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Ex. 280-US-428

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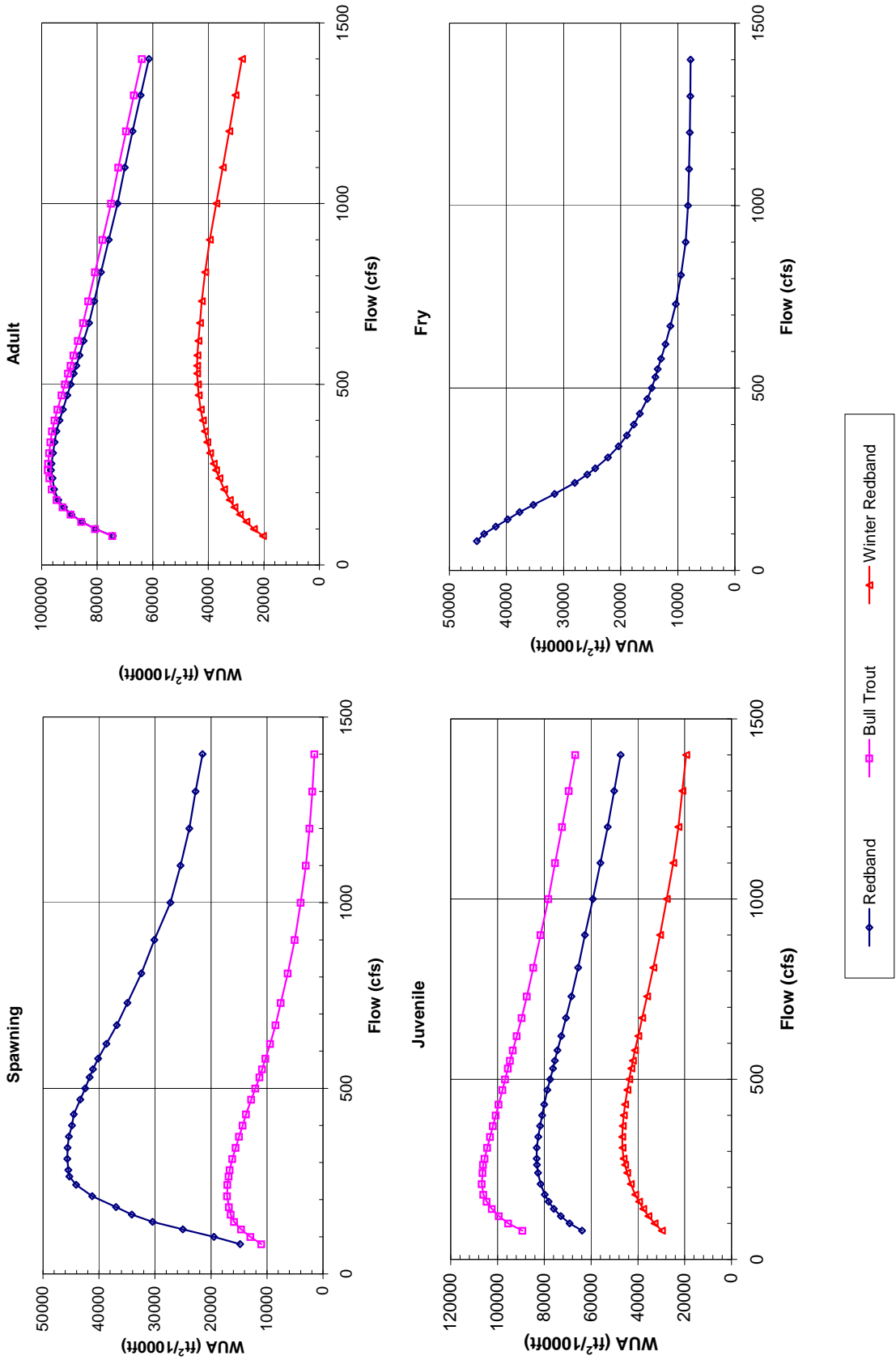
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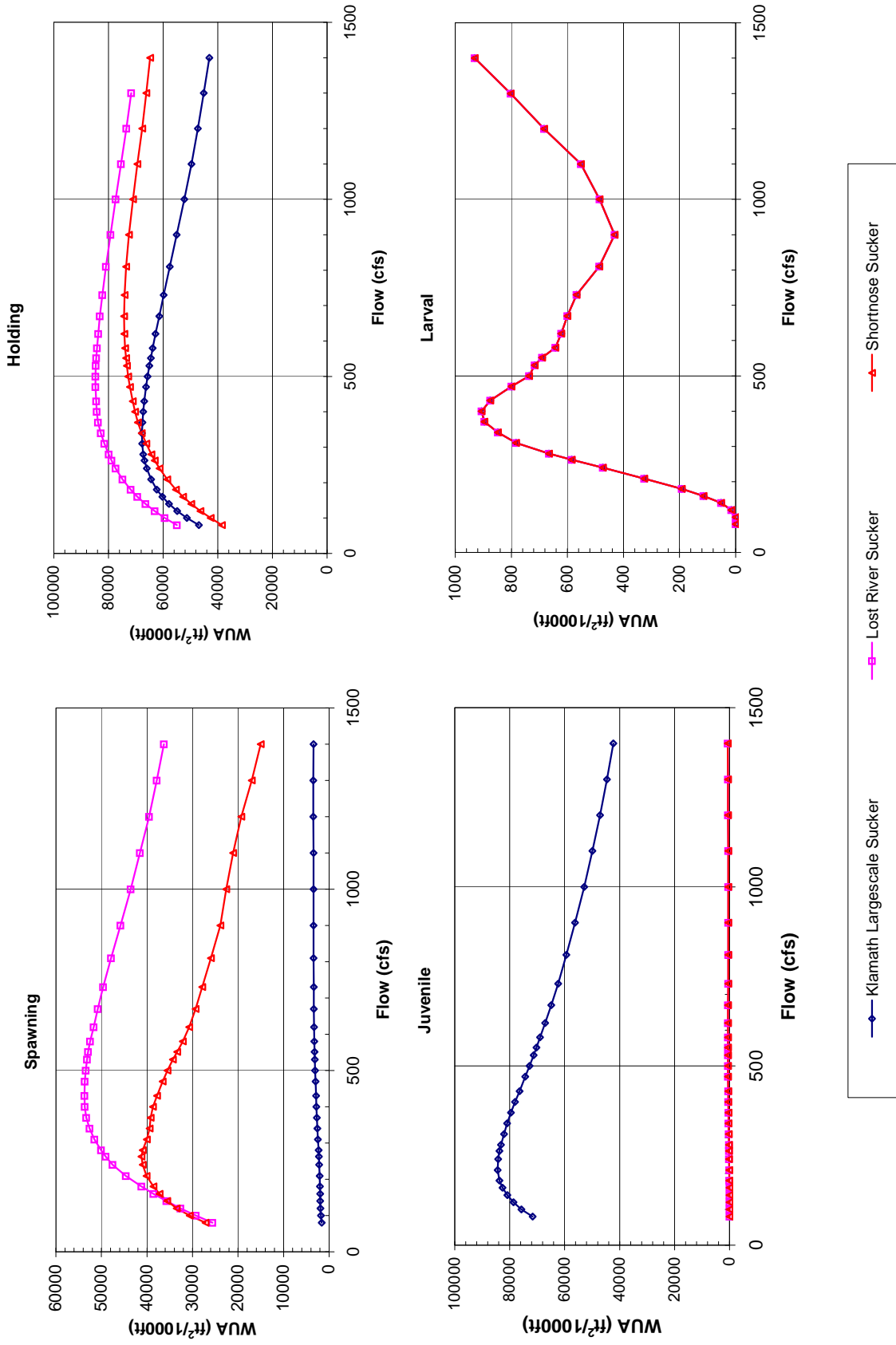
