

12-8-2009

Ex. 279-US-437

Unknown

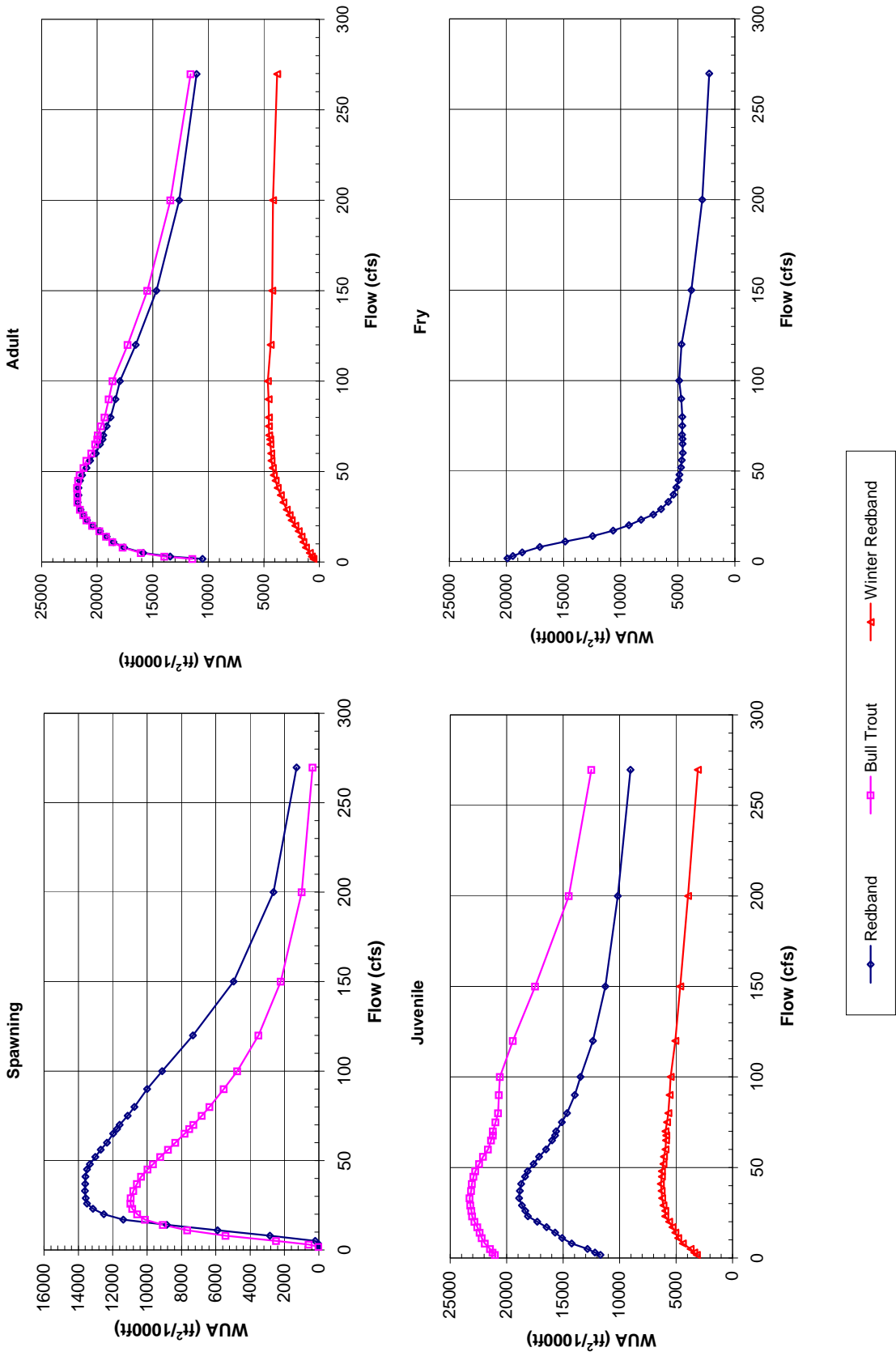
Follow this and additional works at: <https://digitalcommons.law.uidaho.edu/all>

