

PERQUIMANS RIVER

PERQUIMANS CB

THIS RUN EXECUTED 19 APR 83 13.35.50

.....  
 HEC2 RELEASE DATED NOV 76 UPDATED MARCH 1982  
 ERKON CORR - 01,02,03,04,05  
 MODIFICATION - 50,51,52,53,54,55  
 .....

T1 FERQUIMANS RIVER-NEAR BELVEDERE  
 T2 FERQUIMANS COUNTY  
 T3 BASE FLOOD

J1	ICHECK	INV2	INIV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-0.	4.	-0.	-0.	-0.	-0.	-0.	-0.	6.480	-0.
J2	WPROF	IPLDT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	-0.	-0.	-1.000	-0.	-0.	-0.	-1.000	-0.	-0.	-0.
J3	VARIABLE CODES FOR SUMMARY PRINTOUT									
	200.000	110.000	-0.	-0.	-0.	-0.	-0.	-0.	-0.	-0.
J5	LPRT	NUMSEC	*****REQUESTED SECTION NUMBERS*****							
	-10.000	-0.	-0.	-0.	-0.	-0.	-0.	-0.	-0.	-0.
J6	IHLER	ICOPY								
	1.000	-0.	-0.	-0.	-0.	-0.	-0.	-0.	-0.	-0.
NC	.200	.200	.060	.100	.300	-0.	-0.	-0.	-0.	-0.
WT	5.000	2355.000	4350.000	5500.000	8735.000	9500.000	-0.	-0.	-0.	-0.
ET	-0.	-0.	-0.	-0.	-0.	10.400	-0.	-0.	-0.	-0.
X1	1.000	17.000	4200.000	4320.000	-0.	-0.	-0.	-0.	-0.	-0.
GR	11.600	-0.	6.600	1850.000	3.300	2800.000	.700	3720.000	.800	4120.000
GR	.100	4200.000	-1.500	4220.000	-6.100	4240.000	-12.800	4260.000	-13.400	4280.000
GR	-9.900	4300.000	.100	4320.000	1.000	4220.000	1.000	4720.000	3.300	5020.000
GR	6.600	5070.000	11.600	5820.000	-0.	-0.	-0.	-0.	-0.	-0.
ET	-0.	-0.	-0.	-0.	-0.	8.400	-0.	-0.	-0.	-0.
X1	2.000	16.000	2450.000	2580.000	1500.000	3400.000	4000.000	-0.	-0.	-0.
GR	13.200	-0.	6.600	1780.000	3.300	1810.000	.800	1980.000	.700	2380.000
GR	.100	2450.000	-3.500	2480.000	-5.100	2500.000	-20.900	2540.000	-14.600	2560.000
GR	.100	2580.000	1.100	2680.000	1.200	2980.000	3.300	3230.000	6.600	3510.000
GR	13.200	4930.000	-0.	-0.	-0.	-0.	-0.	-0.	-0.	-0.
WT	5.000	2295.000	4250.000	5370.000	8540.000	9370.000	-0.	-0.	-0.	-0.
X1	3.100	16.000	350.000	470.000	5700.000	4000.000	6000.000	-0.	-0.	-0.
GR	13.200	-0.	5.300	50.000	2.100	150.000	3.400	250.000	-1.400	350.000
GR	-100	350.000	.300	350.000	-19.100	370.000	-19.100	440.000	-1.100	470.000
GR	.200	470.000	.900	570.000	.900	1070.000	3.300	1170.000	6.600	1270.000
GR	13.200	1448.000	-0.	-0.	-0.	-0.	-0.	-0.	-0.	-0.

