTON
66160	SUTTONS CORNER
66170	SUTTONTOWN
66180	SUTTONTOWN
66190	SWAIMTOWN
66220	SWAINSVILLE
66240	SWAN CREEK
66250	SWANN
66260	SWANN
66280	SWANNANOA
66300	SWANNANOA HILLS
66340	SWANQUARTER
66360	SWANSBORO, TOWN OF
66420	SWEETGUM
66430	SWEETWATER
66440	SWEETWATER
66460	SWEPSONVILLE, TOWN OF
66470	SWINDELL
66475	SWINDELL FORK
66480	SWISS
66500	SYLVA, TOWN OF
66510	TABLE ROCK
66520	TABOR CITY, TOWN OF
66560	TALC MOUNTAIN
66580	TALLEYS CROSSING
66650	TANTS CROSSROADS
66660	TAPOCO
66700	TARBORO, TOWN OF
66720	TAR CORNER

66740	TAR HEEL, TOWN OF
66760	TARHEEL
66780	TAR LANDING
66820	TAR RIVER
66860	TAYLOR CROSSROADS
66880	TAYLORS BRIDGE
66900	TAYLORS CORNER
66920	TAYLORS STORE
66940	TAYLORS STORE
66960	TAYLORSVILLE, TOWN OF
66970	TAYLORSVILLE BEACH
66980	TAYLORTOWN, TOWN OF
67000	TEACHEY, TOWN OF
67030	TEAGUETOWN
67040	TEER
67070	TELLICO
67075	TENMILE FORK
67105	TENNEY CIRCLE
67115	TERESITA
67120	TERRACE GARDENS
67140	TERRA CEIA
67160	TERRA COTTA
67180	TERRELL
67190	TERRELLS
67200	TERRY FORK
67240	TEXANA
67255	THANKFUL
67260	THE BOROUGH
67280	THELMA
67320	THERMAL CITY
67350	THOMASBORO
67370	THOMAS CROSSROADS
67380	THOMAS LANDING
67420	THOMASVILLE, CITY OF
67450	THREE FORKS
67460	THREE MILE
67520	THURMAN
67540	THURMOND
67560	TILLERY
67580	TIMBERLAKE

67600	TIMBERLAND
67620	TIMOTHY
67640	TIN CITY
67650	TINY OAK FORK
67660	TIPTON HILL
67700	TOAST
67720	TOBACCOVILLE, VILLAGE OF
67750	TOBERMORY
67760	TODD
67780	TODDS CROSSROADS
67790	TODDVILLE
67820	TOECANE
67860	TOLARSVILLE
67880	TOLEDO
67900	TOLIVER
67920	TOLUCA
67940	TOMAHAWK
67980	TOMOTLA
67988	TOMS CREEK
68000	TOPIA
68020	TOPNOT
68030	TOPSAIL
68040	TOPSAIL BEACH, TOWN OF
68050	TOPSY
68060	TOPTON
68080	TOWN CREEK, TOWN OF
68100	TOWN CREEK, TOWN OF
68120	TOWN FOREST, TOWN OF
68140	TOWNSVILLE
68180	TRADING FORD
68200	TRAMWAY
68220	TRANSOU
68240	TRAP
68260	TRAPHILL
68280	TRAVIS
68320	TRENTON, TOWN OF
68340	TRENT WOODS, TOWN OF
68360	TRIANGLE
68400	TRINITY, CITY OF
68420	TRINITY

68430	TRIPLE SPRINGS
68440	TRIPLETT
68460	TROTVILLE
68480	TROUT
68500	TROUTMAN, TOWN OF
68510	TROXLERS MILL
68520	TROY, TOWN OF
68540	TRUST
68570	TRYON
68580	TRYON, TOWN OF
68620	TUCKASEGEE
68630	TUCKAWAY PARK
68640	TUCKERDALE
68665	TUGWELL
68675	TULLS
68682	TULLS MILL
68685	TULULA
68690	TUMBLERVILLE
68700	TUNGSTEN
68720	TUNIS
68740	TURKEY, TOWN OF
68750	TURKEY FORD
68760	TURLINGTON
68770	TURNAGE
68780	TURNERSBURG
68800	TURNERS CROSSROADS
68820	TURNPIKE
68840	TUSCARORA
68852	TUSCOLA PARK
68857	TUSK
68860	TUSKEEGEE
68880	TUSQUITEE
68900	TUXEDO
68950	TWIN LAKES
68960	TWIN LAKES ESTATES
68970	TWIN OAK
68980	TWIN OAKS
69020	TYRO
69030	TYSONVILLE
69040	ULAH

69060	UNAHALA
69080	UNAKA
69120	UNION
69140	UNION
69145	UNION
69150	UNION
69155	UNION
69160	UNION CROSS
69170	UNION GROVE
69180	UNION GROVE
69185	UNION GROVE
69195	UNION HILL
69200	UNION HILL
69205	UNION HOPE
69220	UNION MILLS
69230	UNION POINT
69240	UNION RIDGE
69250	UNION RIDGE
69260	UNIONVILLE, TOWN OF
69285	UNIVERSITY ESTATES
69310	U-NO
69320	UPCHURCH
69360	UPPER PIGEONROOST
69380	UPPER POPLAR
69400	UPTON
69420	UPWARD
69440	UREE
69500	UWHARRIE
69510	VADE MECUM
69520	VALDESE, TOWN OF
69530	VALE
69540	VALE
69560	VALHALLA
69580	VALHALLA
69600	VALLE CRUCIS
69620	VALLEY
69640	VALLEY HILL
69645	VALLEY SPRINGS
69650	VALLEYTOWN
69655	VALLEY VIEW

69660	VALMEAD
69680	VANCEBORO, TOWN OF
69700	VANDALIA
69720	VANDEMERE, TOWN OF
69740	VANDER
69750	VAN EDEN
69755	VANN CROSSROADS
69760	VANNOY
69770	VANTINE
69795	VARNAMTOWN, TOWN OF
69800	VARNUM
69820	VASHTI
69840	VASS, TOWN OF
69860	VAUGHAN
69880	VEIN MOUNTAIN
69890	VENABLE
69920	VENTERS
69940	VERONA
69960	VESTS
69980	VICKSBORO
70060	VIENNA
70080	VIEWMONT
70100	VILAS
70160	VINEGAR HILL
70170	VINTON WOODS
70180	VIOLET
70270	VOLUNTEER
70280	VULTARE
70320	WACO, TOWN OF
70340	WADE, TOWN OF
70360	WADE MILLS
70380	WADESBORO, TOWN OF
70420	WADES POINT
70440	WADEVILLE
70460	WAGONER
70470	WAGONER
70480	WAGRAM, TOWN OF
70500	WAKE CROSSROADS
70540	WAKE FOREST, TOWN OF
70560	WAKELON

70580	WAKULLA
70600	WALKERS
70620	WALKERS CROSSROADS
70650	WALKERTOWN
70660	WALKERTOWN, TOWN OF
70680	WALKERTOWN
70720	WALLACE, TOWN OF
70725	CANNON CROSSROADS
70730	WALLACE MILL
70735	WALLA WATTA
70740	WALLBURG, TOWN OF
70760	WALNUT
70780	WALNUT COVE, TOWN OF
70800	WALNUT CREEK
70820	WALNUT CREEK, VILLAGE OF
70830	WALSER
70860	WALSTONBURG, TOWN OF
70870	WALTON CROSSROADS
70880	WALTONS STORE
70900	WANANISH
70920	WANCHESE
70960	WARDS
70980	WARDS CORNER
71020	WARDVILLE
71040	WARNE
71060	WARREN PLAINS
71080	WARRENSVILLE
71100	WARRENTON, TOWN OF
71140	WARRIOR
71160	WARSAW, TOWN OF
71180	WASHBURN
71190	WASHBURN
71220	WASHINGTON, CITY OF
71225	WASHINGTON FORKS
71230	WASHINGTON HEIGHTS
71240	WASHINGTON PARK, TOWN OF
71280	WATERLILY
71300	WATERVILLE
71310	WATERY BRANCH
71320	WATHA, TOWN OF

71330	WATKINS
71340	WATKINS MILL
71350	WATSON
71360	WATSON CROSSROADS
71380	WATTS CROSSROADS
71390	WATTS LANDING
71400	WAUGHTOWN
71420	WAVERLY
71440	WAVES
71460	WAXHAW, TOWN OF
71470	WAYAH DEPOT
71480	WAYCROSS
71500	WAYNESVILLE, TOWN OF
71530	WEAVER
71540	WEAVERS FORD
71560	WEAVERVILLE, TOWN OF
71570	WEBB
71580	WEBBS
71600	WEBSTER, TOWN OF
71660	WEBTOWN
71680	WEDDINGTON, TOWN OF
71700	WEEKSVILLE
71710	WEHUTTY
71760	WELCOME
71780	WELDON, TOWN OF
71790	WELDONS MILL
71860	WENDELL, TOWN OF
71880	WENONA
71900	WENTWORTH, TOWN OF
71940	WESLEY CHAPEL, VILLAGE OF
71980	WESSER
72060	WEST ASHEVILLE
72080	WEST BEND
72110	WESTBROOK
72120	WEST BROOK
72150	WEST CANTON
72160	WEST CONCORD
72180	WEST CRAMERTON
72300	WEST END
72360	WESTERWOOD

72380	WESTFIELD
72400	WEST GASTONIA
72460	WEST HAVEN
72500	WEST HIGHLANDS
72520	WEST HILLSBOROUGH
72540	WEST JEFFERSON, TOWN OF
72600	WEST MARION
72640	WESTMINSTER
72670	WESTMORE
72710	WEST OAKS
72715	WEST ONSLOW BEACH
72720	WESTOVER
72740	WESTOVER
72745	WEST PARKLAND
72750	WEST PHILADELPHIA
72755	WESTPORT
72800	WEST ROCKINGHAM
72840	WESTRY
72860	WEST SALEM
72950	WEST SMITHFIELD
73000	WEST TARBORO
73040	WESTVIEW
73050	WEST YANCEYVILLE
73060	WHALEBONE
73080	WHALEY
73120	WHICHARD
73130	WHICHARD BEACH
73140	WHISPERING PINES, VILLAGE OF
73160	WHITAKERS, TOWN OF
73180	WHITE CROSS
73220	WHITEHEAD
73240	WHITE HILL
73260	WHITEHOUSE
73280	WHITEHURST
73300	WHITE LAKE, TOWN OF
73310	WHITE LEVEL
73320	WHITE OAK
73340	WHITE OAK
73360	WHITE OAK
73380	WHITE OAK

73400	WHITE OAK
73430	WHITEOAK FLATS
73445	WHITE OAKS
73455	WHITE PLAINS
73460	WHITE PLAINS
73470	WHITE POND
73480	WHITEPOST
73500	WHITE ROCK
73560	WHITES CROSSROADS
73590	WHITE STOCKING
73630	WHITETOWN
73660	WHITEVILLE, CITY OF
73710	WHITLEY HEIGHTS
73720	WHITNEL
73740	WHITNEY
73760	WHITSETT, TOWN OF
73770	WHITSON
73780	WHITTIER
73790	WHITT TOWN
73800	WHORTONSVILLE
73840	WIGGINS CROSSROADS
73845	WIGGINS CROSSROADS
73850	WIGGINS MILL
73860	WILBANKS
73880	WILBAR
73900	WILBON
73920	WILBOURNS
73930	WILDACRES
73940	WILDERS GROVE
73960	WILDWOOD
73980	WILGROVE
74000	WILKERSON CROSSROADS
74020	WILKESBORO, TOWN OF
74040	WILKINSON
74080	WILLARD
74090	WILLARDVILLE
74100	WILLEYTON
74110	WILLIAMS
74115	WILLIAMS
74120	WILLIAMSBORO

74140	WILLIAMSBURG
74160	WILLIAMSBURG
74170	WILLIAMS CROSSROADS
74200	WILLIAMSON CROSSROADS
74220	WILLIAMSTON, TOWN OF
74230	WILLIAMS VILLAGE
74260	WILLIS LANDING
74280	WILLISTON
74310	WILLITS-OCHRE HILL
74330	WILLOW CREEK
74370	WILLOW SPRINGS
74400	WILMAR
74420	WIL-MAR PARK
74440	WILMINGTON, CITY OF
74460	WILMINGTON BEACH
74500	WILMOT
74510	WILSHIRE PARK
74520	WILSON
74540	WILSON, CITY OF
74580	WILSON'S MILLS, TOWN OF
74590	WILSONVILLE
74600	WILTON
74620	WIND BLOW
74630	WINDEMERE
74660	WINDOM
74680	WINDSOR, TOWN OF
74690	WINDSORS CROSSROADS
74700	WINDY GAP
74720	WINFALL, TOWN OF
74740	WING
74760	WINGATE, TOWN OF
74780	WINNABOW
74800	WINSLOW
74820	WINSTEAD CROSSROADS
74840	WINSTEADVILLE
75000	WINSTON-SALEM, CITY OF
75020	WINTER PARK
75060	WINTERVILLE, TOWN OF
75080	WINTON, TOWN OF
75100	WISE

75120	WISE FORKS
75125	WISEMANS VIEW
75130	WITHERSPOON CROSSROAD
75135	WITTYS CROSSROADS
75140	WOLF CREEK
75150	WOLF FORD
75160	WOLF MOUNTAIN
75180	WOOD
75200	WOODARD
75240	WOODBURN
75280	WOODFIN, TOWN OF
75300	WOODFORD
75320	WOODINGTON
75340	WOODLAND, TOWN OF
75365	WOODLAND HILLS
75375	WOODLAWN
75400	WOODLAWN
75420	WOODLEAF
75460	WOODLEY
75480	WOODROW
75500	WOODROW
75510	WOODS CROSSROADS
75520	WOODSDALE
75540	WOODSIDE
75550	WOODSIDE HILLS
75560	WOODVILLE
75570	WOODVILLE
75580	WOODVILLE
75600	WOODVILLE
75620	WOODWORTH
75640	WOOTENS CROSSROADS
75660	WOOTENS CROSSROADS
75680	WOOTENS CROSSROADS
75720	WORLEY
75730	WORRY
75760	WORTHVILLE
75765	WRENDALE
75780	WRIGHTSBORO
75800	WRIGHTSVILLE
75820	WRIGHTSVILLE BEACH, TOWN OF

75830	WYANOKE
75840	WYATTS CROSSROADS
75860	YADKIN
75920	YADKIN JUNCTION
75940	YADKIN VALLEY
75960	YADKINVILLE, TOWN OF
75980	YAMACRAW
76000	YANCEYVILLE, TOWN OF
76010	YATES
76020	YATES HILL
76080	YAUPON BEACH, TOWN OF
76100	YEATESVILLE
76120	YELLOW CREEK
76125	YELLOW GAP
76130	YEOPIM STATION
76200	YOUNGSVILLE, TOWN OF
76205	YOW MILL
76210	ZARA
76220	ZEBULON, TOWN OF
76240	ZEPHYR
76250	ZION GROVE
76260	ZIONVILLE
76280	ZIRCONIA
90004	ABBOTTS, TOWNSHIP OF
90008	ABBOTTS CREEK, TOWNSHIP OF
90012	ABBOTTS CREEK, TOWNSHIP OF
90016	AHOSKIE, TOWNSHIP OF
90020	ALBERTSON, TOWNSHIP OF
90024	ALBRIGHT, TOWNSHIP OF
90028	ALFORDSVILLE, TOWNSHIP OF
90032	ALLEGHANY, TOWNSHIP OF
90036	ALLENDALE, TOWNSHIP OF
90040	ALLENSVILLE, TOWNSHIP OF
90044	ALLIGATOR, TOWNSHIP OF
90048	ALMOND, TOWNSHIP OF
90052	ALTAMONT, TOWNSHIP OF
90056	ANDERSON, TOWNSHIP OF
90060	ANDERSON CREEK, TOWNSHIP OF
90064	ANSONVILLE, TOWNSHIP OF
90068	ANTIOCH, TOWNSHIP OF

90072	ANTIOCH, TOWNSHIP OF
90076	ARCADIA, TOWNSHIP OF
90080	ARTHUR, TOWNSHIP OF
90084	ASHEBORO, TOWNSHIP OF
90088	ASHEVILLE, TOWNSHIP OF
90092	ATLANTIC, TOWNSHIP OF
90096	ATLANTIC, TOWNSHIP OF
90100	ATWELL, TOWNSHIP OF
90104	AVERASBORO, TOWNSHIP OF
90108	AVERY CREEK, TOWNSHIP OF
90112	AYDEN, TOWNSHIP OF
90116	BACK CREEK, TOWNSHIP OF
90120	BACK SWAMP, TOWNSHIP OF
90124	BAILEY, TOWNSHIP OF
90128	BAKERSVILLE, TOWNSHIP OF
90132	BALD MOUNTAIN, TOWNSHIP OF
90136	BALDWIN, TOWNSHIP OF
90140	BANDY'S, TOWNSHIP OF
90144	BANNER, TOWNSHIP OF
90148	BANNER ELK, TOWNSHIP OF
90152	BARBECUE, TOWNSHIP OF
90156	BARKERS CREEK, TOWNSHIP OF
90160	BARRINGER, TOWNSHIP OF
90164	BARTONS CREEK, TOWNSHIP OF
90168	BATH, TOWNSHIP OF
90172	BEAR CREEK, TOWNSHIP OF
90176	BEARGRASS, TOWNSHIP OF
90180	BEAUFORT, TOWNSHIP OF
90184	BEAVER CREEK, TOWNSHIP OF
90188	BEAVERDAM, TOWNSHIP OF
90192	BEAVER DAM, TOWNSHIP OF
90196	BEAVERDAM, TOWNSHIP OF
90200	BEAVERDAM, TOWNSHIP OF
90204	BEAVERDAM, TOWNSHIP OF
90208	BEAVER ISLAND, TOWNSHIP OF
90212	BEECH MOUNTAIN, TOWNSHIP OF
90216	BELEWS CREEK, TOWNSHIP OF
90220	BELVIDERE, TOWNSHIP OF
90224	BELVOIR, TOWNSHIP OF
90228	BELVOIR, TOWNSHIP OF

