

Appendix L

Wilder 2D Dual Flow Analysis Tables and Figures

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Wilder - Chase Island 2D Fallfish fry persistent and persistent quality habitat.

Base Flows	Base Flow WUA	Persistent WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	56811	13905	8074	4223	2162	1381	631	356	144
1000	52869	15776	9383	5055	2668	1737	790	445	193
1500	47152	19035	11635	6553	3597	2415	1123	624	298
2000	40622	21348	13361	7677	4331	2967	1436	821	392
2500	35145	23663	15094	8832	5069	3524	1746	1036	495
3000	30551	25712	16689	9873	5754	4056	2052	1240	616

Base Flows	Base Flow WUA	Persistent Quality WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	35414	3491	1380	354	81	19	0	0	0
1000	31982	4514	1866	568	159	57	6	0	0
1500	28547	6912	3004	1072	323	160	14	0	0
2000	23733	8910	4196	1503	524	278	18	7	0
2500	19664	11027	5556	2172	732	378	50	19	0
3000	17041	13160	7066	2958	1089	609	84	27	3

Base Flows	% at Base Flow	% Loss Persistent WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	76	86	93	96	98	99	99	100
1000	0	70	82	90	95	97	99	99	100
1500	0	60	75	86	92	95	98	99	99
2000	0	47	67	81	89	93	96	98	99
2500	0	33	57	75	86	90	95	97	99
3000	0	16	45	68	81	87	93	96	98

Base Flows	% at Base Flow	% Loss Persistent Quality WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	90	96	99	100	100	100	100	100
1000	0	86	94	98	100	100	100	100	100
1500	0	76	89	96	99	99	100	100	100
2000	0	62	82	94	98	99	100	100	100
2500	0	44	72	89	96	98	100	100	100
3000	0	23	59	83	94	96	100	100	100

Wilder - Chase Island 2D Fallfish spawning persistent and persistent quality habitat.

Base Flows	Base Flow WUA	Persistent WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	38893	12010	6911	3392	1713	934	328	175	50
1000	36313	13261	7865	4054	2141	1187	419	234	79
1500	32705	15155	9275	4955	2743	1584	578	334	132
2000	26130	17783	11291	6398	3841	2401	1026	615	262
2500	25377	17996	11370	6433	3851	2408	1018	607	262
3000	22452	19265	12413	7202	4456	2882	1300	797	370

Base Flows	Base Flow WUA	Persistent Quality WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	20733	2754	797	193	12	0	0	0	0
1000	19113	3702	1042	315	41	0	0	0	0
1500	17659	5374	1929	540	117	0	0	0	0
2000	12000	7604	3441	1131	407	47	0	0	0
2500	13122	7724	3490	1220	478	98	0	0	0
3000	11049	8843	4269	1657	715	181	0	0	0

Base Flows	% at Base Flow	% Loss Persistent WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	69	82	91	96	98	99	100	100
1000	0	63	78	89	94	97	99	99	100
1500	0	54	72	85	92	95	98	99	100
2000	0	32	57	76	85	91	96	98	99
2500	0	29	55	75	85	91	96	98	99
3000	0	14	45	68	80	87	94	96	98

Base Flows	% at Base Flow	% Loss Persistent Quality WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	87	96	99	100	100	100	100	100
1000	0	81	95	98	100	100	100	100	100
1500	0	70	89	97	99	100	100	100	100
2000	0	37	71	91	97	100	100	100	100
2500	0	41	73	91	96	99	100	100	100
3000	0	20	61	85	94	98	100	100	100

Wilder - Chase Island 2D Longnose Dace fry persistent and persistent quality habitat.

