

APPENDIX G

COMPARISON OF MOUNTAIN WHITEFISH HABITAT AVAILABILITY RESULTS WITH AND WITHOUT SUBSTRATE CODING

Figure G-1: Comparison of mountain whitefish (MNWH) weighted useable width results with and without channel index (CI) suitability criteria for the Pine River Park site.

Figure G-2: Comparison of mountain whitefish (MNWH) weighted useable width results with and without channel index (CI) suitability criteria for the Chattaroy site.

Figure G-3: Comparison of mountain whitefish (MNWH) weighted useable width results with and without channel index (CI) suitability criteria for the Elk Park site.

Figure G-4: Comparison of mountain whitefish (MNWH) weighted useable width results with and without channel index (CI) suitability criteria for the Dragoon Creek.

Figure G-5: Comparison of mountain whitefish (MNWH) weighted useable width results with and without channel index (CI) suitability criteria for the Deadman Creek.

Figure G-6: Comparison of mountain whitefish (MNWH) weighted useable width results with and without channel index (CI) suitability criteria for the Otter Creek.

Figure G-1: Comparison of mountain whitefish (MNWH) weighted useable width results with and without channel index (CI) suitability criteria for the Pine River Park site. Substrate criteria were used for the channel index.

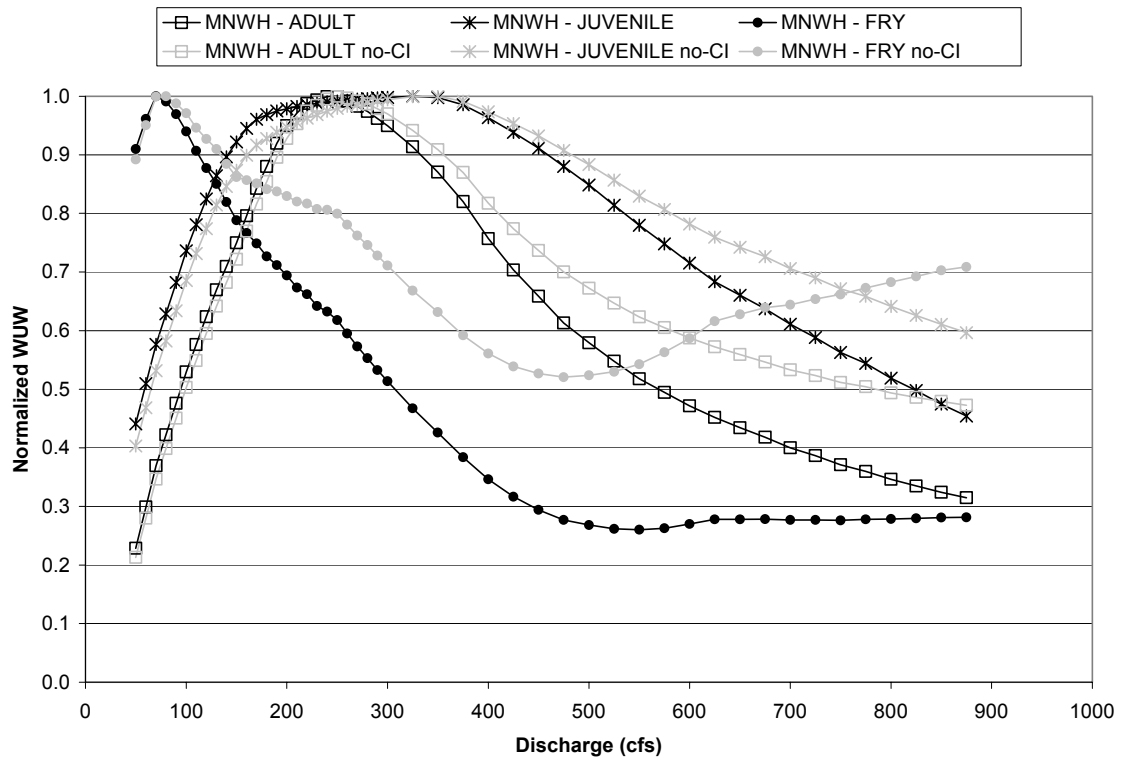


Figure G-2: Comparison of mountain whitefish (MNWH) weighted useable width results with and without channel index (CI) suitability criteria for the Chattaroy site. Substrate criteria were used for the channel index.

