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Ex. 277-US-433

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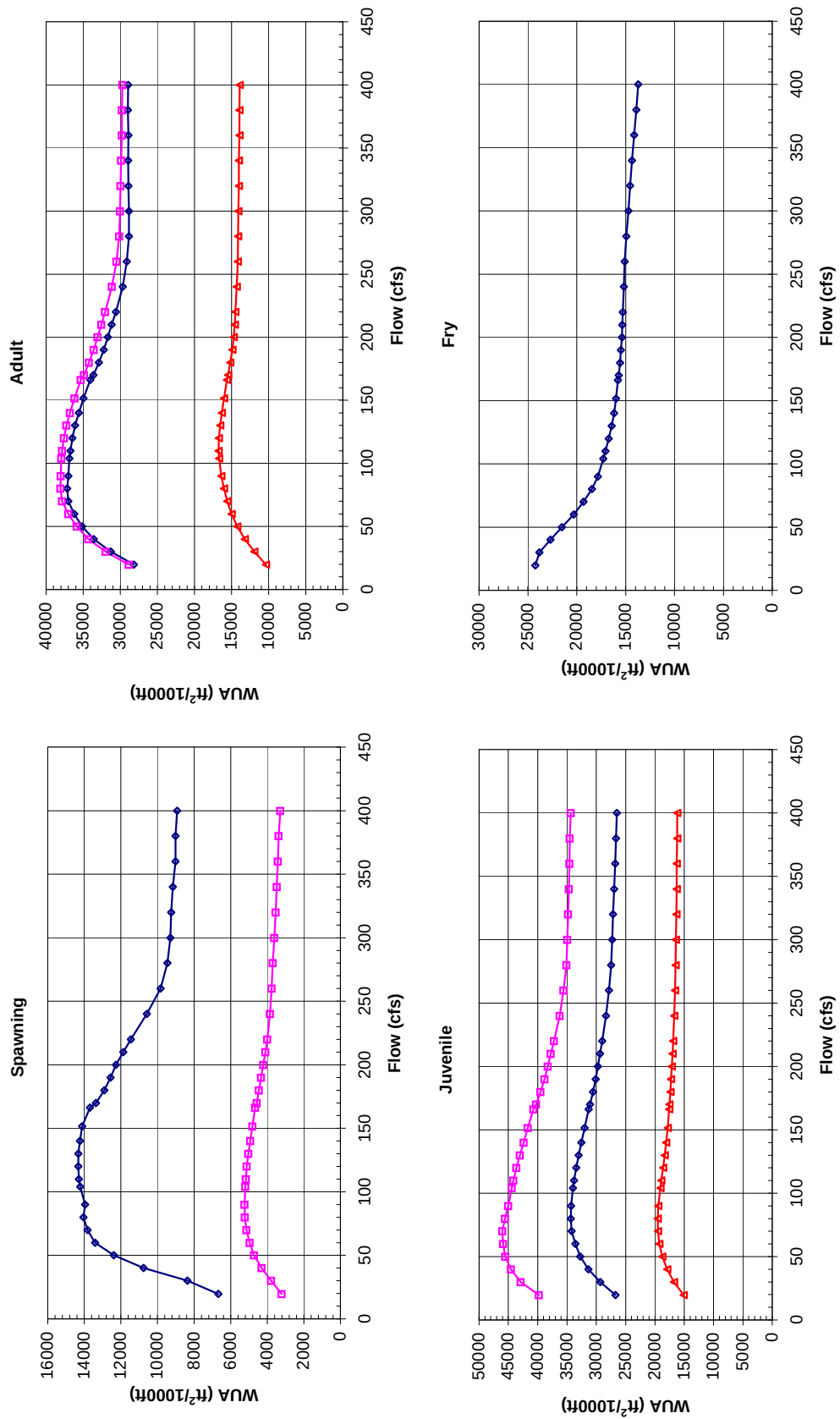
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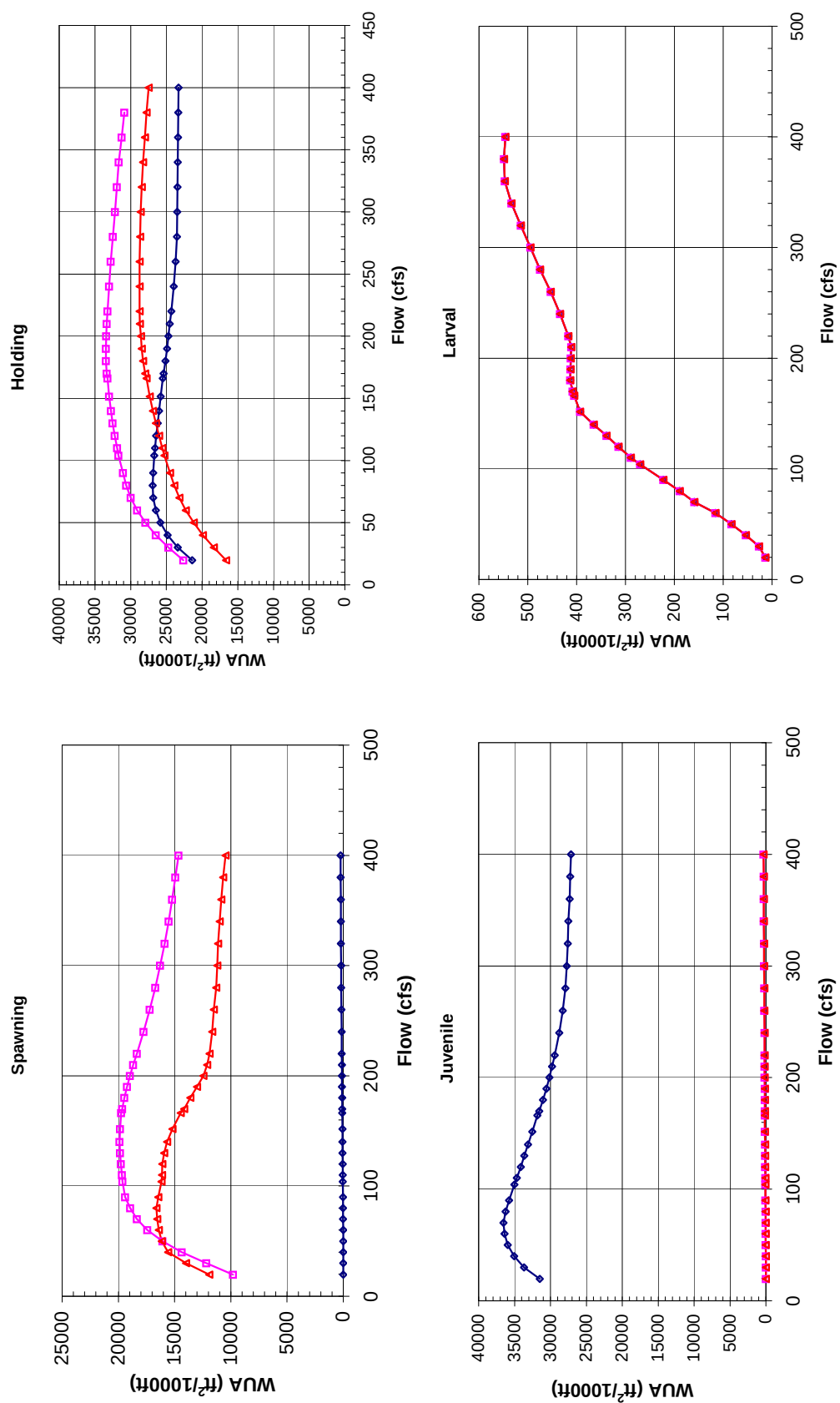