90232	BENTONVILLE, TOWNSHIP OF
90236	BETHANIA, TOWNSHIP OF
90240	BETHANY, TOWNSHIP OF
90244	BETHEL, TOWNSHIP OF
90248	BETHEL, TOWNSHIP OF
90252	BETHEL, TOWNSHIP OF
90256	BEULAH, TOWNSHIP OF
90260	BIG CREEK, TOWNSHIP OF
90264	BIG LICK, TOWNSHIP OF
90268	BINGHAM, TOWNSHIP OF
90272	BISCOE, TOWNSHIP OF
90276	BLACK CREEK, TOWNSHIP OF
90280	BLACK JACK, TOWNSHIP OF
90284	BLACK MOUNTAIN, TOWNSHIP OF
90288	BLACK RIVER, TOWNSHIP OF
90292	BLACK RIVER, TOWNSHIP OF
90296	BLADENBORO, TOWNSHIP OF
90300	BLOWING ROCK, TOWNSHIP OF
90304	BLUE RIDGE, TOWNSHIP OF
90308	BLUE RIDGE, TOWNSHIP OF
90312	BLUE SPRINGS, TOWNSHIP OF
90316	BOGUE, TOWNSHIP OF
90320	BOLTON, TOWNSHIP OF
90324	BOOMER, TOWNSHIP OF
90328	BOONE, TOWNSHIP OF
90332	BOONE, TOWNSHIP OF
90336	BOON HILL, TOWNSHIP OF
90340	BOONVILLE, TOWNSHIP OF
90344	BOYD, TOWNSHIP OF
90348	BRACKETT, TOWNSHIP OF
90352	BRADSHAW, TOWNSHIP OF
90356	BRASSFIELD, TOWNSHIP OF
90360	BRASSTOWN, TOWNSHIP OF
90364	BREVARD, TOWNSHIP OF
90368	BRINKLEYVILLE, TOWNSHIP OF
90372	BRITTS, TOWNSHIP OF
90376	BROADBAY, TOWNSHIP OF
90380	BROAD RIVER, TOWNSHIP OF
90384	BROGDEN, TOWNSHIP OF
90388	BROWER, TOWNSHIP OF

90392	BROWN MARSH, TOWNSHIP OF
90396	BRUCE, TOWNSHIP OF
90400	BRUSH CREEK, TOWNSHIP OF
90404	BRUSHY FORK, TOWNSHIP OF
90408	BRUSHY MOUNTAIN, TOWNSHIP OF
90412	BRYAN, TOWNSHIP OF
90416	BUCKHORN, TOWNSHIP OF
90420	BUCKHORN, TOWNSHIP OF
90424	BUCK SHOAL, TOWNSHIP OF
90428	BUCK SWAMP, TOWNSHIP OF
90432	BUFORD, TOWNSHIP OF
90436	BUG HILL, TOWNSHIP OF
90440	BULL HEAD, TOWNSHIP OF
90444	BURGAW, TOWNSHIP OF
90448	BURNINGTOWN, TOWNSHIP OF
90452	BURNSVILLE, TOWNSHIP OF
90456	BURNSVILLE, TOWNSHIP OF
90460	BURNT SWAMP, TOWNSHIP OF
90464	BUSHY FORK, TOWNSHIP OF
90468	BUTTERWOOD, TOWNSHIP OF
90472	CALAHALN, TOWNSHIP OF
90476	CALDWELL, TOWNSHIP OF
90480	CAMP CREEK, TOWNSHIP OF
90482	CAMP LEJEUNE
90484	CANADA, TOWNSHIP OF
90488	CANE CREEK, TOWNSHIP OF
90492	CANE RIVER, TOWNSHIP OF
90496	CANETUCK, TOWNSHIP OF
90500	CANEY FORK, TOWNSHIP OF
90504	CAPE FEAR, TOWNSHIP OF
90508	CAPE FEAR, TOWNSHIP OF
90510	CAREY'S FLAT, TOWNSHIP OF
90512	CAROLINA, TOWNSHIP OF
90516	CARR, TOWNSHIP OF
90520	CARRS, TOWNSHIP OF
90524	CARTOOGECHAYE, TOWNSHIP OF
90528	CARVERS CREEK, TOWNSHIP OF
90532	CARVERS CREEK, TOWNSHIP OF
90536	CARY, TOWNSHIP OF
90540	CASHIERS, TOWNSHIP OF

90544	CASTALIA, TOWNSHIP OF
90548	CASWELL, TOWNSHIP OF
90552	CATALOOCHEE, TOWNSHIP OF
90556	CATAWBA, TOWNSHIP OF
90560	CATAWBA SPRINGS, TOWNSHIP OF
90564	CATHEYS CREEK, TOWNSHIP OF
90568	CECIL, TOWNSHIP OF
90572	CEDAR CREEK, TOWNSHIP OF
90576	CEDAR FORK, TOWNSHIP OF
90580	CEDAR GROVE, TOWNSHIP OF
90584	CEDAR GROVE, TOWNSHIP OF
90588	CEDAR ISLAND, TOWNSHIP OF
90590	CEDAR ROCK, TOWNSHIP OF
90592	CENTER, TOWNSHIP OF
90596	CENTER, TOWNSHIP OF
90600	CENTER GROVE, TOWNSHIP OF
90604	CENTRAL, TOWNSHIP OF
90608	CERRO GORDO, TOWNSHIP OF
90612	CHADBOURN, TOWNSHIP OF
90616	CHAMBERSBURG, TOWNSHIP OF
90620	CHAPEL HILL, TOWNSHIP OF
90624	CHARLESTON, TOWNSHIP OF
90628	CHEEK CREEK, TOWNSHIP OF
90632	CHEEKS, TOWNSHIP OF
90636	CHEOAH, TOWNSHIP OF
90640	CHERRY LANE, TOWNSHIP OF
90644	CHERRYVILLE, TOWNSHIP OF
90648	CHESTNUT HILL, TOWNSHIP OF
90652	CHICOD, TOWNSHIP OF
90656	CHIMNEY ROCK, TOWNSHIP OF
90660	CHINA GROVE, TOWNSHIP OF
90664	CHOCOWINITY, TOWNSHIP OF
90668	CLARKSVILLE, TOWNSHIP OF
90672	CLAY, TOWNSHIP OF
90676	CLAYTON, TOWNSHIP OF
90680	CLEAR CREEK, TOWNSHIP OF
90684	CLEMMONSVILLE, TOWNSHIP OF
90688	CLEVELAND, TOWNSHIP OF
90692	CLEVELAND, TOWNSHIP OF
90696	CLIFTON, TOWNSHIP OF

90700	CLINES, TOWNSHIP OF
90704	CLYDE, TOWNSHIP OF
90708	CODDLE CREEK, TOWNSHIP OF
90712	COLERAIN, TOWNSHIP OF
90716	COLERIDGE, TOWNSHIP OF
90720	COLFAX, TOWNSHIP OF
90724	COLLY, TOWNSHIP OF
90728	COLUMBIA, TOWNSHIP OF
90732	COLUMBIA, TOWNSHIP OF
90736	COLUMBIA, TOWNSHIP OF
90740	COLUMBUS, TOWNSHIP OF
90744	CONCORD, TOWNSHIP OF
90748	CONCORD, TOWNSHIP OF
90752	CONOCONNARA, TOWNSHIP OF
90756	CONRAD HILL, TOWNSHIP OF
90760	CONTENTNEA NECK, TOWNSHIP OF
90768	COOL SPRING, TOWNSHIP OF
90770	COOL SPRINGS, TOWNSHIP OF
90772	COOPER GAP, TOWNSHIP OF
90776	COOPERS, TOWNSHIP OF
90780	COTTON GROVE, TOWNSHIP OF
90784	COURTHOUSE, TOWNSHIP OF
90788	COVE CREEK, TOWNSHIP OF
90792	COWEE, TOWNSHIP OF
90796	CRAB CREEK, TOWNSHIP OF
90800	CRABTREE, TOWNSHIP OF
90804	CRABTREE, TOWNSHIP OF
90808	CRANBERRY, TOWNSHIP OF
90812	CRANBERRY, TOWNSHIP OF
90816	CRAWFORD, TOWNSHIP OF
90820	CRESTON, TOWNSHIP OF
90824	CROATAN, TOWNSHIP OF
90828	CROOKED CREEK, TOWNSHIP OF
90832	CROSS CREEK, TOWNSHIP OF
90836	CROSS ROADS, TOWNSHIP OF
90840	CROSS ROADS, TOWNSHIP OF
90844	CROWDERS MOUNTAIN, TOWNSHIP OF
90848	CULLOWHEE, TOWNSHIP OF
90852	CUNNINGHAM, TOWNSHIP OF
90856	CURRITUCK, TOWNSHIP OF

90860	CYPRESS CREEK, TOWNSHIP OF
90864	CYPRESS CREEK, TOWNSHIP OF
90866	CYPRESS CREEK, TOWNSHIP OF
90868	DABNEY, TOWNSHIP OF
90872	DALLAS, TOWNSHIP OF
90876	DANBURY, TOWNSHIP OF
90880	DAN RIVER, TOWNSHIP OF
90884	DAVIDSON, TOWNSHIP OF
90888	DAVIS, TOWNSHIP OF
90892	DEEP CREEK, TOWNSHIP OF
90896	DEEP RIVER, TOWNSHIP OF
90900	DILLSBORO, TOWNSHIP OF
90904	DISMAL, TOWNSHIP OF
90908	DOBSON, TOWNSHIP OF
90912	DREXEL, TOWNSHIP OF
90916	DRY WELLS, TOWNSHIP OF
90920	DUKE, TOWNSHIP OF
90924	DUNCANS CREEK, TOWNSHIP OF
90926	DUNN, TOWNSHIP OF
90928	DUNNS ROCK, TOWNSHIP OF
90932	DURHAM, TOWNSHIP OF
90936	DUTCHVILLE, TOWNSHIP OF
90940	DYSARTSVILLE, TOWNSHIP OF
90944	EAGLE MILLS, TOWNSHIP OF
90948	EASTATOE, TOWNSHIP OF
90952	EAST BEND, TOWNSHIP OF
90956	EAST FORK, TOWNSHIP OF
90960	EAST HOWELLSVILLE, TOWNSHIP OF
90964	EAST LAKE, TOWNSHIP OF
90968	EASTOVER, TOWNSHIP OF
90972	EDNEYVILLE, TOWNSHIP OF
90976	EDWARDS, TOWNSHIP OF
90980	EGYPT, TOWNSHIP OF
90984	ELDORA, TOWNSHIP OF
90988	ELDORADO, TOWNSHIP OF
90992	ELEVATION, TOWNSHIP OF
90996	ELIZABETH CITY, TOWNSHIP OF
91000	ELIZABETHTOWN, TOWNSHIP OF
91004	ELK, TOWNSHIP OF
91008	ELK, TOWNSHIP OF

91012	ELK, TOWNSHIP OF
91016	ELKIN, TOWNSHIP OF
91018	ELK PARK, TOWNSHIP OF
91020	ELLENDALE, TOWNSHIP OF
91024	ELLIJAY, TOWNSHIP OF
91028	EMMONS, TOWNSHIP OF
91032	ENDY, TOWNSHIP OF
91036	ENFIELD, TOWNSHIP OF
91040	ENO, TOWNSHIP OF
91044	FAIR BLUFF, TOWNSHIP OF
91048	FAIRFIELD, TOWNSHIP OF
91052	FAIRMONT, TOWNSHIP OF
91056	FAIRVIEW, TOWNSHIP OF
91060	FAISON, TOWNSHIP OF
91064	FALKLAND, TOWNSHIP OF
91068	FALL CREEK, TOWNSHIP OF
91072	SUGARFORK, TOWNSHIP OF
91076	FALLSTOWN, TOWNSHIP OF
91080	FARMINGTON, TOWNSHIP OF
91084	FARMVILLE, TOWNSHIP OF
91088	FAUCETT, TOWNSHIP OF
91092	FEDERAL POINT, TOWNSHIP OF
91096	FENTRESS, TOWNSHIP OF
91100	FERRELLS, TOWNSHIP OF
91104	FINES CREEK, TOWNSHIP OF
91108	FISHING CREEK, TOWNSHIP OF
91112	FISHING CREEK, TOWNSHIP OF
91116	FLAT CREEK, TOWNSHIP OF
91120	FLAT RIVER, TOWNSHIP OF
91124	FLATS, TOWNSHIP OF
91128	FORBUSH, TOWNSHIP OF
91132	FORK, TOWNSHIP OF
91136	FORK, TOWNSHIP OF
91139	FORK MOUNTAIN, TOWNSHIP OF
91140	FORK MOUNTAIN-LITTLE ROCK CREEK, TOWNSHIP OF
91144	FORNEYS CREEK, TOWNSHIP OF
91148	FORT BRAGG MILITARY RESERVATION
91152	FOUNTAIN, TOWNSHIP OF
91154	FRANK, TOWNSHIP OF
91156	FRANKLIN, TOWNSHIP OF

91160	FRANKLIN, TOWNSHIP OF
91164	FRANKLIN, TOWNSHIP OF
91168	FRANKLIN, TOWNSHIP OF
91170	FRANKLINTON, TOWNSHIP OF
91172	FRANKLINVILLE, TOWNSHIP OF
91176	FRENCH BROAD, TOWNSHIP OF
91180	FRENCHES CREEK, TOWNSHIP OF
91184	FRIENDSHIP, TOWNSHIP OF
91188	FRUITVILLE, TOWNSHIP OF
91192	FULTON, TOWNSHIP OF
91196	FURR, TOWNSHIP OF
91200	GADDYS, TOWNSHIP OF
91204	GAP CIVIL, TOWNSHIP OF
91212	GASTON, TOWNSHIP OF
91216	GASTONIA, TOWNSHIP OF
91220	GATESVILLE, TOWNSHIP OF
91224	GILKEY, TOWNSHIP OF
91228	GILMER, TOWNSHIP OF
91232	GLADE CREEK, TOWNSHIP OF
91236	GLENWOOD, TOWNSHIP OF
91240	GLISSON, TOWNSHIP OF
91244	GLOBE, TOWNSHIP OF
91248	GLOUCESTER, TOWNSHIP OF
91252	GOLDEN VALLEY, TOWNSHIP OF
91256	GOLD HILL, TOWNSHIP OF
91258	GOLD MINE, TOWNSHIP OF
91260	GOLDSBORO, TOWNSHIP OF
91264	GOOSE CREEK, TOWNSHIP OF
91268	GOOSE NEST, TOWNSHIP OF
91272	GRADY, TOWNSHIP OF
91276	GRANT, TOWNSHIP OF
91280	GRANTHAM, TOWNSHIP OF
91282	GRASSY CREEK, TOWNSHIP OF
91285	GRASSY CREEK, TOWNSHIP OF
91288	GRASSY CREEK, TOWNSHIP OF
91292	GRASSY CREEK, TOWNSHIP OF
91296	GRAYS CREEK, TOWNSHIP OF
91300	GREAT SWAMP, TOWNSHIP OF
91304	GREENE, TOWNSHIP OF
91308	GREEN HILL, TOWNSHIP OF

91312	GREEN MOUNTAIN, TOWNSHIP OF
91316	GREEN RIVER, TOWNSHIP OF
91320	GREENS CREEK, TOWNSHIP OF
91328	GREENVILLE, TOWNSHIP OF
91332	GRIFFINS, TOWNSHIP OF
91336	GRIFFINS, TOWNSHIP OF
91340	GRIFTON, TOWNSHIP OF
91344	GRIMESLAND, TOWNSHIP OF
91348	GROVE, TOWNSHIP OF
91352	GULF, TOWNSHIP OF
91356	GULLEDGE, TOWNSHIP OF
91360	GUM NECK, TOWNSHIP OF
91364	GWALTNEYS, TOWNSHIP OF
91368	HADLEY, TOWNSHIP OF
91372	HALIFAX, TOWNSHIP OF
91376	HALL, TOWNSHIP OF
91380	HALLS, TOWNSHIP OF
91384	HAMBURG, TOWNSHIP OF
91388	HAMILTON, TOWNSHIP OF
91392	HAMPTON, TOWNSHIP OF
91396	HARKERS ISLAND, TOWNSHIP OF
91400	HARLOWE, TOWNSHIP OF
91404	HARNETT, TOWNSHIP OF
91408	HARRELL, TOWNSHIP OF
91412	HARRELLSVILLE, TOWNSHIP OF
91414	HARRIS, TOWNSHIP OF
91416	HARRIS, TOWNSHIP OF
91420	HASLETT, TOWNSHIP OF
91424	HATTERAS, TOWNSHIP OF
91428	HAW RIVER, TOWNSHIP OF
91432	HAWTREE, TOWNSHIP OF
91436	HAYESVILLE, TOWNSHIP OF
91438	HAYESVILLE, TOWNSHIP OF
91440	HEALING SPRING, TOWNSHIP OF
91442	HEATON, TOWNSHIP OF
91444	HECTORS CREEK, TOWNSHIP OF
91448	HELTON, TOWNSHIP OF
91452	HENDERSON, TOWNSHIP OF
91456	HENDERSONVILLE, TOWNSHIP OF
91460	HERRING, TOWNSHIP OF

91464	HERTFORD, TOWNSHIP OF
91468	HICKORY, TOWNSHIP OF
91472	HICKORY MOUNTAIN, TOWNSHIP OF
91476	HIGGINS, TOWNSHIP OF
91480	HIGHLANDS, TOWNSHIP OF
91484	HIGH POINT, TOWNSHIP OF
91488	HIGH SHOALS, TOWNSHIP OF
91492	HIGHTOWERS, TOWNSHIP OF
91496	HILLSBOROUGH, TOWNSHIP OF
91500	HIAWASSEE, TOWNSHIP OF
91504	HOGBACK, TOWNSHIP OF
91508	HOLLOW, TOWNSHIP OF
91512	HOLLOWAY, TOWNSHIP OF
91516	HOLLY, TOWNSHIP OF
91520	HOLLY GROVE, TOWNSHIP OF
91524	HOLLY SPRINGS, TOWNSHIP OF
91532	HOOKERTON, TOWNSHIP OF
91536	HOOPERS CREEK, TOWNSHIP OF
91540	HORSE CREEK, TOWNSHIP OF
91544	HOTHOUSE, TOWNSHIP OF
91548	HOUSE CREEK, TOWNSHIP OF
91552	HOWARDS CREEK, TOWNSHIP OF
91556	HUDSON, TOWNSHIP OF
91558	HUGHES, TOWNSHIP OF
91560	HUNTERS MILL, TOWNSHIP OF
91564	HUNTSVILLE, TOWNSHIP OF
91568	HURRICANE, TOWNSHIP OF
91572	ICARD, TOWNSHIP OF
91576	INDIAN SPRINGS, TOWNSHIP OF
91580	INDIAN WOODS, TOWNSHIP OF
91582	INGALLS, TOWNSHIP OF
91584	INGRAMS, TOWNSHIP OF
91588	INSTITUTE, TOWNSHIP OF
91592	IRON DUFF, TOWNSHIP OF
91596	IRONTON, TOWNSHIP OF
91600	ISLAND CREEK, TOWNSHIP OF
91604	IVY, TOWNSHIP OF
91608	IVY HILL, TOWNSHIP OF
91612	JACKS CREEK, TOWNSHIP OF
91616	JACKSON, TOWNSHIP OF