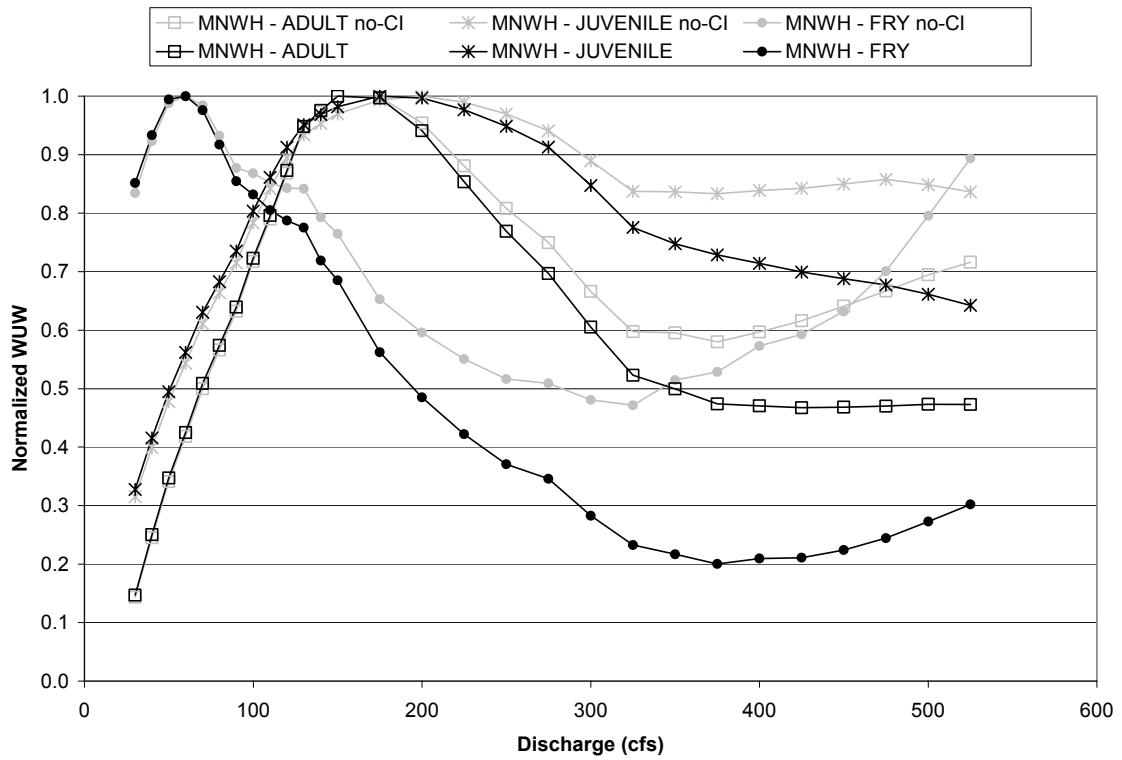


Figure G-3: Comparison of mountain whitefish (MNWH) weighted useable width results with and without channel index (CI) suitability criteria for the Elk Park site. Substrate criteria were used for the channel index.

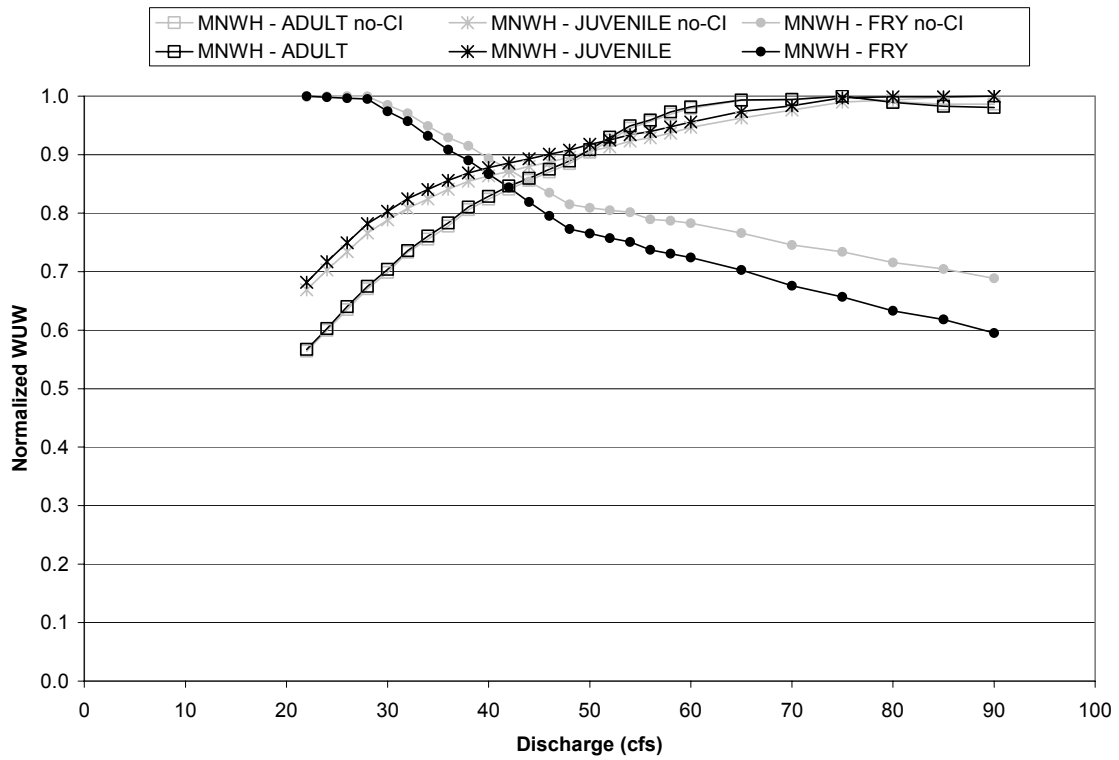


Figure G-4: Comparison of mountain whitefish (MNWH) weighted useable width results with and without channel index (CI) suitability criteria for the Dragoon Creek. Substrate criteria were used for the channel index.

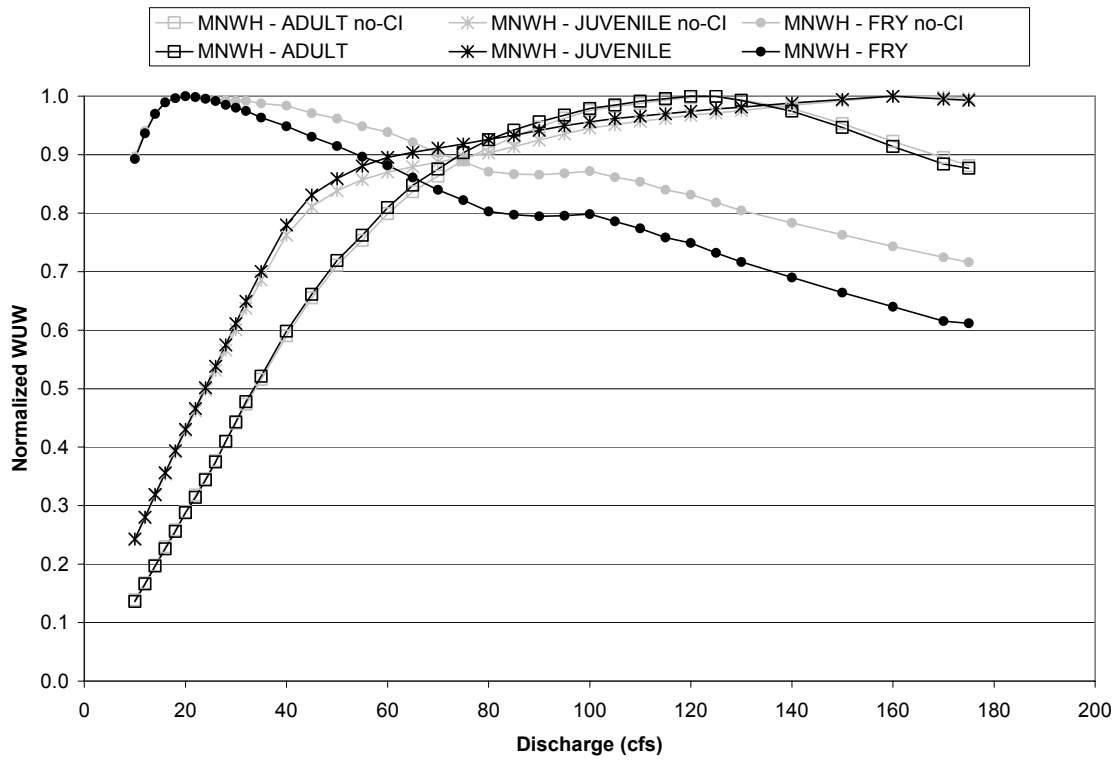


Figure G-5: Comparison of mountain whitefish (MNWH) weighted useable width results with and without channel index (CI) suitability criteria for the Deadman Creek. Substrate criteria were used for the channel index.