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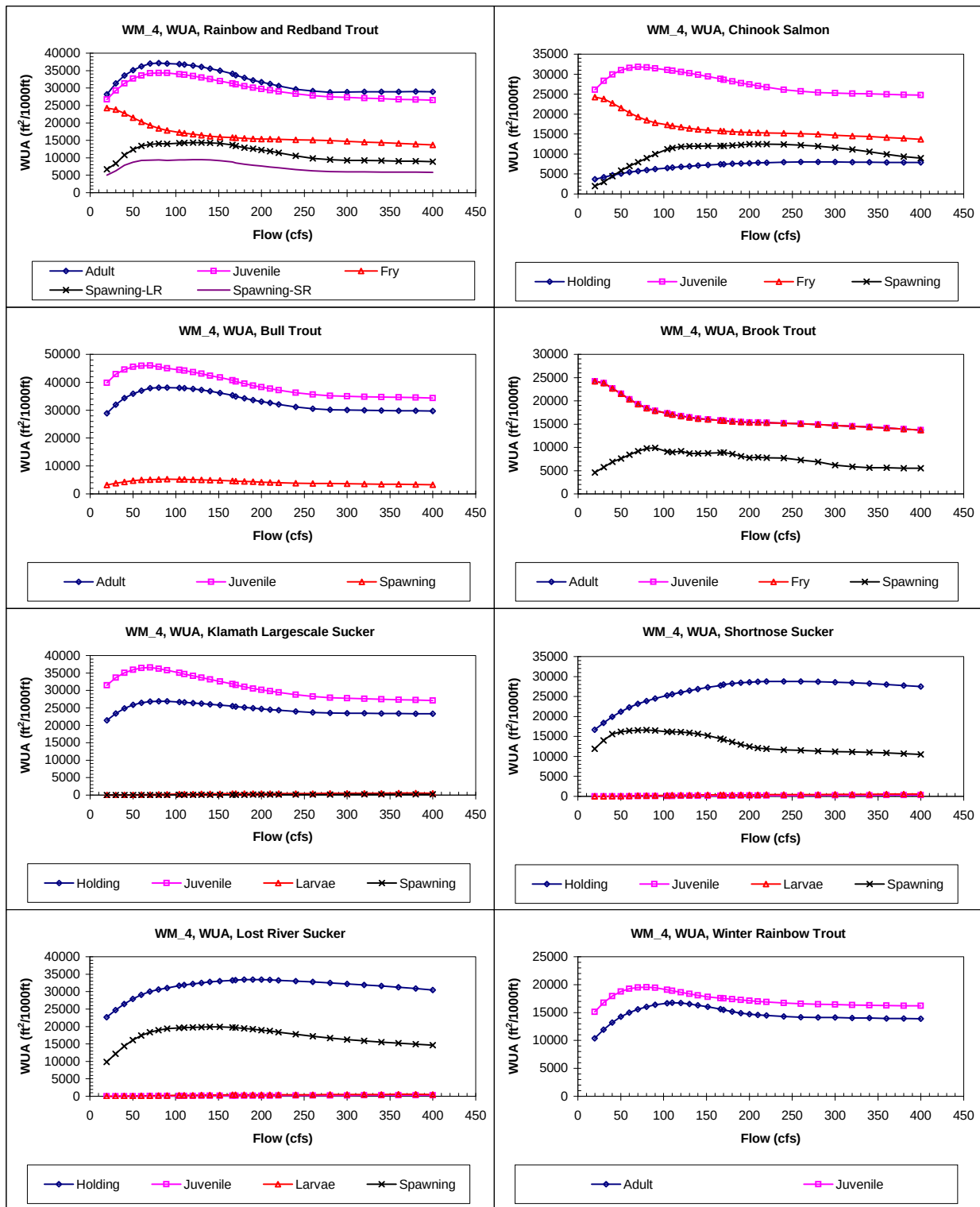
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Site WM 4 Priority Species Habitat - Flow Curves



