



Figure 8-7. Coho salmon fry and parr habitat availability relative to mainstem flows for three reaches and four sites downstream of IGD. Flows account for tributary accretions and were estimated for each habitat unit when calculating WUA. Gray horizontal bands indicate WUA values $\geq 80\%$ of maximum. Potential habitat reductions due to the Proposed Action are bolded.

Source: Mount Hood Environmental 2018

Table 8-6. Daily average mainstem flows (cfs) within nearest 5% exceedance where the Proposed Action will likely reduce coho salmon fry habitat availability to below 80 percent of maximum (orange highlight). Flows estimated for the midpoint of each reach with Reach 1 from river km 289 to 312 (totaling 23 km), Reach 2 from river km 232 to 289 (totaling 57 km), and Reach 3 river km 107 to 232 (totaling 125 km).

Source: Mount Hood Environmental 2018

Exceedance Rates	Reach 1 March	Reach 1 April	Reach 1 May	Reach 1 June	Reach 2 March	Reach 2 April	Reach 2 May	Reach 2 June	Reach 3 March	Reach 3 April	Reach 3 May	Reach 3 June
95%	1113	1429	1244	1056	1433	1641	1404	1126	2560	2494	1931	1341
90%	1302	1463	1280	1073	1731	1711	1467	1175	2932	2711	2197	1481
85%	1606	1518	1362	1099	1954	1848	1608	1229	3240	3027	2477	1603
80%	1782	1559	1483	1124	2165	1938	1742	1292	3620	3397	2684	1728
75%	1912	1695	1550	1159	2329	2097	1858	1345	3971	3849	2964	1816
70%	2122	1858	1611	1190	2589	2291	1978	1397	4340	4134	3334	1936
65%	2352	2004	1672	1227	2864	2446	2088	1441	4699	4473	3666	2065
60%	2582	2195	1766	1266	3174	2734	2221	1487	5231	4884	4003	2214
55%	2848	2430	1894	1312	3519	2983	2389	1539	6170	5395	4312	2392
50%	3140	2689	2072	1348	3884	3306	2537	1604	6716	5859	4609	2599
45%	3372	3013	2315	1400	4164	3675	2824	1690	7238	6476	5098	2855
40%	3735	3289	2590	1489	4613	3962	3230	1820	7643	6981	5804	3126
35%	4237	3640	2796	1626	5181	4467	3504	2012	8362	7733	6444	3434
30%	4668	3986	2999	1783	5818	4899	3729	2202	9173	8339	6923	3829
25%	5228	4631	3274	1917	6449	5544	4029	2381	10115	8937	7326	4410
20%	6082	5080	3555	2089	6897	6099	4402	2682	11237	9603	7889	4962
15%	6467	5611	3974	2416	7669	6537	4934	3026	12429	10198	8822	5556
10%	7148	6103	4403	2818	8693	7083	5474	3589	14272	11235	9797	6469
5%	8582	6669	5062	3464	10588	7806	6320	4271	17531	12322	10744	7755

Reach 1 = The mainstem Klamath River from Iron Gate Dam to the confluence of the Shasta River (rkm 289-312).

Reach 2 = The mainstem Klamath River from the confluence of the Shasta River to the confluence of Scott River (rkm 232-289).

Reach 3 = The mainstem Klamath River from the confluence of the Scott River to the confluence of the Salmon River (rkm 107-232).

Table 8-7. Daily average mainstem flows (cfs) within nearest 5% exceedance where the Proposed Action will likely reduce coho salmon juvenile habitat availability (blue highlight) in the R Ranch reach.