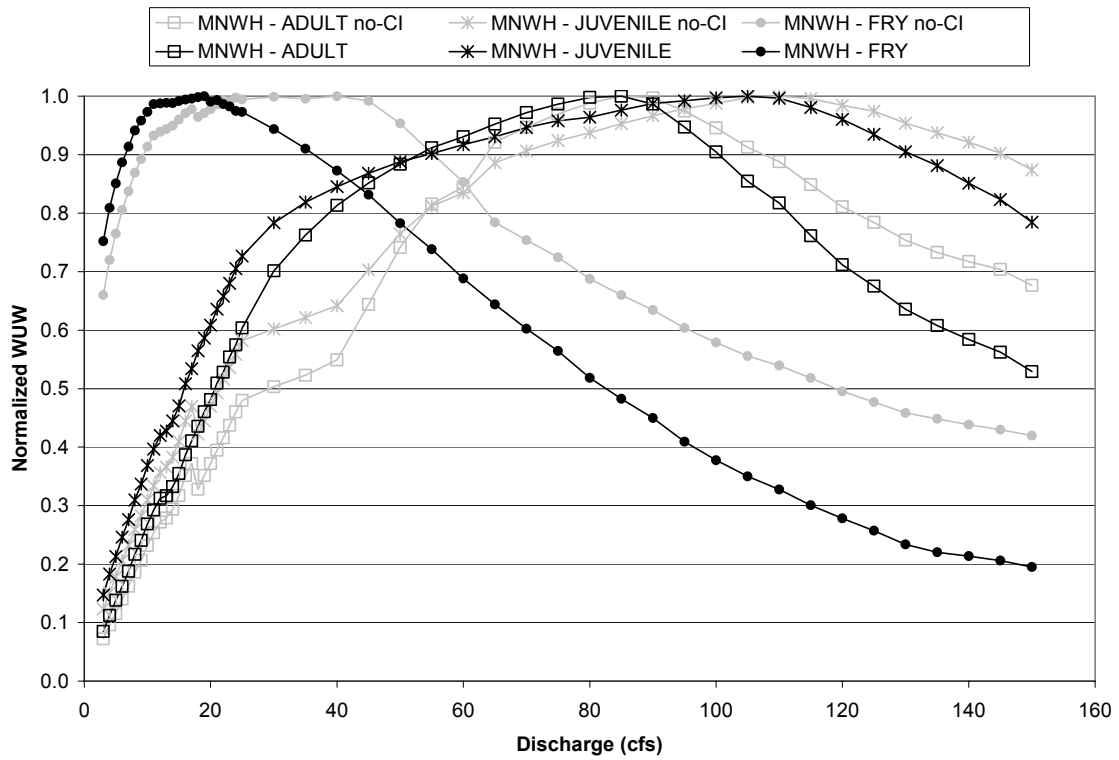
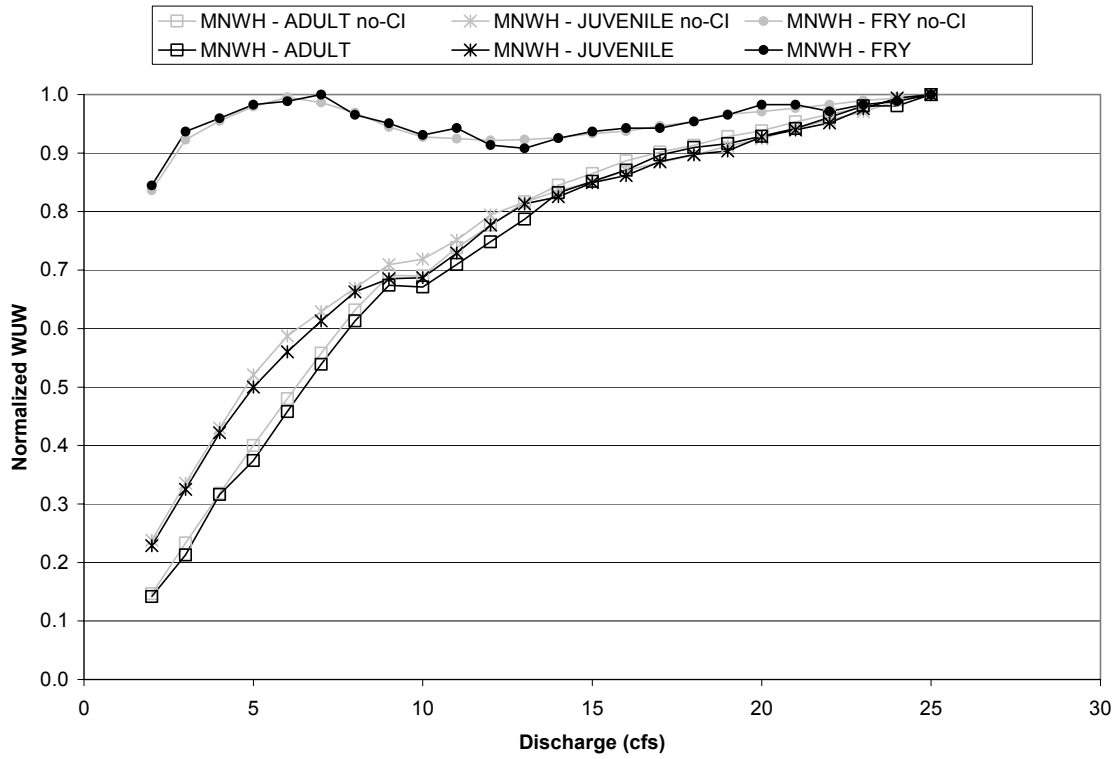


Figure G-6: Comparison of mountain whitefish (MNWH) weighted useable width results with and without channel index (CI) suitability criteria for the Otter Creek. Substrate criteria were used for the channel index.



