

8-11-2009

Ex. 280-US-457

Unknown

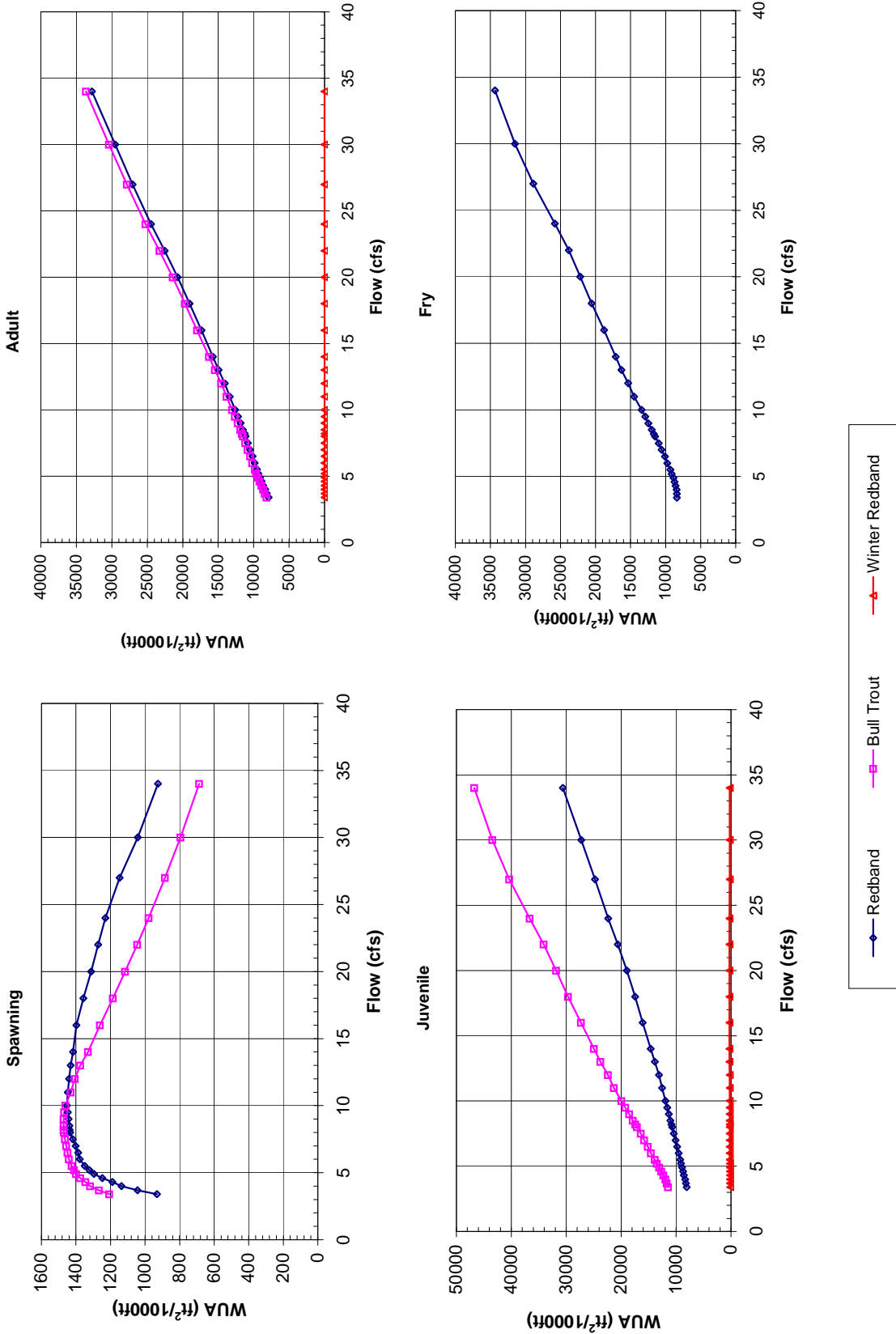
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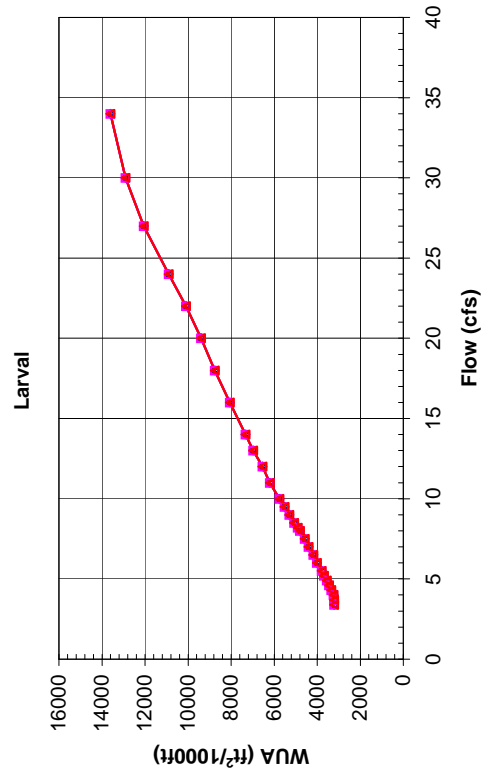
