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Ex. 277-US-436

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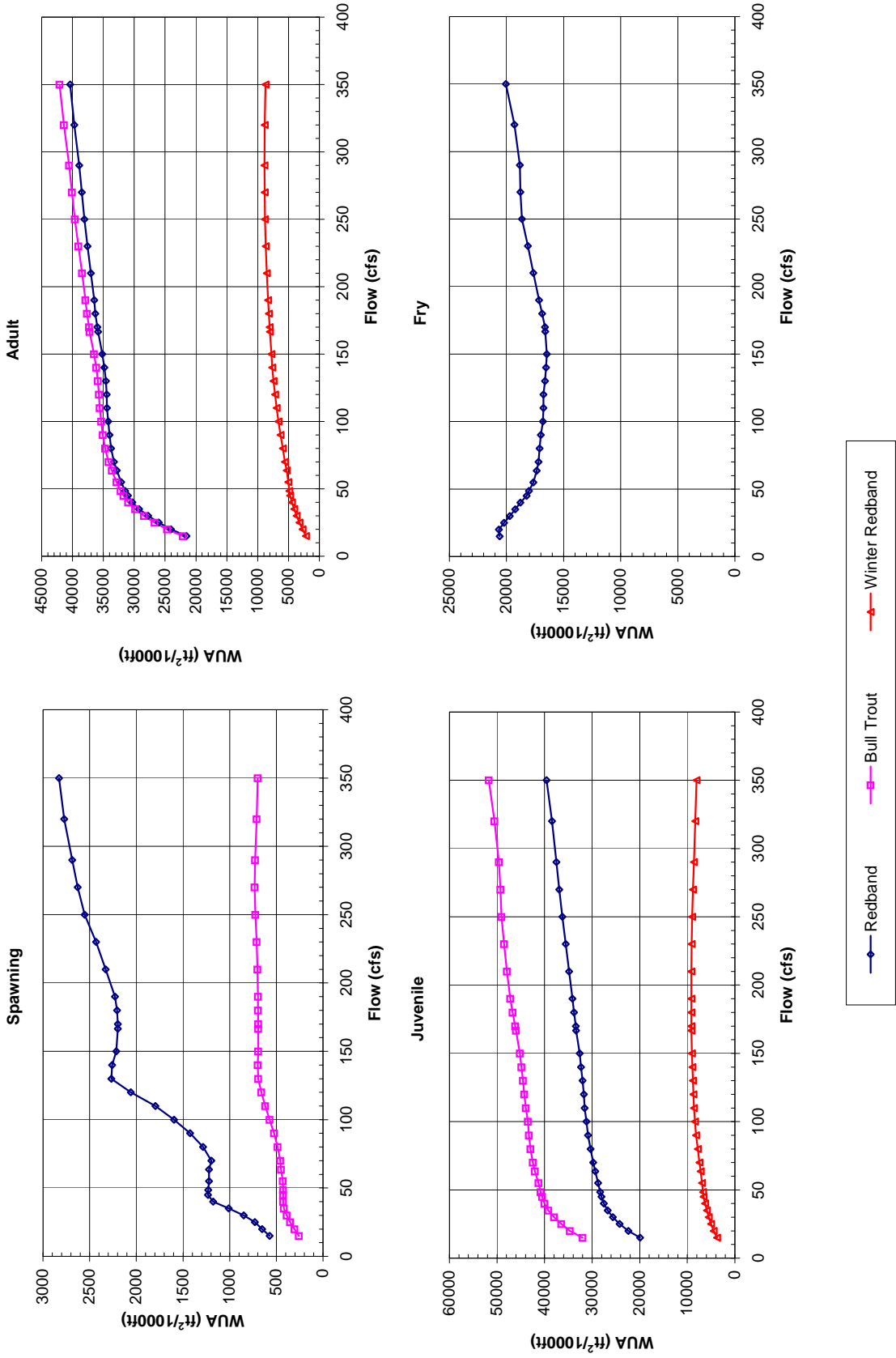
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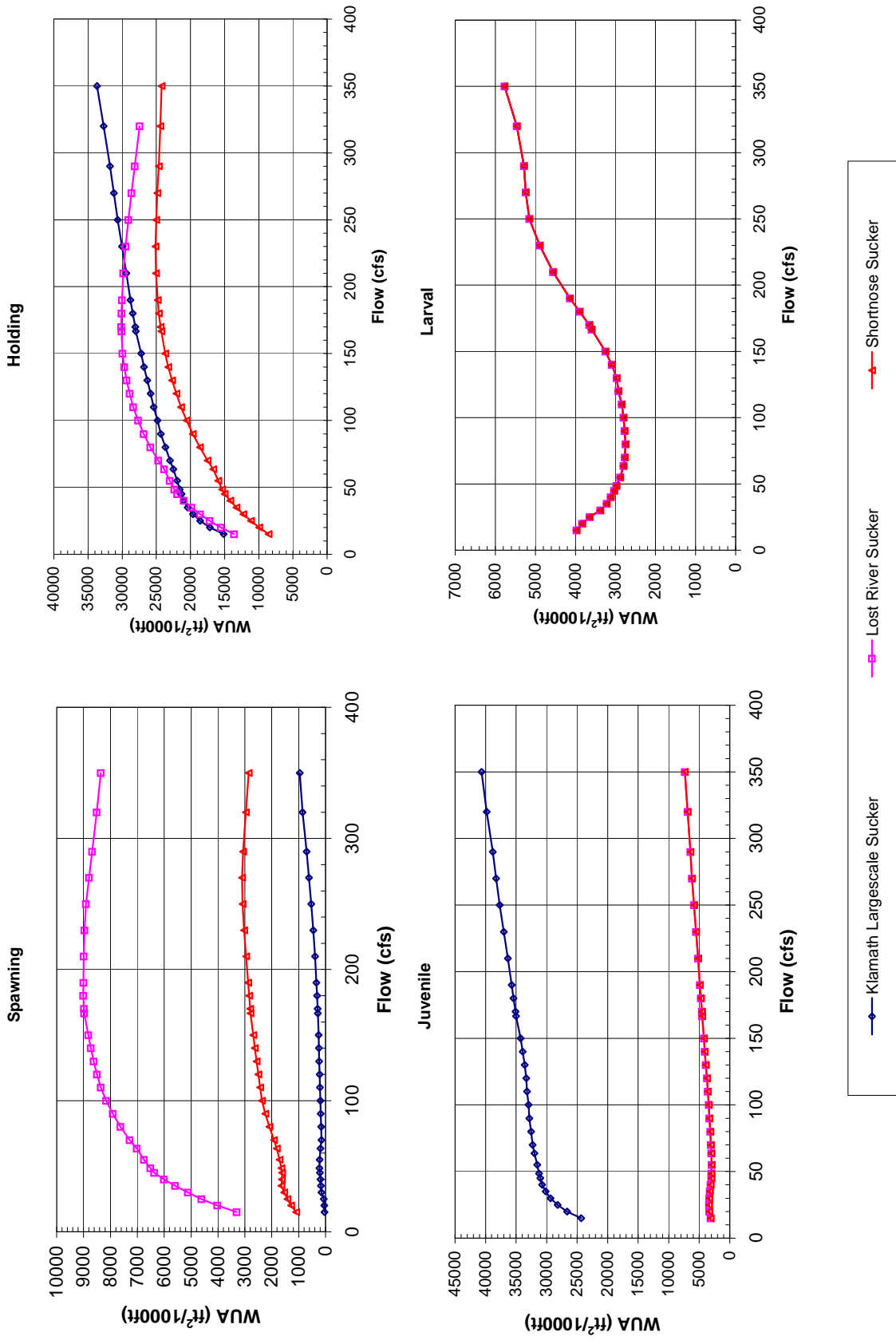