Source: Mount Hood Environmental 2018

Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
95%	1007	1023	983	1002	1027	1113	1325	1175	1025
90%	1013	1031	992	1017	1050	1302	1325	1175	1025
85%	1025	1038	1001	1038	1073	1606	1325	1175	1025
80%	1043	1044	1009	1062	1102	1782	1350	1175	1025
75%	1066	1051	1021	1084	1150	1912	1501	1175	1025
70%	1091	1062	1030	1104	1202	2122	1654	1175	1025
65%	1111	1090	1042	1131	1280	2352	1770	1241	1025
60%	1125	1112	1059	1187	1386	2582	1938	1392	1025
55%	1145	1149	1085	1264	1546	2848	2130	1562	1025
50%	1162	1199	1130	1395	1789	3140	2349	1722	1025
45%	1178	1226	1189	1563	2099	3372	2628	1959	1078
40%	1195	1257	1276	1753	2396	3735	2936	2156	1227
35%	1211	1273	1455	2010	2740	4237	3208	2369	1347
30%	1227	1309	1709	2407	3044	4668	3503	2589	1503
25%	1254	1369	1924	2728	3487	5228	4147	2834	1652
20%	1296	1433	2284	3212	4068	6082	4520	3095	1786
15%	1318	1521	2685	3731	4773	6467	5044	3418	2055
10%	1382	1691	3382	4894	5866	7148	5565	3844	2438
5%	1486	3177	5317	6563	8625	8582	6095	4501	3018

Table 8-8. Daily average mainstem flows (cfs) within nearest 5% exceedance where the Proposed Action will likely reduce coho salmon juvenile habitat availability (blue highlight) in the Trees of Heaven reach.
 Source: Mount Hood Environmental 2018

Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
95%	1114	1184	1146	1187	1229	1331	1547	1333	1095
90%	1135	1198	1163	1213	1267	1564	1591	1375	1129
85%	1162	1211	1188	1253	1305	1837	1699	1490	1171
80%	1184	1227	1199	1280	1348	2013	1766	1630	1214
75%	1202	1241	1218	1320	1407	2156	1912	1710	1258
70%	1226	1262	1241	1357	1481	2423	2057	1788	1307
65%	1246	1286	1263	1396	1568	2641	2257	1876	1345
60%	1260	1320	1293	1456	1710	2908	2466	1997	1377
55%	1286	1356	1328	1559	1905	3216	2704	2124	1415
50%	1315	1394	1392	1703	2182	3547	3005	2303	1466
45%	1343	1419	1454	1887	2442	3813	3349	2569	1540
40%	1364	1451	1576	2106	2750	4274	3636	2894	1660
35%	1389	1471	1766	2417	3120	4757	4039	3155	1832
30%	1408	1534	2027	2776	3471	5233	4447	3339	1975
25%	1440	1595	2293	3186	4032	5946	5127	3611	2156
20%	1466	1661	2676	3770	4749	6465	5576	3970	2373
15%	1511	1774	3188	4378	5561	7146	6155	4417	2683
10%	1573	1955	4047	5740	6937	7974	6547	4847	3222
5%	1712	3812	6112	7861	10689	9817	7216	5689	3858

Table 8-9. Daily average mainstem flows (cfs) within nearest 5% exceedance where the Proposed Action will likely reduce coho salmon juvenile habitat availability (blue highlight) in the Seiad Valley reach.

Source: Mount Hood Environmental 2018

Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
95%	1154	1265	1290	1390	1578	1980	2065	1685	1210
90%	1180	1330	1340	1474	1710	2269	2228	1894	1315
85%	1212	1360	1390	1640	1848	2600	2485	2148	1433
80%	1253	1380	1437	1750	1970	2835	2734	2315	1536
75%	1280	1417	1490	1852	2112	3108	2952	2535	1598
70%	1305	1454	1576	1949	2221	3382	3194	2832	1694
65%	1330	1499	1650	2068	2437	3708	3486	3139	1806
60%	1357	1538	1730	2202	2744	4163	3891	3332	1925
55%	1387	1560	1850	2376	3083	4824	4343	3551	2052
50%	1425	1611	2006	2622	3419	5230	4657	3869	2247
45%	1457	1643	2178	2944	3770	5643	5138	4233	2467
40%	1498	1712	2374	3280	4191	6083	5624	4737	2667
35%	1535	1780	2653	3593	4608	6851	6320	5247	2944
30%	1575	1866	2951	4358	5213	7559	6863	5591	3244
25%	1611	1959	3465	5251	6089	8239	7390	6002	3730
20%	1668	2073	4324	5949	7257	9025	7961	6580	4189
15%	1739	2255	5171	7369	8463	10233	8555	7110	4749
10%	1845	2765	7126	9201	10357	11443	9167	8164	5507
5%	2008	5691	10546	12605	16578	14180	10192	9111	6528