APPENDIX H

DETAILED HABITAT RESULTS FOR RAINBOW TROUT FRY AND MOUNTAIN WHITEFISH FRY AND JUVENILE

Table H-1: Flows and habitat values for the Little Spokane River at Pine River Park rainbow trout fry life stage associated with the existing minimum flows (MISF), weekly flow statistics (10%, 50% and 90% exceedence flows), and the Wetted Perimeter flow (WP).

Table H-2: Flows and habitat values for the Little Spokane River at Pine River Park mountain whitefish fry life stage associated with the existing minimum flows (MISF), weekly flow statistics (10%, 50% and 90% exceedence flows), and the Wetted Perimeter flow (WP).

Table H-3: Flows and habitat values for the Little Spokane River at Pine River Park mountain whitefish juvenile life stage associated with the existing minimum flows (MISF), weekly flow statistics (10%, 50% and 90% exceedence flows), and the Wetted Perimeter flow (WP).

Table H-4: Flows and habitat values for the Little Spokane River at Chattaroy rainbow trout fry life stage associated with the existing minimum flows (MISF), weekly flow statistics (10%, 50% and 90% exceedence flows), and the Wetted Perimeter flow (WP).

Table H-5: Flows and habitat values for the Little Spokane River at Chattaroy mountain whitefish fry life stage associated with the existing minimum flows (MISF), weekly flow statistics (10%, 50% and 90% exceedence flows), and the Wetted Perimeter flow (WP).

Table H-6: Flows and habitat values for the Little Spokane River at Chattaroy mountain whitefish juvenile life stage associated with the existing minimum flows (MISF), weekly flow statistics (10%, 50% and 90% exceedence flows), and the Wetted Perimeter flow (WP).

Table H-7: Flows and habitat values for the Little Spokane River at Elk rainbow trout fry life stage associated with the existing minimum flows (MISF), weekly flow statistics (10%, 50% and 90% exceedence flows), and the Wetted Perimeter flow (WP).

Table H-8: Flows and habitat values for the Little Spokane River at Elk mountain whitefish fry life stage associated with the existing minimum flows (MISF), weekly flow statistics (10%, 50% and 90% exceedence flows), and the Wetted Perimeter flow (WP).

Table H-9: Flows and habitat values for the Little Spokane River at Elk mountain whitefish juvenile life stage associated with the existing minimum flows (MISF), weekly flow statistics (10%, 50% and 90% exceedence flows), and the Wetted Perimeter flow (WP).

Table H-1 Flows and habitat values for the Little Spokane River at Pine River Park rainbow trout fry life stage associated with the existing minimum flows (MISF), weekly flow statistics (10%, 50% and 90% exceedence flows), and the Wetted Perimeter flow (WP). The habitat values are normalized and are relative to the maximum useable habitat across the transect based on the peak of the WUW curve.

Date	Discharges (cfs)					Rainbow Trout Fry Habitat Relative to Optimum Habitat				
	MISF	Flow Exceedance			WP	MISF	Flow Exceedance			WP
		10%	50%	90%			10%	50%	90%	
Oct 1	130	170	150	109	160	0.35	0.29	0.32	0.38	0.31
Oct 15	140	193	154	103	160	0.33	0.26	0.31	0.40	0.31
Nov 1	150	214	160	113	160	0.32	0.24	0.31	0.37	0.31
Nov 15	150	233	180	123	160	0.32	0.23	0.27	0.35	0.31
Dec 1	150	287	187	123	160	0.32	0.17	0.27	0.35	0.31
Dec 15	150	324	209	132	160	0.32	0.14	0.25	0.34	0.31
Jan 1	150	336	214	130	160	0.32	0.14	0.24	0.35	0.31
Jan 15	150	437	227	150	160	0.32	0.13	0.23	0.32	0.31
Feb 1	150	514	234	162	160	0.32	0.15	0.23	0.30	0.31
Feb 15	170	750	277	176	160	0.29	0.12	0.18	0.28	0.31
Mar 1	190	839	409	200	160	0.26	0.11	0.12	0.26	0.31
Mar 15	218	898	470	222	160	0.24	0.11	0.14	0.24	0.31
Apr 1	250	1175	563	248	160	0.21	0.10	0.16	0.21	0.31
Apr 15	218	1107	582	230	160	0.24	0.11	0.16	0.23	0.31
May 1	192	1017	523	220	160	0.26	0.11	0.15	0.24	0.31
May 15	170	628	435	194	160	0.29	0.17	0.12	0.26	0.31
Jun 1	148	566	325	152	160	0.32	0.16	0.14	0.32	0.31
Jun 15	130	462	263	141	160	0.35	0.13	0.19	0.33	0.31
Jul 1	115	305	211	120	160	0.37	0.15	0.25	0.36	0.31
Jul 15	115	241	166	105	160	0.37	0.22	0.30	0.40	0.31
Aug 1	115	192	148	99	160	0.37	0.26	0.32	0.42	0.31
Aug 15	115	175	134	94	160	0.37	0.28	0.34	0.43	0.31
Sep 1	115	176	132	99	160	0.37	0.28	0.34	0.42	0.31
Sep 15	123	174	135	102	160	0.35	0.28	0.34	0.41	0.31
Average Habitat						0.31	0.18	0.24	0.33	0.31

Table H-2 Flows and habitat values for the Little Spokane River at Pine River Park mountain whitefish fry life stage associated with the existing minimum flows (MISF), weekly flow statistics (10%, 50% and 90% exceedence flows), and the Wetted Perimeter flow (WP). The habitat values are normalized and are relative to the maximum useable habitat across the transect based on the peak of the WUW curve.