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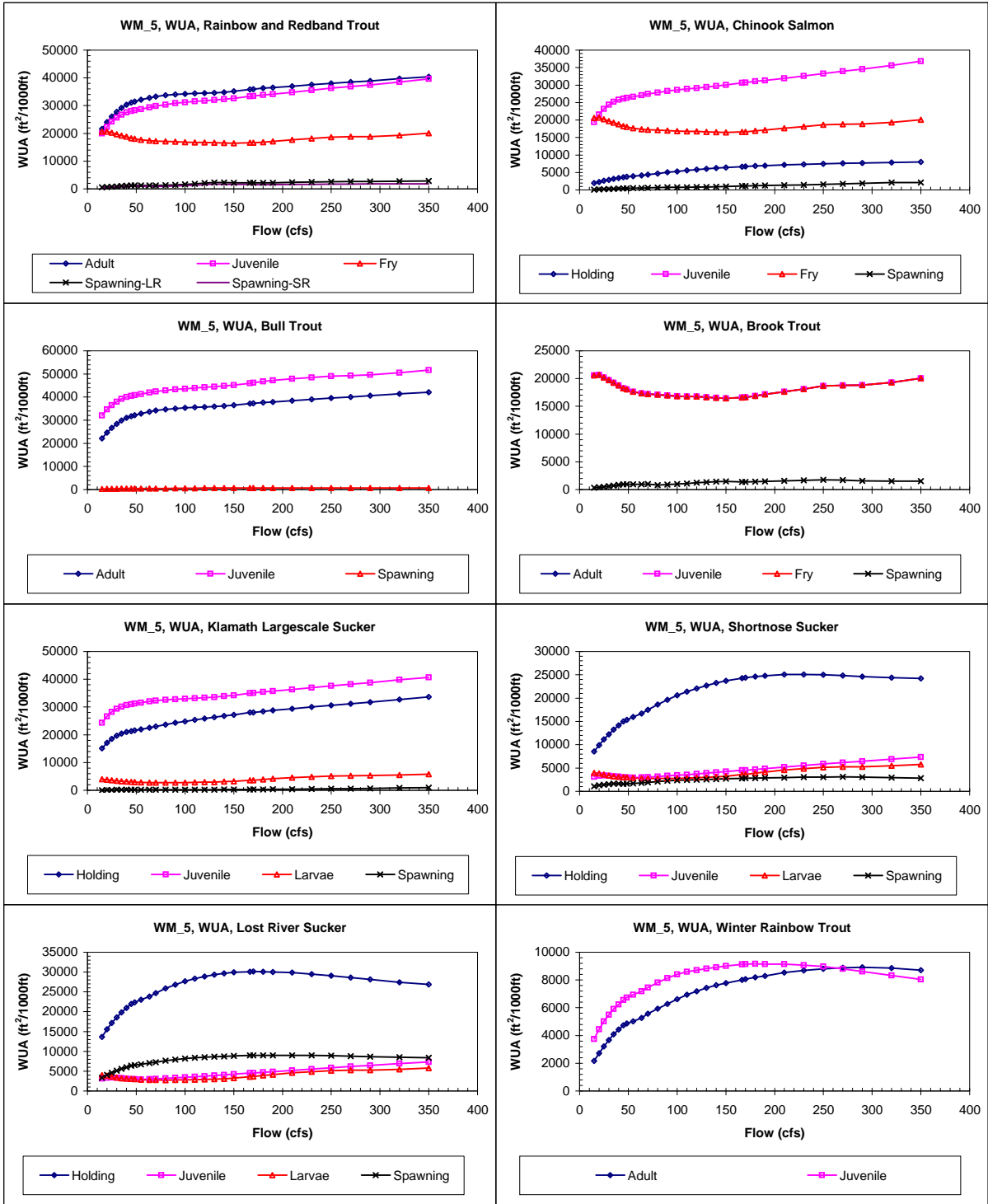
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Site WM 5
Priority Species Habitat - Flow Curves