Site WM 4
Priority Species Habitat - Flow Curves





Reach 628 Williamson River, Site 4, Composite WUA

	Q (cfs)	WUA (ft ² /1000ft)				
		Adult	Juvenile	Fry	Spawning - Large River	Small River
Rainbow and Redband Trout	19.7	28175	26752	24232	6670	5042
	30	31295	29324	23826	8358	6248
	40	33572	31346	22697	10767	7834
	50	35133	32723	21512	12392	8752
	60	36217	33560	20316	13415	9239
	70	37017	34209	19308	13818	9355
	80	37165	34352	18439	14045	9388
	90	37020	34283	17846	13960	9242
	104	36845	33960	17296	14222	9363
	110	36728	33776	17071	14293	9414
	120	36448	33410	16728	14330	9446
	130	36091	33014	16436	14331	9454
	140	35591	32543	16186	14244	9374
	152	34966	31983	15991	14121	9208
	166	34068	31325	15780	13688	8789
	170	33629	31059	15712	13371	8534
	180	32897	30556	15579	12900	8156
	190	32215	30116	15471	12569	7877
	200	31667	29725	15379	12275	7660
	210	31162	29358	15347	11865	7390
	220	30596	28988	15301	11451	7119
	240	29688	28338	15187	10580	6599
	260	29117	27844	15092	9830	6237
	280	28814	27482	14926	9451	6047
	300	28836	27308	14719	9289	5964
	320	28912	27133	14535	9250	5952
	340	28937	26961	14352	9162	5933
	360	28902	26761	14129	9016	5890
	380	28980	26635	13917	9009	5890
	400	28946	26515	13706	8921	5821