Recommended Citation

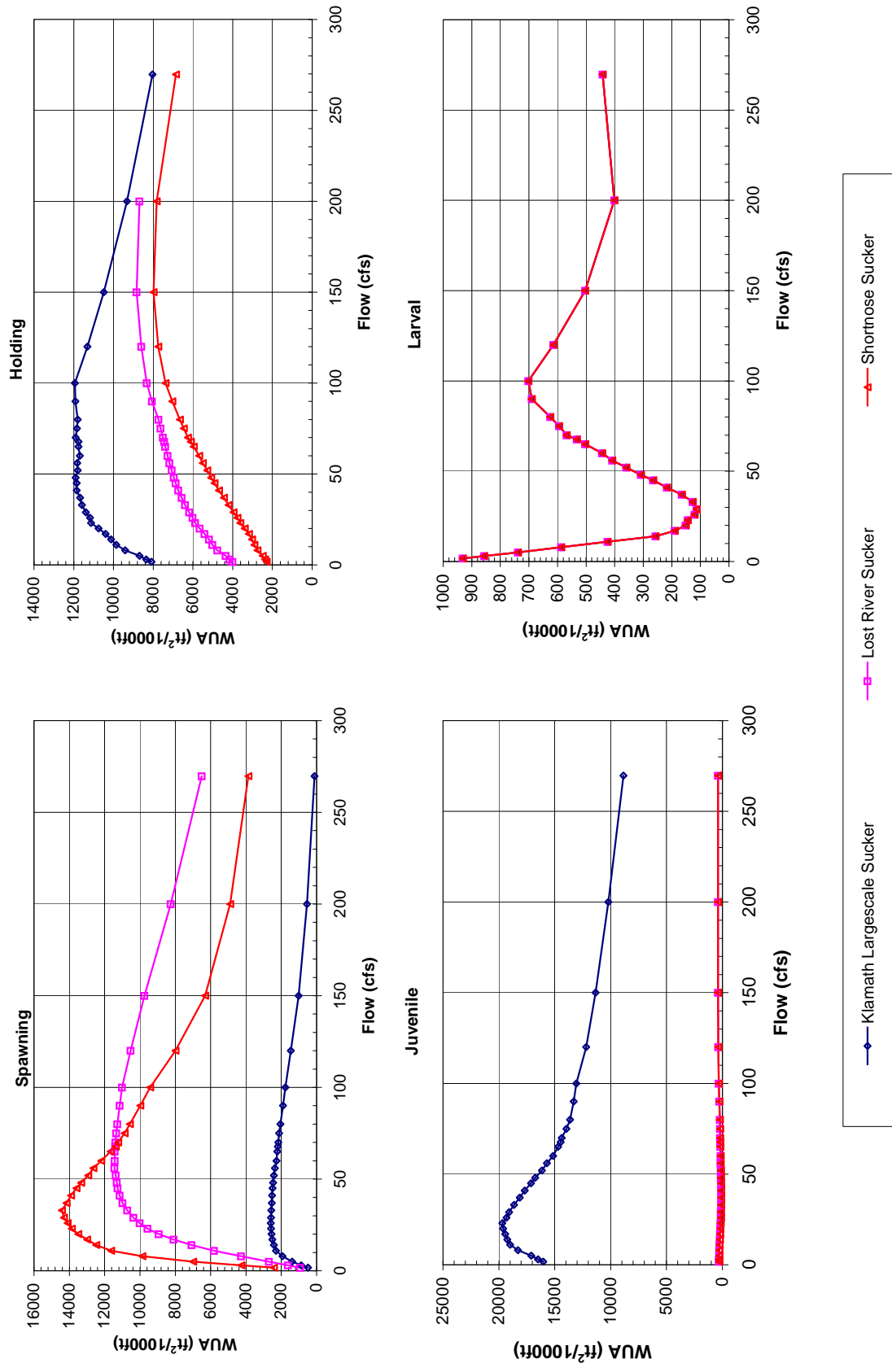
Unknown, "Ex. 279-US-437" (2009). *Hedden-Nicely Collection, All*. 424.
<https://digitalcommons.law.uidaho.edu/all/424>