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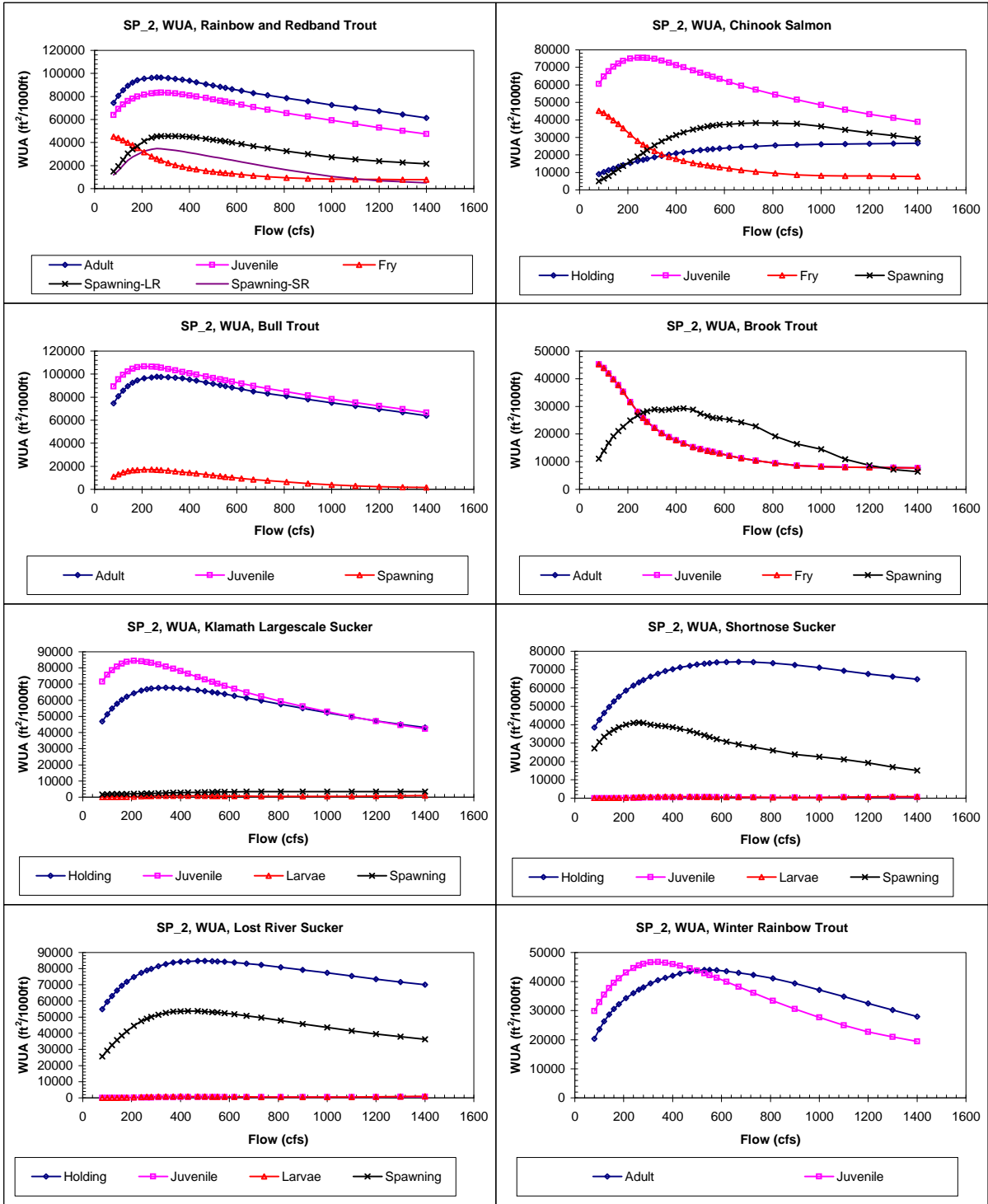
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Site 642
Priority Species Habitat - Flow Curves