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NC	-0-	-0-	-0-	-300	-500	-0-	-0-	-0-	-0-	-0-	-0-
X1	3.200	15.000	800.000	911.000	100.000	100.000	100.000	6.700	4.970	-0-	-0-
X3	10.000	-0-	-0-	-0-	-0-	-0-	-0-	900.000	4.600	800.000	800.000
GR	13.200	-0-	8.700	400.000	7.700	600.000	5.600	856.000	-8.270	867.000	867.000
GR	.300	310.000	.100	822.000	-5.100	844.000	-7.500	911.000	6.500	1111.000	1111.000
GR	-2.030	388.000	.330	900.000	4.700	911.000	5.500	-0-	-0-	-0-	-0-
GR	4.970	1311.000	6.600	2361.000	13.200	3311.000	-0-	-0-	-0-	-0-	-0-
SB	1.000	1.500	2.300	-0-	71.000	5.000	816.000	2.110	-3.890	-3.890	-3.890
X1	3.300	-0-	-0-	-0-	26.000	26.000	26.000	-0-	-0-	-0-	-0-
X2	-0-	-0-	1.000	-0-	5.600	4.970	-0-	-0-	-0-	-0-	-0-
X3	10.000	-0-	-0-	-0-	-0-	-0-	-0-	7.700	4.970	4.970	4.970
BT	11.000	-0-	13.200	-0-	400.000	8.700	-0-	600.000	7.700	7.700	7.700
BT	400.000	7.700	-0-	900.000	10.300	-0-	911.000	10.300	-0-	911.000	911.000
BT	7.700	-0-	1111.000	6.500	-0-	1311.000	4.970	-0-	2361.000	6.600	6.600
BT	-0-	3311.000	13.200	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-
NC	-0-	-0-	-0.060	.100	.300	-0-	-0-	-0-	-0-	-0-	-0-
X1	3.400	-0-	-0-	-0-	50.000	50.000	50.000	-0-	-0-	-0-	-0-
QT	5.000	2195.000	4070.000	5145.000	8195.000	5145.000	-0-	-0-	-0-	-0-	-0-
X1	4.000	15.000	1070.000	1170.000	5000.000	4500.000	5200.000	-0-	-0-	-0-	-0-
GR	13.200	-0-	6.600	350.000	3.300	420.000	.900	670.000	1.000	1070.000	1070.000
GR	-0-	1090.000	-7.600	1110.000	-6.100	1130.000	-0-	1170.000	.850	1270.000	1270.000
GR	1.100	1370.000	.900	1570.000	3.300	3070.000	6.600	3200.000	13.200	3400.000	3400.000
QT	5.000	2100.000	3895.000	4930.000	7865.000	4930.000	-0-	-0-	-0-	-0-	-0-
X1	7.000	15.000	3025.000	3100.000	3000.000	3000.000	3000.000	3000.000	.700	3000.000	3000.000
GR	13.200	-0-	6.600	50.000	3.300	1290.000	.800	2600.000	-1.100	3100.000	3100.000
GR	-1.00	3025.000	-7.400	3040.000	-5.100	3060.000	-4.300	3080.000	13.200	8500.000	8500.000
GR	-7.00	3200.000	.700	3500.000	3.300	5350.000	6.600	5400.000	-0-	-0-	-0-
QT	5.000	2050.000	3810.000	4825.000	7705.000	4825.000	-0-	-0-	-0-	-0-	-0-
X1	8.000	12.000	2550.000	2620.000	7500.000	4300.000	6500.000	-0-	-0-	-0-	-0-
GR	26.400	-0-	3.300	425.000	3.300	2120.000	1.000	2520.000	-1.100	2550.000	2550.000
GR	-5.300	2580.000	-0-	2620.000	2.400	2820.000	-0-	2920.000	6.200	3020.000	3020.000
GR	13.200	4250.000	14.500	4400.000	-0-	-0-	-0-	-0-	-0-	-0-	-0-
QT	5.000	2005.000	3730.000	4720.000	7540.000	4720.000	5400.000	-0-	-0-	-0-	-0-
X1	9.100	12.000	600.000	710.000	2600.000	2600.000	2600.000	-0-	-0-	-0-	-0-
GR	13.200	-0-	3.300	250.000	1.200	600.000	-1.100	610.000	-6.000	640.000	640.000
GR	.100	705.000	1.300	710.000	3.200	910.000	3.500	1210.000	6.600	3500.000	3500.000
GR	10.000	5100.000	13.200	5625.000	-0-	-0-	-0-	-0-	-0-	-0-	-0-
NC	-0-	-0-	-0-	-300	-500	-0-	-0-	-0-	-0-	-0-	-0-
X1	9.200	18.000	1000.000	1123.000	100.000	100.000	100.000	8.000	8.000	8.000	8.000
X3	10.000	-0-	-0-	-0-	-0-	-0-	-0-	1000.000	5.000	1000.000	1000.000
GR	13.200	-0-	8.100	600.000	8.100	800.000	7.200	1053.000	-5.200	1070.000	1070.000
GR	1.700	1017.000	.200	1025.000	-3.900	1035.000	-6.600	1053.000	7.200	1123.000	1123.000
GR	-8.00	1087.000	.200	1091.000	3.400	1105.000	5.600	1123.000	-0-	-0-	-0-
GR	8.200	1323.000	8.600	1523.000	13.200	5625.000	-0-	-0-	-0-	-0-	-0-