Date	Discharges (cfs)					Mountain Whitefish Fry Habitat Relative to Optimum Habitat				
	MISF	Flow Exceedance			WP	MISF	Flow Exceedance			WP
		10%	50%	90%			10%	50%	90%	
Oct 1	130	170	150	109	160	0.85	0.75	0.79	0.91	0.77
Oct 15	140	193	154	103	160	0.82	0.71	0.78	0.93	0.77
Nov 1	150	214	160	113	160	0.79	0.67	0.77	0.90	0.77
Nov 15	150	233	180	123	160	0.79	0.64	0.73	0.87	0.77
Dec 1	150	287	187	123	160	0.79	0.54	0.72	0.87	0.77
Dec 15	150	324	209	132	160	0.79	0.47	0.68	0.85	0.77
Jan 1	150	336	214	130	160	0.79	0.45	0.67	0.85	0.77
Jan 15	150	437	227	150	160	0.79	0.31	0.65	0.79	0.77
Feb 1	150	514	234	162	160	0.79	0.26	0.64	0.76	0.77
Feb 15	170	750	277	176	160	0.75	0.28	0.56	0.74	0.77
Mar 1	190	839	409	200	160	0.71	0.28	0.34	0.69	0.77
Mar 15	218	898	470	222	160	0.66	0.28	0.28	0.66	0.77
Apr 1	250	1175	563	248	160	0.62	0.29	0.26	0.62	0.77
Apr 15	218	1107	582	230	160	0.66	0.28	0.26	0.64	0.77
May 1	192	1017	523	220	160	0.71	0.28	0.26	0.66	0.77
May 15	170	628	435	194	160	0.75	0.28	0.31	0.70	0.77
Jun 1	148	566	325	152	160	0.79	0.26	0.47	0.78	0.77
Jun 15	130	462	263	141	160	0.85	0.29	0.59	0.82	0.77
Jul 1	115	305	211	120	160	0.89	0.50	0.67	0.88	0.77
Jul 15	115	241	166	105	160	0.89	0.63	0.76	0.92	0.77
Aug 1	115	192	148	99	160	0.89	0.71	0.80	0.94	0.77
Aug 15	115	175	134	94	160	0.89	0.74	0.84	0.96	0.77
Sep 1	115	176	132	99	160	0.89	0.74	0.84	0.94	0.77
Sep 15	123	174	135	102	160	0.87	0.74	0.84	0.93	0.77
Average Habitat						0.79	0.47	0.60	0.82	0.77

Table H-3 Flows and habitat values for the Little Spokane River at Pine River Park mountain whitefish juvenile life stage associated with the existing minimum flows (MISF), weekly flow statistics (10%, 50% and 90% exceedence flows), and the Wetted Perimeter flow (WP). The habitat values are normalized and are relative to the maximum useable habitat across the transect based on the peak of the WUW curve.

Date	Discharges (cfs)					Mountain Whitefish Juvenile Habitat Relative to Optimum Habitat				
	MISF	Flow Exceedance			WP	MISF	Flow Exceedance			WP
		10%	50%	90%			10%	50%	90%	
Oct 1	130	170	150	109	160	0.86	0.96	0.92	0.78	0.95
Oct 15	140	193	154	103	160	0.90	0.98	0.93	0.75	0.95
Nov 1	150	214	160	113	160	0.92	0.98	0.94	0.79	0.95
Nov 15	150	233	180	123	160	0.92	0.99	0.97	0.84	0.95
Dec 1	150	287	187	123	160	0.92	1.00	0.97	0.84	0.95
Dec 15	150	324	209	132	160	0.92	1.00	0.98	0.87	0.95
Jan 1	150	336	214	130	160	0.92	1.00	0.98	0.86	0.95
Jan 15	150	437	227	150	160	0.92	0.93	0.99	0.92	0.95
Feb 1	150	514	234	162	160	0.92	0.83	0.99	0.95	0.95
Feb 15	170	750	277	176	160	0.96	0.56	1.00	0.97	0.95
Mar 1	190	839	409	200	160	0.97	0.48	0.95	0.98	0.95
Mar 15	218	898	470	222	160	0.98	0.45	0.89	0.99	0.95
Apr 1	250	1175	563	248	160	0.99	0.45	0.76	0.99	0.95
Apr 15	218	1107	582	230	160	0.98	0.45	0.74	0.99	0.95
May 1	192	1017	523	220	160	0.98	0.45	0.82	0.99	0.95
May 15	170	628	435	194	160	0.96	0.68	0.93	0.98	0.95
Jun 1	148	566	325	152	160	0.92	0.76	1.00	0.93	0.95
Jun 15	130	462	263	141	160	0.86	0.90	0.99	0.90	0.95
Jul 1	115	305	211	120	160	0.80	1.00	0.98	0.82	0.95
Jul 15	115	241	166	105	160	0.80	0.99	0.95	0.76	0.95
Aug 1	115	192	148	99	160	0.80	0.98	0.92	0.73	0.95
Aug 15	115	175	134	94	160	0.80	0.96	0.88	0.70	0.95
Sep 1	115	176	132	99	160	0.80	0.97	0.87	0.73	0.95
Sep 15	123	174	135	102	160	0.84	0.96	0.88	0.74	0.95
Average Habitat						0.90	0.82	0.93	0.87	0.95

Table H-4 Flows and habitat values for the Little Spokane River at Chattaroy rainbow trout fry life stage associated with the existing minimum flows (MISF), weekly flow statistics (10%, 50% and 90% exceedence flows), and the Wetted Perimeter flow (WP). The habitat values are normalized and are relative to the maximum useable habitat across the transect based on the peak of the WUW curve.