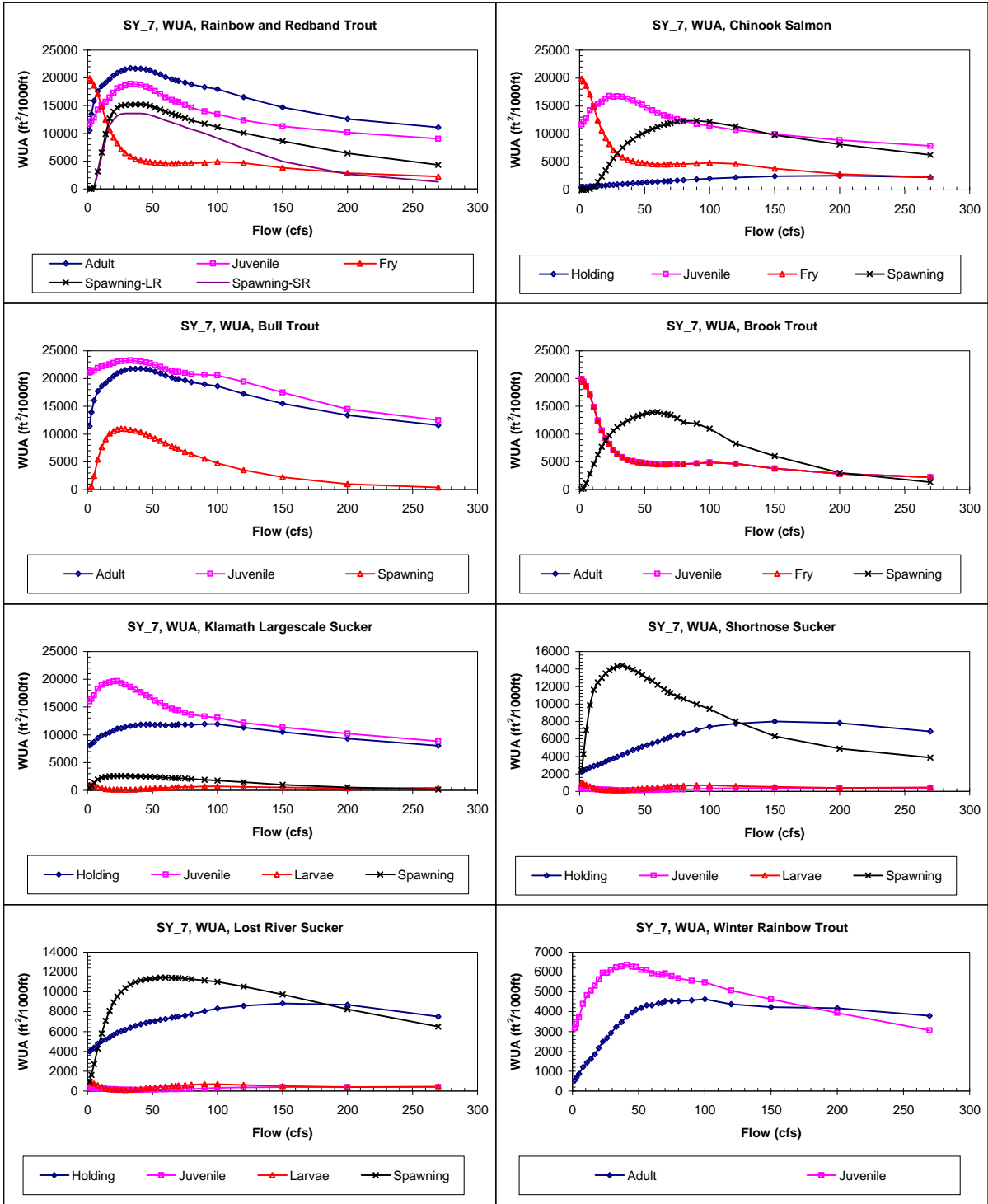
This Expert Report is brought to you for free and open access by the Hedden-Nicely at Digital Commons @ UIdaho Law. It has been accepted for inclusion in Hedden-Nicely Collection, All by an authorized administrator of Digital Commons @ UIdaho Law. For more information, please contact annablaine@uidaho.edu.