FLOODWAY DATA, FLOOD  
PROFILE NO. 2

STATION	WIDTH	FLOODWAY		WATER SURFACE ELEVATION		
		SECTION AREA	MEAN VELOCITY	WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
A -1.000	1441.	10137.	.5	7.5	6.5	1.0
B -2.000	966.	8063.	.7	7.9	6.9	1.0
C -3.100	727.	7402.	.7	8.4	7.4	1.0
C -3.200	397.	1945.	2.9	8.4	7.4	1.0
C -3.300	355.	1745.	3.1	8.4	7.4	1.0
C -3.400	432.	1772.	2.7	8.3	7.5	1.0
D -4.000	2083.	16531.	.3	9.4	8.4	1.0
E -7.000	3533.	28745.	.2	9.5	8.5	1.0
F -8.000	2052.	14342.	.3	9.8	8.9	.9
F -9.100	2427.	15215.	.3	10.1	9.2	.9
G -9.200	123.	1533.	3.5	10.0	9.1	.9
G -9.300	123.	1533.	3.5	10.0	9.1	.9
G -9.400	1866.	13870.	.3	10.2	9.3	.9
H -10.000	2247.	13030.	.3	10.3	9.4	.9
I -11.000	1942.	17581.	.3	10.5	9.6	.9

## AR FLOOD

## SUMMARY PRINTOUT TABLE 150

SECNO	XLCH	ELTRD	ELLC	EL4TN	Q	CWSEL	CP1WS	EG	10K+S	VCH	AREA	.01K
			0.	-13.40	2355.00	5.22	-7.97	5.23	.48	.90	9839.88	3397.59
1.000	0.	0.	0.	-13.40	4350.00	6.15	-5.98	6.17	1.00	1.37	12581.80	4348.29
1.000	0.	0.	0.	-18.46	5500.00	6.48	-5.01	6.50	1.35	1.62	13627.00	4726.35
1.000	0.	0.	0.	-13.40	8735.00	7.46	-2.74	7.49	2.13	2.12	16951.56	5983.14
			0.	-20.90	2355.00	5.37	-12.57	5.38	.42	.91	7328.26	3618.43
2.000	4000.00	0.	0.	-20.90	4350.00	6.46	-10.11	6.48	.95	1.42	9150.70	4473.94
2.000	4000.00	0.	0.	-20.90	5500.00	6.90	-9.01	6.93	1.28	1.69	9930.53	4853.27
2.000	4000.00	0.	0.	-20.90	8735.00	8.11	-6.24	8.16	2.10	2.27	12539.73	6022.00
			0.	-19.10	2295.00	5.53	-15.95	5.54	.20	.78	6700.61	5104.05
3.100	6000.00	0.	0.	-19.10	4250.00	6.83	-14.40	6.85	.50	1.27	8276.15	6034.36
3.100	6000.00	0.	0.	-19.10	5370.00	7.41	-13.64	7.43	.69	1.52	8989.09	6482.24
3.100	6000.00	0.	0.	-19.10	8540.00	8.95	-11.73	9.00	1.20	2.10	10961.86	7795.40
			0.	-8.27	2295.00	5.52	-1.93	5.62	7.38	2.60	998.53	844.55
3.200	100.00	0.	0.	-8.27	4250.00	6.81	.13	7.01	12.73	3.77	2544.51	1191.22
3.200	100.00	0.	0.	-8.27	5370.00	7.38	.97	7.60	13.97	4.11	3566.67	1436.64
3.200	100.00	0.	0.	-8.27	8540.00	8.95	2.94	9.15	13.05	4.39	6848.11	2364.47
			0.	-8.27	2295.00	5.55	0.	5.66	7.28	2.59	1015.95	850.49
3.300	26.00	4.97	5.60	-8.27	4250.00	6.81	0.	7.01	12.82	3.78	2472.00	1186.81
3.300	26.00	4.97	5.60	-8.27	5370.00	7.38	0.	7.60	14.22	4.15	3406.34	1423.82
3.300	26.00	4.97	5.60	-8.27	8540.00	8.95	0.	9.15	13.13	4.40	6823.87	2357.04
			0.	-8.27	2295.00	5.59	-1.93	5.69	7.16	2.57	1037.70	857.59
3.400	50.00	0.	0.	-8.27	4250.00	6.88	.14	7.07	12.23	3.71	2650.34	1215.20
3.400	50.00	0.	0.	-8.27	5370.00	7.46	.97	7.67	13.33	4.03	3700.62	1470.87
3.400	50.00	0.	0.	-8.27	8540.00	9.02	2.96	9.21	12.62	4.33	6975.68	2403.73
			0.	-7.60	2195.00	6.12	-1.72	6.12	.44	.72	12388.20	3296.49
4.000	5200.00	0.	0.	-7.60	4070.00	7.68	.14	7.68	.63	.96	16879.01	5125.98
4.000	5200.00	0.	0.	-7.60	5145.00	8.36	1.83	8.37	.72	1.07	18911.83	6045.50
4.000	5200.00	0.	0.	-7.60	8195.00	10.05	2.68	10.05	.91	1.31	24067.96	8595.47
			0.	-7.40	2100.00	6.20	-1.63	6.21	.20	.52	20206.81	4677.22
7.000	3000.00	0.	0.	-7.40	3895.00	7.79	.14	7.79	.26	.65	29030.93	7697.59
7.000	3000.00	0.	0.	-7.40	4930.00	8.49	1.88	8.49	.28	.70	33278.04	9282.55
7.000	3000.00	0.	0.	-7.40	7865.00	10.20	2.56	10.20	.32	.82	44564.52	13806.73
			0.	-5.30	2050.00	6.51	.37	6.52	.78	.95	9809.22	2315.29
8.000	5500.00	0.	0.	-5.30	3510.00	8.16	2.36	8.17	.92	1.15	14548.04	3962.64
8.000	5500.00	0.	0.	-5.30	4425.00	8.89	2.94	8.90	1.00	1.25	16809.76	4831.52
8.000	5500.00	0.	0.	-5.30	7705.00	10.65	4.13	10.66	1.12	1.46	22677.55	7285.59

