

Appendix C WinXSPRO Output 2005 Gravel Sites

Please refer to the WinXSPRO manual for definition of terms and information on output format

*****WinXSPRO*****

C:\Watersher GeoDynamir Transport\WINXSPRO\4-3.out

Input File: C:\Watersher GeoDynamir Transport\WINXSPRO\4-3.txt

Run Date: 9/11/2006

Analysis Procedure: Hydraulics

Cross Section Number: 4-3

Survey Date: 9/11/2006

Resistance Method: Jarrett's Equation

STAGE (ft)	#SEC	AREA (sq ft)	PERIM (ft)	WIDTH (ft)	R (ft)	DHYD (ft)	SLOPE (ft/ft)	n	VAVG (ft/s)	Q (cfs)	SHEAR (psf)
0.5	T	3.24	16.13	16	0.2	0.2	0.04	0.148	0.68	2.22	0.5
1	T	14.69	28.25	27.88	0.52	0.53	0.04	0.127	1.5	22.11	1.3
1.5	T	31.06	35.19	34.56	0.88	0.9	0.04	0.117	2.33	72.52	2.2
2	T	48.93	37.58	36.65	1.3	1.33	0.04	0.11	3.22	157.7	3.25
2.5	T	67.52	39.53	38.21	1.71	1.77	0.04	0.105	4.04	272.66	4.26
3	T	87.61	43.73	42.14	2	2.08	0.04	0.103	4.61	403.89	5
3.5	T	110.61	52.21	50.17	2.12	2.2	0.04	0.102	4.83	534.05	5.29
4	T	137.55	58.92	56.36	2.33	2.44	0.04	0.1	5.23	719.89	5.83
4.5	T	166.58	62.89	59.73	2.65	2.79	0.04	0.098	5.81	968.06	6.61
5	T	197.16	65.8	62.22	3	3.17	0.04	0.096	6.44	1269.33	7.48
5.5	T	228.64	67.71	63.69	3.38	3.59	0.04	0.094	7.11	1625.44	8.43

*****WinXSPRO*****

C:\Watersher GeoDynamir Transport\WINXSPRO\4-2.out

Input File: C:\Watersher GeoDynamir Transport\WINXSPRO\4-2.txt
 Run Date: 9/11/2006
 Analysis Procedure: Hydraulics
 Cross Section Number: 4-2
 Survey Date: 9/11/2006

Resistance Method: Jarrett's Equation

STAGE (ft)	#SEC	AREA (sq ft)	PERIM (ft)	WIDTH (ft)	R (ft)	DHYD (ft)	SLOPE (ft/ft)	n	VAVG (ft/s)	Q (cfs)	SHEAR (psf)
0.5 T		2.7	9.89	9.59	0.27	0.28	0.0304	0.127	0.85	2.3	0.52
1 T		12.51	24.64	23.99	0.51	0.52	0.0307	0.116	1.43	17.88	0.97
1.5 T		27	38.33	37.31	0.7	0.72	0.0311	0.11	1.88	50.72	1.37
2 T		47.66	48.81	47.17	0.98	1.01	0.0314	0.105	2.47	117.52	1.92
2.5 T		73.87	62.25	60.11	1.19	1.23	0.0318	0.102	2.9	214.47	2.35
3 T		106.79	72.57	70.08	1.47	1.52	0.0321	0.099	3.48	371.14	2.95
3.5 T		144.67	82.12	79.34	1.76	1.82	0.0325	0.097	4.04	584.59	3.57
4 T		184.72	83.82	80.69	2.2	2.29	0.0328	0.094	4.87	899.96	4.51
4.5 T		225.35	85.34	81.82	2.64	2.75	0.0332	0.092	5.67	1277.28	5.47
5 T		266.44	86.58	82.53	3.08	3.23	0.0335	0.09	6.44	1716.94	6.44
5.5 T		307.88	87.82	83.24	3.51	3.7	0.0339	0.088	7.19	2213.5	7.41
6 T		349.68	89.06	83.95	3.93	4.17	0.0342	0.087	7.91	2765.29	8.38
6.5 T		391.83	90.29	84.66	4.34	4.63	0.0346	0.086	8.6	3370.92	9.36
7 T		434.34	91.53	85.37	4.75	5.09	0.0349	0.085	9.28	4029.18	10.34
7.5 T		477.17	92.68	85.9	5.15	5.55	0.0353	0.084	9.94	4742.37	11.33
8 T		520.23	93.76	86.32	5.55	6.03	0.0356	0.083	10.59	5507.6	12.33
8.5 T		563.49	94.85	86.73	5.94	6.5	0.036	0.083	11.22	6321.28	13.33
9 T		606.96	95.94	87.15	6.33	6.96	0.0363	0.082	11.83	7182.32	14.33
9.5 T		650.63	97.01	87.5	6.71	7.44	0.0367	0.082	12.43	8090.3	15.34
10 T		694.45	98.07	87.75	7.08	7.91	0.037	0.081	13.02	9043.47	16.35