Site 642
Priority Species Habitat - Flow Curves





Sprague River, Site 642, Composite WUA

	WUA (ft ² /1000ft)				
	Q	Spawning - Spawning -			
	(cfs)	Adult	Juvenile	Fry	Large River Small River
80	74394	63824	45195	14819	11799
100	80667	69184	43938	19480	15597
120	85508	72994	41882	25002	20127
140	89272	75968	39805	30430	24578
160	92013	78160	37692	34138	27491
180	94019	79826	35307	36941	29585
209.3	95556	81618	31582	41233	32500
240	96120	82656	28036	44088	34232
263	96612	83141	25871	45271	34759
280	96420	83268	24443	45482	34587
310	95868	83209	22229	45651	33991
340	95342	82630	20355	45624	33179
370	94673	81791	18905	45359	32179
400	93574	80912	17711	44823	31059
430	92394	80029	16636	44474	30145
470	90777	78708	15315	43342	28595
500	89546	77516	14586	42453	27515
530	88399	76327	13947	41675	26492
552	87509	75464	13516	41086	25746
580	86391	74380	12947	40138	24689
620	84854	72753	12145	38680	23175
670	82921	70690	11277	36832	21190
730	81027	68418	10363	34942	19030
810	78605	65589	9425	32438	16230
900	75866	62625	8613	30106	13436
1000	72702	59271	8203	27229	10449
1100	70023	56003	8034	25451	8409
1200	67219	52940	7913	23867	6937
1300	64383	50188	7789	22776	5887
1400	61360	47338	7739	21499	4975