Way and. FDT indicate distance should be 3500'  
 Since profile is flat, negligible change is:

FDT, as presently shown is correct.

19 APR 63 11.51.05

SECVO	XLCH	ELTRD	ELLC	EL*IN	G	CWSEL	CPIWS	EG	10K*S	VCH	AREA	.01K
				-6.00	2005.00	6.90	-7.75	6.81	.80	.97	8742.77	2243.56
9.100	5400.00	0.	0.	-6.00	3730.00	8.46	.73	8.47	.84	1.11	15126.71	4074.09
9.100	5400.00	0.	0.	-6.00	4720.00	9.20	1.36	9.21	.85	1.17	18394.15	5111.47
9.100	5400.00	0.	0.	-6.00	7540.00	10.96	3.59	10.96	.84	1.27	27135.75	8238.10
9.200	100.00	0.	0.	-6.60	2005.00	6.79	-1.23	6.87	5.39	2.15	931.51	863.26
9.200	100.00	0.	0.	-6.60	3730.00	8.42	.68	8.58	9.49	3.23	1627.49	1210.57
9.200	100.00	0.	0.	-6.60	4720.00	9.14	1.56	9.32	10.39	3.56	2803.05	1464.35
9.200	100.00	0.	0.	-6.60	7540.00	10.91	3.57	11.06	9.02	3.70	7665.58	2510.04
9.300	24.00	8.00	7.20	-6.60	2005.00	6.80	0.	6.87	5.41	2.15	930.87	862.32
9.300	24.00	8.00	7.20	-6.60	3730.00	8.47	0.	8.63	9.23	3.20	1703.79	1227.75
9.300	24.00	8.00	7.20	-6.60	4720.00	9.14	0.	9.32	10.39	3.56	2803.20	1464.38
9.300	24.00	8.00	7.20	-6.60	7540.00	10.91	0.	11.06	9.02	3.70	7665.77	2510.09
9.400	50.00	0.	0.	-6.00	2005.00	6.88	-1.42	6.88	.67	.93	8519.14	2447.21
9.400	50.00	0.	0.	-6.00	3730.00	8.64	.03	8.65	.76	1.10	14365.55	4272.25
9.400	50.00	0.	0.	-6.00	4720.00	9.34	.75	9.35	.83	1.19	17070.68	5180.18
9.400	50.00	0.	0.	-6.00	7540.00	11.08	2.81	11.08	.90	1.36	24801.00	7950.43
9.400	50.00	0.	0.	-6.00	2005.00	6.95	-3.35	6.95	.38	.69	12386.67	3237.02
10.000	1500.00	0.	0.	-4.60	3730.00	8.73	1.51	8.74	.49	.87	17853.56	5343.81
10.000	1500.00	0.	0.	-4.60	4720.00	9.44	2.64	9.44	.56	.97	20194.82	6327.49
10.000	1500.00	0.	0.	-4.60	7540.00	11.19	3.66	11.20	.68	1.17	26422.99	9136.57
11.000	2200.00	0.	0.	-3.30	1925.00	7.06	1.55	7.06	.35	.58	12537.93	3266.51
11.000	2200.00	0.	0.	-3.30	3580.00	8.87	2.05	8.88	.44	.75	18362.79	5389.13
11.000	2200.00	0.	0.	-3.30	4540.00	9.60	2.18	9.60	.50	.84	21072.69	6418.17
11.000	2200.00	0.	0.	-3.30	7260.00	11.39	2.75	11.39	.59	1.01	28642.12	9425.58

