
 HEC2 RELEASE DATED NOV 76 (UPDATED FEB 1977)
 ERROR CORR - 01
 MODIFICATION - 50,51,52

C
 T1 LEXINGTON-DAVIDSON CO. STRM 18-17L
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ING	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
	-1.	2.	0.	0.	0.007000	0.0	0.0	0.	662.000	0.0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	0.0	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0
J3	VARIABLE CODES FOR SUMMARY PRINTOUT									
	38.000	39.000	40.000	41.000	43.000	42.000	1.000	2.000	26.000	53.000
	54.000	25.000	50.000	0.0	201.000	0.0	0.0	0.0	0.0	0.0
NC	0.055	0.055	0.035	0.100	0.300	0.0	0.0	0.0	0.0	0.0
QT	5.000	513.000	413.000	1111.000	1585.000	1111.000	0.0	0.0	0.0	0.0
ET	5.000	0.0	0.0	0.0	0.0	-10.400	0.0	0.0	0.0	0.0
X1	400.000	10.000	1100.000	1109.000	400.000	400.000	400.000	400.000	0.0	0.0
GR	678.500	1000.000	666.100	1046.000	663.500	1100.000	657.200	104.000	657.100	1105.000
GR	657.500	1109.000	663.000	1121.000	663.800	1200.000	666.500	1300.000	678.500	1382.000
QT	5.000	496.000	881.000	1073.000	1530.000	1073.000	0.0	0.0	0.0	0.0
X1	1630.000	13.000	1429.000	1445.000	1230.000	1230.000	1230.000	1230.000	0.0	0.0
GR	686.100	1000.000	673.900	1100.000	670.200	1300.000	670.000	1400.000	670.300	1429.000
GR	665.800	1430.000	665.300	1435.000	665.800	1441.000	670.300	1445.000	671.800	1473.000
GR	681.300	1492.000	684.100	1500.000	686.100	1510.000	0.0	0.0	0.0	0.0
QT	5.000	264.000	500.000	327.000	942.000	627.000	0.0	0.0	0.0	0.0
X1	2025.000	10.000	1130.000	1143.000	395.000	395.000	395.000	395.000	0.0	0.0
GR	690.100	1000.000	676.300	1030.000	674.400	1100.000	675.700	1130.000	671.500	1132.000
GR	670.900	1136.000	671.400	1139.000	675.300	1143.000	686.900	1200.000	690.100	1211.000
QT	5.000	135.000	265.000	340.000	531.000	340.000	0.0	0.0	0.0	0.0
X1	5201.000	9.000	1112.000	1116.000	3176.000	3176.000	3176.000	3176.000	0.0	-3.200
GR	751.200	1000.000	738.000	1100.000	738.100	1112.000	736.400	1114.000	736.200	1115.000
GR	736.400	1116.000	738.400	1118.000	745.900	1200.000	751.200	1239.000	0.0	0.0
X1	5251.000	0.0	0.0	0.0	50.000	50.000	50.000	50.000	0.0	0.900
NC	0.025	0.025	0.025	0.100	0.300	0.0	0.0	0.0	0.0	0.0

0.52 0.16 0.34 0.14 0.055 0.035 0.055 0.035 736.40 1033.47
 0.000004 50. 50. 50. 0 0 0 0.0 173.02 1206.49

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T1 LEXINGTON-DAVIDSON CO. STRM 18-17L
 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FG
	-10.	3.	0.	0.	0.007000	0.0	0.0	0.	663.000	0.0
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

*PROF 2

CCHV= 0.100 CEHV= 0.300
 *SECNO 400.000

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
3720	CRITICAL	DEPTH	ASSUMED						
400.00	7.27	664.37	664.37	663.00	665.09	0.73	0.0	0.0	663.50
913.	10.	465.	438.	8.	52.	132.	0.	0.	657.50
0.0	1.28	9.02	3.33	0.055	0.035	0.055	0.0	657.10	1082.01
0.006821	400.	400.	400.	0	17	0	0.0	138.98	1220.98

*SECNO 1630.000

1630.00	6.00	671.30	0.0	0.0	671.73	0.43	6.60	0.03	670.30
881.	344.	527.	10.	186.	80.	9.	7.	5.	670.30
0.07	1.85	6.62	1.12	0.055	0.035	0.055	0.035	665.30	1240.54
0.004304	1230.	1230.	1230.	4	0	0	0.0	223.13	1463.67

*SECNO 2025.000

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720	CRITICAL	DEPTH	ASSUMED						
2025.00	5.05	675.95	675.95	0.0	676.55	0.60	2.04	0.05	675.70
500.	145.	353.	1.	71.	48.	1.	8.	7.	675.30
0.09	2.05	7.29	1.09	0.055	0.035	0.055	0.035	670.90	1042.97
0.007480	395.	395.	395.	20	10	0	0.0	103.21	1146.18