91620	JACKSON, TOWNSHIP OF
91624	JACKSON, TOWNSHIP OF
91628	JACKSON HILL, TOWNSHIP OF
91632	JACKSONVILLE, TOWNSHIP OF
91636	JACOBS FORK, TOWNSHIP OF
91640	JAMESTOWN, TOWNSHIP OF
91644	JAMESVILLE, TOWNSHIP OF
91648	JASON, TOWNSHIP OF
91652	JEFFERSON, TOWNSHIP OF
91656	JEFFERSON, TOWNSHIP OF
91660	JERUSALEM, TOWNSHIP OF
91664	JOBS CABIN, TOWNSHIP OF
91668	JOHNSONVILLE, TOWNSHIP OF
91672	JOHNS RIVER, TOWNSHIP OF
91676	JONAS RIDGE, TOWNSHIP OF
91680	JONATHAN CREEK, TOWNSHIP OF
91684	JUDKINS, TOWNSHIP OF
91688	KENANSVILLE, TOWNSHIP OF
91696	KERNERSVILLE, TOWNSHIP OF
91700	KINGS CREEK, TOWNSHIP OF
91704	KINSTON, TOWNSHIP OF
91708	KIRBY, TOWNSHIP OF
91712	KITTRELL, TOWNSHIP OF
91716	KNOBS, TOWNSHIP OF
91720	LAKE CREEK, TOWNSHIP OF
91724	LAKE LANDING, TOWNSHIP OF
91732	LANESBORO, TOWNSHIP OF
91736	LANES CREEK, TOWNSHIP OF
91740	LAUREL, TOWNSHIP OF
91744	LAUREL CREEK, TOWNSHIP OF
91748	LAUREL HILL, TOWNSHIP OF
91752	LEAKSVILLE, TOWNSHIP OF
91756	LEASBURG, TOWNSHIP OF
91760	LEBANON, TOWNSHIP OF
91764	LEES, TOWNSHIP OF
91772	LEESVILLE, TOWNSHIP OF
91776	LEICESTER, TOWNSHIP OF
91780	LENOIR, TOWNSHIP OF
91784	LEVEL CROSS, TOWNSHIP OF
91788	LEWIS FORK, TOWNSHIP OF

91792	LEWISVILLE, TOWNSHIP OF
91796	LEXINGTON, TOWNSHIP OF
91800	LIBERTY, TOWNSHIP OF
91804	LIBERTY, TOWNSHIP OF
91808	LILESVILLE, TOWNSHIP OF
91812	LILLINGTON, TOWNSHIP OF
91816	LIMESTONE, TOWNSHIP OF
91820	LIMESTONE, TOWNSHIP OF
91824	LINCOLNTON, TOWNSHIP OF
91832	LINVILLE, TOWNSHIP OF
91836	LISBON, TOWNSHIP OF
91840	LITAKER, TOWNSHIP OF
91844	LITTLE COHARIE, TOWNSHIP OF
91848	LITTLE RIVER, TOWNSHIP OF
91852	LITTLE RIVER, TOWNSHIP OF
91856	LITTLE RIVER, TOWNSHIP OF
91860	LITTLE RIVER, TOWNSHIP OF
91864	LITTLE RIVER, TOWNSHIP OF
91868	LITTLE RIVER, TOWNSHIP OF
91872	LITTLE ROCK CREEK, TOWNSHIP OF
91876	LITTLETON, TOWNSHIP OF
91880	LOCKE, TOWNSHIP OF
91884	LOCKWOODS FOLLY, TOWNSHIP OF
91888	LOCUST HILL, TOWNSHIP OF
91892	LOGAN STORE, TOWNSHIP OF
91896	LONG ACRE, TOWNSHIP OF
91900	LONG CREEK, TOWNSHIP OF
91904	LONG HILL, TOWNSHIP OF
91906	LOUISBURG, TOWNSHIP OF
91908	LOVELACE, TOWNSHIP OF
91912	LOVELADY, TOWNSHIP OF
91916	LOVELADY, TOWNSHIP OF
91920	LOWER CREEK, TOWNSHIP OF
91924	LOWER CREEK, TOWNSHIP OF
91928	LOWER FORK, TOWNSHIP OF
91932	LOWER HOMINY, TOWNSHIP OF
91936	LUMBER BRIDGE, TOWNSHIP OF
91940	LUMBERTON, TOWNSHIP OF
91944	MCDANIELS, TOWNSHIP OF
91948	MCLAUCHLIN, TOWNSHIP OF

91952	MADISON, TOWNSHIP OF
91956	MADISON, TOWNSHIP OF
91960	MAGNOLIA, TOWNSHIP OF
91964	MANCHESTER, TOWNSHIP OF
91968	MANEYS NECK, TOWNSHIP OF
91972	MANGUM, TOWNSHIP OF
91976	MANNINGS, TOWNSHIP OF
91980	MARIETTA, TOWNSHIP OF
91984	MARION, TOWNSHIP OF
91988	MARKS CREEK, TOWNSHIP OF
91992	MARKS CREEK, TOWNSHIP OF
91996	MARSH, TOWNSHIP OF
92000	MARSHALLBERG, TOWNSHIP OF
92004	MARSHVILLE, TOWNSHIP OF
92008	MASONBORO, TOWNSHIP OF
92012	MATTHEWS, TOWNSHIP OF
92016	MAXTON, TOWNSHIP OF
92020	MAYO, TOWNSHIP OF
92024	MEADOW, TOWNSHIP OF
92028	MEADOWS, TOWNSHIP OF
92032	MEAT CAMP, TOWNSHIP OF
92036	MEREDITH, TOWNSHIP OF
92040	MERRIMON, TOWNSHIP OF
92044	MERRY HILL, TOWNSHIP OF
92048	MICRO, TOWNSHIP OF
92056	MIDDLE CREEK, TOWNSHIP OF
92060	MIDDLE FORK, TOWNSHIP OF
92061	MIDDLE FORK I, TOWNSHIP OF
92062	MIDDLE FORK II, TOWNSHIP OF
92064	MIDWAY, TOWNSHIP OF
92068	MILLERS, TOWNSHIP OF
92072	GREENS CREEK, TOWNSHIP OF
92076	MILLS RIVER, TOWNSHIP OF
92080	MILTON, TOWNSHIP OF
92084	MINERAL SPRINGS, TOWNSHIP OF
92088	MINGO, TOWNSHIP OF
92090	MINNEAPOLIS, TOWNSHIP OF
92092	MINTONSVILLE, TOWNSHIP OF
92096	MITCHELL, TOWNSHIP OF
92100	MOCKSVILLE, TOWNSHIP OF

92104	MONROE, TOWNSHIP OF
92108	MONROE, TOWNSHIP OF
92110	MONTEZUMA, TOWNSHIP OF
92112	MONTFORD COVE, TOWNSHIP OF
92116	MORAVIAN FALLS, TOWNSHIP OF
92120	MOREHEAD, TOWNSHIP OF
92124	MOREHEAD, TOWNSHIP OF
92128	MORGAN, TOWNSHIP OF
92132	MORGAN, TOWNSHIP OF
92136	MORGANTON, TOWNSHIP OF
92140	MORVEN, TOWNSHIP OF
92144	MOSELEY HALL, TOWNSHIP OF
92148	MOUNTAIN, TOWNSHIP OF
92152	MOUNTAIN CREEK, TOWNSHIP OF
92156	MOUNT AIRY, TOWNSHIP OF
92160	MOUNT GILEAD, TOWNSHIP OF
92164	MOUNT HERMON, TOWNSHIP OF
92168	MOUNT TIRZAH, TOWNSHIP OF
92172	MOUNT ULLA, TOWNSHIP OF
92176	MOYOCK, TOWNSHIP OF
92180	MULBERRY, TOWNSHIP OF
92184	MULBERRY, TOWNSHIP OF
92188	MURFREESBORO, TOWNSHIP OF
92192	MURPHY, TOWNSHIP OF
92196	NAGS HEAD, TOWNSHIP OF
92200	NAHUNTA, TOWNSHIP OF
92204	NANTAHALA, TOWNSHIP OF
92208	NANTAHALA, TOWNSHIP OF
92212	NASHVILLE, TOWNSHIP OF
92216	NEBO, TOWNSHIP OF
92220	NEILLS CREEK, TOWNSHIP OF
92224	NEUSE, TOWNSHIP OF
92228	NEUSE, TOWNSHIP OF
92232	NEW BETHEL, TOWNSHIP OF
92236	NEW CASTLE, TOWNSHIP OF
92240	NEW HOPE, TOWNSHIP OF
92244	NEW HOPE, TOWNSHIP OF
92248	NEW HOPE, TOWNSHIP OF
92252	NEW HOPE, TOWNSHIP OF
92256	NEW HOPE, TOWNSHIP OF

92260	NEWLAND, TOWNSHIP OF
92262	NEWLAND NUMBER 1, TOWNSHIP OF
92263	NEWLAND NUMBER 2, TOWNSHIP OF
92264	NEW LIGHT, TOWNSHIP OF
92268	NEW MARKET, TOWNSHIP OF
92272	NEWPORT, TOWNSHIP OF
92276	NEW RIVER, TOWNSHIP OF
92280	NEW SALEM, TOWNSHIP OF
92284	NEWTON, TOWNSHIP OF
92288	NEWTON GROVE, TOWNSHIP OF
92292	NIXONTON, TOWNSHIP OF
92296	NORTH ALBEMARLE, TOWNSHIP OF
92300	NORTH BROOK, TOWNSHIP OF
92302	NORTH BUCK SHOALS, TOWNSHIP OF
92304	NORTH CATAWBA, TOWNSHIP OF
92308	NORTH CLINTON, TOWNSHIP OF
92312	NORTH COVE, TOWNSHIP OF
92314	NORTH FALL CREEK, TOWNSHIP OF
92316	NORTH FORK, TOWNSHIP OF
92320	NORTH FORK, TOWNSHIP OF
92321	NORTH KNOBS, TOWNSHIP OF
92322	NORTH LIBERTY, TOWNSHIP OF
92324	NORTHWEST, TOWNSHIP OF
92328	NORTH WHITAKERS, TOWNSHIP OF
92332	NORTH WILKESBORO, TOWNSHIP OF
92336	NOTLA, TOWNSHIP OF
92340	NUTBUSH, TOWNSHIP OF
92344	OAK GROVE, TOWNSHIP OF
92348	OAK HILL, TOWNSHIP OF
92352	OAKLAND, TOWNSHIP OF
92356	OAK LEVEL, TOWNSHIP OF
92360	OAK RIDGE, TOWNSHIP OF
92364	OBIDS, TOWNSHIP OF
92368	OCONEECHEE, TOWNSHIP OF
92372	OCRACOKE, TOWNSHIP OF
92376	OLD FIELDS, TOWNSHIP OF
92380	OLD FIELDS, TOWNSHIP OF
92384	OLD FORT, TOWNSHIP OF
92388	OLD RICHMOND, TOWNSHIP OF
92392	OLDS, TOWNSHIP OF

92396	OLD TOWN, TOWNSHIP OF
92400	OLIN, TOWNSHIP OF
92404	OLIVE HILL, TOWNSHIP OF
92408	O'NEALS, TOWNSHIP OF
92412	OPHIR, TOWNSHIP OF
92416	ORMONDS, TOWNSHIP OF
92420	ORRUM, TOWNSHIP OF
92424	OXFORD, TOWNSHIP OF
92428	PACTOLUS, TOWNSHIP OF
92432	PALMYRA, TOWNSHIP OF
92436	PANTEGO, TOWNSHIP OF
92440	PANTHER BRANCH, TOWNSHIP OF
92444	PARKTON, TOWNSHIP OF
92448	PARKVILLE, TOWNSHIP OF
92452	PATTERSON, TOWNSHIP OF
92456	PEAK CREEK, TOWNSHIP OF
92460	PEARCES MILL, TOWNSHIP OF
92468	PELHAM, TOWNSHIP OF
92472	PEMBROKE, TOWNSHIP OF
92476	PENSACOLA, TOWNSHIP OF
92480	PETERS CREEK, TOWNSHIP OF
92484	PHILADELPHUS, TOWNSHIP OF
92488	PIGEON, TOWNSHIP OF
92492	PIKEVILLE, TOWNSHIP OF
92496	PILOT, TOWNSHIP OF
92500	PINE LEVEL, TOWNSHIP OF
92502	PINEOLA, TOWNSHIP OF
92504	PINE SWAMP, TOWNSHIP OF
92508	PINEY CREEK, TOWNSHIP OF
92512	PINEY CREEK, TOWNSHIP OF
92516	PINEY GROVE, TOWNSHIP OF
92520	PINK HILL, TOWNSHIP OF
92524	PLAIN VIEW, TOWNSHIP OF
92528	PLEASANT GROVE, TOWNSHIP OF
92532	PLEASANT GROVE, TOWNSHIP OF
92536	PLEASANT HILL, TOWNSHIP OF
92538	PLUMTREE, TOWNSHIP OF
92540	PLYMOUTH, TOWNSHIP OF
92544	POND MOUNTAIN, TOWNSHIP OF
92548	POPLAR, TOWNSHIP OF

92552	POPLAR BRANCH, TOWNSHIP OF
92556	POPLAR POINT, TOWNSHIP OF
92560	PORTSMOUTH, TOWNSHIP OF
92564	PRATHERS CREEK, TOWNSHIP OF
92568	PRICE, TOWNSHIP OF
92572	PRICE CREEK, TOWNSHIP OF
92576	PROVIDENCE, TOWNSHIP OF
92580	PROVIDENCE, TOWNSHIP OF
92584	PROVIDENCE, TOWNSHIP OF
92586	PYATTE, TOWNSHIP OF
92588	QUAKER GAP, TOWNSHIP OF
92592	QUAKER MEADOWS, TOWNSHIP OF
92596	QUALLA, TOWNSHIP OF
92600	QUEWHIFFLE, TOWNSHIP OF
92604	RAEFORD, TOWNSHIP OF
92608	RAFT SWAMP, TOWNSHIP OF
92612	RALEIGH, TOWNSHIP OF
92616	RAMSEYTOWN, TOWNSHIP OF
92620	RANDLEMAN, TOWNSHIP OF
92624	RANSOM, TOWNSHIP OF
92628	REDDIES RIVER, TOWNSHIP OF
92632	RED HILL, TOWNSHIP OF
92636	RED OAK, TOWNSHIP OF
92640	RED SPRINGS, TOWNSHIP OF
92644	REEDY CREEK, TOWNSHIP OF
92648	REEMS CREEK, TOWNSHIP OF
92652	REIDSVILLE, TOWNSHIP OF
92656	RENNERT, TOWNSHIP OF
92660	REYNOLDSON, TOWNSHIP OF
92664	RICHLAND, TOWNSHIP OF
92668	RICHLAND, TOWNSHIP OF
92672	RICHLANDS, TOWNSHIP OF
92676	RICH SQUARE, TOWNSHIP OF
92680	RIDENHOUR, TOWNSHIP OF
92684	RIVER, TOWNSHIP OF
92688	RIVER, TOWNSHIP OF
92692	RIVERBEND, TOWNSHIP OF
92696	ROANOKE, TOWNSHIP OF
92700	ROANOKE, TOWNSHIP OF
92704	ROANOKE RAPIDS, TOWNSHIP OF

92708	ROARING CREEK, TOWNSHIP OF
92712	ROBERSONVILLE, TOWNSHIP OF
92716	ROCK CREEK, TOWNSHIP OF
92720	ROCK CREEK, TOWNSHIP OF
92724	ROCKFISH, TOWNSHIP OF
92728	ROCKFISH, TOWNSHIP OF
92732	ROCKFORD, TOWNSHIP OF
92736	ROCKINGHAM, TOWNSHIP OF
92740	ROCKY MOUNT, TOWNSHIP OF
92744	ROCKY POINT, TOWNSHIP OF
92748	ROCKY SPRINGS, TOWNSHIP OF
92752	ROSE HILL, TOWNSHIP OF
92756	ROSENEATH, TOWNSHIP OF
92760	ROWLAND, TOWNSHIP OF
92764	ROXBORO, TOWNSHIP OF
92768	ROXOBEL, TOWNSHIP OF
92772	RUFFIN, TOWNSHIP OF
92776	RUTHERFORDTON, TOWNSHIP OF
92780	SADDLETREE, TOWNSHIP OF
92784	SAINT JOHNS, TOWNSHIP OF
92788	SAINT MARYS, TOWNSHIP OF
92792	SAINT MATTHEWS, TOWNSHIP OF
92796	SAINT PAULS, TOWNSHIP OF
92800	SALEM, TOWNSHIP OF
92804	SALEM, TOWNSHIP OF
92808	SALEM CHAPEL, TOWNSHIP OF
92812	SALISBURY, TOWNSHIP OF
92816	SALUDA, TOWNSHIP OF
92820	SAND HILL, TOWNSHIP OF
92822	SANDY CREEK, TOWNSHIP OF
92824	SANDY CREEK, TOWNSHIP OF
92828	SANDY CREEK, TOWNSHIP OF
92832	SANDY MUSH, TOWNSHIP OF
92836	SANDY RIDGE, TOWNSHIP OF
92840	SARATOGA, TOWNSHIP OF
92844	SASSAFRAS FORK, TOWNSHIP OF
92848	SAULSTON, TOWNSHIP OF
92852	SAURATOWN, TOWNSHIP OF
92856	SAVANNAH, TOWNSHIP OF
92860	SCOTCH IRISH, TOWNSHIP OF

92864	SCOTLAND NECK, TOWNSHIP OF
92868	SCOTT CREEK, TOWNSHIP OF
92872	SCUPPERNONG, TOWNSHIP OF
92876	SCUPPERNONG, TOWNSHIP OF
92880	SEABOARD, TOWNSHIP OF
92884	SEA LEVEL, TOWNSHIP OF
92888	SELMA, TOWNSHIP OF
92892	SEVENTY-FIRST, TOWNSHIP OF
92896	SHADY GROVE, TOWNSHIP OF
92900	SHALLOTTE, TOWNSHIP OF
92904	SHANNON, TOWNSHIP OF
92908	SHARPES, TOWNSHIP OF
92912	SHARPESBURG, TOWNSHIP OF
92916	SHAWNEEHAW, TOWNSHIP OF
92920	SHILOH, TOWNSHIP OF
92924	SHILOH, TOWNSHIP OF
92928	SHINE, TOWNSHIP OF
92932	SHOAL CREEK, TOWNSHIP OF
92936	SHOALS, TOWNSHIP OF
92940	SHOCCO, TOWNSHIP OF
92944	SHOOTING CREEK, TOWNSHIP OF
92948	SILOAM, TOWNSHIP OF
92952	SILVER CREEK, TOWNSHIP OF
92956	SILVER HILL, TOWNSHIP OF
92960	SIMPSONVILLE, TOWNSHIP OF
92964	SIXPOUND, TOWNSHIP OF
92968	SKINNERSVILLE, TOWNSHIP OF
92972	SMITH, TOWNSHIP OF
92976	SMITH CREEK, TOWNSHIP OF
92980	SMITHFIELD, TOWNSHIP OF
92984	SMITHS, TOWNSHIP OF
92992	SMITHVILLE, TOWNSHIP OF
92996	SMOKY CREEK, TOWNSHIP OF
93000	SMYRNA, TOWNSHIP OF
93004	SMYRNA, TOWNSHIP OF
93008	SNAKEBITE, TOWNSHIP OF
93012	SNOW CREEK, TOWNSHIP OF
93016	SNOW CREEK, TOWNSHIP OF
93020	SNOW HILL, TOWNSHIP OF
93024	SOMERS, TOWNSHIP OF