	WUA (ft ² /1000ft)			
	Q	Spawning		
	(cfs)	Holding	Juvenile	Fry
80	8976	60569	45195	4977
100	10174	64819	43938	6447
120	11266	67812	41882	8056
140	12273	70332	39805	9924
160	13209	72208	37692	11933
180	14092	73630	35307	13657
209.3	15293	74953	31582	16304
240	16442	75453	28036	19047
262.7	17229	75517	25871	21162
280	17782	75400	24443	22787
310	18670	74828	22229	25441
340	19492	73835	20355	27729
370	20225	72616	18905	29704
400	20901	71303	17711	31385
430	21510	70011	16636	32806
470	22213	68303	15315	34431
500	22677	66932	14586	35467
530	23080	65600	13947	36381
551.6	23340	64639	13516	36818
580	23655	63411	12947	37200
620	24060	61687	12145	37501
670	24498	59574	11277	37932
730	24928	57248	10363	38193
810	25388	54448	9425	38125
900	25752	51560	8613	37855
1000	26039	48530	8203	36286
1100	26253	45795	8034	34400
1200	26418	43301	7913	32572
1300	26550	41100	7789	31012
1400	26664	38872	7739	29175

	WUA (ft ² /1000ft)			
	Q	Spawning		
	(cfs)	Adult	Juvenile	Fry
80	74555	89345		11006
100	80821	95403		12973
120	85701	99441		14601
140	89542	102418		15845
160	92415	104589		16479
180	94558	106040		16774
209.3	96353	106696		17099
240	97191	106406		17086
262.7	97750	106148		16851
280	97658	105503		16631
310	97255	104339		16198
340	96853	103182		15596
370	96307	101921		14981
400	95356	100722		14360
430	94290	99547		13751
470	92782	97913		12825
500	91596	96729		12082
530	90456	95590		11354
551.6	89579	94677		10874
580	88481	93486		10268
620	86966	91812		9440
670	85072	89666		8487
730	83202	87489		7522
810	80804	84659		6308
900	78114	81626		5064
1000	75034	78245		3957
1100	72382	75350		3072
1200	69624	72414		2395
1300	66835	69551		1887
1400	63909	66730		1513

	WUA (ft ² /1000ft)			
	Q	Spawning		
	(cfs)	Adult	Juvenile	Fry
80	45195	45195	45195	11064
100	43938	43938	43938	13889
120	41882	41882	41882	16772
140	39805	39805	39805	19147
160	37692	37692	37692	21063
180	35307	35307	35307	22626
209.3	31582	31582	31582	24916
240	28036	28036	28036	26732
262.7	25871	25871	25871	27741
280	24443	24443	24443	28225
310	22229	22229	22229	28891
340	20355	20355	20355	28594
370	18905	18905	18905	28778
400	17711	17711	17711	29074
430	16636	16636	16636	29283
470	15315	15315	15315	28824
500	14586	14586	14586	27402
530	13947	13947	13947	26564
551.6	13516	13516	13516	25828
580	12947	12947	12947	25625
620	12145	12145	12145	25171
670	11277	11277	11277	24256
730	10363	10363	10363	22838
810	9425	9425	9425	19134
900	8613	8613	8613	16418
1000	8203	8203	8203	14492
1100	8034	8034	8034	10898
1200	7913	7913	7913	8653
1300	7789	7789	7789	7145
1400	7739	7739	7739	6386