Base Flows	Base Flow WUA	Persistent WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	40091	4271	2424	1031	421	166	4	0	0
1000	37957	5345	3214	1372	616	276	17	0	0
1500	34729	7375	4767	2006	936	485	73	3	0
2000	31050	9552	6509	2943	1321	741	167	27	0
2500	27796	11559	8213	3865	1788	994	282	74	1
3000	23942	13140	9601	4733	2304	1311	424	147	13

Base Flows	Base Flow WUA	Persistent Quality WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	21868	252	22	0	0	0	0	0	0
1000	20841	466	78	0	0	0	0	0	0
1500	19713	1020	245	13	0	0	0	0	0
2000	17189	1566	474	60	0	0	0	0	0
2500	15604	2668	1118	133	1	0	0	0	0
3000	12956	3853	1991	294	20	0	0	0	0

Base Flows	% at Base Flow	% Loss Persistent WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	89	94	97	99	100	100	100	100
1000	0	86	92	96	98	99	100	100	100
1500	0	79	86	94	97	99	100	100	100
2000	0	69	79	91	96	98	99	100	100
2500	0	58	70	86	94	96	99	100	100
3000	0	45	60	80	90	95	98	99	100

Base Flows	% at Base Flow	% Loss Persistent Quality WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	99	100	100	100	100	100	100	100
1000	0	98	100	100	100	100	100	100	100
1500	0	95	99	100	100	100	100	100	100
2000	0	91	97	100	100	100	100	100	100
2500	0	83	93	99	100	100	100	100	100
3000	0	70	85	98	100	100	100	100	100

Wilder - Chase Island 2D Sea Lamprey spawning persistent and persistent quality habitat.

Base Flows	Base Flow WUA	Persistent WUA (m ²)							
		Peaking Flows							
		3350	4400	5600	6700	7500	8800	9550	10700
700	83417	52983	45536	36831	30175	25955	19824	16797	13403
1000	84110	55546	47952	38793	31842	27393	20904	17713	14121
1500	83989	59323	51491	41651	34246	29436	22405	18935	15031
2000	82155	62448	54448	44043	36233	31109	23644	19961	15810
2500	79845	65540	57360	46319	38102	32720	24823	20934	16568
3000	76984	68322	60152	48574	39965	34346	26049	21965	17397

Base Flows	Base Flow WUA	Persistent Quality WUA (m ²)							
		Peaking Flows							
		3350	4400	5600	6700	7500	8800	9550	10700
700	47011	13964	8238	3616	1731	980	288	118	28
1000	46410	16222	10006	4483	2172	1314	416	183	40
1500	45617	20005	13224	6312	2998	1781	557	247	57
2000	43902	23491	16444	8648	4363	2429	806	345	83
2500	40513	26775	19395	10818	5801	3294	1129	523	147
3000	37382	29715	22115	12855	7325	4436	1554	729	207

Base Flows	% at Base Flow	% Loss Persistent WUA							
		Peaking Flows							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	36	45	56	64	69	76	80	84
1000	0	34	43	54	62	67	75	79	83
1500	0	29	39	50	59	65	73	77	82
2000	0	24	34	46	56	62	71	76	81
2500	0	18	28	42	52	59	69	74	79
3000	0	11	22	37	48	55	66	71	77

Base Flows	% at Base Flow	% Loss Persistent Quality WUA							
		Peaking Flows							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	70	82	92	96	98	99	100	100
1000	0	65	78	90	95	97	99	100	100
1500	0	56	71	86	93	96	99	99	100
2000	0	46	63	80	90	94	98	99	100
2500	0	34	52	73	86	92	97	99	100
3000	0	21	41	66	80	88	96	98	99

Wilder - Chase Island 2D Smallmouth Bass fry persistent and persistent quality habitat.

Base Flows	Base Flow WUA	Persistent WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	17635	3191	2048	1351	879	651	456	332	187
1000	15716	3568	2302	1510	988	736	519	377	211
1500	13015	4200	2759	1803	1188	887	629	460	264
2000	11195	4898	3287	2169	1449	1085	771	572	340
2500	9827	5598	3874	2552	1717	1272	907	692	430
3000	8576	6259	4443	2975	2015	1489	1047	803	507

Base Flows	Base Flow WUA	Persistent Quality WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	3094	71	10	2	0	0	0	0	0
1000	2789	173	55	14	0	0	0	0	0
1500	2227	309	121	37	8	0	0	0	0
2000	1977	494	219	76	31	8	3	0	0
2500	1616	617	264	93	28	13	3	0	0
3000	1309	752	319	113	48	27	5	2	0