## AR FLOOD

## SUMMARY PRINTOUT TABLE 150

SECNO	Q	CVSEL	DIFWSP	DIFWSX	DIFKVS	TOPWID	XLCH
1.000	23554.00	5.22	0.	0.	2.22	2801.49	0.
1.000	4350.00	6.15	.93	0.	3.15	3083.84	0.
1.000	5500.00	6.48	.33	0.	3.48	3184.89	0.
1.000	8735.00	7.45	.97	0.	4.46	3666.09	0.
2.000	23554.00	5.37	0.	.15	0.	1613.65	4000.00
2.000	4350.00	6.46	1.09	.31	0.	1716.46	4000.00
2.000	5500.00	6.90	.44	.42	0.	1873.05	4000.00
2.000	8735.00	8.11	1.21	.65	0.	2457.33	4000.00
3.100	22954.00	5.53	0.	.16	0.	1177.69	6000.00
3.100	4250.00	6.83	1.30	.37	0.	1232.34	6000.00
3.100	5370.00	7.41	.57	.50	0.	1251.07	6000.00
3.100	8540.00	8.95	1.55	.84	0.	1301.47	6000.00
3.200	22954.00	5.52	0.	-.01	0.	544.86	100.00
3.200	4250.00	6.81	1.29	-.02	0.	1705.90	100.00
3.200	5370.00	7.39	.58	-.02	0.	1843.65	100.00
3.200	8540.00	8.95	1.57	-.00	0.	2323.65	100.00
3.300	22954.00	5.55	0.	.04	0.	575.17	26.00
3.300	4250.00	6.81	1.25	-.00	0.	1598.61	26.00
3.300	5370.00	7.39	.57	-.01	0.	1673.02	26.00
3.300	8540.00	8.95	1.57	-.00	0.	2321.22	26.00
3.400	22954.00	5.59	0.	.04	0.	610.93	50.00
3.400	4250.00	6.93	1.29	.87	0.	1720.67	50.00
3.400	5370.00	7.46	.59	.09	0.	1860.94	50.00
3.400	8540.00	9.02	1.56	.07	0.	2336.40	50.00
4.000	21954.00	6.12	0.	.53	0.	2820.89	5200.00
4.000	4070.00	7.69	1.56	.88	0.	2940.87	5200.00
4.000	5145.00	8.36	.68	.90	0.	2997.13	5200.00
4.000	8195.00	10.05	1.68	1.02	0.	3137.22	5200.00
7.000	2100.00	6.20	0.	.09	0.	5194.00	3000.00
7.000	3895.00	7.77	1.59	.11	0.	5919.22	3000.00
7.000	4930.00	8.47	.70	.13	0.	6252.30	3000.00
7.000	7865.00	10.20	1.70	.15	0.	7061.50	3000.00
8.000	20504.00	6.51	0.	.31	0.	2709.14	6500.00
8.000	3310.00	9.16	1.65	.37	0.	3029.72	6500.00
8.000	4825.00	8.89	.73	.40	0.	3171.31	6500.00
8.000	7705.00	10.65	1.76	.45	0.	3512.16	6500.00