	Q (cfs)	WUA (ft ² /1000ft)			
		Holding	Juvenile	Fry	Spawning
Chinook Salmon	19.7	3683	26100	24232	1973
	30	4226	28298	23826	3003
	40	4708	29934	22697	4449
	50	5111	31022	21512	5834
	60	5450	31537	20316	7021
	70	5744	31802	19308	7973
	80	5989	31670	18439	8982
	90	6215	31418	17846	9986
	104	6515	31032	17296	11223
	110	6629	30865	17071	11547
	120	6805	30538	16728	11845
	130	6965	30214	16436	11994
	140	7114	29845	16186	11967
	151.6	7275	29381	15991	11997
	166.2	7416	28817	15780	12008
	170	7472	28599	15712	11998
	180	7563	28169	15579	12124
	190	7650	27763	15471	12312
	200	7732	27401	15379	12453
	210	7802	27061	15347	12478
	220	7854	26709	15301	12472
	240	7939	26115	15187	12394
	260	7996	25686	15092	12190
	280	8003	25381	14926	11992
	300	8002	25244	14719	11611
	320	7976	25142	14535	11135
	340	7949	25046	14352	10574
	360	7915	24914	14129	9922
	380	7885	24834	13917	9328
	400	7861	24757	13706	8958

	Q (cfs)	WUA (ft ² /1000ft)			
		Adult	Juvenile	Fry	Spawning
Bull Trout	19.7	28879	39785		3218
	30	31980	42885		3790
	40	34294	44546		4310
	50	35877	45505		4715
	60	36997	45903		4965
	70	37843	46014		5131
	80	38076	45558		5225
	90	38037	44996		5239
	104	37950	44405		5201
	110	37851	44143		5170
	120	37603	43636		5118
	130	37268	43048		5028
	140	36787	42384		4932
	151.6	36181	41692		4812
	166.2	35319	40722		4661
	170	34905	40264		4573
	180	34217	39504		4450
	190	33584	38812		4330
	200	33058	38250		4213
	210	32567	37742		4099
	220	32028	37189		3997
	240	31144	36243		3844
	260	30521	35573		3759
	280	30128	35111		3698
	300	30020	34937		3613
	320	29977	34830		3544
	340	29895	34689		3483
	360	29781	34568		3424
	380	29771	34527		3368
	400	29691	34357		3291

	Q (cfs)	WUA (ft ² /1000ft)			
		Adult	Juvenile	Fry	Spawning
Brook Trout	19.7	24232	24232	24232	4574
	30	23826	23826	23826	5747
	40	22697	22697	22697	6904
	50	21512	21512	21512	7596
	60	20316	20316	20316	8427
	70	19308	19308	19308	9192
	80	18439	18439	18439	9769
	90	17846	17846	17846	9877
	104	17296	17296	17296	9088
	110	17071	17071	17071	8980
	120	16728	16728	16728	9176
	130	16436	16436	16436	8661
	140	16186	16186	16186	8662
	151.6	15991	15991	15991	8757
	166.2	15780	15780	15780	8857
	170	15712	15712	15712	8899
	180	15579	15579	15579	8594
	190	15471	15471	15471	8099
	200	15379	15379	15379	7754
	210	15347	15347	15347	7874
	220	15301	15301	15301	7757
	240	15187	15187	15187	7706
	260	15092	15092	15092	7273
	280	14926	14926	14926	6869
	300	14719	14719	14719	6157
	320	14535	14535	14535	5831
	340	14352	14352	14352	5619
	360	14129	14129	14129	5634
	380	13917	13917	13917	5534
	400	13706	13706	13706	5531