93028	SOUTH ALBEMARLE, TOWNSHIP OF
93030	SOUTH BUCK SHOALS, TOWNSHIP OF
93032	SOUTH CLINTON, TOWNSHIP OF
93034	SOUTH FALL CREEK, TOWNSHIP OF
93036	SOUTH FORK, TOWNSHIP OF
93040	SOUTH FORK, TOWNSHIP OF
93041	SOUTH KNOBS, TOWNSHIP OF
93042	SOUTH LIBERTY, TOWNSHIP OF
93044	SOUTH MILLS, TOWNSHIP OF
93048	SOUTH POINT, TOWNSHIP OF
93052	SOUTH RIVER, TOWNSHIP OF
93056	SOUTH TOE, TOWNSHIP OF
93060	SOUTHWEST, TOWNSHIP OF
93064	SOUTH WESTFIELD, TOWNSHIP OF
93068	SOUTH WHITAKERS, TOWNSHIP OF
93072	SOUTH WILLIAMS, TOWNSHIP OF
93076	SPEIGHTS BRIDGE, TOWNSHIP OF
93080	SPRING HILL, TOWNSHIP OF
93084	SPRINGHILL, TOWNSHIP OF
93088	STACY, TOWNSHIP OF
93092	STANTON, TOWNSHIP OF
93096	STANTONSBURG, TOWNSHIP OF
93100	STAR, TOWNSHIP OF
93104	STATESVILLE, TOWNSHIP OF
93108	STECOAH, TOWNSHIP OF
93112	STEELE, TOWNSHIP OF
93116	STEELES, TOWNSHIP OF
93120	STERLINGS, TOWNSHIP OF
93124	STEWARTS CREEK, TOWNSHIP OF
93128	STEWARTS CREEK, TOWNSHIP OF
93132	STEWARTSVILLE, TOWNSHIP OF
93136	STONEWALL, TOWNSHIP OF
93140	STONEY CREEK, TOWNSHIP OF
93144	STONY CREEK, TOWNSHIP OF
93152	STONY FORK, TOWNSHIP OF
93156	STRAITS, TOWNSHIP OF
93160	STUMP SOUND, TOWNSHIP OF
93164	HONEYCUTT, TOWNSHIP OF
93168	SUGAR LOAF, TOWNSHIP OF
93172	SULPHUR SPRINGS, TOWNSHIP OF

93176	SUMNER, TOWNSHIP OF
93180	SWANNANOA, TOWNSHIP OF
93184	SWAN QUARTER, TOWNSHIP OF
93188	SWANSBORO, TOWNSHIP OF
93192	SWEETWATER, TOWNSHIP OF
93196	SWIFT CREEK, TOWNSHIP OF
93200	SWIFT CREEK, TOWNSHIP OF
93204	SYLVA, TOWNSHIP OF
93208	TABERNACLE, TOWNSHIP OF
93212	TALLY HO, TOWNSHIP OF
93216	TATUMS, TOWNSHIP OF
93224	TAYLORS BRIDGE, TOWNSHIP OF
93228	TAYLORSVILLE, TOWNSHIP OF
93232	THOMASVILLE, TOWNSHIP OF
93236	THOMPSON, TOWNSHIP OF
93240	TOE RIVER, TOWNSHIP OF
93244	TOISNOT, TOWNSHIP OF
93248	TOPSAIL, TOWNSHIP OF
93252	TOWN CREEK, TOWNSHIP OF
93296	RIVER, TOWNSHIP OF
93324	BOILING SPRINGS, TOWNSHIP OF
93340	WESTBROOK, TOWNSHIP OF
93376	WILLIAMSON, TOWNSHIP OF
93384	RIPPYS, TOWNSHIP OF
93416	MIDDLEBURG, TOWNSHIP OF
93436	KANNAPOLIS, TOWNSHIP OF
93440	KINGS MOUNTAIN, TOWNSHIP OF
93500	LEES MILL, TOWNSHIP OF
93504	WARLICK, TOWNSHIP OF
93528	STONEY CREEK, TOWNSHIP OF
93540	SHELBY, TOWNSHIP OF
93568	TRAPHILL, TOWNSHIP OF
93584	SANDY RUN, TOWNSHIP OF
93612	POLKVILLE, TOWNSHIP OF
93624	GARDNERS, TOWNSHIP OF
93640	DOUBLE SHOALS, TOWNSHIP OF
93664	KNOB CREEK, TOWNSHIP OF
93692	CASAR, TOWNSHIP OF
93752	TOWNSVILLE, TOWNSHIP OF
93760	TRENT, TOWNSHIP OF

93764	TRIANGLE, TOWNSHIP OF
93768	TRINITY, TOWNSHIP OF
93772	TROY, TOWNSHIP OF
93776	TRYON, TOWNSHIP OF
93780	TURKEY, TOWNSHIP OF
93784	TURNBULL, TOWNSHIP OF
93788	TURNERSBURG, TOWNSHIP OF
93792	TUSQUITTEE, TOWNSHIP OF
93796	TYRO, TOWNSHIP OF
93800	TYSON, TOWNSHIP OF
93804	UNION, TOWNSHIP OF
93808	UNION, TOWNSHIP OF
93812	UNION, TOWNSHIP OF
93816	UNION, TOWNSHIP OF
93820	UNION, TOWNSHIP OF
93824	UNION GROVE, TOWNSHIP OF
93828	UNITY, TOWNSHIP OF
93832	UPPER CREEK, TOWNSHIP OF
93836	UPPER FORK, TOWNSHIP OF
93840	UPPER HOMINY, TOWNSHIP OF
93844	UPPER LITTLE RIVER, TOWNSHIP OF
93848	UWHARRIE, TOWNSHIP OF
93852	VALLEYTOWN, TOWNSHIP OF
93856	VANCE, TOWNSHIP OF
93860	VANCE, TOWNSHIP OF
93864	VIENNA, TOWNSHIP OF
93868	WACCAMAW, TOWNSHIP OF
93872	WACCAMAW, TOWNSHIP OF
93876	WADESBORO, TOWNSHIP OF
93880	WAKE FOREST, TOWNSHIP OF
93884	WALNUT GROVE, TOWNSHIP OF
93888	WALNUT GROVE, TOWNSHIP OF
93892	WALNUT HILL, TOWNSHIP OF
93896	WARRENTON, TOWNSHIP OF
93900	WARSAW, TOWNSHIP OF
93904	WASHINGTON, TOWNSHIP OF
93908	WASHINGTON, TOWNSHIP OF
93912	WATAUGA, TOWNSHIP OF
93916	WATKINS, TOWNSHIP OF
93920	WAYNESVILLE, TOWNSHIP OF

93924	WEBSTER, TOWNSHIP OF
93928	WELCHES CREEK, TOWNSHIP OF
93932	WELDON, TOWNSHIP OF
93936	WENTWORTH, TOWNSHIP OF
93944	WESTERN PRONG, TOWNSHIP OF
93948	WESTFIELD, TOWNSHIP OF
93952	WEST HOWELLSVILLE, TOWNSHIP OF
93956	WEST JEFFERSON, TOWNSHIP OF
93960	WHITEHEAD, TOWNSHIP OF
93962	WHITEHOUSE, TOWNSHIP OF
93964	WHITE OAK, TOWNSHIP OF
93968	WHITE OAK, TOWNSHIP OF
93972	WHITE OAK, TOWNSHIP OF
93976	WHITE OAK, TOWNSHIP OF
93980	WHITE OAK, TOWNSHIP OF
93984	WHITE OAK, TOWNSHIP OF
93988	WHITES, TOWNSHIP OF
93992	WHITES CREEK, TOWNSHIP OF
93996	WHITE STORE, TOWNSHIP OF
94000	WHITEVILLE, TOWNSHIP OF
94004	WICCACANEE, TOWNSHIP OF
94008	WILDERS, TOWNSHIP OF
94012	WILKESBORO, TOWNSHIP OF
94016	WILLIAMS, TOWNSHIP OF
94020	WILLIAMS, TOWNSHIP OF
94024	WILLIAMS, TOWNSHIP OF
94028	WILLIAMSBORO, TOWNSHIP OF
94032	WILLIAMSBURG, TOWNSHIP OF
94040	WILLIAMSTON, TOWNSHIP OF
94044	WILMINGTON, TOWNSHIP OF
94048	WILSON, TOWNSHIP OF
94052	WILSON CREEK, TOWNSHIP OF
94056	WILSON MILLS, TOWNSHIP OF
94060	WILSONS CREEK, TOWNSHIP OF
94064	WINDSOR, TOWNSHIP OF
94068	WINSTON, TOWNSHIP OF
94072	WINTERVILLE, TOWNSHIP OF
94076	WINTON, TOWNSHIP OF
94086	WITTENBURG, TOWNSHIP OF
94088	WOLF PIT, TOWNSHIP OF

94092	WOLFSCRAPE, TOWNSHIP OF
94096	WOODINGTON, TOWNSHIP OF
94100	WOODSDALE, TOWNSHIP OF
94104	WOODVILLE, TOWNSHIP OF
94108	YADKIN, TOWNSHIP OF
94112	YADKIN COLLEGE, TOWNSHIP OF
94116	YADKIN VALLEY, TOWNSHIP OF
94120	YANCEYVILLE, TOWNSHIP OF
94124	YELLOW CREEK, TOWNSHIP OF
94150	YOUNGSVILLE, TOWNSHIP OF
99001	ALAMANCE COUNTY *
99003	ALEXANDER COUNTY *
99005	ALLEGHANY COUNTY *
99007	ANSON COUNTY *
99009	ASHE COUNTY *
99011	AVERY COUNTY *
99013	BEAUFORT COUNTY *
99015	BERTIE COUNTY *
99017	BLADEN COUNTY *
99019	BRUNSWICK COUNTY *
99021	BUNCOMBE COUNTY *
99023	BURKE COUNTY *
99025	CABARRUS COUNTY *
99027	CALDWELL COUNTY *
99029	CAMDEN COUNTY *
99031	CARTERET COUNTY *
99033	CASWELL COUNTY *
99035	CATAWBA COUNTY *
99037	CHATHAM COUNTY *
99039	CHEROKEE COUNTY *
99041	CHOWAN COUNTY *
99043	CLAY COUNTY *
99045	CLEVELAND COUNTY *
99047	COLUMBUS COUNTY *
99049	CRAVEN COUNTY *
99051	CUMBERLAND COUNTY *
99053	CURRITUCK COUNTY *
99055	DARE COUNTY *
99057	DAVIDSON COUNTY *
99059	DAVIE COUNTY *

99061	DUPLIN COUNTY *
99063	DURHAM COUNTY *
99065	EDGECOMBE COUNTY *
99067	FORSYTH COUNTY *
99069	FRANKLIN COUNTY *
99071	GASTON COUNTY *
99073	GATES COUNTY *
99075	GRAHAM COUNTY *
99077	GRANVILLE COUNTY *
99079	GREENE COUNTY *
99081	GUILFORD COUNTY *
99083	HALIFAX COUNTY *
99085	HARNETT COUNTY *
99087	HAYWOOD COUNTY *
99089	HENDERSON COUNTY *
99091	HERTFORD COUNTY *
99093	HOKE COUNTY *
99095	HYDE COUNTY *
99097	IREDELL COUNTY *
99099	JACKSON COUNTY *
99101	JOHNSTON COUNTY *
99103	JONES COUNTY *
99105	LEE COUNTY *
99107	LENOIR COUNTY *
99109	LINCOLN COUNTY *
99111	MCDOWELL COUNTY *
99113	MACON COUNTY *
99115	MADISON COUNTY *
99117	MARTIN COUNTY *
99119	MECKLENBURG COUNTY *
99121	MITCHELL COUNTY *
99123	MONTGOMERY COUNTY *
99125	MOORE COUNTY *
99127	NASH COUNTY *
99129	NEW HANOVER COUNTY *
99131	NORTHAMPTON COUNTY *
99133	ONSLOW COUNTY *
99135	ORANGE COUNTY *
99137	PAMLICO COUNTY *
99139	PASQUOTANK COUNTY *

99141	PENDER COUNTY *
99143	PERQUIMANS COUNTY *
99145	PERSON COUNTY *
99147	PITT COUNTY *
99149	POLK COUNTY *
99151	RANDOLPH COUNTY *
99153	RICHMOND COUNTY *
99155	ROBESON COUNTY *
99157	ROCKINGHAM COUNTY *
99159	ROWAN COUNTY *
99161	RUTHERFORD COUNTY *
99163	SAMPSON COUNTY *
99165	SCOTLAND COUNTY *
99167	STANLY COUNTY *
99169	STOKES COUNTY *
99171	SURRY COUNTY *
99173	SWAIN COUNTY *
99175	TRANSYLVANIA COUNTY *
99177	TYRRELL COUNTY *
99179	UNION COUNTY *
99181	VANCE COUNTY *
99183	WAKE COUNTY *
99185	WARREN COUNTY *
99187	WASHINGTON COUNTY *
99189	WATAUGA COUNTY *
99191	WAYNE COUNTY *
99193	WILKES COUNTY *
99195	WILSON COUNTY *
99197	YADKIN COUNTY *
99199	YANCEY COUNTY *
0990R	EASTERN CHEROKEE RESERVATION
TS050	BIG COVE COMMUNITY
TS065	BIRDTOWN COMMUNITY
TS120	CHEROKEE COUNTY COMMUNITY
TS600	PAINTTOWN COMMUNITY
TS750	SNOWBIRD COMMUNITY
TS850	WOLFTOWN COMMUNITY
TS880	YELLOWHILL COMMUNITY
FIELD	**ASSOCIATED FEATURE CLASS**
PLACEFIPS	S_POL_AR

PLACEFIPS	V_E_HYDRONODE
PLACEFIPS	V_P_HYDRONODE

D_PNP	
CODE	**DESCRIPTION**
1000	AREA IN ZONE D
1010	AREA NOT INCLUDED
1020	AREA OUTSIDE CORPORATE BOUNDARY
1030	AREA OUTSIDE COUNTY BOUNDARY
1040	NO SPECIAL FLOOD HAZARD AREAS
1050	OPEN WATER AREA
1060	NO SPECIAL FLOOD HAZARD AREAS; ALL AREAS WITHIN 0.2% ANNUAL CHANCE FLOODPLAIN
1070	OPEN WATER AREA IN BRUNSWICK COUNTY
1080	OPEN WATER AREA IN NEW HANOVER COUNTY
1090	OPEN WATER AREA IN PENDER COUNTY
1100	OPEN WATER AREA IN ONSLOW COUNTY
1110	OPEN WATER AREA IN CARTERET COUNTY
1120	OPEN WATER AREA IN HYDE COUNTY
1130	OPEN WATER AREA IN DARE COUNTY
1140	OPEN WATER AREA IN TYRRELL COUNTY
1150	OPEN WATER AREA IN WASHINGTON COUNTY
1160	OPEN WATER AREA IN BERTIE COUNTY
1170	OPEN WATER AREA IN CHOWAN COUNTY
1180	OPEN WATER AREA IN PERQUIMANS COUNTY
1190	OPEN WATER AREA IN PASQUOTANK COUNTY
1200	OPEN WATER AREA IN CAMDEN COUNTY
1210	OPEN WATER AREA IN CURRITUCK COUNTY
1220	OPEN WATER AREA IN PAMLICO COUNTY
1225	OPEN WATER AREA IN HERTFORD COUNTY
1230	NO SPECIAL FLOOD HAZARD AREAS IN ALAMANCE COUNTY
1240	NO SPECIAL FLOOD HAZARD AREAS IN ALEXANDER COUNTY
1250	NO SPECIAL FLOOD HAZARD AREAS IN ALLEGHANY COUNTY
1260	NO SPECIAL FLOOD HAZARD AREAS IN ANSON COUNTY
1270	NO SPECIAL FLOOD HAZARD AREAS IN ASHE COUNTY
1280	NO SPECIAL FLOOD HAZARD AREAS IN AVERY COUNTY
1290	NO SPECIAL FLOOD HAZARD AREAS IN BEAUFORT COUNTY
1300	NO SPECIAL FLOOD HAZARD AREAS IN BERTIE COUNTY
1310	NO SPECIAL FLOOD HAZARD AREAS IN BLADEN COUNTY
1320	NO SPECIAL FLOOD HAZARD AREAS IN BRUNSWICK COUNTY
1330	NO SPECIAL FLOOD HAZARD AREAS IN BUNCOMBE COUNTY
1340	NO SPECIAL FLOOD HAZARD AREAS IN BURKE COUNTY
1350	NO SPECIAL FLOOD HAZARD AREAS IN CABARRUS COUNTY

1360	NO SPECIAL FLOOD HAZARD AREAS IN CALDWELL COUNTY
1370	NO SPECIAL FLOOD HAZARD AREAS IN CAMDEN COUNTY
1380	NO SPECIAL FLOOD HAZARD AREAS IN CARTERET COUNTY
1390	NO SPECIAL FLOOD HAZARD AREAS IN CASWELL COUNTY
1400	NO SPECIAL FLOOD HAZARD AREAS IN CATAWBA COUNTY
1410	NO SPECIAL FLOOD HAZARD AREAS IN CHATHAM COUNTY
1420	NO SPECIAL FLOOD HAZARD AREAS IN CHEROKEE COUNTY
1430	NO SPECIAL FLOOD HAZARD AREAS IN CHOWAN COUNTY
1440	NO SPECIAL FLOOD HAZARD AREAS IN CLAY COUNTY
1450	NO SPECIAL FLOOD HAZARD AREAS IN CLEVELAND COUNTY
1460	NO SPECIAL FLOOD HAZARD AREAS IN COLUMBUS COUNTY
1470	NO SPECIAL FLOOD HAZARD AREAS IN CRAVEN COUNTY
1480	NO SPECIAL FLOOD HAZARD AREAS IN CUMBERLAND COUNTY
1490	NO SPECIAL FLOOD HAZARD AREAS IN CURRITUCK COUNTY
1500	NO SPECIAL FLOOD HAZARD AREAS IN DARE COUNTY
1510	NO SPECIAL FLOOD HAZARD AREAS IN DAVIDSON COUNTY
1520	NO SPECIAL FLOOD HAZARD AREAS IN DAVIE COUNTY
1530	NO SPECIAL FLOOD HAZARD AREAS IN DUPLIN COUNTY
1540	NO SPECIAL FLOOD HAZARD AREAS IN DURHAM COUNTY
1550	NO SPECIAL FLOOD HAZARD AREAS IN EDGECOMBE COUNTY
1560	NO SPECIAL FLOOD HAZARD AREAS IN FORSYTH COUNTY
1570	NO SPECIAL FLOOD HAZARD AREAS IN FRANKLIN COUNTY
1580	NO SPECIAL FLOOD HAZARD AREAS IN GASTON COUNTY
1590	NO SPECIAL FLOOD HAZARD AREAS IN GATES COUNTY
1600	NO SPECIAL FLOOD HAZARD AREAS IN GRAHAM COUNTY
1610	NO SPECIAL FLOOD HAZARD AREAS IN GRANVILLE COUNTY
1620	NO SPECIAL FLOOD HAZARD AREAS IN GREENE COUNTY
1630	NO SPECIAL FLOOD HAZARD AREAS IN GUILFORD COUNTY
1640	NO SPECIAL FLOOD HAZARD AREAS IN HALIFAX COUNTY
1650	NO SPECIAL FLOOD HAZARD AREAS IN HARNETT COUNTY
1660	NO SPECIAL FLOOD HAZARD AREAS IN HAYWOOD COUNTY
1670	NO SPECIAL FLOOD HAZARD AREAS IN HENDERSON COUNTY
1680	NO SPECIAL FLOOD HAZARD AREAS IN HERTFORD COUNTY
1690	NO SPECIAL FLOOD HAZARD AREAS IN HOKE COUNTY
1700	NO SPECIAL FLOOD HAZARD AREAS IN HYDE COUNTY
1710	NO SPECIAL FLOOD HAZARD AREAS IN IREDELL COUNTY
1720	NO SPECIAL FLOOD HAZARD AREAS IN JACKSON COUNTY
1730	NO SPECIAL FLOOD HAZARD AREAS IN JOHNSON COUNTY
1740	NO SPECIAL FLOOD HAZARD AREAS IN JONES COUNTY
1750	NO SPECIAL FLOOD HAZARD AREAS IN LEE COUNTY