Date	Discharges (cfs)					Rainbow Trout Fry Habitat Relative to Optimum Habitat				
	MISF	Flow Exceedance			WP	MISF	Flow Exceedance			WP
		10%	50%	90%			10%	50%	90%	
Oct 1	70	102.7	67.6	47.3	50.0	0.32	0.22	0.34	0.56	0.49
Oct 15	77	107.1	64.4	37.5	50.0	0.28	0.21	0.35	0.80	0.49
Nov 1	86	125.9	70.0	51.9	50.0	0.25	0.15	0.32	0.47	0.49
Nov 15	86	144.8	83.7	67.0	50.0	0.25	0.11	0.25	0.34	0.49
Dec 1	86	184.5	101.5	76.7	50.0	0.25	0.08	0.22	0.29	0.49
Dec 15	86	197.8	118.1	71.9	50.0	0.25	0.07	0.17	0.31	0.49
Jan 1	86	215.9	128.7	88.8	50.0	0.25	0.06	0.14	0.24	0.49
Jan 15	86	202.3	128.6	85.7	50.0	0.25	0.07	0.14	0.25	0.49
Feb 1	86	240.2	114.9	89.3	50.0	0.25	0.06	0.19	0.23	0.49
Feb 15	104	285.4	119.4	82.0	50.0	0.21	0.07	0.17	0.26	0.49
Mar 1	122	435.8	181.9	99.3	50.0	0.16	0.10	0.08	0.22	0.49
Mar 15	143	478.4	222.9	117.8	50.0	0.11	0.22	0.06	0.18	0.49
Apr 1	165	610.4	245.5	139.2	50.0	0.09	0.36	0.06	0.11	0.49
Apr 15	143	460.5	292.2	133.5	50.0	0.11	0.15	0.07	0.13	0.49
May 1	124	422.5	252.5	120.7	50.0	0.15	0.09	0.06	0.17	0.49
May 15	104	347.6	183.0	92.5	50.0	0.21	0.07	0.08	0.23	0.49
Jun 1	83	281.4	152.0	70.8	50.0	0.26	0.07	0.11	0.32	0.49
Jun 15	69	283.0	130.7	61.9	50.0	0.33	0.07	0.13	0.37	0.49
Jul 1	57	209.5	108.8	60.1	50.0	0.41	0.07	0.21	0.38	0.49
Jul 15	57	176.4	94.0	51.4	50.0	0.41	0.08	0.23	0.48	0.49
Aug 1	57	133.8	77.9	41.0	50.0	0.41	0.13	0.28	0.71	0.49
Aug 15	57	103.4	65.4	33.6	50.0	0.41	0.22	0.35	0.91	0.49
Sep 1	57	103.8	64.9	35.7	50.0	0.41	0.21	0.35	0.85	0.49
Sep 15	63	105.6	61.0	40.4	50.0	0.36	0.21	0.37	0.73	0.49
Average Habitat						0.27	0.13	0.20	0.40	0.49

Table H-5 Flows and habitat values for the Little Spokane River at Chattaroy mountain whitefish fry life stage associated with the existing minimum flows (MISF), weekly flow statistics (10%, 50% and 90% exceedence flows), and the Wetted Perimeter flow (WP). The habitat values are normalized and are relative to the maximum useable habitat across the transect based on the peak of the WUW curve.

Date	Discharges (cfs)					Mountain Whitefish Fry Habitat Relative to Optimum Habitat				
	MISF	Flow Exceedance			WP	MISF	Flow Exceedance			WP
		10%	50%	90%			10%	50%	90%	
Oct 1	70	102.7	67.6	47.3	50.0	0.98	0.82	0.98	0.98	0.99
Oct 15	77	107.1	64.4	37.5	50.0	0.93	0.81	0.99	0.91	0.99
Nov 1	86	125.9	70.0	51.9	50.0	0.88	0.78	0.98	1.00	0.99
Nov 15	86	144.8	83.7	67.0	50.0	0.88	0.70	0.89	0.98	0.99
Dec 1	86	184.5	101.5	76.7	50.0	0.88	0.53	0.83	0.94	0.99
Dec 15	86	197.8	118.1	71.9	50.0	0.88	0.49	0.79	0.97	0.99
Jan 1	86	215.9	128.7	88.8	50.0	0.88	0.45	0.78	0.86	0.99
Jan 15	86	202.3	128.6	85.7	50.0	0.88	0.48	0.78	0.88	0.99
Feb 1	86	240.2	114.9	89.3	50.0	0.88	0.39	0.80	0.86	0.99
Feb 15	104	285.4	119.4	82.0	50.0	0.82	0.32	0.79	0.91	0.99
Mar 1	122	435.8	181.9	99.3	50.0	0.79	0.22	0.54	0.83	0.99
Mar 15	143	478.4	222.9	117.8	50.0	0.71	0.25	0.43	0.79	0.99
Apr 1	165	610.4	245.5	139.2	50.0	0.61	0.32	0.38	0.72	0.99
Apr 15	143	460.5	292.2	133.5	50.0	0.71	0.23	0.30	0.76	0.99
May 1	124	422.5	252.5	120.7	50.0	0.78	0.21	0.37	0.79	0.99
May 15	104	347.6	183.0	92.5	50.0	0.82	0.22	0.54	0.85	0.99
Jun 1	83	281.4	152.0	70.8	50.0	0.90	0.33	0.68	0.97	0.99
Jun 15	69	283.0	130.7	61.9	50.0	0.98	0.33	0.77	1.00	0.99
Jul 1	57	209.5	108.8	60.1	50.0	1.00	0.46	0.81	1.00	0.99
Jul 15	57	176.4	94.0	51.4	50.0	1.00	0.56	0.85	1.00	0.99
Aug 1	57	133.8	77.9	41.0	50.0	1.00	0.75	0.93	0.94	0.99
Aug 15	57	103.4	65.4	33.6	50.0	1.00	0.82	0.99	0.88	0.99
Sep 1	57	103.8	64.9	35.7	50.0	1.00	0.82	0.99	0.90	0.99
Sep 15	63	105.6	61.0	40.4	50.0	0.99	0.82	1.00	0.94	0.99
Average Habitat						0.88	0.51	0.76	0.90	0.99

Table H-6 Flows and habitat values for the Little Spokane River at Chattaroy mountain whitefish juvenile life stage associated with the existing minimum flows (MISF), weekly flow statistics (10%, 50% and 90% exceedence flows), and the Wetted Perimeter flow (WP). The habitat values are normalized and are relative to the maximum useable habitat across the transect based on the peak of the WUW curve.