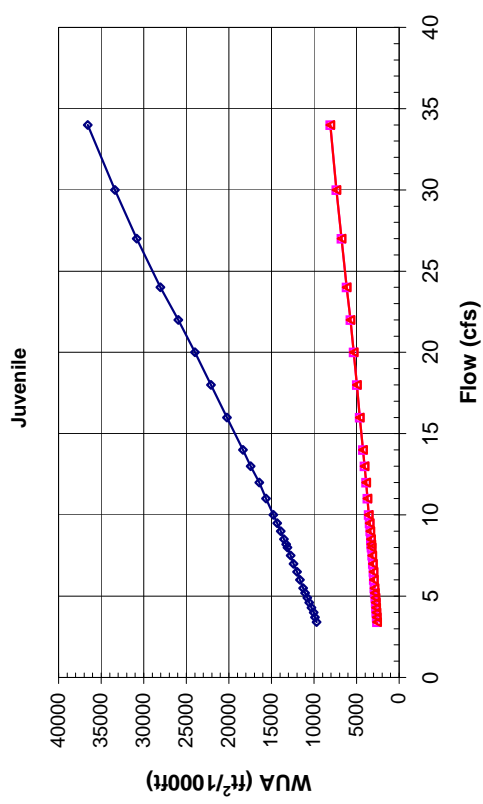
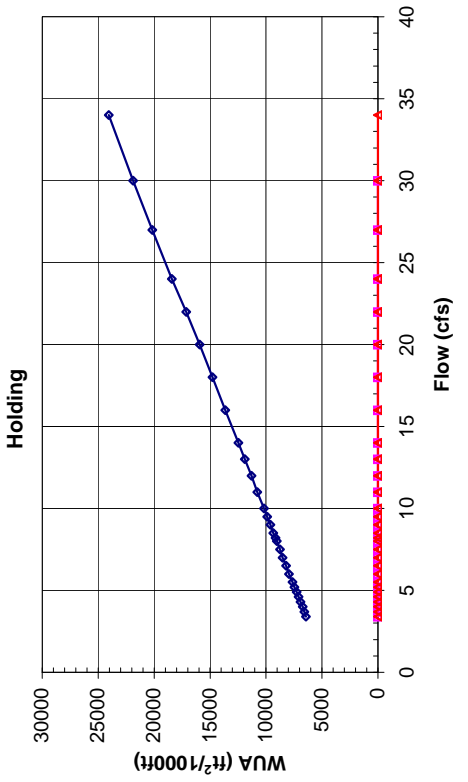
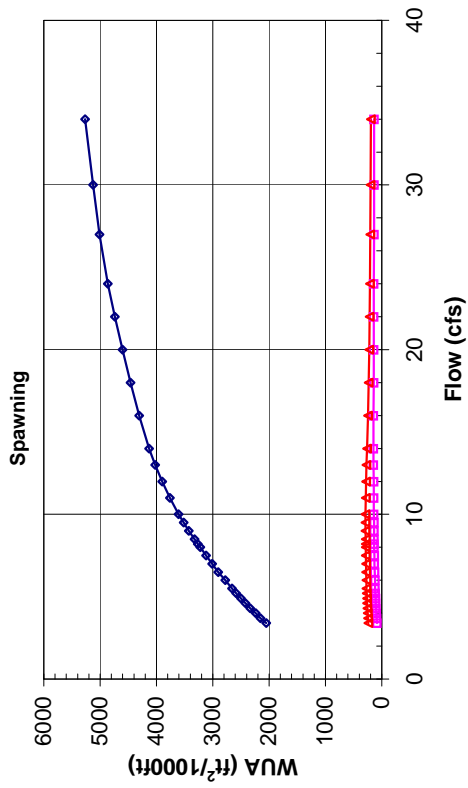
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