*****WinXSPRO*****

C:\Watershed GeoDynamic Transport\WINXSPRO\pack41.out

Input File: C:\Watershed GeoDynamic Transport\WINXSPRO\pack41.txt
 Run Date: 9/11/2006
 Analysis Procedure: Hydraulics
 Cross Section Number: 4-1
 Survey Date: 9/6/2006

Resistance Method: Jarrett's Equation

STAGE (ft)	#SEC	AREA (sq ft)	PERIM (ft)	WIDTH (ft)	R (ft)	DHYD (ft)	SLOPE (ft/ft)	n	VAVG (ft/s)	Q (cfs)	SHEAR (psf)	
0.5 T		0.97	4.01	3.88	0.24	0.25	0.0446		0.15	0.81	0.78	0.67
1 T		6.98	20.1	19.68	0.35	0.35	0.0442		0.141	1.09	7.61	0.96
1.5 T		19.52	33.44	32.72	0.58	0.6	0.0438		0.129	1.67	32.68	1.59
2 T		39.58	43.46	42.21	0.91	0.94	0.0433		0.12	2.42	95.74	2.46
2.5 T		60.98	45.14	43.39	1.35	1.41	0.0429		0.112	3.35	204.39	3.62
3 T		82.74	46.17	43.65	1.79	1.9	0.0425		0.107	4.23	350.21	4.75
3.5 T		104.76	47.9	44.78	2.19	2.34	0.0421		0.103	4.99	522.55	5.74
4 T		127.58	50.09	46.49	2.55	2.74	0.0417		0.1	5.65	721.29	6.62
4.5 T		151.25	52.28	48.2	2.89	3.14	0.0413		0.098	6.28	949.38	7.45
5 T		175.63	53.76	48.95	3.27	3.59	0.0408		0.096	6.93	1217.91	8.33
5.5 T		200.14	54.77	49.06	3.65	4.08	0.0404		0.094	7.6	1521.07	9.22
6 T		224.69	55.78	49.17	4.03	4.57	0.04		0.092	8.23	1849.23	10.05

*****WinXSPRO*****

C:\Watershe GeoDynamic Transport\WINXSPRO\3-2.out

Input File: C:\Watershe GeoDynamic Transport\WINXSPRO\3-2.txt
 Run Date: 9/11/2006
 Analysis Procedure: Hydraulics
 Cross Section Number: 3-2
 Survey Date: 9/11/2006

Resistance Method: Jarrett's Equation

STAGE (ft)	#SEC	AREA (sq ft)	PERIM (ft)	WIDTH (ft)	R (ft)	DHYD (ft)	SLOPE (ft/ft)	n	VAVG (ft/s)	Q (cfs)	SHEAR (psf)
0.5 T		2.48	9.52	9.22	0.26	0.27	0.0339	0.134	0.83	2.06	0.55
1 T		8.43	14.06	13.43	0.6	0.63	0.0355	0.119	1.67	14.07	1.33
1.5 T		15.66	16.11	15.11	0.97	1.04	0.0371	0.112	2.51	39.24	2.25
2 T		23.55	18.55	16.88	1.27	1.4	0.0387	0.109	3.14	74.06	3.06
2.5 T		32.56	21.74	19.16	1.5	1.7	0.0403	0.108	3.62	117.99	3.76
3 T		42.83	25.58	22.27	1.67	1.92	0.0419	0.108	3.99	171.04	4.37
3.5 T		54.87	29.65	25.94	1.85	2.12	0.0434	0.107	4.36	239.18	5.02
4 T		68.87	34.42	30.06	2	2.29	0.045	0.107	4.67	321.68	5.62
4.5 T		84.7	38.48	33.26	2.2	2.55	0.0466	0.107	5.08	430.01	6.41
5 T		102.11	42.19	36.19	2.42	2.82	0.0482	0.107	5.52	563.17	7.28
5.5 T		120.68	44.5	38.06	2.71	3.17	0.0498	0.106	6.08	734.23	8.43
6 T		140.88	49.6	42.76	2.84	3.29	0.0514	0.107	6.35	894.18	9.11
6.5 T		163.44	54.69	47.47	2.99	3.44	0.053	0.107	6.64	1085.91	9.88

*****WinXSPRO*****

C:\Watershed GeoDynamic Transport\WINXSPRO\3-1.out

Input File: C:\Watershed GeoDynamic Transport\WINXSPRO\3-1.txt
 Run Date: 9/11/2006
 Analysis Procedure: Hydraulics
 Cross Section Number: 3-1
 Survey Date: 9/11/2006