Site WM 5
Priority Species Habitat - Flow Curves





Reach 629 Williamson River, Site 5, Composite WUA

	WUA (ft ² /1000ft)				
	Q	Adult	Juvenile	Fry	Spawning - Spawning -
	(cfs)			Large River	Small River
15	21542	19928	20597	572	429
20	24050	22381	20658	651	488
25	26044	24214	20206	730	547
30	27744	25652	19724	849	637
35	29197	26731	19241	1011	758
40	30297	27536	18778	1177	883
45	31041	28027	18244	1233	924
48.5	31474	28329	18042	1229	922
55	32097	28749	17655	1222	916
63.6	32832	29329	17348	1221	916
70	33306	29800	17189	1197	898
80	33730	30341	17102	1286	964
90	34009	30873	16990	1423	1067
100	34210	31225	16821	1594	1196
110	34405	31556	16768	1797	1343
120	34464	31749	16765	2060	1530
130	34583	32020	16629	2268	1673
140	34824	32338	16536	2258	1654
150	35164	32631	16468	2214	1608
166.6	35856	33352	16596	2197	1569
170	35966	33435	16628	2197	1562
180	36290	33815	16869	2206	1549
190	36498	34139	17144	2227	1546
210	37024	34829	17643	2329	1588
230	37564	35566	18127	2431	1636
250	38063	36276	18658	2552	1705
270	38483	36895	18781	2627	1743
290	38922	37487	18834	2688	1768
320	39694	38457	19300	2774	1789
350	40374	39602	20062	2829	1781