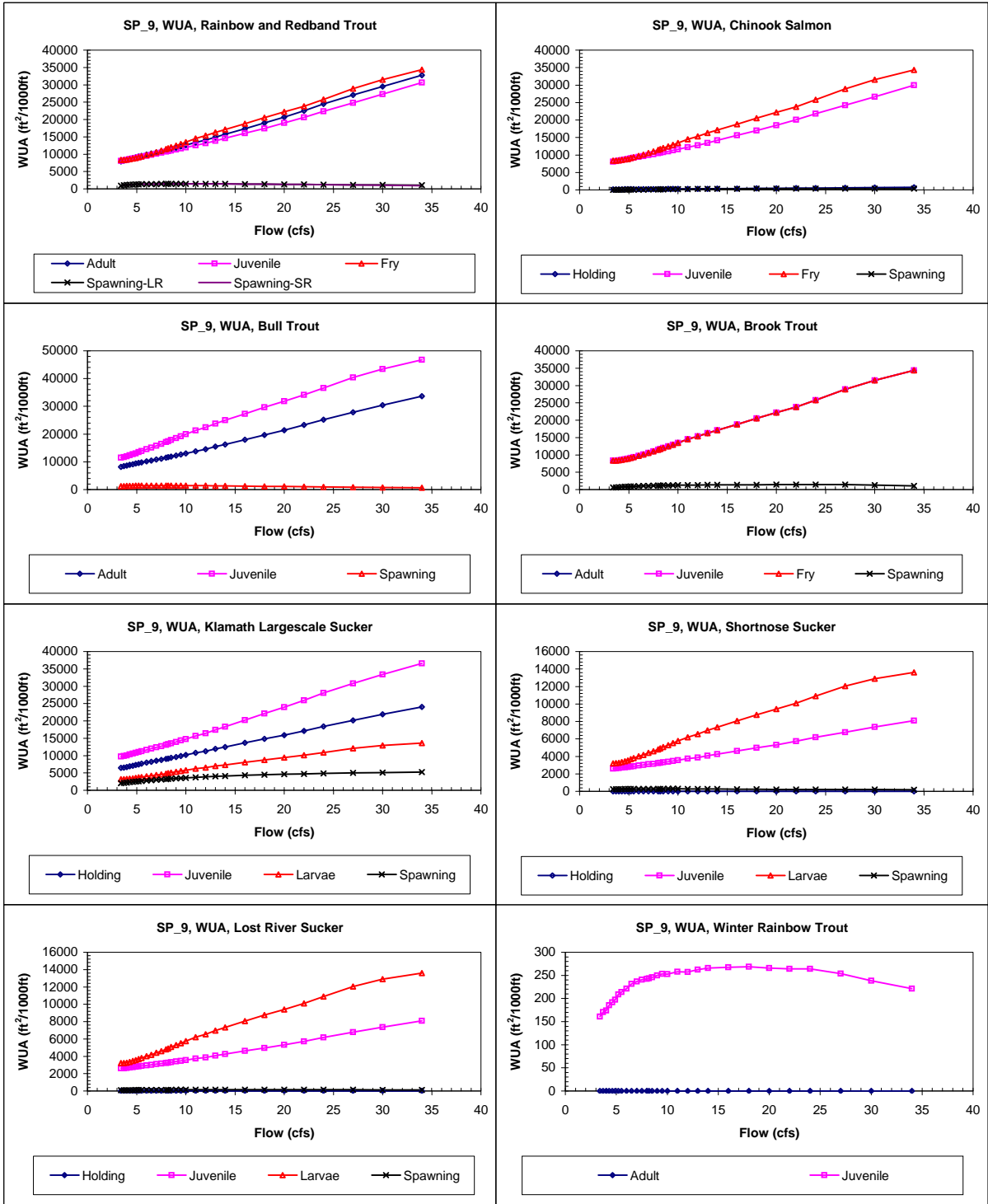
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Site 649
Priority Species Habitat - Flow Curves