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 T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	4.	0.	0.	0.007000	0.0	0.0	0.	665.000	0.0
J2	NPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDQ	IBW	CHNIM	ITRACE
	3.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

*PROF 3

CCHV= 0.100 CEHV= 0.300
 *SECNO 400.000

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
3720	CRITICAL	DEPTH	ASSUMED						
400.00	7.55	664.65	664.65	665.00	665.39	0.74	0.0	0.0	663.50
1111.	21.	512.	577.	14.	54.	165.	0.	0.	657.50
0.0	1.56	9.47	3.51	0.055	0.035	0.055	0.0	657.10	1076.18
0.007054	400.	400.	400.	0	10	0	0.0	155.18	1231.36

*SECNO 1630.000

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
1630.00	6.27	671.57	0.0	0.0	671.97	0.40	6.55	0.03	670.30
1073.	490.	564.	19.	239.	84.	15.	8.	6.	670.30
0.08	2.05	6.72	1.28	0.055	0.035	0.055	0.035	665.30	1225.81
0.004125	1230.	1230.	1230.	5	0	0	0.0	242.95	1468.76

*SECNO 2025.000

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
2025.00	5.29	676.19	676.19	0.0	676.83	0.64	2.02	0.07	675.70
627.	221.	403.	3.	93.	52.	2.	10.	7.	675.30
0.09	2.37	7.80	1.38	0.055	0.035	0.055	0.035	670.90	1033.97
0.007866	395.	395.	395.	20	9	0	0.0	113.42	1147.38

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XLN	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
2025.00	5.29	676.19	676.19	0.0	676.83	0.64	2.02	0.07	675.70
627.	221.	403.	3.	93.	52.	2.	10.	7.	675.30
0.09	2.37	7.80	1.38	0.055	0.035	0.055	0.035	670.90	1033.97
0.007866	395.	395.	395.	20	9	0	0.0	113.42	1147.38

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J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	5.	0.	0.	0.007000	0.0	0.0	0.	666.000	0.0
J2	NPROF	IPLGT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

*PROF 4

CCHV= 0.100 CEHV= 0.300
 *SECNO 400.000

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
400.00	8.12	665.22	0.0	666.00	665.95	0.73	0.0	0.0	663.50
1585.	63.	596.	925.	31.	59.	241.	0.	0.	657.50
0.0	2.05	10.06	3.84	0.055	0.035	0.055	0.0	657.10	1064.20
0.007042	400.	400.	400.	0	0	5	0.0	188.53	1252.73

*SECNO 1630.000

1630.00	6.77	672.07	0.0	0.0	672.44	0.38	6.46	0.03	670.30
1530.	833.	648.	50.	347.	92.	29.	11.	7.	670.30
0.08	2.40	7.06	1.73	0.055	0.035	0.055	0.035	665.30	1198.98
0.004031	1230.	1230.	1230.	5	0	0	0.0	274.56	1473.54

*SECNO 2025.000

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3685 20 TRIALS ATTEMPTED WSEL,CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY
 3720 CRITICAL DEPTH ASSUMED

2025.00	5.70	676.30	676.60	0.0	677.35	0.75	2.09	0.11	675.70
942.	423.	511.	8.	134.	57.	4.	14.	8.	675.30
0.10	3.15	8.97	1.91	0.055	0.035	0.055	0.035	670.90	1029.35
0.009141	395.	395.	395.	20	9	0	0.0	120.04	1149.39

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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