Reach 628 Williamson River, Site 4, Composite WUA

	Q (cfs)	WUA (ft ² /1000ft)			
		Holding	Juvenile	Larvae	Spawning
Klamath Largescale Sucker	19.7	21393	31498	14	0
	30	23393	33680	27	1
	40	24830	35059	54	4
	50	25835	35944	83	7
	60	26457	36397	116	12
	70	26842	36539	159	18
	80	26911	36234	189	24
	90	26849	35765	222	30
	104	26680	35033	270	41
	110	26595	34703	289	45
	120	26411	34144	314	54
	130	26221	33641	339	62
	140	26024	33124	365	72
	151.6	25810	32542	393	82
	166.2	25479	31829	405	92
	170	25379	31551	408	98
	180	25131	31027	413	106
	190	24907	30556	413	114
	200	24711	30158	412	122
	210	24517	29783	411	130
	220	24302	29402	417	138
	240	23954	28777	434	153
	260	23690	28299	453	166
	280	23531	27929	475	179
	300	23486	27742	495	192
	320	23436	27600	514	204
	340	23409	27493	533	215
	360	23365	27342	547	225
	380	23338	27246	548	230
	400	23289	27122	546	236

	Q (cfs)	WUA (ft ² /1000ft)			
		Holding	Juvenile	Larvae	Spawning
Shorthose Sucker	19.7	16649	3	14	11923
	30	18372	6	27	13982
	40	19901	13	54	15586
	50	21176	21	83	16152
	60	22268	29	116	16409
	70	23181	42	159	16552
	80	23894	53	189	16609
	90	24478	65	222	16458
	104	25267	82	270	16157
	110	25565	89	289	16132
	120	26030	100	314	16093
	130	26449	112	339	15928
	140	26861	123	365	15676
	151.6	27332	136	393	15198
	166.2	27771	145	405	14469
	170	27969	150	408	14161
	180	28253	158	413	13608
	190	28432	166	413	13004
	200	28579	174	412	12448
	210	28701	182	411	12110
	220	28735	188	417	11890
	240	28760	201	434	11659
	260	28765	213	453	11506
	280	28683	228	475	11308
	300	28583	245	495	11210
	320	28451	263	514	11134
	340	28279	281	533	11002
	360	28008	298	547	10859
	380	27771	313	548	10680
	400	27470	327	546	10476

	Q (cfs)	WUA (ft ² /1000ft)			
		Holding	Juvenile	Larvae	Spawning
Lost River Sucker	19.7	22626	3	14	9816
	30	24694	6	27	12173
	40	26473	13	54	14363
	50	27907	21	83	16069
	60	29092	29	116	17430
	70	29984	42	159	18342
	80	30618	53	189	18957
	90	31070	65	222	19393
	104	31701	82	270	19634
	110	31904	89	289	19694
	120	32225	100	314	19776
	130	32520	112	339	19848
	140	32759	123	365	19888
	151.6	33001	136	393	19854
	166.2	33232	145	405	19756
	170	33329	150	408	19647
	180	33449	158	413	19465
	190	33449	166	413	19233
	200	33408	174	412	18974
	210	33357	182	411	18693
	220	33240	188	417	18361
	240	32991	201	434	17754
	260	32787	213	453	17219
	280	32473	228	475	16719
	300	32194	245	495	16283
	320	31931	263	514	15877
	340	31654	281	533	15527
	360	31252	298	547	15222
	380	30896	313	548	14945
	400	30470	327	546	14646

	Q (cfs)	WUA (ft ² /1000ft)			
		Adult	Juvenile	Fry	Spawning
Winter Rainbow Trout	19.7	10366	15100		
	30	11935	16744		
	40	13210	17933		
	50	14246	18764		
	60	14985	19253		
	70	15580	19493		
	80	16037	19547		
	90	16373	19452		
	104	16673	19083		
	110	16754	18912		
	120	16700	18611		
	130	16515	18346		
	140	16301	18089		
	151.6	16021	17825		
	166.2	15603	17572		
	170	15484	17537		
	180	15173	17381		
	190	14886	17247		
	200	14693	17123		
	210	14580	16986		
	220	14475	16876		
	240	14315	16717		
	260	14153	16577		
	280	14107	16496		
	300	14097	16438		
	320	14025	16345		
	340	14005	16313		
	360	13957	16276		
	380	13925	16228		
	400	13893	16224		