1760	NO SPECIAL FLOOD HAZARD AREAS IN LENOIR COUNTY
1770	NO SPECIAL FLOOD HAZARD AREAS IN LINCOLN COUNTY
1780	NO SPECIAL FLOOD HAZARD AREAS IN MCDOWELL COUNTY
1790	NO SPECIAL FLOOD HAZARD AREAS IN MACON COUNTY
1800	NO SPECIAL FLOOD HAZARD AREAS IN MADISON COUNTY
1810	NO SPECIAL FLOOD HAZARD AREAS IN MARTIN COUNTY
1820	NO SPECIAL FLOOD HAZARD AREAS IN MECKLENBURG COUNTY
1830	NO SPECIAL FLOOD HAZARD AREAS IN MITCHELL COUNTY
1840	NO SPECIAL FLOOD HAZARD AREAS IN MONTGOMERY COUNTY
1850	NO SPECIAL FLOOD HAZARD AREAS IN MOORE COUNTY
1860	NO SPECIAL FLOOD HAZARD AREAS IN NASH COUNTY
1870	NO SPECIAL FLOOD HAZARD AREAS IN NEW HANOVER COUNTY
1880	NO SPECIAL FLOOD HAZARD AREAS IN NORTHAMPTON COUNTY
1890	NO SPECIAL FLOOD HAZARD AREAS IN ONSLOW COUNTY
1900	NO SPECIAL FLOOD HAZARD AREAS IN ORANGE COUNTY
1910	NO SPECIAL FLOOD HAZARD AREAS IN PAMLICO COUNTY
1920	NO SPECIAL FLOOD HAZARD AREAS IN PASQUOTANK COUNTY
1930	NO SPECIAL FLOOD HAZARD AREAS IN PENDER COUNTY
1940	NO SPECIAL FLOOD HAZARD AREAS IN PERQUIMANS COUNTY
1950	NO SPECIAL FLOOD HAZARD AREAS IN PERSON COUNTY
1960	NO SPECIAL FLOOD HAZARD AREAS IN PITT COUNTY
1970	NO SPECIAL FLOOD HAZARD AREAS IN POLK COUNTY
1980	NO SPECIAL FLOOD HAZARD AREAS IN RANDOLPH COUNTY
1990	NO SPECIAL FLOOD HAZARD AREAS IN RICHMOND COUNTY
2000	NO SPECIAL FLOOD HAZARD AREAS IN ROBESON COUNTY
2010	NO SPECIAL FLOOD HAZARD AREAS IN ROCKINGHAM COUNTY
2020	NO SPECIAL FLOOD HAZARD AREAS IN ROWAN COUNTY
2030	NO SPECIAL FLOOD HAZARD AREAS IN RUTHERFORD COUNTY
2040	NO SPECIAL FLOOD HAZARD AREAS IN SAMPSON COUNTY
2050	NO SPECIAL FLOOD HAZARD AREAS IN SCOTLAND COUNTY
2060	NO SPECIAL FLOOD HAZARD AREAS IN STANLY COUNTY
2070	NO SPECIAL FLOOD HAZARD AREAS IN STOKES COUNTY
2080	NO SPECIAL FLOOD HAZARD AREAS IN SURRY COUNTY
2090	NO SPECIAL FLOOD HAZARD AREAS IN SWAIN COUNTY
2100	NO SPECIAL FLOOD HAZARD AREAS IN TRANSYLVANIA COUNTY
2110	NO SPECIAL FLOOD HAZARD AREAS IN TYRRELL COUNTY
2120	NO SPECIAL FLOOD HAZARD AREAS IN UNION COUNTY
2130	NO SPECIAL FLOOD HAZARD AREAS IN VANCE COUNTY
2140	NO SPECIAL FLOOD HAZARD AREAS IN WAKE COUNTY
2150	NO SPECIAL FLOOD HAZARD AREAS IN WARREN COUNTY

2160	NO SPECIAL FLOOD HAZARD AREAS IN WASHINGTON COUNTY
2170	NO SPECIAL FLOOD HAZARD AREAS IN WATAUGA COUNTY
2180	NO SPECIAL FLOOD HAZARD AREAS IN WAYNE COUNTY
2190	NO SPECIAL FLOOD HAZARD AREAS IN WILKES COUNTY
2200	NO SPECIAL FLOOD HAZARD AREAS IN WILSON COUNTY
2210	NO SPECIAL FLOOD HAZARD AREAS IN YADKIN COUNTY
2220	NO SPECIAL FLOOD HAZARD AREAS IN YANCEY COUNTY
2230	UNKNOWN
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
PNP_REASON	L_PAN_REVIS

D_PPTYP	
CODE	**DESCRIPTION**
1000	90 DEGREE HEADWALL; CHAMFERED OR BEVELED INLET
1010	BEVELED
1020	CORRUGATED METAL BOX CULVERT
1030	FLARED WINGWALLS
1040	FLARED WINGWALLS AND INLET TOP EDGE BEVEL
1050	GROOVE END WITH HEADWALL
1060	HEADWALL
1070	MITERED TO SLOPE
1080	NON OFFSET FLARED WINGWALLS; 3/4 INCH CHAMFERED INLET
1090	OFFSET FLARED WINGWALLS; BEVELED EDGE AT TOP OF INLET
1100	OTHER
1110	PROJECTING FROM FILL
1120	ROUGH TAPERED INLET
1130	SKEWED HEADWALL; CHAMFERED OR BEVELED INLET
1140	SMOOTH TAPERED INLET
1150	SOCKET
1160	SQUARE EDGE WITH HEADWALL
1170	TAPERED INLET
1180	UNKNOWN
1190	WINGWALL
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
INTYP_LID	L_CULPP
OUTTYP_LID	L_CULPP
INTYP_LID	L_OTLPP
OUTTYP_LID	L_OTLPP

D_PROBABILITY_CLASS	
CODE	**DESCRIPTION**
1000	ENTERING
1010	EXITING
1020	PARALLEL
1030	NOT SPECIFIED
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
PARAM_LID	L_SURGE_PARAM

D_PROF_LBL_ADJUST	
CODE	**DESCRIPTION**
1000	LEFT
1010	RIGHT
1020	CENTER
1030	TOP
1040	MEDIUM
1050	BOTTOM
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
ADJUSTED	L_PROFIL_LABEL

D_PROF_LBL_ORIENT	
CODE	**DESCRIPTION**
1000	HORIZONTAL
1010	VERTICAL
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
TEXTDIR	L_PROFIL_LABEL

D_PROJ_UNIT	
CODE	**DESCRIPTION**
1000	FEET
1010	INTERNATIONAL FEET
1020	METERS
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
PROJ_UNIT	S_COMMUNITY_GROUP
PROJ_SUNIT	S_COMMUNITY_GROUP
PROJ_UNIT	S_MODEL_GROUP
PROJ_SUNIT	S_MODEL_GROUP

D_PROJECTION	
CODE	**DESCRIPTION**
1000	HARN STATE PLANE TRANSVERSE MERCATOR, ALABAMA EAST ZONE
1010	HARN STATE PLANE TRANSVERSE MERCATOR, ALABAMA WEST ZONE
1020	HARN STATE PLANE TRANSVERSE MERCATOR, ARIZONA CENTRAL ZONE
1030	HARN STATE PLANE TRANSVERSE MERCATOR, ARIZONA EAST ZONE
1040	HARN STATE PLANE TRANSVERSE MERCATOR, ARIZONA WEST ZONE
1050	HARN STATE PLANE LAMBERT CONFORMAL CONIC, CALIFORNIA I ZONE
1060	HARN STATE PLANE LAMBERT CONFORMAL CONIC, CALIFORNIA II ZONE
1070	HARN STATE PLANE LAMBERT CONFORMAL CONIC, CALIFORNIA III ZONE
1080	HARN STATE PLANE LAMBERT CONFORMAL CONIC, CALIFORNIA IV ZONE
1090	HARN STATE PLANE LAMBERT CONFORMAL CONIC, CALIFORNIA V ZONE
1100	HARN STATE PLANE LAMBERT CONFORMAL CONIC, CALIFORNIA VI ZONE
1110	HARN STATE PLANE LAMBERT CONFORMAL CONIC, COLORADO CENTRAL ZONE
1120	HARN STATE PLANE LAMBERT CONFORMAL CONIC, COLORADO NORTH ZONE
1130	HARN STATE PLANE LAMBERT CONFORMAL CONIC, COLORADO SOUTH ZONE
1140	HARN STATE PLANE LAMBERT CONFORMAL CONIC, CONNECTICUT ZONE
1150	HARN STATE PLANE TRANSVERSE MERCATOR, DELAWARE ZONE
1160	HARN STATE PLANE TRANSVERSE MERCATOR, FLORIDA EAST ZONE
1170	HARN STATE PLANE LAMBERT CONFORMAL CONIC, FLORIDA NORTH ZONE
1180	HARN STATE PLANE TRANSVERSE MERCATOR, FLORIDA WEST ZONE
1190	HARN STATE PLANE TRANSVERSE MERCATOR, GEORGIA EAST ZONE
1200	HARN STATE PLANE TRANSVERSE MERCATOR, GEORGIA WEST ZONE
1210	HARN STATE PLANE TRANSVERSE MERCATOR, HAWAII 1 ZONE
1220	HARN STATE PLANE TRANSVERSE MERCATOR, HAWAII 2 ZONE
1230	HARN STATE PLANE TRANSVERSE MERCATOR, HAWAII 3 ZONE
1240	HARN STATE PLANE TRANSVERSE MERCATOR, HAWAII 4 ZONE
1250	HARN STATE PLANE TRANSVERSE MERCATOR, HAWAII 5 ZONE
1260	HARN STATE PLANE TRANSVERSE MERCATOR, IDAHO CENTRAL ZONE
1270	HARN STATE PLANE TRANSVERSE MERCATOR, IDAHO EAST ZONE
1280	HARN STATE PLANE TRANSVERSE MERCATOR, IDAHO WEST ZONE
1290	HARN STATE PLANE TRANSVERSE MERCATOR, ILLINOIS EAST ZONE
1300	HARN STATE PLANE TRANSVERSE MERCATOR, ILLINOIS WEST ZONE
1310	HARN STATE PLANE TRANSVERSE MERCATOR, INDIANA EAST ZONE
1320	HARN STATE PLANE TRANSVERSE MERCATOR, INDIANA WEST ZONE
1330	HARN STATE PLANE LAMBERT CONFORMAL CONIC, KANSAS NORTH ZONE
1340	HARN STATE PLANE LAMBERT CONFORMAL CONIC, KANSAS SOUTH ZONE
1350	HARN STATE PLANE LAMBERT CONFORMAL CONIC, KENTUCKY NORTH ZONE
1360	HARN STATE PLANE LAMBERT CONFORMAL CONIC, KENTUCKY SOUTH ZONE

1370	HARN STATE PLANE LAMBERT CONFORMAL CONIC, LOUISIANA NORTH ZONE
1380	HARN STATE PLANE LAMBERT CONFORMAL CONIC, LOUISIANA SOUTH ZONE
1390	HARN STATE PLANE TRANSVERSE MERCATOR, MAINE EAST ZONE
1400	HARN STATE PLANE TRANSVERSE MERCATOR, MAINE WEST ZONE
1410	HARN STATE PLANE LAMBERT CONFORMAL CONIC, MARYLAND ZONE
1420	HARN STATE PLANE LAMBERT CONFORMAL CONIC, MASSACHUSETTS ISLAND ZONE
1430	HARN STATE PLANE LAMBERT CONFORMAL CONIC, MASSACHUSETTS MLAND ZONE
1440	HARN STATE PLANE LAMBERT CONFORMAL CONIC, MICHIGAN CENTRAL ZONE
1450	HARN STATE PLANE LAMBERT CONFORMAL CONIC, MICHIGAN NORTH ZONE
1460	HARN STATE PLANE LAMBERT CONFORMAL CONIC, MICHIGAN SOUTH ZONE
1470	HARN STATE PLANE TRANSVERSE MERCATOR, MISSISSIPPI EAST ZONE
1480	HARN STATE PLANE TRANSVERSE MERCATOR, MISSISSIPPI WEST ZONE
1490	HARN STATE PLANE LAMBERT CONFORMAL CONIC, MONTANA ZONE
1500	HARN STATE PLANE LAMBERT CONFORMAL CONIC, NEBRASKA ZONE
1510	HARN STATE PLANE TRANSVERSE MERCATOR, NEVADA CENTRAL ZONE
1520	HARN STATE PLANE TRANSVERSE MERCATOR, NEVADA EAST ZONE
1530	HARN STATE PLANE TRANSVERSE MERCATOR, NEVADA WEST ZONE
1540	HARN STATE PLANE LAMBERT CONFORMAL CONIC, NEW HAMPSHIRE ZONE
1550	HARN STATE PLANE TRANSVERSE MERCATOR, NEW JERSEY ZONE
1560	HARN STATE PLANE TRANSVERSE MERCATOR, NEW MEXICO CENTRAL ZONE
1570	HARN STATE PLANE TRANSVERSE MERCATOR, NEW MEXICO EAST ZONE
1580	HARN STATE PLANE TRANSVERSE MERCATOR, NEW MEXICO WEST ZONE
1590	HARN STATE PLANE TRANSVERSE MERCATOR, NEW YORK CENTRAL ZONE
1600	HARN STATE PLANE TRANSVERSE MERCATOR, NEW YORK EAST ZONE
1610	HARN STATE PLANE LAMBERT CONFORMAL CONIC, NEW YORK LONG ISLAND ZONE
1620	HARN STATE PLANE TRANSVERSE MERCATOR, NEW YORK WEST ZONE
1630	HARN STATE PLANE LAMBERT CONFORMAL CONIC, NORTH DAKOTA NORTH ZONE
1640	HARN STATE PLANE LAMBERT CONFORMAL CONIC, NORTH DAKOTA SOUTH ZONE
1650	HARN STATE PLANE LAMBERT CONFORMAL CONIC, OHIO NORTH ZONE
1660	HARN STATE PLANE LAMBERT CONFORMAL CONIC, OHIO SOUTH ZONE
1670	HARN STATE PLANE LAMBERT CONFORMAL CONIC, OKLAHOMA NORTH ZONE
1680	HARN STATE PLANE LAMBERT CONFORMAL CONIC, OKLAHOMA SOUTH ZONE
1690	HARN STATE PLANE LAMBERT CONFORMAL CONIC, OREGON NORTH ZONE
1700	HARN STATE PLANE LAMBERT CONFORMAL CONIC, OREGON SOUTH ZONE
1710	HARN STATE PLANE LAMBERT CONFORMAL CONIC, PR VIRGIN ISLANDS ZONE
1720	HARN STATE PLANE TRANSVERSE MERCATOR, RHODE ISLAND ZONE
1730	HARN STATE PLANE LAMBERT CONFORMAL CONIC, SOUTH DAKOTA NORTH ZONE
1740	HARN STATE PLANE LAMBERT CONFORMAL CONIC, SOUTH DAKOTA SOUTH ZONE
1750	HARN STATE PLANE LAMBERT CONFORMAL CONIC, TENNESSEE ZONE
1760	HARN STATE PLANE LAMBERT CONFORMAL CONIC, TEXAS CENTRAL ZONE

1770	HARN STATE PLANE LAMBERT CONFORMAL CONIC, TEXAS NORTH CENTRAL ZONE
1780	HARN STATE PLANE LAMBERT CONFORMAL CONIC, TEXAS NORTH ZONE
1790	HARN STATE PLANE LAMBERT CONFORMAL CONIC, TEXAS SOUTH CENTRAL ZONE
1800	HARN STATE PLANE LAMBERT CONFORMAL CONIC, TEXAS SOUTH ZONE
1810	HARN STATE PLANE LAMBERT CONFORMAL CONIC, UTAH CENTRAL ZONE
1820	HARN STATE PLANE LAMBERT CONFORMAL CONIC, UTAH NORTH ZONE
1830	HARN STATE PLANE LAMBERT CONFORMAL CONIC, UTAH SOUTH ZONE
1840	HARN STATE PLANE TRANSVERSE MERCATOR, VERMONT ZONE
1850	HARN STATE PLANE LAMBERT CONFORMAL CONIC, VIRGINIA NORTH ZONE
1860	HARN STATE PLANE LAMBERT CONFORMAL CONIC, VIRGINIA SOUTH ZONE
1870	HARN STATE PLANE LAMBERT CONFORMAL CONIC, WASHINGTON NORTH ZONE
1880	HARN STATE PLANE LAMBERT CONFORMAL CONIC, WASHINGTON SOUTH ZONE
1890	HARN STATE PLANE LAMBERT CONFORMAL CONIC, WEST VIRGINIA NORTH ZONE
1900	HARN STATE PLANE LAMBERT CONFORMAL CONIC, WEST VIRGINIA SOUTH ZONE
1910	HARN STATE PLANE LAMBERT CONFORMAL CONIC, WISCONSIN CENTRAL ZONE
1920	HARN STATE PLANE LAMBERT CONFORMAL CONIC, WISCONSIN NORTH ZONE
1930	HARN STATE PLANE LAMBERT CONFORMAL CONIC, WISCONSIN SOUTH ZONE
1940	HARN STATE PLANE TRANSVERSE MERCATOR, WYOMING EAST ZONE
1950	HARN STATE PLANE TRANSVERSE MERCATOR, WYOMING EAST CENTRAL ZONE
1960	HARN STATE PLANE TRANSVERSE MERCATOR, WYOMING WEST CENTRAL ZONE
1970	HARN STATE PLANE TRANSVERSE MERCATOR, WYOMING WEST ZONE
1980	STATE PLANE TRANSVERSE MERCATOR ALABAMA EAST ZONE
1990	STATE PLANE TRANSVERSE MERCATOR, ALABAMA WEST ZONE
2000	STATE PLANE HOTINE OBLIQUE MERCATOR, ALASKA 1 ZONE
2010	STATE PLANE LAMBERT CONFORMAL CONIC, ALASKA 10 ZONE
2020	STATE PLANE TRANSVERSE MERCATOR, ALASKA 2 ZONE
2030	STATE PLANE TRANSVERSE MERCATOR, ALASKA 3 ZONE
2040	STATE PLANE TRANSVERSE MERCATOR, ALASKA 4 ZONE
2050	STATE PLANE TRANSVERSE MERCATOR, ALASKA 5 ZONE
2060	STATE PLANE TRANSVERSE MERCATOR, ALASKA 6 ZONE
2070	STATE PLANE TRANSVERSE MERCATOR, ALASKA 7 ZONE
2080	STATE PLANE TRANSVERSE MERCATOR, ALASKA 8 ZONE
2090	STATE PLANE TRANSVERSE MERCATOR, ALASKA 9 ZONE
2100	STATE PLANE TRANSVERSE MERCATOR, ARIZONA CENTRAL ZONE
2110	STATE PLANE TRANSVERSE MERCATOR, ARIZONA EAST ZONE
2120	STATE PLANE TRANSVERSE MERCATOR, ARIZONA WEST ZONE
2130	STATE PLANE LAMBERT CONFORMAL CONIC, ARKANSAS NORTH ZONE
2140	STATE PLANE LAMBERT CONFORMAL CONIC, ARKANSAS SOUTH ZONE
2150	STATE PLANE LAMBERT CONFORMAL CONIC, CALIFORNIA I ZONE
2160	STATE PLANE LAMBERT CONFORMAL CONIC, CALIFORNIA II ZONE