	WUA (ft ² /1000ft)				
	Q	Holding	Juvenile	Fry	Spawning
	(cfs)				
15	1929	19399	20597	102	
20	2289	21561	20658	149	
25	2607	23147	20206	198	
30	2898	24343	19724	251	
35	3164	25200	19241	307	
40	3405	25798	18778	389	
45	3629	26105	18244	478	
48.5	3738	26343	18042	488	
55	3919	26636	17655	506	
63.6	4149	27076	17348	527	
70	4375	27450	17189	601	
80	4700	27876	17102	711	
90	5023	28334	16990	753	
100	5317	28610	16821	746	
110	5587	28919	16768	736	
120	5820	29121	16765	793	
130	6041	29410	16629	855	
140	6242	29728	16536	922	
150	6416	30009	16468	993	
166.6	6673	30671	16596	1120	
170	6724	30736	16628	1147	
180	6851	31063	16869	1203	
190	6957	31341	17144	1249	
210	7174	31944	17643	1340	
230	7346	32637	18127	1437	
250	7509	33317	18658	1577	
270	7627	33943	18781	1730	
290	7728	34582	18834	1885	
320	7871	35624	19300	2085	
350	8028	36859	20062	2124	

	WUA (ft ² /1000ft)				
	Q	Adult	Juvenile	Fry	Spawning
	(cfs)				
15	22129	32002		259	
20	24680	34675		306	
25	26699	36494		352	
30	28408	37993		389	
35	29862	39211		418	
40	30976	40037		428	
45	31747	40498		428	
48.5	32194	40822		428	
55	32848	41288		431	
63.6	33642	42014		450	
70	34188	42449		459	
80	34710	42937		486	
90	35074	43292		525	
100	35333	43527		571	
110	35587	43923		618	
120	35710	44259		660	
130	35886	44512		694	
140	36160	44867		699	
150	36503	45182		695	
166.6	37220	46020		695	
170	37330	46144		695	
180	37667	46730		695	
190	37898	47193		696	
210	38457	47894		702	
230	39048	48515		709	
250	39616	49077		725	
270	40093	49285		732	
290	40565	49593		727	
320	41380	50546		711	
350	42094	51718		699	

	WUA (ft ² /1000ft)				
	Q	Adult	Juvenile	Fry	Spawning
	(cfs)				
15	20597	20597	20597	350	
20	20658	20658	20658	412	
25	20206	20206	20206	494	
30	19724	19724	19724	596	
35	19241	19241	19241	720	
40	18778	18778	18778	864	
45	18244	18244	18244	930	
48.5	18042	18042	18042	935	
55	17655	17655	17655	942	
63.6	17348	17348	17348	953	
70	17189	17189	17189	989	
80	17102	17102	17102	803	
90	16990	16990	16990	891	
100	16821	16821	16821	1000	
110	16768	16768	16768	1116	
120	16765	16765	16765	1237	
130	16629	16629	16629	1346	
140	16536	16536	16536	1417	
150	16468	16468	16468	1476	
166.6	16596	16596	16596	1370	
170	16628	16628	16628	1385	
180	16869	16869	16869	1433	
190	17144	17144	17144	1479	
210	17643	17643	17643	1560	
230	18127	18127	18127	1652	
250	18658	18658	18658	1743	
270	18781	18781	18781	1726	
290	18834	18834	18834	1577	
320	19300	19300	19300	1528	
350	20062	20062	20062	1530	