Sprague River, Site 642, Composite WUA

	WUA (ft ² /1000ft)				
	Q				
	(cfs)	Holding	Juvenile	Larvae	Spawning
Klamath Largescale Sucker	80	46954	71615	0	1653
	100	51335	75721	0	1791
	120	54890	78622	15	1886
	140	57836	80870	52	1941
	160	60310	82601	115	1970
	180	62294	83759	192	2010
	209.3	64426	84400	326	2088
	240	65975	84197	473	2178
	262.7	66833	83695	584	2255
	280	67288	83185	665	2324
	310	67647	82107	784	2453
	340	67737	80902	848	2596
	370	67576	79572	896	2710
	400	67288	78049	906	2801
	430	66890	76437	875	2885
	470	66255	74331	800	2992
	500	65689	72772	737	3071
	530	65027	71305	717	3147
	551.6	64525	70264	691	3201
	580	63823	68934	643	3272
	620	62773	67088	622	3334
	670	61427	64861	600	3367
	730	59784	62397	567	3389
	810	57541	59355	487	3400
	900	55047	56269	432	3415
	1000	52276	52927	486	3424
	1100	49660	49886	552	3439
	1200	47282	47122	683	3471
	1300	45150	44633	803	3450
	1400	43055	42240	931	3421

	WUA (ft ² /1000ft)				
	Q				
	(cfs)	Holding	Juvenile	Larvae	Spawning
Shorthose Sucker	80	38459	0	0	27166
	100	42658	0	0	30601
	120	46387	4	15	33504
	140	49724	15	52	35568
	160	52681	33	115	37251
	180	55307	56	192	38603
	209.3	58547	100	326	40099
	240	61288	151	473	40926
	262.7	63057	193	584	41221
	280	64286	227	665	40944
	310	66196	285	784	40019
	340	67834	340	848	39446
	370	69206	402	896	39215
	400	70257	456	906	38692
	430	71168	499	875	37797
	470	72154	538	800	36584
	500	72790	557	737	35519
	530	73283	567	717	34309
	551.6	73587	568	691	33343
	580	73902	564	643	32141
	620	74178	556	622	30715
	670	74315	533	600	29322
	730	74128	500	567	27881
	810	73584	459	487	25969
	900	72502	449	432	23914
	1000	71059	467	486	22587
	1100	69415	504	552	21074
	1200	67700	545	683	19287
	1300	66142	579	803	17017
	1400	64720	614	931	15027

	WUA (ft ² /1000ft)				
	Q				
	(cfs)	Holding	Juvenile	Larvae	Spawning
Lost River Sucker	80	54941	0	0	25632
	100	59395	0	0	29289
	120	63105	4	15	32631
	140	66435	15	52	35702
	160	69394	33	115	38592
	180	71871	56	192	41222
	209.3	74854	100	326	44629
	240	77420	151	473	47535
	262.7	78908	193	584	49075
	280	79942	227	665	50099
	310	81475	285	784	51511
	340	82819	340	848	52579
	370	83810	402	896	53339
	400	84269	456	906	53646
	430	84528	499	875	53734
	470	84730	538	800	53678
	500	84759	557	737	53462
	530	84629	567	717	53153
	551.6	84475	568	691	52909
	580	84204	564	643	52467
	620	83782	556	622	51726
	670	83179	533	600	50776
	730	82262	500	567	49612
	810	80926	459	487	47898
	900	79251	449	432	45791
	1000	77368	467	486	43569
	1100	75465	504	552	41542
	1200	73492	545	683	39542
	1300	71722	579	803	37855
	1400	70117	614	931	36307

	WUA (ft ² /1000ft)				
	Q				
	(cfs)	Adult	Juvenile	Fry	Spawning
Winter Rainbow Trout	80	20358	29820		
	100	23628	32899		
	120	26330	35519		
	140	28635	37718		
	160	30594	39575		
	180	32234	41126		
	209.3	34335	43065		
	240	36036	44667		
	262.7	37188	45532		
	280	38056	46116		
	310	39366	46619		
	340	40434	46715		
	370	41259	46470		
	400	42008	46033		
	430	42745	45454		
	470	43462	44553		
	500	43797	43751		
	530	43993	42845		
	551.6	44026	42178		
	580	43934	41272		
	620	43587	39902		
	670	43016	38220		
	730	42332	36114		
	810	41093	33388		
	900	39426	30577		
	1000	37150	27678		
	1100	34809	24926		
	1200	32486	22725		
	1300	30226	21007		
	1400	27922	19391		