Base Flows	% at Base Flow	% Loss Persistent WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	82	88	92	95	96	97	98	99
1000	0	77	85	90	94	95	97	98	99
1500	0	68	79	86	91	93	95	96	98
2000	0	56	71	81	87	90	93	95	97
2500	0	43	61	74	83	87	91	93	96
3000	0	27	48	65	77	83	88	91	94

Base Flows	% at Base Flow	% Loss Persistent Quality WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	98	100	100	100	100	100	100	100
1000	0	94	98	100	100	100	100	100	100
1500	0	86	95	98	100	100	100	100	100
2000	0	75	89	96	98	100	100	100	100
2500	0	62	84	94	98	99	100	100	100
3000	0	43	76	91	96	98	100	100	100

Wilder - Chase Island 2D Smallmouth Bass spawning persistent and persistent quality habitat.

Base Flows	Base Flow WUA	Persistent WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	25213	9962	7303	4411	3118	2424	1549	1101	704
1000	23428	10375	7650	4696	3351	2626	1700	1222	783
1500	21015	11226	8331	5167	3736	2951	1936	1416	918
2000	21539	13960	10485	6528	4641	3645	2419	1808	1196
2500	17682	13439	10010	6343	4555	3620	2432	1824	1200
3000	16217	14489	10904	6955	5001	3964	2678	2031	1349

Base Flows	Base Flow WUA	Persistent Quality WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	10859	2851	1853	708	484	306	128	66	0
1000	9988	3040	1965	786	539	348	157	91	0
1500	8328	3260	2149	861	588	381	173	100	5
2000	8505	4957	3258	1317	811	527	248	154	33
2500	6604	4429	2841	1180	766	514	256	170	50
3000	6050	5226	3472	1471	924	634	320	218	71

Base Flows	% at Base Flow	% Loss Persistent WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	60	71	83	88	90	94	96	97
1000	0	56	67	80	86	89	93	95	97
1500	0	47	60	75	82	86	91	93	96
2000	0	35	51	70	78	83	89	92	94
2500	0	24	43	64	74	80	86	90	93
3000	0	11	33	57	69	76	83	87	92

Base Flows	% at Base Flow	% Loss Persistent Quality WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	74	83	93	96	97	99	99	100
1000	0	70	80	92	95	97	98	99	100
1500	0	61	74	90	93	95	98	99	100
2000	0	42	62	85	90	94	97	98	100
2500	0	33	57	82	88	92	96	97	99
3000	0	14	43	76	85	90	95	96	99

Wilder - Chase Island 2D White Sucker fry persistent and persistent quality habitat.

Base Flows	Base Flow WUA	Persistent WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	82820	26409	17936	14543	7993	5721	4270	3440	2480
1000	71338	27742	18805	15170	8481	6094	4547	3670	2654
1500	58302	29888	20364	16391	9428	6813	5049	4094	2968
2000	51663	32573	22267	17860	10482	7599	5576	4548	3318
2500	46526	35102	24145	19341	11501	8322	6064	4968	3644
3000	42243	37561	25673	20598	12362	9007	6556	5402	3984

Base Flows	Base Flow WUA	Persistent Quality WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	63082	22331	14704	12010	5937	4126	2976	2360	1600
1000	54196	23239	15236	12383	6221	4352	3138	2488	1695
1500	46658	24882	16315	13223	6877	4852	3515	2799	1927
2000	42950	27139	17884	14351	7687	5381	3842	3067	2129
2500	39524	29599	19669	15765	8617	6025	4244	3404	2368
3000	36338	32198	21185	16985	9397	6613	4682	3787	2672

Base Flows	% at Base Flow	% Loss Persistent WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	68	78	82	90	93	95	96	97
1000	0	61	74	79	88	91	94	95	96
1500	0	49	65	72	84	88	91	93	95
2000	0	37	57	65	80	85	89	91	94
2500	0	25	48	58	75	82	87	89	92
3000	0	11	39	51	71	79	84	87	91

Base Flows	% at Base Flow	% Loss Persistent Quality WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	65	77	81	91	93	95	96	97
1000	0	57	72	77	89	92	94	95	97
1500	0	47	65	72	85	90	92	94	96
2000	0	37	58	67	82	87	91	93	95
2500	0	25	50	60	78	85	89	91	94
3000	0	11	42	53	74	82	87	90	93

Wilder - Chase Island 2D White Sucker spawning persistent and persistent quality habitat.