Site 649
Priority Species Habitat - Flow Curves





Sprague River, Site 649, Composite WUA

	WUA (ft ² /1000ft)				
	Q	Spawning - Spawning -			
	(cfs)	Adult	Juvenile	Fry	Large River Small River
Rainbow and Redband Trout	3.4	7884	8071	8381	932 932
	3.7	8142	8219	8396	1044 1044
	4	8367	8365	8415	1137 1137
	4.3	8642	8566	8570	1189 1189
	4.6	8885	8738	8718	1247 1247
	4.9	9096	8904	8863	1295 1295
	5.2	9346	9111	9136	1322 1322
	5.5	9539	9261	9324	1349 1349
	6	9871	9533	9753	1378 1378
	6.5	10173	9802	10106	1387 1387
	7	10505	10117	10587	1402 1402
	7.5	10809	10412	10997	1418 1418
	8	11134	10725	11479	1433 1433
	8.2	11269	10850	11674	1436 1436
	8.5	11489	11041	11996	1439 1439
	9	11838	11324	12450	1443 1443
	9.5	12207	11626	12907	1447 1447
	10	12593	11950	13423	1453 1453
	11	13360	12549	14500	1447 1447
	12	14080	13120	15335	1439 1439
	13	14931	13873	16305	1430 1430
	14	15731	14619	17113	1418 1418
	16	17366	16081	18763	1398 1398
	18	19018	17443	20564	1357 1357
	20	20720	18978	22178	1312 1312
	22	22527	20616	23810	1272 1271
	24	24465	22356	25796	1236 1229
	27	27067	24755	28888	1174 1147
	30	29533	27270	31511	1108 1042
	34	32806	30636	34346	1074 925

	WUA (ft ² /1000ft)			
	Q	Spawning		
	(cfs)	Holding	Juvenile	Fry Spawning
Chinook Salmon	3.4	174	8066	8381 15
	3.7	178	8209	8396 22
	4	182	8349	8415 30
	4.3	188	8543	8570 38
	4.6	192	8703	8718 47
	4.9	197	8853	8863 57
	5.2	202	9048	9136 66
	5.5	207	9179	9324 76
	6	215	9420	9753 93
	6.5	223	9665	10106 111
	7	232	9951	10587 129
	7.5	240	10215	10997 148
	8	249	10499	11479 166
	8.2	252	10612	11674 173
	8.5	257	10791	11996 181
	9	265	11052	12450 195
	9.5	274	11331	12907 207
	10	283	11635	13423 221
	11	300	12204	14500 242
	12	316	12743	15335 265
	13	335	13470	16305 282
	14	354	14198	17113 296
	16	390	15629	18763 323
	18	425	16970	20564 344
	20	462	18483	22178 362
	22	500	20107	23810 374
	24	541	21835	25796 381
	27	597	24206	28888 392
	30	657	26677	31511 401
	34	739	29972	34346 408

	WUA (ft ² /1000ft)			
	Q	Spawning		
	(cfs)	Adult	Juvenile	Fry Spawning
Bull Trout	3.4	8189	11461	1207
	3.7	8433	11679	1268
	4	8650	11944	1319
	4.3	8924	12325	1346
	4.6	9167	12707	1375
	4.9	9382	13066	1398
	5.2	9639	13507	1411
	5.5	9838	13866	1425
	6	10186	14557	1441
	6.5	10499	15124	1448
	7	10848	15820	1456
	7.5	11164	16418	1463
	8	11506	17110	1470
	8.2	11649	17402	1470
	8.5	11879	17865	1471
	9	12241	18549	1471
	9.5	12624	19240	1468
	10	13026	19945	1461
	11	13824	21314	1431
	12	14567	22427	1407
	13	15452	23754	1375
	14	16283	24956	1330
	16	17975	27324	1261
	18	19676	29658	1186
	20	21417	31852	1116
	22	23262	34096	1045
	24	25236	36642	979
	27	27881	40357	885
	30	30377	43455	795
	34	33657	46752	687

	WUA (ft ² /1000ft)			
	Q	Spawning		
	(cfs)	Adult	Juvenile	Fry Spawning
Brook Trout	3.4	8381	8381	8381 584
	3.7	8396	8396	8396 640
	4	8415	8415	8415 704
	4.3	8570	8570	8570 747
	4.6	8718	8718	8718 800
	4.9	8863	8863	8863 851
	5.2	9136	9136	9136 886
	5.5	9324	9324	9324 932
	6	9753	9753	9753 999
	6.5	10106	10106	10106 1041
	7	10587	10587	10587 1084
	7.5	10997	10997	10997 1125
	8	11479	11479	11479 1163
	8.2	11674	11674	11674 1175
	8.5	11996	11996	11996 1189
	9	12450	12450	12450 1212
	9.5	12907	12907	12907 1232
	10	13423	13423	13423 1256
	11	14500	14500	14500 1283
	12	15335	15335	15335 1317
	13	16305	16305	16305 1338
	14	17113	17113	17113 1353
	16	18763	18763	18763 1381
	18	20564	20564	20564 1396
	20	22178	22178	22178 1412
	22	23810	23810	23810 1425
	24	25796	25796	25796 1429
	27	28888	28888	28888 1423
	30	31511	31511	31511 1320
	34	34346	34346	34346 1086