Date	Discharges (cfs)					Mountain Whitefish Juvenile Habitat Relative to Optimum Habitat				
	MISF	Flow Exceedance			WP	MISF	Flow Exceedance			WP
		10%	50%	90%			10%	50%	90%	
Oct 1	70	102.7	67.6	47.3	50.0	0.63	0.82	0.61	0.47	0.49
Oct 15	77	107.1	64.4	37.5	50.0	0.67	0.84	0.59	0.39	0.49
Nov 1	86	125.9	70.0	51.9	50.0	0.71	0.94	0.63	0.51	0.49
Nov 15	86	144.8	83.7	67.0	50.0	0.71	0.98	0.70	0.61	0.49
Dec 1	86	184.5	101.5	76.7	50.0	0.71	1.00	0.81	0.67	0.49
Dec 15	86	197.8	118.1	71.9	50.0	0.71	1.00	0.90	0.64	0.49
Jan 1	86	215.9	128.7	88.8	50.0	0.71	0.98	0.95	0.73	0.49
Jan 15	86	202.3	128.6	85.7	50.0	0.71	1.00	0.95	0.71	0.49
Feb 1	86	240.2	114.9	89.3	50.0	0.71	0.96	0.89	0.73	0.49
Feb 15	104	285.4	119.4	82.0	50.0	0.83	0.89	0.91	0.69	0.49
Mar 1	122	435.8	181.9	99.3	50.0	0.92	0.69	1.00	0.80	0.49
Mar 15	143	478.4	222.9	117.8	50.0	0.97	0.68	0.98	0.90	0.49
Apr 1	165	610.4	245.5	139.2	50.0	0.99	0.66	0.95	0.97	0.49
Apr 15	143	460.5	292.2	133.5	50.0	0.97	0.68	0.87	0.96	0.49
May 1	124	422.5	252.5	120.7	50.0	0.93	0.70	0.94	0.92	0.49
May 15	104	347.6	183.0	92.5	50.0	0.83	0.75	1.00	0.75	0.49
Jun 1	83	281.4	152.0	70.8	50.0	0.70	0.90	0.98	0.63	0.49
Jun 15	69	283.0	130.7	61.9	50.0	0.62	0.89	0.95	0.57	0.49
Jul 1	57	209.5	108.8	60.1	50.0	0.54	0.99	0.85	0.56	0.49
Jul 15	57	176.4	94.0	51.4	50.0	0.54	1.00	0.76	0.50	0.49
Aug 1	57	133.8	77.9	41.0	50.0	0.54	0.96	0.67	0.42	0.49
Aug 15	57	103.4	65.4	33.6	50.0	0.54	0.82	0.60	0.36	0.49
Sep 1	57	103.8	64.9	35.7	50.0	0.54	0.83	0.60	0.38	0.49
Sep 15	63	105.6	61.0	40.4	50.0	0.58	0.84	0.57	0.42	0.49
Average Habitat						0.72	0.87	0.82	0.64	0.49

Table H-7 Flows and habitat values for the Little Spokane River at Elk rainbow trout fry life stage associated with the existing minimum flows (MISF), weekly flow statistics (10%, 50% and 90% exceedence flows), and the Wetted Perimeter flow (WP). The habitat values are normalized and are relative to the maximum useable habitat across the transect based on the peak of the WUW curve.

Date	Discharges (cfs)					Rainbow Trout Fry Habitat Relative to Optimum Habitat				
	MISF	Flow Exceedence			WP	MISF	Flow Exceedence			WP
		10%	50%	90%			10%	50%	90%	
Oct 1	38	50.1	45.3	39.4	32.0	0.69	0.50	0.56	0.66	0.77
Oct 15	39	52.3	45.0	39.4	32.0	0.67	0.49	0.56	0.66	0.77
Nov 1	40	54.7	44.5	38.8	32.0	0.65	0.48	0.57	0.68	0.77
Nov 15	40	52.1	45.4	39.7	32.0	0.65	0.49	0.55	0.65	0.77
Dec 1	40	58.2	48.0	38.9	32.0	0.65	0.48	0.50	0.67	0.77
Dec 15	40	56.7	46.6	42.8	32.0	0.65	0.49	0.53	0.60	0.77
Jan 1	40	62.4	49.4	41.4	32.0	0.65	0.48	0.50	0.63	0.77
Jan 15	40	70.3	48.1	41.4	32.0	0.65	0.49	0.50	0.63	0.77
Feb 1	40	73.4	51.1	41.1	32.0	0.65	0.49	0.49	0.63	0.77
Feb 15	43	82.2	53.0	43.9	32.0	0.60	0.51	0.48	0.58	0.77
Mar 1	46	89.4	62.0	44.5	32.0	0.54	0.54	0.48	0.57	0.77
Mar 15	50	86.6	64.7	45.9	32.0	0.50	0.54	0.49	0.54	0.77
Apr 1	54	112.9	72.1	53.1	32.0	0.48	0.44	0.49	0.48	0.77
Apr 15	52	120.8	80.0	58.9	32.0	0.49	0.41	0.49	0.48	0.77
May 1	49	115.2	77.1	57.0	32.0	0.50	0.43	0.49	0.49	0.77
May 15	47	98.2	70.3	55.2	32.0	0.52	0.51	0.49	0.48	0.77
Jun 1	45	86.8	66.2	49.0	32.0	0.56	0.54	0.49	0.50	0.77
Jun 15	43	76.5	59.7	47.5	32.0	0.60	0.49	0.48	0.51	0.77
Jul 1	41.5	71.4	55.1	42.3	32.0	0.63	0.49	0.48	0.61	0.77
Jul 15	39.5	65.0	50.9	43.4	32.0	0.66	0.49	0.50	0.59	0.77
Aug 1	38	56.2	47.4	39.7	32.0	0.69	0.49	0.51	0.66	0.77
Aug 15	38	52.1	45.6	39.6	32.0	0.69	0.49	0.55	0.66	0.77
Sep 1	38	51.7	44.7	38.2	32.0	0.69	0.49	0.57	0.69	0.77
Sep 15	38	51.0	42.9	37.8	32.0	0.69	0.49	0.60	0.69	0.77
Average Habitat						0.61	0.49	0.51	0.60	0.77

Table H-8 Flows and habitat values for the Little Spokane River at Elk mountain whitefish fry life stage associated with the existing minimum flows (MISF), weekly flow statistics (10%, 50% and 90% exceedence flows), and the Wetted Perimeter flow (WP). The habitat values are normalized and are relative to the maximum useable habitat across the transect based on the peak of the WUW curve.