Site SY 7 Priority Species Habitat - Flow Curves



Site SY 7
Priority Species Habitat - Flow Curves





Claim Reach 664 Sycan River, Site 7, Composite WUA

	WUA (ft ² /1000ft)				
	Q (cfs)	Adult	Juvenile	Spawning -	
				Large River	Small River
1.7	10508	11694	19919	0	0
3	13433	12189	19439	0	0
5	15865	12846	18623	226	206
8	17595	14240	17092	3126	2855
11	18549	15093	14864	6540	5893
14	19135	15707	12458	9901	8856
17	19760	16466	10652	12681	11385
20	20416	17297	9276	13943	12513
23	20923	18115	8222	14641	13157
26	21221	18344	7139	15018	13503
29	21512	18653	6476	15116	13579
33	21749	18900	5835	15174	13612
37	21696	18825	5367	15196	13598
41	21684	18721	5119	15215	13586
45	21546	18372	4926	15150	13496
48	21373	18142	4853	14978	13329
52	20975	17615	4727	14659	13020
56	20640	17134	4645	14322	12696
60	20134	16510	4559	13941	12333
65	19744	15994	4572	13562	11981
67.7	19514	15715	4574	13318	11747
70	19447	15628	4631	13163	11595
75	19139	15116	4611	12721	11127
80	18801	14662	4616	12359	10732
90	18352	13974	4702	11735	10006
100	17958	13452	4874	11139	9126
120	16538	12372	4664	10057	7326
150	14679	11257	3819	8580	4959
200	12617	10163	2849	6400	2641
269.7	11061	9032	2255	4339	1296

	WUA (ft ² /1000ft)				
	Q (cfs)	Holding	Juvenile	Spawning	
				Fry	Spawning
1.7	514	11694	19919	0	
3	537	12189	19439	0	
5	569	12846	18623	0	
8	639	14240	17092	119	
11	683	15014	14864	631	
14	716	15360	12458	1427	
17	761	15761	10652	2420	
20	816	16277	9276	3480	
23	878	16787	8222	4576	
26	917	16672	7139	5662	
29	971	16731	6476	6544	
33	1043	16643	5835	7587	
37	1108	16286	5367	8430	
41	1181	15993	5119	9059	
45	1244	15525	4926	9663	
48	1293	15221	4853	10043	
52	1347	14688	4727	10531	
56	1409	14268	4645	10904	
60	1459	13748	4559	11292	
65	1535	13326	4572	11660	
67.7	1573	13097	4574	11833	
70	1617	13042	4631	11933	
75	1682	12642	4611	12203	
80	1748	12302	4616	12339	
90	1892	11808	4702	12376	
100	2030	11447	4874	12185	
120	2221	10714	4664	11350	
150	2445	9931	3819	9805	
200	2545	8931	2849	8182	
269.7	2244	7883	2255	6294	

	WUA (ft ² /1000ft)			
	Q (cfs)	Adult	Juvenile	Spawning
1.7	11429	21041		14
3	13945	21240		593
5	16070	21477		2485
8	17712	21931		5427
11	18628	22198		7654
14	19193	22375		9083
17	19807	22595		10123
20	20454	22837		10567
23	20956	23044		10854
26	21246	23130		10969
29	21537	23215		10947
33	21788	23286		10800
37	21773	23145		10592
41	21797	23073		10340
45	21701	22927		9964
48	21568	22772		9651
52	21233	22430		9225
56	20956	22099		8777
60	20518	21650		8352
65	20183	21371		7817
67.7	19981	21210		7543
70	19931	21210		7291
75	19654	20985		6815
80	19344	20765		6365
90	18959	20695		5541
100	18615	20588		4749
120	17247	19447		3514
150	15489	17482		2218
200	13404	14501		997
269.7	11583	12493		359

	WUA (ft ² /1000ft)			
	Q (cfs)	Adult	Juvenile	Spawning
1.7	19919	19919	19919	0
3	19439	19439	19439	210
5	18623	18623	18623	1145
8	17092	17092	17092	2869
11	14864	14864	14864	4592
14	12458	12458	12458	6293
17	10652	10652	10652	7720
20	9276	9276	9276	8848
23	8222	8222	8222	9743
26	7139	7139	7139	10609
29	6476	6476	6476	11195
33	5835	5835	5835	11881
37	5367	5367	5367	12445
41	5119	5119	5119	12876
45	4926	4926	4926	13269
48	4853	4853	4853	13510
52	4727	4727	4727	13771
56	4645	4645	4645	13938
60	4559	4559	4559	13988
65	4572	4572	4572	13660
67.7	4574	4574	4574	13535
70	4631	4631	4631	13460
75	4611	4611	4611	12825
80	4616	4616	4616	12141
90	4702	4702	4702	11905
100	4874	4874	4874	10965
120	4664	4664	4664	8249
150	3819	3819	3819	6013
200	2849	2849	2849	3047
269.7	2255	2255	2255	1342