10 YEAR FLOOD WATER SURF

SUMMARY PRINTOUT

SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRWS	VCH	SSTA	ENDST	AREA	DIFWSP
					657.10	663.25	662.25	8.05	1100.09	1155.88	85.83	0.0
				513.00	657.10	663.55	664.37	9.02	1082.01	1220.98	191.03	1.01
				913.00	657.10	664.37	664.65	9.47	1076.18	1231.36	232.25	0.28
				1111.00	657.10	664.65	0.0	10.06	1064.20	1252.73	331.41	0.58
				1585.00	657.10	665.22						
				496.00	665.30	670.58	669.31	6.25	1279.33	1450.27	133.46	0.0
				881.00	665.30	671.30	0.0	6.62	1240.54	1463.67	274.88	0.72
				1073.00	665.30	671.57	0.0	6.72	1225.81	1468.76	338.40	0.27
				1530.00	665.30	672.07	0.0	7.06	1198.98	1473.54	467.32	0.49
				264.00	670.90	674.32	674.32	9.35	1130.66	1141.99	28.25	0.0
				500.00	670.90	675.95	675.95	7.29	1042.97	1146.18	120.57	1.63
				627.00	670.90	676.19	676.19	7.80	1033.97	1147.38	147.04	0.24
				942.00	670.90	676.60	676.60	8.97	1029.35	1149.39	195.20	0.41
				135.00	733.00	735.96	735.96	7.18	1091.23	1126.29	34.58	0.0
				265.00	733.00	736.51	736.51	9.04	1087.07	1132.29	56.58	0.55
				340.00	733.00	736.81	736.81	9.38	1084.76	1135.62	71.21	0.30
				531.00	733.00	737.27	737.27	11.01	1081.12	1140.67	96.71	0.46
				135.00	733.90	736.82	736.82	7.44	1091.52	1125.86	33.21	0.0
				265.00	733.90	737.42	737.42	8.92	1086.94	1132.48	57.39	0.61
				340.00	733.90	737.65	737.65	9.74	1085.19	1135.00	60.38	0.23
				531.00	733.90	738.19	738.19	10.90	1081.12	1140.37	77.78	0.54
				135.00	736.30	739.12	739.12	6.70	1210.33	1243.84	28.63	0.0
				265.00	736.30	739.63	739.63	7.49	1206.48	1249.42	48.12	0.51
				340.00	736.30	735.86	739.86	7.80	1204.76	1251.92	58.44	0.23
				531.00	736.30	740.33	740.33	8.37	1201.15	1257.16	83.15	0.48
				135.00	736.30	746.98	746.98	0.19	1151.03	1325.53	861.27	0.0
				265.00	736.30	747.38	747.38	0.33	1148.03	1328.30	931.81	0.40
				340.00	736.30	747.56	747.56	0.41	1145.68	1329.54	964.22	0.18
				531.00	736.30	747.94	747.94	0.60	1143.80	1332.20	1035.14	0.38
				135.00	736.30	746.98	746.98	0.33	1032.71	1207.23	855.79	0.0
				265.00	736.30	747.38	747.38	0.60	1029.71	1210.14	926.15	0.40
				340.00	736.30	747.56	747.56	0.74	1028.36	1211.45	958.50	0.18
				531.00	736.30	747.94	747.94	1.08	1025.49	1214.25	1029.04	0.38

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SECNO	XLCH	ELTRD	ELLC	Q	ELMIN	CWSEL	CRIWS	VCH	SSTA	ENDST	AREA	DIFWSP
5432.000	50.00	0.0	0.0	135.00	736.40	746.98	0.0	0.34	1033.47	1206.49	838.43	0.0
5432.000	50.00	0.0	0.0	265.00	736.40	747.38	0.0	0.61	1030.46	1209.41	908.25	0.40
5432.000	50.00	0.0	0.0	340.00	736.40	747.56	0.0	0.76	1029.11	1210.72	940.34	0.18
5432.000	50.00	0.0	0.0	531.00	736.40	747.94	0.0	1.10	1026.23	1213.52	1010.45	0.38

SUMMARY OF ERRORS

CAUTION	SECNO= 400.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 400.000	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 2025.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 2025.000	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 2025.000	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 2025.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 2025.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 2025.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 2025.000	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 2025.000	PROFILE= 3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 2025.000	PROFILE= 3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 2025.000	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 2025.000	PROFILE= 4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 2025.000	PROFILE= 4	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 5201.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5201.000	PROFILE= 1	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5201.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5201.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5201.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 5201.000	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5201.000	PROFILE= 3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5201.000	PROFILE= 3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 5201.000	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5201.000	PROFILE= 4	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5201.000	PROFILE= 4	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 5251.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5251.000	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5251.000	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 5251.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5251.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5251.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 5251.000	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5251.000	PROFILE= 3	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5251.000	PROFILE= 3	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 5251.000	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5251.000	PROFILE= 4	MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5276.000	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5276.000	PROFILE= 1	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5276.000	PROFILE= 1	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 5276.000	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5276.000	PROFILE= 2	PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO= 5276.000	PROFILE= 2	20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO= 5276.000	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO= 5276.000	PROFILE= 3	PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 5276.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION SECNO= 5276.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 5276.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION SECNO= 5276.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

FLOOD INSURANCE ZONE DATA FOR 10 YEAR FLOOD WATER SURF

FLOOD HAZARD FACTOR FOR ENTIRE REACH USING SECTIONS

SECTION NUMBER	CUMULATIVE DISTANCE	ELEVATION DIFFERENCE BETWEEN BASE FLOOD AND		
		10c	2c	0.2c
400.000	0.	-1.3	-0.3	0.6
1630.000	1230.	-1.0	-0.3	0.5
2025.000	1625.	-1.9	-0.2	0.4
5201.000	4801.	-0.9	-0.3	0.5
5251.000	4851.	-0.8	-0.2	0.5
5276.000	4876.	-0.7	-0.2	0.5
5357.000	4957.	-0.6	-0.2	0.4
5382.000	4982.	-0.6	-0.2	0.4
5432.000	5032.	-0.6	-0.2	0.4

WEIGHTED AVG FOR REACH		-1.3	-0.3	0.5

FHF FOR THE REACH = 015 WITH 96.9c OF THE REACH WITHIN 0.5 FEET
 ZONE FOR THE REACH = A 3