Date	Discharges (cfs)					Mountain Whitefish Fry Habitat Relative to Optimum Habitat				
	MISF	Flow Exceedance			WP	MISF	Flow Exceedance			WP
		10%	50%	90%			10%	50%	90%	
Oct 1	38	50.1	45.3	39.4	32.0	0.89	0.77	0.80	0.87	0.96
Oct 15	39	52.3	45.0	39.4	32.0	0.88	0.76	0.81	0.87	0.96
Nov 1	40	54.7	44.5	38.8	32.0	0.87	0.75	0.81	0.88	0.96
Nov 15	40	52.1	45.4	39.7	32.0	0.87	0.76	0.80	0.87	0.96
Dec 1	40	58.2	48.0	38.9	32.0	0.87	0.73	0.77	0.88	0.96
Dec 15	40	56.7	46.6	42.8	32.0	0.87	0.74	0.79	0.83	0.96
Jan 1	40	62.4	49.4	41.4	32.0	0.87	0.71	0.77	0.85	0.96
Jan 15	40	70.3	48.1	41.4	32.0	0.87	0.67	0.77	0.85	0.96
Feb 1	40	73.4	51.1	41.1	32.0	0.87	0.66	0.76	0.85	0.96
Feb 15	43	82.2	53.0	43.9	32.0	0.83	0.63	0.75	0.82	0.96
Mar 1	46	89.4	62.0	44.5	32.0	0.80	0.60	0.72	0.81	0.96
Mar 15	50	86.6	64.7	45.9	32.0	0.77	0.61	0.70	0.80	0.96
Apr 1	54	112.9	72.1	53.1	32.0	0.75	0.56	0.67	0.75	0.96
Apr 15	52	120.8	80.0	58.9	32.0	0.76	0.54	0.63	0.73	0.96
May 1	49	115.2	77.1	57.0	32.0	0.77	0.55	0.65	0.73	0.96
May 15	47	98.2	70.3	55.2	32.0	0.78	0.58	0.67	0.74	0.96
Jun 1	45	86.8	66.2	49.0	32.0	0.81	0.61	0.70	0.77	0.96
Jun 15	43	76.5	59.7	47.5	32.0	0.83	0.65	0.73	0.78	0.96
Jul 1	41.5	71.4	55.1	42.3	32.0	0.85	0.67	0.74	0.84	0.96
Jul 15	39.5	65.0	50.9	43.4	32.0	0.87	0.70	0.76	0.83	0.96
Aug 1	38	56.2	47.4	39.7	32.0	0.89	0.74	0.78	0.87	0.96
Aug 15	38	52.1	45.6	39.6	32.0	0.89	0.76	0.80	0.87	0.96
Sep 1	38	51.7	44.7	38.2	32.0	0.89	0.76	0.81	0.89	0.96
Sep 15	38	51.0	42.9	37.8	32.0	0.89	0.76	0.83	0.89	0.96
Average Habitat						0.84	0.68	0.75	0.83	0.96

Table H-9 Flows and habitat values for the Little Spokane River at Elk mountain whitefish juvenile life stage associated with the existing minimum flows (MISF), weekly flow statistics (10%, 50% and 90% exceedence flows), and the Wetted Perimeter flow (WP). The habitat values are normalized and are relative to the maximum useable habitat across the transect based on the peak of the WUW curve.

Date	Discharges (cfs)					Mountain Whitefish Juvenile Habitat Relative to Optimum Habitat				
	MISF	Flow Exceedance			WP	MISF	Flow Exceedance			WP
		10%	50%	90%			10%	50%	90%	
Oct 1	38	50.1	45.3	39.4	32.0	0.87	0.92	0.90	0.88	0.82
Oct 15	39	52.3	45.0	39.4	32.0	0.87	0.93	0.90	0.87	0.82
Nov 1	40	54.7	44.5	38.8	32.0	0.88	0.94	0.89	0.87	0.82
Nov 15	40	52.1	45.4	39.7	32.0	0.88	0.93	0.90	0.88	0.82
Dec 1	40	58.2	48.0	38.9	32.0	0.88	0.95	0.91	0.87	0.82
Dec 15	40	56.7	46.6	42.8	32.0	0.88	0.94	0.90	0.89	0.82
Jan 1	40	62.4	49.4	41.4	32.0	0.88	0.96	0.91	0.88	0.82
Jan 15	40	70.3	48.1	41.4	32.0	0.88	0.98	0.91	0.88	0.82
Feb 1	40	73.4	51.1	41.1	32.0	0.88	0.99	0.92	0.88	0.82
Feb 15	43	82.2	53.0	43.9	32.0	0.89	1.00	0.93	0.89	0.82
Mar 1	46	89.4	62.0	44.5	32.0	0.90	1.00	0.96	0.89	0.82
Mar 15	50	86.6	64.7	45.9	32.0	0.92	1.00	0.97	0.90	0.82
Apr 1	54	112.9	72.1	53.1	32.0	0.93	0.99	0.99	0.93	0.82
Apr 15	52	120.8	80.0	58.9	32.0	0.92	0.98	1.00	0.95	0.82
May 1	49	115.2	77.1	57.0	32.0	0.91	0.98	1.00	0.94	0.82
May 15	47	98.2	70.3	55.2	32.0	0.90	1.00	0.98	0.94	0.82
Jun 1	45	86.8	66.2	49.0	32.0	0.90	1.00	0.98	0.91	0.82
Jun 15	43	76.5	59.7	47.5	32.0	0.89	1.00	0.95	0.91	0.82
Jul 1	41.5	71.4	55.1	42.3	32.0	0.88	0.99	0.94	0.89	0.82
Jul 15	39.5	65.0	50.9	43.4	32.0	0.88	0.97	0.92	0.89	0.82
Aug 1	38	56.2	47.4	39.7	32.0	0.87	0.94	0.91	0.88	0.82
Aug 15	38	52.1	45.6	39.6	32.0	0.87	0.93	0.90	0.88	0.82
Sep 1	38	51.7	44.7	38.2	32.0	0.87	0.92	0.90	0.87	0.82
Sep 15	38	51.0	42.9	37.8	32.0	0.87	0.92	0.89	0.87	0.82
Average Habitat						0.89	0.96	0.93	0.89	0.82