Claim Reach 664 Sycan River, Site 7, Composite WUA

	WUA (ft ² /1000ft)				
	Q (cfs)	Holding	Juvenile	Larvae	Spawning
Klamath Largescale Sucker	1.7	8088	16032	932	492
	3	8347	16506	857	864
	5	8688	17093	738	1383
	8	9417	18293	587	1938
	11	9864	18997	425	2299
	14	10113	19252	257	2420
	17	10390	19435	190	2506
	20	10752	19622	152	2550
	23	11132	19678	144	2588
	26	11178	19308	120	2602
	29	11385	19072	113	2587
	33	11591	18650	127	2561
	37	11676	18123	165	2533
	41	11855	17694	217	2516
	45	11855	17125	265	2495
	48	11901	16759	308	2467
	52	11801	16157	359	2414
	56	11825	15713	408	2355
	60	11692	15149	444	2277
	65	11752	14701	503	2222
	67.7	11755	14460	532	2192
	70	11897	14382	567	2173
	75	11833	13965	595	2119
	80	11795	13625	626	2043
	90	11910	13299	690	1905
	100	11944	13066	702	1776
	120	11313	12177	615	1463
	150	10491	11353	504	1021
	200	9319	10201	401	543
	269.7	8034	8853	442	122

	WUA (ft ² /1000ft)				
	Q (cfs)	Holding	Juvenile	Larvae	Spawning
Shorthead Sucker	1.7	2289	304	932	2426
	3	2376	298	857	4262
	5	2493	285	738	6994
	8	2746	275	587	9859
	11	2907	252	425	11629
	14	3029	223	257	12472
	17	3192	199	190	12996
	20	3397	181	152	13492
	23	3618	168	144	13857
	26	3760	140	120	14095
	29	3953	128	113	14309
	33	4207	124	127	14428
	37	4438	118	165	14150
	41	4696	119	217	13908
	45	4912	125	265	13603
	48	5087	133	308	13324
	52	5279	140	359	12927
	56	5505	152	408	12637
	60	5689	161	444	12201
	65	5970	179	503	11671
	67.7	6108	187	532	11374
	70	6249	198	567	11242
	75	6459	208	595	10869
	80	6655	222	626	10580
	90	7043	277	690	9976
	100	7384	324	702	9422
	120	7751	372	615	7987
	150	7990	405	504	6310
	200	7832	400	401	4891
	269.7	6852	399	442	3863

	WUA (ft ² /1000ft)				
	Q (cfs)	Holding	Juvenile	Larvae	Spawning
Lost River Sucker	1.7	4005	304	932	924
	3	4156	298	857	1628
	5	4354	285	738	2704
	8	4768	275	587	4279
	11	5019	252	425	5803
	14	5189	223	257	7081
	17	5414	199	190	8103
	20	5668	181	152	8933
	23	5884	168	144	9567
	26	6014	140	120	10008
	29	6187	128	113	10373
	33	6395	124	127	10715
	37	6572	118	165	10982
	41	6739	119	217	11152
	45	6868	125	265	11261
	48	6967	133	308	11316
	52	7064	140	359	11374
	56	7180	152	408	11436
	60	7270	161	444	11435
	65	7390	179	503	11423
	67.7	7449	187	532	11402
	70	7516	198	567	11392
	75	7623	208	595	11343
	80	7736	222	626	11282
	90	8059	277	690	11152
	100	8330	324	702	11018
	120	8605	372	615	10531
	150	8833	405	504	9750
	200	8692	400	401	8254
	269.7	7516	399	442	6506

	WUA (ft ² /1000ft)				
	Q (cfs)	Adult	Juvenile	Fry	Spawning
Winter Rainbow Trout	1.7	546	3164		
	3	682	3395		
	5	864	3707		
	8	1210	4396		
	11	1439	4825		
	14	1619	5061		
	17	1855	5311		
	20	2170	5626		
	23	2494	5957		
	26	2676	5967		
	29	2934	6115		
	33	3233	6237		
	37	3471	6278		
	41	3759	6359		
	45	3946	6266		
	48	4094	6259		
	52	4192	6114		
	56	4324	6089		
	60	4330	5933		
	65	4416	5899		
	67.7	4433	5862		
	70	4534	5937		
	75	4543	5794		
	80	4543	5683		
	90	4576	5564		
	100	4632	5487		
	120	4374	5070		
	150	4234	4626		
	200	4174	3946		
	269.7	3791	3066		