Resistance Method: Jarrett's Equation

STAGE (ft)	#SEC	AREA (sq ft)	PERIM (ft)	WIDTH (ft)	R (ft)	DHYD (ft)	SLOPE (ft/ft)	n	VAVG (ft/s)	Q (cfs)	SHEAR (psf)
0.5	T	2.94	13.37	12.85	0.22	0.23	0.039	0.145	0.73	2.16	0.54
1	T	10.73	18.91	17.88	0.57	0.6	0.0406	0.126	1.62	17.39	1.44
1.5	T	20.83	24.31	22.77	0.86	0.91	0.0421	0.12	2.29	47.74	2.25
2	T	33.07	27.8	26	1.19	1.27	0.0437	0.115	3.02	99.95	3.24
2.5	T	48.11	36.08	34.14	1.33	1.41	0.0452	0.115	3.34	160.5	3.76
3	T	67.21	43.52	41.49	1.54	1.62	0.0468	0.114	3.78	254.34	4.51
3.5	T	89.42	49.48	47.36	1.81	1.89	0.0483	0.112	4.33	387.07	5.45
4	T	114.41	54.09	51.72	2.12	2.21	0.0499	0.111	4.95	566.47	6.58
4.5	T	142.07	62.95	60.13	2.26	2.36	0.0514	0.111	5.24	745.05	7.24
5	T	174.18	69.44	65.98	2.51	2.64	0.053	0.11	5.75	1000.68	8.3

*****WinXSPRO*****

C:\Watershed GeoDynamic Transport\WINXSPRO\2.out

Input File: C:\Watershed GeoDynamic Transport\WINXSPRO\2.txt

Run Date: 9/11/2006

Analysis Procedure: Hydraulics

Cross Section Number: 2

Survey Date: 9/11/2006

Resistance Method: Jarrett's Equation

STAGE (ft)	#SEC	AREA (sq ft)	PERIM (ft)	WIDTH (ft)	R (ft)	DHYD (ft)	SLOPE (ft/ft)	n	VAVG (ft/s)	Q (cfs)	SHEAR (psf)
0.5	T	4.68	14.13	14.03	0.33	0.33	0.0143	0.093	0.91	4.27	0.3
1	T	13.82	22.11	21.87	0.63	0.63	0.017	0.089	1.58	21.86	0.66
1.5	T	26.6	28.18	27.64	0.94	0.96	0.0197	0.089	2.27	60.31	1.16
2	T	40.62	29.96	28.9	1.36	1.41	0.0224	0.088	3.11	126.32	1.9
2.5	T	56.09	34.59	33.31	1.62	1.68	0.0251	0.089	3.66	205.09	2.54
3	T	73.83	38.96	37.48	1.9	1.97	0.0278	0.09	4.21	311.06	3.29
3.5	T	94.38	46.42	44.75	2.03	2.11	0.0305	0.092	4.52	426.28	3.87
4	T	118.57	53.89	52.01	2.2	2.28	0.0332	0.094	4.87	577.7	4.56
4.5	T	145.91	58.15	56.03	2.51	2.6	0.0359	0.095	5.48	800.22	5.62
5	T	174.39	60.28	57.88	2.89	3.01	0.0386	0.096	6.23	1085.76	6.97
5.5	T	203.79	62.45	59.78	3.26	3.41	0.0413	0.096	6.94	1413.6	8.41
6	T	234.21	64.82	61.88	3.61	3.78	0.044	0.097	7.61	1781.57	9.92

*****WinXSPRO*****

C:\Watershe GeoDynamir Transport\WINXSPRO\1.out

Input File: C:\Watershe GeoDynamir Transport\WINXSPRO\1.txt
 Run Date: 9/11/2006
 Analysis Procedure: Hydraulics
 Cross Section Number: 1
 Survey Date: 9/11/2006

Resistance Method: Jarrett's Equation

STAGE (ft)	#SEC	AREA (sq ft)	PERIM (ft)	WIDTH (ft)	R (ft)	DHYD (ft)	SLOPE (ft/ft)	n	VAVG (ft/s)	Q (cfs)	SHEAR (psf)
0.5 T		3.73	14.41	14.33	0.26	0.26	0.0196	0.109	0.77	2.89	0.32
1 T		12.24	18.65	18.32	0.66	0.67	0.0206	0.095	1.69	20.65	0.84
1.5 T		23.2	28.66	27.89	0.81	0.83	0.0215	0.094	2.02	46.78	1.09
2 T		40.58	40.94	39.77	0.99	1.02	0.0225	0.092	2.4	97.35	1.39
2.5 T		62.52	49.51	47.98	1.26	1.3	0.0234	0.09	2.95	184.27	1.85
3 T		87.64	53.48	51.68	1.64	1.7	0.0244	0.088	3.68	322.21	2.49
3.5 T		115.06	60.82	58.78	1.89	1.96	0.0253	0.087	4.16	478.74	2.99
4 T		147.66	72.29	70	2.04	2.11	0.0263	0.087	4.45	657.64	3.35
4.5 T		184.74	81.12	78.26	2.28	2.36	0.0272	0.087	4.9	904.45	3.87
5 T		228.26	96.71	93.26	2.36	2.45	0.0282	0.088	5.06	1155.88	4.15
5.5 T		275.44	99.63	95.62	2.76	2.88	0.0291	0.086	5.8	1596.85	5.03
6 T		324.03	103.3	98.75	3.14	3.28	0.0301	0.086	6.46	2094.33	5.89
6.5 T		374.19	106.96	101.88	3.5	3.67	0.031	0.085	7.1	2657.52	6.78
7 T		425.91	110.63	105	3.85	4.06	0.032	0.085	7.72	3286.97	7.69