2170	STATE PLANE LAMBERT CONFORMAL CONIC, CALIFORNIA III ZONE
2180	STATE PLANE LAMBERT CONFORMAL CONIC, CALIFORNIA IV ZONE
2190	STATE PLANE LAMBERT CONFORMAL CONIC, CALIFORNIA V ZONE
2200	STATE PLANE LAMBERT CONFORMAL CONIC, CALIFORNIA VI ZONE
2210	STATE PLANE LAMBERT CONFORMAL CONIC, COLORADO CENTRAL ZONE
2220	STATE PLANE LAMBERT CONFORMAL CONIC, COLORADO NORTH ZONE
2230	STATE PLANE LAMBERT CONFORMAL CONIC, COLORADO SOUTH ZONE
2240	STATE PLANE LAMBERT CONFORMAL CONIC, CONNECTICUT ZONE
2250	STATE PLANE TRANSVERSE MERCATOR, DELAWARE ZONE
2260	STATE PLANE TRANSVERSE MERCATOR, FLORIDA EAST ZONE
2270	STATE PLANE LAMBERT CONFORMAL CONIC, FLORIDA NORTH ZONE
2280	STATE PLANE TRANSVERSE MERCATOR, FLORIDA WEST ZONE
2290	STATE PLANE TRANSVERSE MERCATOR, GEORGIA EAST ZONE
2300	STATE PLANE TRANSVERSE MERCATOR, GEORGIA WEST ZONE
2310	STATE PLANE POLYCONIC, GUAM ZONE
2320	STATE PLANE TRANSVERSE MERCATOR, HAWAII 1 ZONE
2330	STATE PLANE TRANSVERSE MERCATOR, HAWAII 2 ZONE
2340	STATE PLANE TRANSVERSE MERCATOR, HAWAII 3 ZONE
2350	STATE PLANE TRANSVERSE MERCATOR, HAWAII 4 ZONE
2360	STATE PLANE TRANSVERSE MERCATOR, HAWAII 5 ZONE
2370	STATE PLANE TRANSVERSE MERCATOR, IDAHO CENTRAL ZONE
2380	STATE PLANE TRANSVERSE MERCATOR, IDAHO EAST ZONE
2390	STATE PLANE TRANSVERSE MERCATOR, IDAHO WEST ZONE
2400	STATE PLANE TRANSVERSE MERCATOR, ILLINOIS EAST ZONE
2410	STATE PLANE TRANSVERSE MERCATOR, ILLINOIS WEST ZONE
2420	STATE PLANE TRANSVERSE MERCATOR, INDIANA EAST ZONE
2430	STATE PLANE TRANSVERSE MERCATOR, INDIANA WEST ZONE
2440	STATE PLANE LAMBERT CONFORMAL CONIC, IOWA NORTH ZONE
2450	STATE PLANE LAMBERT CONFORMAL CONIC, IOWA SOUTH ZONE
2460	STATE PLANE LAMBERT CONFORMAL CONIC, KANSAS NORTH ZONE
2470	STATE PLANE LAMBERT CONFORMAL CONIC, KANSAS SOUTH ZONE
2480	STATE PLANE LAMBERT CONFORMAL CONIC, KENTUCKY ZONE
2490	STATE PLANE LAMBERT CONFORMAL CONIC, KENTUCKY NORTH ZONE
2500	STATE PLANE LAMBERT CONFORMAL CONIC, KENTUCKY SOUTH ZONE
2510	STATE PLANE LAMBERT CONFORMAL CONIC, LOUISIANA NORTH ZONE
2520	STATE PLANE LAMBERT CONFORMAL CONIC, LOUISIANA SOUTH ZONE
2530	STATE PLANE TRANSVERSE MERCATOR, MAINE EAST ZONE
2540	STATE PLANE TRANSVERSE MERCATOR, MAINE WEST ZONE
2550	STATE PLANE LAMBERT CONFORMAL CONIC, MARYLAND ZONE
2560	STATE PLANE LAMBERT CONFORMAL CONIC, MASSACHUSETTS ISLAND ZONE

2570	STATE PLANE LAMBERT CONFORMAL CONIC, MASSACHUSETTS MLAND ZONE
2580	STATE PLANE LAMBERT CONFORMAL CONIC, MICHIGAN CENTRAL ZONE
2590	STATE PLANE LAMBERT CONFORMAL CONIC, MICHIGAN NORTH ZONE
2600	STATE PLANE LAMBERT CONFORMAL CONIC, MICHIGAN SOUTH ZONE
2610	STATE PLANE LAMBERT CONFORMAL CONIC, MINNESOTA CENTRAL ZONE
2620	STATE PLANE LAMBERT CONFORMAL CONIC, MINNESOTA NORTH ZONE
2630	STATE PLANE LAMBERT CONFORMAL CONIC, MINNESOTA SOUTH ZONE
2640	STATE PLANE TRANSVERSE MERCATOR, MISSISSIPPI EAST ZONE
2650	STATE PLANE TRANSVERSE MERCATOR, MISSISSIPPI WEST ZONE
2660	STATE PLANE TRANSVERSE MERCATOR, MISSOURI CENTRAL ZONE
2670	STATE PLANE TRANSVERSE MERCATOR, MISSOURI EAST ZONE
2680	STATE PLANE TRANSVERSE MERCATOR, MISSOURI WEST ZONE
2690	STATE PLANE LAMBERT CONFORMAL CONIC, MONTANA ZONE
2700	STATE PLANE LAMBERT CONFORMAL CONIC, NEBRASKA ZONE
2710	STATE PLANE TRANSVERSE MERCATOR, NEVADA CENTRAL ZONE
2720	STATE PLANE TRANSVERSE MERCATOR, NEVADA EAST ZONE
2730	STATE PLANE TRANSVERSE MERCATOR, NEVADA WEST ZONE
2740	STATE PLANE LAMBERT CONFORMAL CONIC, NEW HAMPSHIRE ZONE
2750	STATE PLANE TRANSVERSE MERCATOR, NEW JERSEY ZONE
2760	STATE PLANE TRANSVERSE MERCATOR, NEW MEXICO CENTRAL ZONE
2770	STATE PLANE TRANSVERSE MERCATOR, NEW MEXICO EAST ZONE
2780	STATE PLANE TRANSVERSE MERCATOR, NEW MEXICO WEST ZONE
2790	STATE PLANE TRANSVERSE MERCATOR, NEW YORK CENTRAL ZONE
2800	STATE PLANE TRANSVERSE MERCATOR, NEW YORK EAST ZONE
2810	STATE PLANE LAMBERT CONFORMAL CONIC, NEW YORK LONG ISLAND ZONE
2820	STATE PLANE TRANSVERSE MERCATOR, NEW YORK WEST ZONE
2830	STATE PLANE LAMBERT CONFORMAL CONIC, NORTH CAROLINA ZONE
2840	STATE PLANE LAMBERT CONFORMAL CONIC, NORTH DAKOTA NORTH ZONE
2850	STATE PLANE LAMBERT CONFORMAL CONIC, NORTH DAKOTA SOUTH ZONE
2860	STATE PLANE LAMBERT CONFORMAL CONIC, OHIO NORTH ZONE
2870	STATE PLANE LAMBERT CONFORMAL CONIC, OHIO SOUTH ZONE
2880	STATE PLANE LAMBERT CONFORMAL CONIC, OKLAHOMA NORTH ZONE
2890	STATE PLANE LAMBERT CONFORMAL CONIC, OKLAHOMA SOUTH ZONE
2900	STATE PLANE LAMBERT CONFORMAL CONIC, OREGON NORTH ZONE
2910	STATE PLANE LAMBERT CONFORMAL CONIC, OREGON SOUTH ZONE
2920	STATE PLANE LAMBERT CONFORMAL CONIC, PENNSYLVANIA NORTH ZONE
2930	STATE PLANE LAMBERT CONFORMAL CONIC, PENNSYLVANIA SOUTH ZONE
2940	STATE PLANE LAMBERT CONFORMAL CONIC, PR VIRGIN ISLANDS ZONE
2950	STATE PLANE TRANSVERSE MERCATOR, RHODE ISLAND ZONE
2960	STATE PLANE LAMBERT CONFORMAL CONIC, SOUTH CAROLINA ZONE

2970	STATE PLANE LAMBERT CONFORMAL CONIC, SOUTH DAKOTA NORTH ZONE
2980	STATE PLANE LAMBERT CONFORMAL CONIC, SOUTH DAKOTA SOUTH ZONE
2990	STATE PLANE LAMBERT CONFORMAL CONIC, TENNESSEE ZONE
3000	STATE PLANE LAMBERT CONFORMAL CONIC, TEXAS CENTRAL ZONE
3010	STATE PLANE LAMBERT CONFORMAL CONIC, TEXAS NORTH CENTRAL ZONE
3020	STATE PLANE LAMBERT CONFORMAL CONIC, TEXAS NORTH ZONE
3030	STATE PLANE LAMBERT CONFORMAL CONIC, TEXAS SOUTH CENTRAL ZONE
3040	STATE PLANE LAMBERT CONFORMAL CONIC, TEXAS SOUTH ZONE
3050	STATE PLANE LAMBERT CONFORMAL CONIC, UTAH CENTRAL ZONE
3060	STATE PLANE LAMBERT CONFORMAL CONIC, UTAH NORTH ZONE
3070	STATE PLANE LAMBERT CONFORMAL CONIC, UTAH SOUTH ZONE
3080	STATE PLANE TRANSVERSE MERCATOR, VERMONT ZONE
3090	STATE PLANE LAMBERT CONFORMAL CONIC, VIRGINIA NORTH ZONE
3100	STATE PLANE LAMBERT CONFORMAL CONIC, VIRGINIA SOUTH ZONE
3110	STATE PLANE LAMBERT CONFORMAL CONIC, WASHINGTON NORTH ZONE
3120	STATE PLANE LAMBERT CONFORMAL CONIC, WASHINGTON SOUTH ZONE
3130	STATE PLANE LAMBERT CONFORMAL CONIC, WEST VIRGINIA NORTH ZONE
3140	STATE PLANE LAMBERT CONFORMAL CONIC, WEST VIRGINIA SOUTH ZONE
3150	STATE PLANE LAMBERT CONFORMAL CONIC, WISCONSIN CENTRAL ZONE
3160	STATE PLANE LAMBERT CONFORMAL CONIC, WISCONSIN NORTH ZONE
3170	STATE PLANE LAMBERT CONFORMAL CONIC, WISCONSIN SOUTH ZONE
3180	STATE PLANE TRANSVERSE MERCATOR, WYOMING EAST CENTRAL ZONE
3190	STATE PLANE TRANSVERSE MERCATOR, WYOMING EAST ZONE
3200	STATE PLANE TRANSVERSE MERCATOR, WYOMING WEST CENTRAL ZONE
3210	STATE PLANE TRANSVERSE MERCATOR, WYOMING WEST ZONE
3220	STATE PLANE LAMBERT CONFORMAL CONIC, AMERICAN SAMOA ZONE
3230	STATE PLANE LAMBERT CONFORMAL CONIC, PUERTO RICO ZONE
3240	STATE PLANE LAMBERT CONFORMAL CONIC, PR VIRGIN I ST CROIX ZONE
3250	UTM
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
PROJECTION	S_COMMUNITY_GROUP
PROJ_SECND	S_COMMUNITY_GROUP
PROJECTION	S_MODEL_GROUP
PROJ_SECND	S_MODEL_GROUP

D_QUADRANT	
CODE	**DESCRIPTION**
1000	NW
1010	NE
1020	SW
1030	SE
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
QUAD_COR	S_DATUM_CONV_PT
QUAD_COR	V_DATUM_CONV_PT

D_RATE_UNIT	
CODE	**DESCRIPTION**
1000	STORMS/NAUTICAL MILES/YEAR
FIELD	**ASSOCIATED FEATURE CLASS**
RATE_UNIT	L_SURGE_PARAM

D_RD_STAT	
CODE	**DESCRIPTION**
1000	PAVED
1010	PROPOSED
1020	UNDER CONSTRUCTION
1030	UNIMPROVED
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
RD_S_LID	S_TRNSPORT_LN

D_REASON	
CODE	DESCRIPTION
1000	NEW STUDY
1010	BACKWATER EFFECT FROM NEW STUDY
1020	SPECIAL PROBLEM REPORT
1030	APPEAL
1040	COMMENT
1050	NCFMP ADJUSTMENT/MODIFICATION
FIELD	ASSOCIATED FEATURE CLASS
REASON	S_REVISIONS
REASON	V_P_REVISIONS

D_RISKRASTER	
CODE	DESCRIPTION
1000	DEPTH
1010	PAC
1020	WSEL
1030	WAVE HEIGHT
1040	P30
NP	NP
FIELD	ASSOCIATED FEATURE CLASS
RASTER_TYP	L_RASTER_MAPPING

D_RIVERBASIN	
CODE	**DESCRIPTION**
BR	BROAD
CF	CAPE FEAR
CO	CHOWAN
CT	CATAWBA
FB	FRENCH BROAD
HI	HIWASSEE
LT	LITTLE TENNESSEE
LU	LUMBER
NU	NEUSE
NW	NEW
PS	PASQUOTANK
RN	ROANOKE
SV	SAVANNAH
TP	TAR-PAMLICO
WO	WHITE OAK
WT	WATAUGA
YD	YADKIN
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
RIVERBASIN	L_MEETINGS

D_ROUTETY	
CODE	**DESCRIPTION**
1000	COUNTY HIGHWAY
1010	INTERSTATE HIGHWAY
1020	LOCAL
1030	STATE HIGHWAY
1040	STATE ROUTE
1050	US HIGHWAY
FIELD	**ASSOCIATED FEATURE CLASS**
ROUTETY	S_TRNSPORT_LN

D_RUNUP_MDL	
CODE	**DESCRIPTION**
1000	ACES 1.07 (1992)
1010	CEM – OTHER (2003)
1020	CHAMP 2.0
1030	DIM
1040	EROSION (1998)
1050	GLWRM (1992)
1060	RUNUP 2.0
1070	SPM RUNUP
1080	TAW METHOD
FIELD	**ASSOCIATED FEATURE CLASS**
RUNUP_LID	S_CSTMODEL
RUNUP_LID	V_E_CSTMODEL
RUNUP_LID	V_P_CSTMODEL

D_SCALE	
CODE	**DESCRIPTION**
1000	6000
1010	12000
1020	24000
1030	10000
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
SCALE_LID	S_FIRMPAN
SRCSCALE	METADATA

D_SFHALIMIT	
CODE	**DESCRIPTION**
1000	SWEL
1030	PFD
1040	RUNUP EXTENT
1050	WAVE OVERTOPPING SPLASH ZONE
1060	WHAFIS
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
SFHALIMIT	S_CSTTSCTLN
SFHALIMIT	V_E_CSTTSCTLN
SFHALIMIT	V_P_CSTTSCTLN

D_SHPTYP	
CODE	**DESCRIPTION**
1000	ARCH
1010	BOX
1020	CIRCULAR
1030	CONSPAN ARCH
1040	ELLIPTICAL
1050	HIGH ARCH
1060	LOW ARCH
1070	OCTAGONAL
1080	OTHER
1090	PIPE ARCH
1100	RECTANGULAR
1110	SEMI-CIRCLE
1120	TRAPEZOIDAL
1130	UNKNOWN
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
SHPTYP_LID	L_APXCUL
RSRHLSP_ID	L_APXRSR
EXPSHPT_ID	L_APXRSR
RSRSHPT_ID	L_APXRSR
SHPTYP_LID	L_CULPP
SHPTYP_LID	L_ORFC
SHPTYP_LID	L_OTLPP
SHPTYP_LID	L_PIER
SHPTYP_LID	L_RSRBRL
CHAN_SHAPE	S_CHANNEL

D_SHR_ROUGH	
CODE	**DESCRIPTION**
1000	VERY LOW
1010	LOW
1020	MODERATE
1030	HIGH
1040	VERY HIGH
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
SHR_LID	S_CSTTSCTLN

D_SHR_TYP	
CODE	**DESCRIPTION**
1000	ZERO FOOT CONTOUR FIELD SURVEY
1010	ZERO FOOT CONTOUR LIDAR/SHOALS
1020	ZERO FOOT CONTOUR REFERENCED TO TIDAL DATUM
1030	NOAA SHORELINE
1040	OTHER SOURCE
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
SHRTYP_LID	S_SHORE_LN

D_STATE_FIPS	
CODE	DESCRIPTION
01	ALABAMA
02	ALASKA
04	ARKANSAS
05	ARIZONA
06	CALIFORNIA
08	COLORADO
09	CONNECTICUT
10	DELAWARE
11	DISTRICT OF COLUMBIA
12	FLORIDA
13	GEORGIA
15	HAWAII
16	IDAHO
17	ILLINOIS
18	INDIANA
19	IOWA
20	KANSAS
21	KENTUCKY
22	LOUISIANA
23	MAINE
24	MARYLAND
25	MASSACHUSETTS
26	MICHIGAN
27	MINNESOTA
28	MISSISSIPPI
29	MISSOURI
30	MONTANA
31	NEBRASKA
32	NEVADA
33	NEW HAMPSHIRE
34	NEW JERSEY
35	NEW MEXICO
36	NEW YORK
37	NORTH CAROLINA
38	NORTH DAKOTA
39	OHIO
40	OKLAHOMA