Table 8-10. Daily average mainstem flows (cfs) within nearest 5% exceedance where the Proposed Action will likely reduce coho salmon juvenile habitat availability (blue highlight) in the Rogers Creek reach.

Source: Mount Hood Environmental 2018

Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
95%	1257	1509	1686	1926	2749	3741	3222	2500	1643
90%	1324	1601	1858	2369	3184	4284	3799	2873	1796
85%	1361	1737	2013	3011	3674	4889	4407	3128	1992
80%	1417	1810	2254	3369	4081	5437	4843	3405	2190
75%	1507	1876	2511	3661	4506	6018	5649	3965	2339
70%	1564	1932	2790	4021	5001	6562	6223	4460	2522
65%	1609	1975	3111	4493	5549	7087	6729	4850	2692
60%	1649	2041	3508	4947	6106	8036	7414	5470	2906
55%	1671	2102	3948	5397	6680	9226	8001	5922	3137
50%	1713	2182	4360	6079	7145	10159	8601	6458	3421
45%	1776	2296	4865	6970	7791	10793	9392	7293	3810
40%	1807	2472	5504	7692	8749	11549	10396	8216	4198
35%	1862	2662	6214	8522	9693	12674	11084	9125	4611
30%	1933	2999	7282	9961	11397	14058	11988	9722	5147
25%	2092	3319	8641	11865	12890	15490	12888	10418	5834
20%	2185	3933	9958	14586	15268	16844	13494	11617	6476
15%	2424	4808	12895	17418	18376	18150	14741	12531	7523
10%	2657	7402	18207	20915	22986	20701	16245	13656	8707
5%	3553	12371	27044	26670	31399	25082	18268	14706	10792

Table 8A-1. Daily average IGD exceedance flows estimated for the Proposed Action, 1980-2016.

Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
95%	1000	1000	950	950	950	1000	1325	1175	1025	900	900	1000
90%	1000	1000	950	950	950	1145	1325	1175	1025	900	900	1000
85%	1000	1000	950	950	950	1449	1325	1210	1025	900	900	1000
80%	1000	1000	950	950	952	1609	1359	1318	1025	900	900	1000
75%	1037	1000	950	950	1002	1724	1499	1367	1025	923	900	1000
70%	1063	1000	950	950	1049	1899	1637	1426	1070	953	900	1000
65%	1086	1000	950	977	1122	2130	1760	1479	1109	975	900	1000
60%	1096	1015	950	1028	1187	2334	1922	1515	1150	1000	900	1000
55%	1115	1067	950	1091	1282	2555	2131	1662	1187	1021	919	1007
50%	1129	1110	973	1184	1477	2782	2359	1806	1227	1037	942	1066
45%	1144	1181	1026	1332	1787	3026	2655	2003	1266	1045	972	1104
40%	1154	1208	1108	1503	2100	3301	2946	2204	1305	1060	1016	1141
35%	1169	1222	1250	1710	2449	3783	3214	2404	1403	1084	1068	1150
30%	1184	1233	1501	2044	2729	4075	3516	2617	1552	1118	1099	1161
25%	1201	1319	1681	2419	3117	4684	4151	2858	1670	1122	1108	1170
20%	1254	1376	1943	2734	3601	5512	4527	3112	1796	1157	1128	1196
15%	1288	1497	2292	3229	4110	6030	5060	3411	2058	1193	1150	1214
10%	1325	1639	2939	4216	5110	6440	5571	3840	2439	1229	1178	1225
5%	1427	2581	4149	5655	7383	7533	6094	4501	3018	1250	1550	1231