

Savini and Bodhaine (1971), USGS WSP							
Columbia River below Priest Rapids dam, 14 Aug 1963							
velocity (ft per sec) at a fixed point measured every minute for an hour							
velocity measured at various depths (given in % of total depth)							
5% of total depth		55% of total depth		95% of total depth			
time (min.)	velocity	time (min.)	velocity	time (min.)	velocity	time (min.)	velocity
1	3.96	1	3.50	1	2.28		
2	4.00	2	3.24	2	2.03		
3	4.14	3	3.06	3	1.66		
4	4.11	4	3.42	4	2.10		
5	3.82	5	3.39	5	2.06		
6	3.96	6	3.31	6	1.70		
7	4.07	7	3.46	7	1.95		
8	4.04	8	3.57	8	2.39		
9	3.85	9	3.13	9	1.95		
10	3.82	10	3.20	10	1.66		
11	3.71	11	3.02	11	2.14		
12	4.14	12	3.31	12	1.92		
13	3.78	13	3.28	13	2.17		
14	3.56	14	2.72	14	1.62		
15	3.74	15	2.87	15	1.84		
16	3.96	16	3.53	16	2.32		
17	3.78	17	3.36	17	2.17		
18	3.74	18	3.17	18	1.62		
19	3.78	19	3.24	19	2.14		
20	3.82	20	3.35	20	2.36		
21	3.78	21	3.06	21	2.03		
22	4.07	22	3.46	22	2.10		
23	3.74	23	3.13	23	1.88		
24	3.71	24	3.42	24	2.14		
25	4.04	25	3.50	25	1.81		
26	4.22	26	3.39	26	2.06		
27	3.89	27	3.57	27	2.32		
28	3.96	28	3.76	28	2.32		
29	3.89	29	3.64	29	2.50		
30	3.89	30	3.28	30	2.03		
31	4.11	31	3.68	31	2.21		
32	3.78	32	3.46	32	2.21		
33	3.56	33	3.31	33	2.25		
34	3.74	34	3.02	34	2.06		
35	3.96	35	3.35	35	1.84		
36	3.82	36	3.35	36	2.17		

37	3.67		37	3.31		37	2.50
38	3.78		38	3.17		38	1.95
39	3.82		39	3.42		39	2.21
40	3.96		40	3.28		40	2.25
41	3.93		41	3.28		41	2.43
42	4.18		42	3.94		42	2.50
43	3.93		43	3.50		43	2.39
44	4.04		44	3.50		44	2.32
45	4.00		45	3.50		45	2.06
46	3.93		46	3.53		46	1.95
47	4.18		47	3.46		47	2.47
48	3.85		48	3.24		48	2.10
49	3.85		49	3.50		49	2.14
50	3.93		50	3.61		50	2.43
51	3.89		51	3.50		51	2.21
52	3.67		52	3.35		52	1.92
53	3.63		53	3.28		53	1.88
54	3.85		54	3.57		54	2.14
55	3.96		55	3.42		55	2.36
56	4.14		56	3.61		56	2.21
57	3.85		57	3.35		57	1.99
58	4.00		58	3.53		58	2.58
59	4.18		59	3.31		59	2.32
60	4.07		60	3.50		60	2.28
61	3.74		61	3.35		61	1.99
62	3.71		62	3.35		62	2.14
63	3.85		63	3.68		63	2.61
64	3.71		64	3.24		64	2.03
65	3.63		65	3.35		65	2.39
66	4.00		66	3.24		66	2.28
N	66		N	66		N	66
minimum	3.56		minimum	2.72		minimum	1.62
maximum	4.22		maximum	3.94		maximum	2.61
mean	3.89		mean	3.37		mean	2.14
std dev	0.16		std dev	0.20		std dev	0.24