41	OREGON
42	PENNSYLVANIA
44	RHODE ISLAND
45	SOUTH CAROLINA
46	SOUTH DAKOTA
47	TENNESSEE
48	TEXAS
49	UTAH
50	VERMONT
51	VIRGINIA
53	WASHINGTON
54	WEST VIRGINIA
55	WISCONSIN
56	WYOMING
60	AMERICAN SAMOA
64	MICRONESIA
66	GUAM
68	MARSHALL ISLANDS
69	NORTHERN MARIANA ISLANDS
70	PALAU
72	PUERTO RICO
74	US MINOR ISLANDS
78	VIRGIN ISLANDS
NP	NP
FIELD	ASSOCIATED FEATURE CLASS
ST_FIPS	S_DISCOVERY_MAP
ST_FIPS	S_FIN_STUDY_AR
ST_FIPS	S_FIRM_PAN
ST_FIPS	S_POL_AR
ST_FIPS	V_E_CBRS
ST_FIPS	V_E_CSTMODEL
ST_FIPS	V_E_FLD_HAZ_AR
ST_FIPS	V_E_FLD_HAZ_LN
ST_FIPS	V_E_FLOOD_PROBLEMS
ST_FIPS	V_E_HWM
ST_FIPS	V_E_HYDRABFE
ST_FIPS	V_E_HYDRACROSSSECTION
ST_FIPS	V_E_HYDRAMODEL
ST_FIPS	V_E_HYDROGAGE
ST_FIPS	V_E_HYDRONODE

ST_FIPS	V_E_PFD_LN
ST_FIPS	V_E SIMPL_CST_ZONE_AR
ST_FIPS	V_E_STREAMCNTRLINE
ST_FIPS	V_E_STRUC
ST_FIPS	V_FIRMPAN
ST_FIPS	V_HUC
ST_FIPS	V_P_CBRS
ST_FIPS	V_P_CSLF_AR
ST_FIPS	V_P_CSTMODEL
ST_FIPS	V_P_FLD_HAZ_AR
ST_FIPS	V_P_FLD_HAZ_LN
ST_FIPS	V_P_FLOOD_PROBLEMS
ST_FIPS	V_P_HWM
ST_FIPS	V_P_HYDRABFE
ST_FIPS	V_P_HYDRACROSSSECTION
ST_FIPS	V_P_HYDRAMODEL
ST_FIPS	V_P_HYDROGAGE
ST_FIPS	V_P_HYDRONODE
ST_FIPS	V_P_PFD_LN
ST_FIPS	V_P SIMPL_CST_ZONE_AR
ST_FIPS	V_P_STREAMCNTRLINE
ST_FIPS	V_P_STRUC

D_STATE_NAME	
CODE	**DESCRIPTION**
1000	ALABAMA
1010	ALASKA
1020	AMERICAN SAMOA
1030	ARKANSAS
1040	ARIZONA
1050	CALIFORNIA
1060	COLORADO
1070	CONNECTICUT
1080	DELAWARE
1090	DISTRICT OF COLUMBIA
1100	FLORIDA
1110	GEORGIA
1120	GUAM
1130	HAWAII
1140	IDAHO
1150	ILLINOIS
1160	INDIANA
1170	IOWA
1180	KANSAS
1190	KENTUCKY
1200	LOUISIANA
1210	MAINE
1220	MARSHALL ISLANDS
1230	MARYLAND
1240	MASSACHUSETTS
1250	MICHIGAN
1260	MICRONESIA
1270	MINNESOTA
1280	MISSISSIPPI
1290	MISSOURI
1300	MONTANA
1310	NEBRASKA
1320	NEVADA
1330	NEW HAMPSHIRE
1340	NEW JERSEY
1350	NEW MEXICO
1360	NEW YORK

1370	NORTH CAROLINA
1380	NORTH DAKOTA
1390	NORTHERN MARIANA ISLANDS
1400	OHIO
1410	OKLAHOMA
1420	OREGON
1430	PALAU
1440	PENNSYLVANIA
1450	PUERTO RICO
1460	RHODE ISLAND
1470	SOUTH CAROLINA
1480	SOUTH DAKOTA
1490	TENNESSEE
1500	TEXAS
1510	U.S. MINOR ISLANDS
1520	UTAH
1530	VERMONT
1540	VIRGINIA
1550	VIRGIN ISLANDS
1560	WASHINGTON
1570	WEST VIRGINIA
1580	WISCONSIN
1590	WYOMING
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
REPOS_ST	L_COMMUNITY_INFO
STATE	L_CONTACT_INFO
STATE_NM	S_COMMUNITY_GROUP
STATE	S_DISCOVERY_MAP
STATE	S_FIN_STUDY_AR

D_STATUS	
CODE	DESCRIPTION
1000	ARCHIVED
1010	EFFECTIVE
1020	INCORPORATED
1030	SUPERSEDED
1040	REVALIDATED
1050	NOT INCORPORATED
1060	REDETERMINED
1070	PMR
1080	PRELIMINARY
1090	REVISED PRELIMINARY
NP	NP
FIELD	ASSOCIATED FEATURE CLASS
LOMC_STAT	L_MT1LOMC
STATUS	L_PAN_REVIS
LOMR_STAT	S_HYDRAMODEL
LOMR_STAT	V_E_HYDRAMODEL
LOMR_STAT	V_P_HYDRAMODEL

D_STORMS	
CODE	**DESCRIPTION**
1000	CHICAGO
1010	DDF
1020	HUFF
1030	IDF
1040	SANTA BARBARA
1050	SCS TYPE I
1060	SCS TYPE II
1070	SCS TYPE IIA
1080	SCS TYPE III
1090	TRIANGULAR
1100	UNIFORM
1110	HURRICANE FRAN SIMULATED CALIBRATION STORM
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
STORM_LID	L_HYDROSTORMINFO

D_STRUCT_TYP	
CODE	**DESCRIPTION**
1000	0.2 PCT ANNUAL CHANCE FLOOD DISCHARGE CONTAINED IN STRUCTURE
1010	1 PCT ANNUAL CHANCE FLOOD DISCHARGE CONTAINED IN STRUCTURE
1020	AQUEDUCT
1030	BREAKWATER
1040	BRIDGE
1050	BULKHEAD
1060	CANAL
1070	CHANNEL
1080	CHANNEL CONTAINS 0.2 PCT FLOOD EVENT
1090	CHANNEL CONTAINS 1 PCT FLOOD EVENT
1100	CLOSURE STRUCTURE
1110	CONTROL STRUCTURE
1120	CULVERT
1130	CULVERT CONTAINS 0.2 PCT FLOOD EVENT
1140	CULVERT CONTAINS 1 PCT FLOOD EVENT
1150	DAM
1160	DIKE
1170	DOCK
1180	DROP STRUCTURE
1190	ENERGY DISSIPATER
1200	FISH LADDER
1210	FLOODWALL
1220	FLOODWAY CONTAINED IN CHANNEL
1230	FLOODWAY CONTAINED IN STRUCTURE
1240	FLUME
1250	FOOTBRDIGE
1260	GATE
1270	JETTY
1280	LEVEE
1290	LOCK
1300	OTHER / MISC STRUCTURE
1310	PENSTOCK
1320	PIER
1330	PIPELINE
1340	PUMP STATION
1350	RETAINING WALL
1360	REVETMENT

1370	SEAWALL
1380	SIDE WEIR STRUCTURE
1390	SIPHON
1400	SOFT SHORELINE
1410	STORM SEWER
1420	STRUCTURE CONTAINS 1 PCT FLOOD EVENT
1430	UTILITY CROSSING
1440	WEIR
1450	WING WALL
1460	NON-SPECIFIC BEACH STABILIZATION STRUCTURES
1470	NON-SPECIFIC COASTAL ARMORING STRUCTURES
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
PROTECSTRUC	L_CSTSCTPT
STRUCT_LID	L_XS_STRUCT
STRUCT_LID	S_APXSTR
STRUCT_LID	S_STRUC
STRUCT_LID	V_E_STRUC
STRUCT_LID	V_P_STRUC

D_STRUCT_FACE	
CODE	**DESCRIPTION**
1000	UPSTREAM
1010	DOWNSTREAM
1020	UNKNOWN
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
STRUC_FACE	L_XS_STRUCT

D_STUDY_TYP	
CODE	**DESCRIPTION**
1000	DETAILED STUDY
1010	LIMITED DETAILED STUDY
1020	APPROXIMATE STUDY
1030	REDELINEATION
1040	DIGITAL CONVERSION
1050	SFHAs WITH LOW FLOOD RISK
1060	SFHAs WITH MEDIUM FLOOD RISK
1070	SFHAs WITH HIGH FLOOD RISK
1080	MODIFIED DETAILED STUDY
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
STUDYTYPE	S_CSTMODEL
EST_TYP	S_DISCOVERY_MAP
FST_TYP	S_DISCOVERY_MAP
EST_TYP	S_FIN_STUDY_AR
FST_TYP	S_FIN_STUDY_AR
STUDYTYPE	S_HYDRAMODEL
STUDYTYPE	V_E_CSTMODEL
STUDYTYPE	V_E_HYDRAMODEL
STUDYTYPE	V_P_CSTMODEL
STUDYTYPE	V_P_HYDRAMODEL
STUDYTYP	V_P_REVISIONS

D_SUBBASIN	
CODE	**DESCRIPTION**
BR001	BUFFALO CREEK
BR002	COVE CREEK
BR003	FLOYDS CREEK
BR004	HICKORY CREEK
BR005	KINGS CREEK
BR006	LOWER BROAD RIVER
BR007	LOWER FIRST BROAD RIVER
BR008	LOWER GREEN RIVER
BR009	LOWER SECOND BROAD RIVER
BR010	MOUNTAIN CREEK
BR011	NORTH PACOLET RIVER
BR012	UPPER BROAD RIVER
BR013	UPPER FIRST BROAD RIVER
BR014	UPPER GREEN RIVER
BR015	UPPER SECOND BROAD RIVER
CF001	20 (DEEP RIVER)
CF002	BLACK-SIX RUNS
CF003	BLADEN-CAPE
CF004	BRUNSWICK TRIBS
CF005	COLUMBUS
CF006	CUMBERLAND
CF007	DEEP-BRUSH
CF008	DEEP-SANDY
CF009	GOSHEN SWAMP
CF010	GREAT COHARIE CREEK
CF011	GUILFORD-DEEP TRIBS
CF012	HAW-BIG ALAMANCE
CF013	HAW-REEDY
CF014	LOWER DEEP
CF015	LOWER HAW
CF016	LOWER LITTLE RIVER
CF017	LOWER NE CAPE
CF018	19 (DEEP RIVER)
CF019	12 (LITTLE RIVER)
CF020	MINGO SWAMP
CF021	MOORES-HOOD
CF022	NEW HANOVER-COASTAL

CF023	NEW HOPE RIVER
CF024	ONSLOW NW-CYPRESS
CF025	ONSLOW SW-HOLLY
CF026	QUAKER-STAGG
CF027	ROCKFISH CREEK
CF028	ROCKY RIVER
CF029	SOUTH RIVER
CF030	UPPER CAPE FEAR TRIBS
CF031	UPPER LITTLE RIVER
CF032	14 (LITTLE RIVER)
CF033	UPPER NE CAPE
CF034	11 (ROCKFISH CREEK)
CF035	WAYNE-NE CAPE
CF036	WESTERN WAKE
CO001	BENNETTS CREEK
CO002	LOWER CHOWAN
CO003	MEHERRIN RIVER
CO004	POTECASI CREEK
CO005	UPPER CHOWAN
CO006	WICCACON/AHOSKIE
CT001	12MILE
CT002	CATAWBA CREEK
CT003	CLARKS CREEK
CT004	DUTCHMANS CREEK
CT005	ELK SHOAL
CT006	GUNPOWDER
CT007	HENRY FORK
CT008	INDIAN CREEK
CT009	JOHNS RIVER
CT010	LAKE JAMES CATAWBA
CT011	LAKE RHODHISS CATAWBA
CT012	LINVILLE RIVER
CT013	LOWER CATAWBA
CT014	LOWER CREEK
CT015	LOWER LITTLE
CT016	LOWER SOUTH FORK
CT017	MIDDLE LITTLE
CT018	MORGANTON CATAWBA
CT019	MUDDY CREEK
CT020	NORTH FORK CATAWBA

CT021	UPPER CATAWBA
CT022	UPPER CATAWBA
CT023	UPPER LITTLE
CT024	UPPER SOUTH FORK
CT025	WAXHAW CREEK
FB001	BIG LAUREL CREEK
FB002	BOYLSTON CREEK
FB003	DINGLE CREEK
FB004	HOMINY-FRENCH BROAD RIVER
FB005	HOOPER-CANE CREEK
FB006	IVY CREEK
FB007	LOWER FRENCH BROAD RIVER
FB008	LOWER NORTH TOE RIVER
FB009	LOWER PIGEON RIVER
FB010	MUD CREEK
FB011	NOLICHUCKY RIVER
FB012	SANDYMUSH CREEK
FB013	SOUTH TOE RIVER
FB014	SWANNANOA RIVER
FB015	UPPER FRENCH BROAD RIVER
FB016	UPPER NORTH TOE RIVER
FB017	UPPER PIGEON RIVER
HI001	BRASSTOWN CREEK
HI002	HIWASSEE RIVER
HI003	LOWER HIWASSEE
HI004	SHOOTING CREEK
HI005	TUSQUITEE CREEK
HI006	VALLEY RIVER
LT001	CULLASAJA RIVER
LT002	LOWER CHEOAH
LT003	LOWER LITTLE TENNESSEE
LT004	LOWER TUCKASEGEE
LT005	SOURTHERN TRIBUTARIES LTR
LT006	UPPER CHEOAH
LT007	UPPER LITTLE TENNESSEE
LT008	UPPER LTR
LT009	UPPER MIDDLE LTR
LT010	UPPER NANTAHALA
LT011	UPPER TUCKASEGEE
LU001	A (LITTLE RAFT SWAMP)

LU002	B (LUMBER D)
LU003	C (DEEP CREEK)
LU004	D (JACKSON CREEK)
LU005	E (LUMBER C)
LU006	F (HOG SWAMP)
LU007	G (LUMBER B)
LU008	H (LUMBER A)
LU009	I (CHERRY GROVE)
LU010	J (BIG SWAMP A)
LU011	K (MARSH SWAMP A)
LU012	L (BIG SWAMP B)
LU013	M (MARSH SWAMP B)
LU014	N (JUNIPER CREEK)
LU015	O (GUM SWAMP CREEK)
LU016	P (JOES CREEK)
LU017	Q (BRIDGE CREEK)
LU018	R (BIG SHAE HEEL CR)
LU019	S (IREDELL (PLACE))
LU020	T (GREEN SWAMP A)
LU021	U (GREEN SWAMP B)
LU022	V (LAKE WACCAMAW)
LU023	W (WACCAMAW RIVER)
LU024	X (SEVEN CREEK A)
LU025	Y (SEVEN CREEK B)
LU026	Z (SEVEN CREEK C)
NU001	CONTENTNEA- GREENE
NU002	CONTENTNEA CREEK
NU003	CRABTREE CREEK
NU004	CRAVEN TRIBS
NU005	ENO-ORANGE
NU006	FLAT-ENO
NU007	FRANKLIN-NASH
NU008	LITTLE CONTENTNEA-PITT
NU009	LITTLE RIVER
NU010	LOWER NEUSE
NU011	MILL CREEK
NU012	PAMLICO TRIBS
NU013	SOUTHWEST-BEAR
NU014	SWIFT-MIDDLE
NU015	SWIFT CREEK

NU016	TRENT RIVER
NU017	UPPER NEUSE - EAST
NU018	UPPER NEUSE - WEST
NW001	LITTLE RIVER
NW002	NORTH FORK NEW RIVER
NW003	SOUTH FORK NEW RIVER
PS001	PASQUOTANK
RN001	BELEWS CREEK
RN002	CASHIE RIVER
RN003	CENTRAL ROANOKE
RN004	COUNTRY LINE CREEK
RN005	DAN RIVER
RN006	GRASSY-ISLAND
RN007	HOGANS CREEK
RN008	HYCO CREEK
RN009	LOWER ROANOKE
RN010	MARTIN
RN011	MAYO RIVER
RN012	ROANOKE NORTH
RN013	SOUTH HYCO- MARLOWE
RN014	TOWN FORK CREEK
RN015	UPPER DAN RIVER
RN016	WARREN-NUTBUSH
RN017	WOLF ISLAND CREEK
SV001	SAVANNAH
TP001	BEAUFORT - NORTH
TP002	BEAUFORT - SOUTH
TP003	CEDAR-TABBS
TP004	CONETOE - OTTER
TP005	CROOKED CREEK
TP006	DEEP CREEK
TP007	LITTLE FISHING CREEK
TP008	LOWER FISHING
TP009	LOWER TAR - PITT
TP010	MIDDLE TAR TRIBS
TP011	STONY CREEK
TP012	SWIFT-SANDY
TP013	SWIFT-WHITE OAK
TP014	TOWN CREEK
TP015	TRANTERS CREEK

TP016	UPPER FISHING
TP017	UPPER TAR - GRANVILLE
WO001	LOWER NEW RIVER
WO002	NEW RIVER
WO003	NEWPORT RIVER
WO004	NORTHEAST CREEK
WO005	SOUTHWEST CREEK
WO006	WHITE OAK_RIVER
WT001	ELK RIVER
WT002	WATAUGA RIVER
YD001	2ND,3RD,4TH
YD002	ARARAT RIVER
YD003	CENTRAL YADKIN TRIBS
YD004	DEEP CREEK
YD005	DUTCHMAN CREEK
YD006	ELK/LEWIS
YD007	FISHER RIVER
YD008	HITCHCOCK/MARKS
YD009	HUNTING/BEAR
YD010	LANES CREEK
YD011	LITTLE RIVER
YD012	LONG_CREEK
YD013	LOWER PEE DEE TRIBS
YD014	LOWER ROCKY RIVER
YD015	LOWER YADKIN TRIBS
YD016	MITCHELL RIVER
YD017	RICHARDSON CREEK
YD018	ROARING/REDDIES
YD019	SOUTH YADKIN
YD020	UPPER PEE DEE TRIBS
YD021	UPPER ROCKY RIVER
YD022	UPPER YADKIN TRIBS
YD023	UWHARRIE RIVER
FIELD	**ASSOCIATED FEATURE CLASS**
SUBSHED	S_DISCREPANCIES

D_SUMELEVFOOTNOTE_COLUMN	
CODE	**DESCRIPTION**
1000	FLOODING SOURCE
1010	LOCATION
1020	10% ANNUAL CHANCE
1030	2% ANNUAL CHANCE
1040	1% ANNUAL CHANCE
1050	0.2% ANNUAL CHANCE
1060	FUTURE 1% ANNUAL CHANCE DISCHARGE
FIELD	**ASSOCIATED FEATURE CLASS**
FIS_COLUMN	L_SUMMARY_ELEV_FOOTNOTES