Sprague River, Site 649, Composite WUA

	WUA (ft ² /1000ft)				
	Q (cfs)	Holding	Juvenile	Larvae	Spawning
Klamath Largescale Sucker	3.4	6439	9712	3209	2050
	3.7	6573	9882	3219	2152
	4	6722	10055	3247	2241
	4.3	6921	10318	3345	2334
	4.6	7096	10553	3456	2422
	4.9	7270	10773	3547	2502
	5.2	7474	11055	3689	2585
	5.5	7644	11267	3794	2661
	6	7951	11666	4013	2781
	6.5	8207	12000	4178	2901
	7	8510	12395	4398	3011
	7.5	8764	12728	4580	3122
	8	9046	13112	4808	3224
	8.2	9163	13276	4906	3265
	8.5	9342	13534	5068	3326
	9	9617	13923	5292	3425
	9.5	9901	14337	5520	3518
	10	10193	14772	5753	3607
	11	10773	15650	6203	3762
	12	11284	16436	6538	3898
	13	11903	17428	6970	4024
	14	12479	18352	7337	4131
	16	13651	20243	8061	4307
	18	14795	22115	8753	4458
	20	15925	23976	9404	4602
	22	17125	25950	10094	4738
	24	18413	28055	10904	4861
	27	20175	30833	12059	5010
	30	21874	33396	12905	5122
	34	24039	36583	13601	5267

	WUA (ft ² /1000ft)				
	Q (cfs)	Holding	Juvenile	Larvae	Spawning
Shortnose Sucker	3.4	0	2610	3209	238
	3.7	0	2625	3219	244
	4	0	2655	3247	248
	4.3	0	2705	3345	255
	4.6	0	2747	3456	259
	4.9	0	2787	3547	262
	5.2	0	2840	3689	267
	5.5	0	2879	3794	270
	6	0	2958	4013	274
	6.5	0	3011	4178	278
	7	0	3095	4398	281
	7.5	0	3154	4580	284
	8	0	3234	4808	285
	8.2	0	3267	4906	286
	8.5	0	3319	5068	287
	9	0	3393	5292	288
	9.5	0	3475	5520	289
	10	0	3565	5753	291
	11	0	3737	6203	286
	12	0	3878	6538	279
	13	0	4072	6970	272
	14	0	4251	7337	263
	16	0	4615	8061	245
	18	0	4968	8753	231
	20	0	5326	9404	223
	22	0	5726	10094	218
	24	0	6175	10904	212
	27	0	6775	12059	204
	30	0	7353	12905	198
	34	0	8079	13601	192

	WUA (ft ² /1000ft)				
	Q (cfs)	Holding	Juvenile	Larvae	Spawning
Lost River Sucker	3.4	0	2610	3209	83
	3.7	0	2625	3219	90
	4	0	2655	3247	95
	4.3	0	2705	3345	100
	4.6	0	2747	3456	105
	4.9	0	2787	3547	110
	5.2	0	2840	3689	114
	5.5	0	2879	3794	117
	6	0	2958	4013	122
	6.5	0	3011	4178	126
	7	0	3095	4398	129
	7.5	0	3154	4580	132
	8	0	3234	4808	134
	8.2	0	3267	4906	135
	8.5	0	3319	5068	136
	9	0	3393	5292	138
	9.5	0	3475	5520	139
	10	0	3565	5753	141
	11	0	3737	6203	142
	12	0	3878	6538	144
	13	0	4072	6970	146
	14	0	4251	7337	146
	16	0	4615	8061	146
	18	0	4968	8753	144
	20	0	5326	9404	143
	22	0	5726	10094	142
	24	0	6175	10904	140
	27	0	6775	12059	139
	30	0	7353	12905	137
	34	0	8079	13601	135

	WUA (ft ² /1000ft)				
	Q (cfs)	Adult	Juvenile	Fry	Spawning
Winter Rainbow Trout	3.4	0	161		
	3.7	0	170		
	4	0	174		
	4.3	0	185		
	4.6	0	192		
	4.9	0	198		
	5.2	0	209		
	5.5	0	214		
	6	0	221		
	6.5	0	231		
	7	0	237		
	7.5	0	241		
	8	0	242		
	8.2	0	243		
	8.5	0	246		
	9	0	250		
	9.5	0	253		
	10	0	253		
	11	0	258		
	12	0	258		
	13	0	262		
	14	0	266		
	16	0	267		
	18	0	268		
	20	0	266		
	22	0	264		
	24	0	264		
	27	0	254		
	30	0	238		
	34	0	222		