Reach 629 Williamson River, Site 5, Composite WUA

Q (cfs)	WUA (ft ² /1000ft)			
	Holding	Juvenile	Larvae	Spawning
15	15152	24344	3974	41
20	17150	26624	3830	52
25	18568	28207	3644	70
30	19643	29348	3376	148
35	20406	30173	3219	170
40	20980	30737	3117	192
45	21309	31031	3038	213
48.5	21569	31261	2977	226
55	21934	31537	2880	222
63.6	22503	32001	2798	186
70	23006	32301	2765	154
80	23678	32557	2747	165
90	24351	32823	2774	179
100	24815	32974	2801	194
110	25372	33199	2841	208
120	25818	33341	2927	221
130	26315	33596	2974	234
140	26790	33907	3093	247
150	27221	34241	3254	260
166.6	27997	34994	3596	287
170	28088	35073	3650	294
180	28457	35410	3894	317
190	28767	35699	4139	340
210	29400	36348	4561	390
230	30028	37021	4891	453
250	30654	37671	5153	529
270	31215	38255	5240	614
290	31771	38822	5285	706
320	32706	39799	5466	859
350	33668	40654	5769	964

Q (cfs)	WUA (ft ² /1000ft)			
	Holding	Juvenile	Larvae	Spawning
15	8549	3129	3974	1096
20	9929	3331	3830	1287
25	11136	3394	3644	1419
30	12249	3350	3376	1539
35	13264	3248	3219	1643
40	14165	3154	3117	1625
45	14992	3024	3038	1613
48.5	15349	2999	2977	1647
55	15938	2961	2880	1709
63.6	16690	3011	2798	1814
70	17486	3075	2765	1922
80	18629	3178	2747	2087
90	19664	3326	2774	2240
100	20578	3433	2801	2361
110	21388	3593	2841	2428
120	22064	3743	2927	2502
130	22686	3922	2974	2566
140	23244	4088	3093	2630
150	23712	4233	3254	2692
166.6	24267	4516	3596	2794
170	24379	4547	3650	2806
180	24624	4712	3894	2838
190	24786	4879	4139	2874
210	25065	5204	4561	2949
230	25103	5540	4891	3032
250	25028	5872	5153	3085
270	24855	6184	5240	3104
290	24647	6459	5285	3068
320	24397	6888	5466	2962
350	24232	7345	5769	2856

Q (cfs)	WUA (ft ² /1000ft)			
	Holding	Juvenile	Larvae	Spawning
15	13621	3129	3974	3302
20	15558	3331	3830	4028
25	17186	3394	3644	4620
30	18592	3350	3376	5120
35	19851	3248	3219	5592
40	20954	3154	3117	6013
45	21949	3024	3038	6373
48.5	22356	2999	2977	6517
55	23014	2961	2880	6749
63.6	23852	3011	2798	7020
70	24716	3075	2765	7284
80	25862	3178	2747	7631
90	26840	3326	2774	7913
100	27679	3433	2801	8156
110	28371	3593	2841	8354
120	28890	3743	2927	8500
130	29334	3922	2974	8623
140	29688	4088	3093	8729
150	29939	4233	3254	8824
166.6	30100	4516	3596	8974
170	30117	4547	3650	8988
180	30097	4712	3894	9008
190	30018	4879	4139	9007
210	29844	5204	4561	8997
230	29481	5540	4891	8964
250	29086	5872	5153	8904
270	28643	6184	5240	8794
290	28138	6459	5285	8680
320	27424	6888	5466	8510
350	26889	7345	5769	8354

Q (cfs)	WUA (ft ² /1000ft)			
	Adult	Juvenile	Fry	Spawning
15	2170	3743		
20	2718	4442		
25	3218	5014		
30	3674	5492		
35	4083	5905		
40	4435	6244		
45	4739	6566		
48.5	4861	6723		
55	5023	6936		
63.6	5272	7195		
70	5562	7450		
80	5934	7809		
90	6277	8142		
100	6616	8403		
110	6931	8591		
120	7196	8711		
130	7425	8815		
140	7622	8918		
150	7777	9013		
166.6	8005	9124		
170	8065	9145		
180	8192	9155		
190	8294	9141		
210	8533	9147		
230	8679	9077		
250	8804	8971		
270	8871	8794		
290	8907	8603		
320	8857	8324		
350	8710	8039		