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MEMORANDUM

TO: Tom Lorz

FROM: Jerry McCann

DATE: November 5, 2009

RE: Juvenile Lamprey timing at McNary Dam 2000 to 2008.

Weekly average percent of juvenile lamprey passing McNary Dam is presented in Figure 1. These data use the daily collections at McNary Dam for the years 2000 to 2008. The collections are expanded for proportion of total discharge passing through the powerhouse to generate a daily passage index. Annual weekly percentages are presented in Table 1 below.

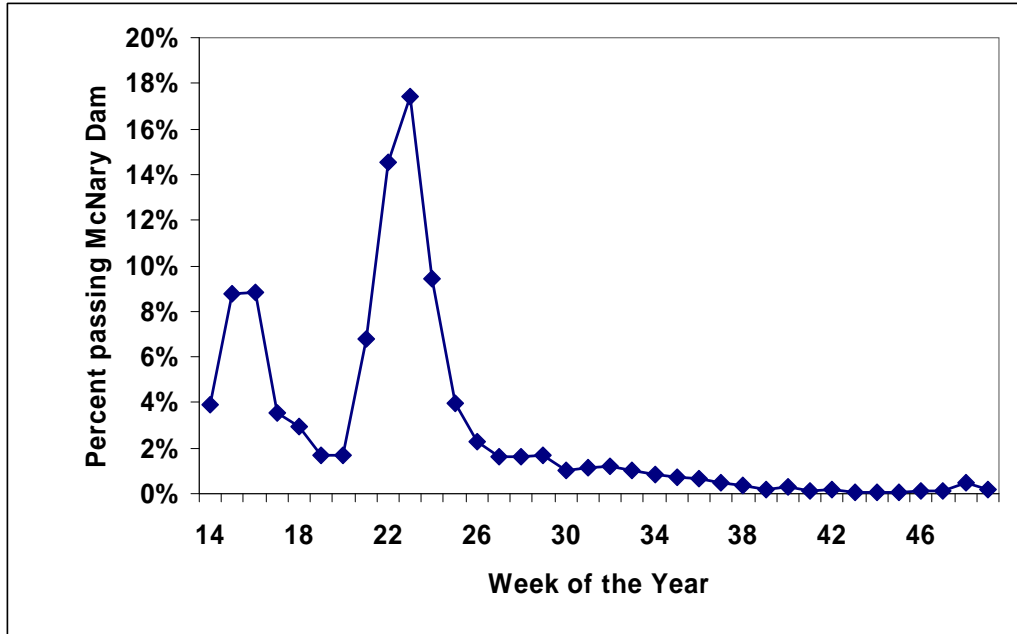


Table 1. Percent weekly average Juvenile Lamprey passage timing at McNary Dam based on average weekly passage index for the years 2000 to 2008.

Week at McNary Dam	2000	2001	2002	2003	2004	2005	2006	2007	2008	Overall
14	0.4	9.7	7.9	15.1	0.2	0.0	3.3	2.4	0.2	4.4
15	20.2	14.5	9.3	17.6	3.8	4.6	6.9	10.0	0.5	9.7
16	12.8	22.7	12.9	4.6	2.7	3.3	16.8	9.2	0.2	9.5
17	4.9	3.2	13.0	1.8	2.9	1.7	4.6	1.5	0.3	3.8
18	7.1	1.1	8.6	1.3	1.0	1.7	4.2	2.2	0.7	3.1
19	3.5	2.1	1.4	0.7	1.0	0.3	3.3	0.5	1.3	1.6
20	2.0	3.5	0.1	0.6	0.8	0.9	5.4	1.3	1.0	1.7
21	2.5	8.7	0.3	0.5	1.5	6.5	8.4	5.7	28.5	6.9
22	2.9	3.4	1.4	0.6	2.4	30.6	17.6	1.8	32.5	10.4
23	5.4	9.2	17.6	33.7	32.1	21.2	12.8	6.7	20.7	17.7
24	10.7	5.4	6.1	18.2	27.5	5.7	3.8	11.6	2.6	10.2
25	3.8	4.4	2.2	0.7	9.1	3.2	2.1	10.3	1.7	4.2
26	2.8	1.1	1.9	0.7	3.6	1.2	1.6	6.1	2.9	2.4
27	1.7	0.4	4.0	0.7	0.4	0.6	1.3	2.6	0.4	1.3
28	1.7	1.0	2.7	0.3	0.8	0.8	1.2	5.7	0.7	1.7
29	1.3	1.8	1.8	0.3	1.3	1.6	1.1	6.2	0.8	1.8
30	1.1	0.1	0.9	0.2	1.0	3.7	0.7	1.6	0.7	1.1
31	0.8	0.5	1.8	0.3	0.8	3.3	1.1	1.6	0.6	1.2
32	0.2	0.0	3.9	0.2	0.8	3.2	0.4	1.3	0.8	1.2
33	0.3	0.2	0.3	0.2	1.1	2.1	1.1	3.9	0.5	1.1
34	0.6	0.2	0.1	0.3	0.7	1.2	1.0	3.3	0.6	0.9
35	0.7	0.1	0.1	0.5	1.9	0.5	0.6	1.6	1.1	0.8
36	0.6	0.5	0.4	0.4	0.8	1.2	0.6	1.1	0.3	0.7
37	0.6	0.2	0.2	0.3	1.0	0.6	0.0	1.8	0.1	0.5
38	1.0	0.4	0.1	0.3	1.1	0.1	0.0	0.0	0.0	0.3
39	0.4	0.7	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.2

40	1.3	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2
41	0.9	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
42	1.2	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2
43	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
44	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
45	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
46	0.8	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
47	1.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1
48	2.1	2.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.6
49	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2