D_SURGE_MDL	
CODE	**DESCRIPTION**
1000	ADCIRC
1010	DELFT 3D
1020	DYNLET
1030	FEMA SURGE (1998)
1040	FLOW2D (1975)
1050	MIKE 21 HD/NHD
1060	NEW ENGLAND TIDE PROFILE
1070	NORTHEASTER MODEL (1978)
1080	ODISTIM (1975)
1090	TABS RMA2 V.4.3 (OCTOBER 1996)
1100	USACE GREAT LAKES TIDE PROFILE (1998)
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
SURGE_LID	S_CSTMODEL
SURGE_LID	V_E_CSTMODEL
SURGE_LID	V_P_CSTMODEL

D_SURGE_PARAM_VALUES	
CODE	**DESCRIPTION**
1000	DEGREES FROM TRUE NORTH
1010	KNOTS
1020	MILIBARS
1030	NAUTICAL MILES
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
PARAM_UNIT	L_SURGE_PARAM

D_SURVEYTY	
CODE	**DESCRIPTION**
1000	OTHER
1010	RTK GPS
1020	STATIC GPS
1030	TRAVERSE FROM RTK GPS CONTROL POINTS
1040	TRAVERSE FROM STATIC GPS CONTROL POINTS
1050	TRAVERSE ONLY
FIELD	**ASSOCIATED FEATURE CLASS**
SURVEYTY	S_HWM
SURVEYTY	V_E_HWM
SURVEYTY	V_P_HWM

D_SWYTYP	
CODE	**DESCRIPTION**
1000	AUXILIARY/EMERGENCY
1010	SERVICE/PRINCIPAL
1020	OTHER
1030	UNKNOWN
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
SWYTYP_LID	L_SWY

D_TASK_TYP	
CODE	**DESCRIPTION**
1000	ALLUVIAL FAN
1010	BASE MAP
1020	COASTAL
1030	DFIRM DATABASE
1040	FLOODPLAIN MAPPING
1050	HYDRAULIC
1060	HYDROLOGIC
1070	SURVEY
1080	TERRAIN
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
TASK_TYP	S_CSTMODEL
TASK_TYP	S_HYDRAMODEL
TASK_TYP	S_HYDROMODEL
TASK_TYP	V_E_CSTMODEL
TASK_TYP	V_E_HYDRAMODEL
TASK_TYP	V_P_CSTMODEL
TASK_TYP	V_P_HYDRAMODEL

D_TIME_UNITS	
CODE	**DESCRIPTION**
1000	DAYS
1010	HOURS
1020	MINUTES
1030	MONTHS
1040	SECONDS
1050	WEEKS
1060	YEARS
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
TIME_LID	L_CST_TSCT_PT_ELEV
TIME_LID	L_EVENT
TIME_LID	L_HWMWTNS
TIME_LID	L_HYDROEQUATION
TIME_LID	L_HYDROSTORMCURVE
TIME_LID	S_CST_GAGE
TIME_LID	S_CSTTSCTLN
TIME_LID	S_HYDROGAGE
TIME_LID	S_HYDROTC
TIME_LID	V_E_HYDROGAGE
TIME_LID	V_P_HYDROGAGE

D_TOPO_TYP	
CODE	**DESCRIPTION**
1000	10 METER DEM
1010	30 METER DEM
2000	2' CONTOUR
2010	4' CONTOUR
2020	10' CONTOUR
2030	20' CONTOUR
3000	LIDAR 9.25 CM RMSEZ
3010	LIDAR 18.5 CM RMSEZ
3099	LIDAR - OTHER
9000	OTHER
FIELD	**ASSOCIATED FEATURE CLASS**
OLD_TOPO	S_CSLF_AR
NEW_TOPO	S_CSLF_AR
TOPO_TYP	S_TERRAINGROUP
OLD_TOPO	V_P_CSLF_AR
NEW_TOPO	V_P_CSLF_AR

D_TRANS_TYP	
CODE	**DESCRIPTION**
1000	ABANDONED RAILROAD
1010	ACTIVE RAILROAD
1020	AIRPORT
1030	ALLEY
1040	BIKE PATH OR TRAIL
1050	BRIDLE PATH
1060	CARLINE, STREETCAR TRACK, MONORAIL, OTHER MASS TRANSIT RAIL
1070	COG RAIL LINE, INCLINE RAIL LINE, TRAM
1080	DISMANTLED RAILROAD
1090	FERRY
1100	FORD
1110	INTERNAL U.S. CENSUS BUREAU USE
1120	LOCAL NEIGHBORHOOD ROAD, RURAL ROAD, CITY STREET
1130	PARKING LOT ROAD
1140	PRIMARY ROAD
1150	PRIVATE ROAD FOR SERVICE VEHICLES (LOGGING, OIL FIELDS, RANCHES, ETC.)
1160	RAILROAD FEATURE (MAIN, SPUR, OR YARD)
1170	RAMP
1180	ROAD MEDIAN
1190	ROAD TUNNEL
1200	SECONDARY ROAD
1210	SERVICE DRIVE USUALLY ALONG A LIMITED ACCESS HIGHWAY
1220	STAIRWAY
1230	TRAIL
1240	UNDEFINED RAILROAD
1250	UNDEFINED ROAD
1260	VEHICULAR TRAIL (4WD)
1270	WALKWAY/PEDESTRIAN TRAIL
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
TRANS_LID	S_TRNSPORT_LN

D_TSCT_MATERIAL	
CODE	**DESCRIPTION**
1000	GRASS
1010	MARSH
1020	TREES
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
MATERIAL	L_TSCTRGHNSS

D_TSCTPTTY	
CODE	**DESCRIPTION**
1000	BARE EARTH
1010	BELOW WATER
1020	SEAWALL
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
TSCTPNTY	S_TSCTSURVPTS

D_USACE_DISTRICT	
CODE	**DESCRIPTION**
1000	ALASKA
1010	ALBUQUERQUE
1020	BALTIMORE
1030	BUFFALO
1040	CHARLESTON
1050	CHICAGO
1060	DETROIT
1070	FORT WORTH
1080	GALVESTON
1090	GULF REGION
1100	HONOLULU
1110	HUNTINGTON
1120	JACKSONVILLE
1130	KANSAS CITY
1140	LITTLE ROCK
1150	LOUISVILLE
1160	LOS ANGELES
1170	MEMPHIS
1180	MOBILE
1190	NASHVILLE
1200	NEW ENGLAND
1210	NEW ORLEANS
1220	NEW YORK
1230	NORFOLK
1240	OMAHA
1250	PHILADELPHIA
1260	PITTSBURGH
1270	PORTLAND
1280	ROCK ISLAND
1290	SACRAMENTO
1300	SAN FRANCISCO
1310	SAVANNAH
1320	SEATTLE
1330	ST. LOUIS
1340	ST. PAUL
1350	TULSA
1360	VICKSBURG

1370	WALLA WALLA
1380	WILMINGTON
FIELD	**ASSOCIATED FEATURE CLASS**
DISTRICT	L_LEVEE

D_V_DATUM	
CODE	**DESCRIPTION**
1000	MSL
1010	NAVD88
1020	NGVD29
1030	LOCAL TIDAL DATUM
1040	MLLW
1050	MLW
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
V_DATM_LID	L_APXCUL
V_DATM_LID	L_APXDAM
V_DATM_LID	L_APXRSR
V_DATM_LID	L_APXSWY
V_DATM_LID	L_CST_TSCT_PT_ELEV
V_DATM_LID	L_CST_TSCTPT
V_DATM_LID	L_CULPP
V_DATM_LID	L_DAM
V_DATM_LID	L_HYDRAFLOODRESULT
V_DATM_LID	L_HYDRAXSPT
V_DATM_LID	L_HYDRORESULT
V_DATM_LID	L_LCHRD
V_DATM_LID	L_LEVEE
V_DATM_LID	L_ORFC
V_DATM_LID	L_OTLPP
V_DATM_LID	L_PIER
V_DATM_LID	L_PROFIL_BKWTR_EL
V_DATM_LID	L_PROFIL_LABEL
V_DATM_LID	L_RAIL
V_DATM_LID	L_RISERWEIR
V_DATM_LID	L_RSRBRL
V_DATM_LID	L_STRUCSTO
V_DATM_LID	L_SUMMARY_ELEVATIONS
V_DATM_LID	L_SWY
V_DATM_LID	L_SXS
V_DATM_LID	L_XS_STRUCT
V_DATM_LID	S_APXSTR
V_DATM_LID	S_COMMUNITY_GROUP
V_DATM_LID	S_CST_GAGE

V_DATM_LID	S_CSTTSCTLN
FROM_DATUM	S_DATUM_CONV_PT
TO_DATUM	S_DATUM_CONV_PT
V_DATM_LID	S_FBS
V_DATM_LID	S_FLD_HAZ_AR
V_DATM_LID	S_HWM
V_DATM_LID	S_HYDRABFE
V_DATM_LID	S_HYDRACROSSSECTION
V_DATM_LID	S_HYDRAFLOWPATH
V_DATM_LID	S_HYDRAJUNCTION
V_DATM_LID	S_LEVEEPTS
V_DATM_LID	S_MODEL_GROUP
V_DATM_LID	S_SHORE_LN
V_DATM_LID	S_STREAMCNTRLNPT
V_DATM_LID	S_STRUC
V_DATM_LID	S_SXS
V_DATM_LID	S_TBM
V_DATM_LID	S_TSCTSURVPTS
V_DATM_LID	S_WTR_AR
V_DATM_LID	S_ZONE_AR
FROM_DATUM	V_DATUM_CONV_PT
TO_DATUM	V_DATUM_CONV_PT
V_DATM_LID	V_E_FLD_HAZ_AR
V_DATM_LID	V_E_HWM
V_DATM_LID	V_E_HYDRACROSSSECTION
V_DATM_LID	V_E_STRUC
V_DATM_LID	V_P_FLD_HAZ_AR
V_DATM_LID	V_P_HWM
V_DATM_LID	V_P_HYDRACROSSSECTION
V_DATM_LID	V_P_STRUC

D_VELOCITY_UNITS	
CODE	**DESCRIPTION**
1000	CENTIMETERS/DAY
1010	CENTIMETERS/HOUR
1020	FEET/SECOND
1030	INCHES/DAY
1040	INCHES/HOUR
1050	METERS/SECOND
1060	MICROMETERS/SECOND
1070	MILLIMETERS/DAY
1080	MILLIMETERS/HOUR
FIELD	**ASSOCIATED FEATURE CLASS**
VEL_LID	L_HYDRAFLOODRESULT
VEL_LID	L_HYDROSTORMCURVE
VEL_LID	S_ALLUVIAL_FAN
VEL_LID	S_FLD_HAZ_AR

D_VOLUME_UNITS	
CODE	**DESCRIPTION**
1000	ACRE-FEET
1010	CUBIC FEET
1020	CUBIC METERS
1030	CUBIC YARDS
1040	GALLONS
1050	LITERS
1060	MILLION GALLONS
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
VOL_LID	L_STRUCSTO

D_VZONE	
CODE	**DESCRIPTION**
1000	30 FOOT SPLASH ZONE BEHIND STRUCTURE
1010	BREAKING WAVE HT
1020	HIGH VELOCITY FLOW
1030	PFD
1040	RUNUP EXTENT
1050	WAVE OVERTOPPING SPLASH ZONE
1060	WHAFIS
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
VZONE_LID	S_CSTTSCTLN

D_WATER_TYP	
CODE	**DESCRIPTION**
1000	AREA OF COMPLEX CHANNELS
1010	ARTIFICIAL PATH
1020	BAY/INLET
1030	BAYOU
1040	BOG
1050	BYPASS/DIVERSION
1060	CANAL/DIVERSION
1070	CHANNEL
1080	CHANNEL CONTAINS 1 PCT FLOOD EVENT
1090	COASTLINE / ISLAND SHORELINE
1100	CONCRETE CHANNEL
1110	CONCRETE DITCH
1120	CONCRETE/EARTHEN CHANNEL
1130	CONCRETE/EARTHEN DITCH
1140	CONNECTOR
1150	CREEK
1160	CREVASSE FIELD
1170	DETENTION POND
1180	EARTHEN CHANNEL
1190	EARTHEN DITCH
1200	ESTUARY
1210	FISH LADDER
1220	FLUME
1230	GULCH
1240	HATCHERY
1250	HYDRAULIC LINK
1260	HYDROLOGIC LINK
1270	ICE MASS/GLACIER
1280	INTERMITTENT RIVER/STREAM
1290	ISLAND
1300	LAKE/POND
1310	LOCK CHAMBER
1320	MANMADE WATER FEATURE
1330	MUD POT
1340	NAVIGABLE WATERWAY
1350	NONEARTHEN SHORE
1360	OPEN WATER AREA

1370	OVERFLOW
1380	PERENNIAL RIVER/STREAM
1390	PLAYA
1400	PROFILE BASELINE
1410	PROFILE BASELINE AND STREAM CENTELINE
1420	RACE
1430	RESERVOIR
1440	RETENTION POND
1450	SAND PIT
1460	SEA/OCEAN
1470	SHORELINE/COASTLINE
1480	SOUND
1490	SPILLWAY
1500	STREAM CENTERLINE
1510	STREAM/RIVER
1520	SUBMERGED STREAM
1530	SWAMP/MARSH
1540	TAILINGS POND
1550	UNDERPASS
1560	WASH
1570	WASTE WATER LAGOON/POND
1580	WATER SEPARATION LINE
1590	WATERFALL
1600	WATERWAY
1610	WETLANDS
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
WATER_LID	S_HYDRAFLOWPATH
WATER_LID	S_STREAMCNTRLINE
WATER_LID	S_WTR_AR
WATER_LID	V_E_STREAMCNTRLINE
WATER_LID	V_P_STREAMCNTRLINE

D_WAVE_MDL	
CODE	**DESCRIPTION**
1000	CHAMP 2.0
1010	DELFT 3D
1020	MIKE 21 (FM SW)
1030	MIKE 21 (NSW)
1040	MIKE 21 (OSW)
1050	RCPWAVE (1986)
1060	STWAVE (LATEST VERSION)
1070	SWAN (2008)
1080	WHAFIS 3.0 (1998)
1090	WHAFIS 3.0 GL (1993)
1100	WHAFIS 4.0
FIELD	**ASSOCIATED FEATURE CLASS**
WAVEHT_LID	S_CSTMODEL
WAVEHT_LID	V_E_CSTMODEL
WAVEHT_LID	V_P_CSTMODEL

D_WAVE_HAZ	
CODE	DESCRIPTION
1000	HIGH
1010	MODERATE
1020	MINIMAL
NP	NP
FIELD	ASSOCIATED FEATURE CLASS
WAVE_HAZ	S_SIMPL_CST_ZONE_AR
WAVE_HAZ	V_E SIMPL_CST_ZONE_AR
WAVE_HAZ	V_P SIMPL_CST_ZONE_AR

D_WAVE_METH	
CODE	**DESCRIPTION**
1000	2D WAVE MODEL
1010	ACES 1.07 (1992)
1020	CEM (COASTAL ENGINEERING MANUAL)
1030	CHAMP / RUNUP 2.0 (2007)
1040	DIM (DIRECT INTEGRATION METHOD)
1050	RUNUP 2.0 (1990)
1060	SPM (SHORE PROTECTION MANUAL)
1070	TAW METHOD
FIELD	**ASSOCIATED FEATURE CLASS**
SETUP_METH	S_CSTMODEL
SETUP_METH	V_E_CSTMODEL
SETUP_METH	V_P_CSTMODEL

D_XS_LNTYP	
CODE	**DESCRIPTION**
1000	LETTERED
1010	NOT LETTERED, MAPPED, MODELED
1020	NOT LETTERED, MAPPED, NOT MODELED
1030	NOT LETTERED, NOT MAPPED, MODELED
1040	NOT LETTERED, NOT MAPPED, NOT MODELED
1050	OTHER
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
XS_LN_TYP	S_HYDRACROSSSECTION
XS_LN_TYP	V_E_HYDRACROSSSECTION
XS_LN_TYP	V_P_HYDRACROSSSECTION

D_ZONE	
CODE	**DESCRIPTION**
1000	A
1001	AE
1002	AH
1003	AO
1005	1 PCT ANNUAL CHANCE FLOOD HAZARD CONTAINED IN CHANNEL
1007	A99
1008	V
1009	VE
2000	0.2 PCT ANNUAL CHANCE FLOOD HAZARD
2001	0.2 PCT ANNUAL CHANCE FLOOD HAZARD CONTAINED IN CHANNEL
3000	AREA NOT INCLUDED
3002	1 PCT FUTURE CONDITIONS CONTAINED IN CHANNEL
4000	D
4002	X
5000	OPEN WATER
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
UNPROZONE	L_LEVEE
PROTECZONE	L_LEVEE
ZONE_LID	S_ALLUVIAL_FAN
NEW_ZONE	S_CSLF_AR
OLD_ZONE	S_CSLF_AR
EZONE_TYP	S_FIN_STUDY_AR
ZONE_LID	S_FLD_HAZ_AR
NEW_ZONE	V_P_CSLF_AR
OLD_ZONE	V_P_CSLF_AR
ZONE_LID	V_E_FLD_HAZ_AR
ZONE_LID	V_P_FLD_HAZ_AR

D_ZONE_SUBTYPE	
CODE	**DESCRIPTION**
1000	FLOODWAY
1010	COLORADO RIVER FLOODWAY
1020	0.2 PCT ANNUAL CHANCE FLOOD HAZARD CONTAINED IN STRUCTURE
1030	1 PCT ANNUAL CHANCE FLOOD HAZARD CONTAINED IN STRUCTURE
1040	1 PCT DEPTH LESS THAN 1 FOOT
1050	1 PCT DRAINAGE AREA LESS THAN 1 SQUARE MILE
1060	1 PCT FUTURE CONDITIONS
1070	1 PCT FUTURE CONDITIONS CONTAINED IN STRUCTURE
1080	ADMINISTRATIVE FLOODWAY
1090	AREA OF SPECIAL CONSIDERATION
1100	AREAS DETERMINED TO BE OUTSIDE THE 0.2 PCT ANNUAL CHANCE FLOODPLAIN
1110	COASTAL
1120	COMMUNITY ENCROACHMENT AREA
1130	DENSITY FRINGE AREA
1140	FLOODWAY CONTAINED IN STRUCTURE
1150	FLOWAGE EASEMENT AREA
1160	NARROW FLOODWAY
1170	PROTECTED BY LEVEE
1180	RIVERINE
1190	RIVERINE FLOODWAY SHOWN IN COASTAL ZONE
1200	STATE ENCROACHMENT AREA
1210	0.2 PCT ANNUAL CHANCE FLOOD HAZARD
NP	NP
FIELD	**ASSOCIATED FEATURE CLASS**
OLD_ZONEST	S_CSLF_AR
NEW_ZONEST	S_CSLF_AR
ZONSUB_LID	S_FLD_HAZ_AR
OLD_ZONEST	V_P_CSLF_AR
NEW_ZONEST	V_P_CSLF_AR
ZONSUB_LID	V_E_FLD_HAZ_AR
ZONSUB_LID	V_P_FLD_HAZ_AR