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SECVD	?	CASEL	DIF.SP	DIF.SX	DIF.WS	TOPWID	XLCH
9.100	2005.00	6.80	0.	.29	0.	3434.73	5400.00
9.100	3730.00	8.46	1.66	.30	0.	4257.72	5400.00
9.100	4720.00	9.20	.74	.31	0.	4622.60	5400.00
9.100	7540.00	10.96	1.76	.31	0.	5200.21	5400.00
9.200	2005.00	6.79	0.	-.01	0.	123.00	100.00
9.200	3730.00	8.42	1.62	-.05	0.	1288.78	100.00
9.200	4720.00	9.14	.73	-.06	0.	1947.37	100.00
9.200	7540.00	10.91	1.77	-.04	0.	3550.77	100.00
9.300	2005.00	6.80	0.	.00	0.	123.00	24.00
9.300	3730.00	8.47	1.68	.06	0.	1341.38	24.00
9.300	4720.00	9.14	.67	.00	0.	1947.44	24.00
9.300	7540.00	10.91	1.77	.00	0.	3550.82	24.00
9.400	2005.00	6.83	0.	.08	0.	2889.39	50.00
9.400	3730.00	8.64	1.77	.17	0.	3720.30	50.00
9.400	4720.00	9.34	.70	.20	0.	4847.45	50.00
9.400	7540.00	11.08	1.74	.16	0.	4862.47	50.00
10.000	2005.00	6.95	0.	.08	0.	2898.37	1500.00
10.000	3730.00	8.73	1.78	.09	0.	3242.78	1500.00
10.000	4720.00	9.44	.71	.18	0.	3383.94	1500.00
10.000	7540.00	11.19	1.75	.11	0.	3733.57	1500.00
11.000	1325.00	7.05	0.	.11	0.	2838.06	2200.00
11.000	3580.00	8.87	1.81	.14	0.	3580.56	2200.00
11.000	4540.00	9.60	.73	.16	0.	3877.83	2200.00
11.000	7260.00	11.39	1.78	.19	0.	4607.68	2200.00

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## FLOOD INSURANCE ZONE DATA FOR AR FL300

## FLOOD HAZARD FACTOR FOR ENTIRE REACH USING SECTIONS

SECTION NUMBER	CUMULATIVE DISTANCE	ELEVATION DIFFERENCE BETWEEN BASE FLOOD AND		
		10	2	0.2
1-000	0.	-1.27	-0.33	.97
2-000	4000.	-1.58	-0.44	1.21
3-100	10000.	-1.93	-0.57	1.55
3-200	10100.	-1.97	-0.58	1.57
3-300	10126.	-1.82	-0.59	1.57
3-400	10176.	-1.87	-0.57	1.56
4-000	15376.	-2.25	-0.63	1.68
7-000	19376.	-2.29	-0.70	1.70
8-000	24976.	-2.38	-0.73	1.76
9-100	30276.	-2.40	-0.74	1.76
9-200	30376.	-2.35	-0.73	1.77
9-300	30400.	-2.35	-0.67	1.77
9-400	30450.	-2.47	-0.70	1.74
10-000	31950.	-2.49	-0.71	1.75
11-000	34150.	-2.54	-0.73	1.78

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 WEIGHTED AVG FOR REACH -2.09      -0.63      1.58  
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FHF FOR THE REACH = 0.20 WITH 100.0 PERCENT OF THE REACH WITHIN 1.0 FEET  
 ZONE FOR THE REACH = A 4  
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3.781	7.133	7.73	9.154
5.214	7.173	7.767	9.283
6.226	7.313	8.477	10.988
6.357	7.411	8.588	10.229
6.629	8.238	8.94E	10.663
6.889	8.505	9.223	10.966
6.889	8.51	9.227	10.967
6.889	8.519	9.237	10.967
6.969	8.661	9.383	11.062
7.054	8.743	9.483	11.134
7.155	8.884	9.636	11.39
2.281-98239	0.897616124	1.656496653	