Base Flows	Base Flow WUA	Persistent WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	5772	547	121	15	0	0	0	0	0
1000	6512	487	103	16	0	0	0	0	0
1500	4817	797	236	51	2	0	0	0	0
2000	4374	2179	823	164	13	0	0	0	0
2500	4040	2144	827	187	22	3	0	0	0
3000	4189	3186	1285	327	54	12	0	0	0

Base Flows	Base Flow WUA	Persistent Quality WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	1881	0	0	0	0	0	0	0	0
1000	2165	4	0	0	0	0	0	0	0
1500	1402	22	0	0	0	0	0	0	0
2000	1723	777	12	0	0	0	0	0	0
2500	1394	573	8	0	0	0	0	0	0
3000	1979	1413	110	0	0	0	0	0	0

Base Flows	% at Base Flow	% Loss Persistent WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	91	98	100	100	100	100	100	100
1000	0	93	98	100	100	100	100	100	100
1500	0	83	95	99	100	100	100	100	100
2000	0	50	81	96	100	100	100	100	100
2500	0	47	80	95	99	100	100	100	100
3000	0	24	69	92	99	100	100	100	100

Base Flows	% at Base Flow	% Loss Persistent Quality WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	100	100	100	100	100	100	100	100
1000	0	100	100	100	100	100	100	100	100
1500	0	98	100	100	100	100	100	100	100
2000	0	55	99	100	100	100	100	100	100
2500	0	59	99	100	100	100	100	100	100
3000	0	29	94	100	100	100	100	100	100

Wilder - Chase Island 2D Walleye fry persistent and persistent quality habitat.

Base Flows	Base Flow WUA	Persistent WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	6025	2826	2251	571	238	122	94	70	36
1000	6194	2934	2322	619	262	132	103	77	41
1500	5697	3257	2537	685	288	149	118	90	50
2000	6308	4331	3194	941	385	184	141	106	61
2500	5237	3852	2918	862	356	186	144	111	66
3000	4482	3902	2925	966	412	212	161	122	75

Base Flows	Base Flow WUA	Persistent Quality WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	2715	1657	1469	318	107	42	33	20	6
1000	2928	1728	1534	344	113	47	37	23	6
1500	2834	1873	1612	369	122	52	42	28	10
2000	3161	2469	2039	516	156	57	48	33	11
2500	2703	2186	1887	453	137	58	48	33	11
3000	2407	2206	1888	521	163	66	53	35	11

Base Flows	% at Base Flow	% Loss Persistent WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	53	63	91	96	98	98	99	99
1000	0	53	63	90	96	98	98	99	99
1500	0	43	55	88	95	97	98	98	99
2000	0	31	49	85	94	97	98	98	99
2500	0	26	44	84	93	96	97	98	99
3000	0	13	35	78	91	95	96	97	98

Base Flows	% at Base Flow	% Loss Persistent Quality WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	39	46	88	96	98	99	99	100
1000	0	41	48	88	96	98	99	99	100
1500	0	34	43	87	96	98	99	99	100
2000	0	22	35	84	95	98	98	99	100
2500	0	19	30	83	95	98	98	99	100
3000	0	8	22	78	93	97	98	99	100

Wilder - Chase Island 2D Walleye spawning persistent and persistent quality habitat.

Base Flows	Base Flow WUA	Persistent WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	78028	54947	46859	37824	30781	26019	19353	14760	7806
1000	80785	60138	51667	42221	34615	29460	22231	17270	9676
1500	78993	60681	51933	42140	34406	29230	22012	17099	9631
2000	78234	64267	54985	44720	36622	31217	23659	18518	10666
2500	76668	67454	57648	46965	38570	32993	25136	19781	11604
3000	74279	69997	59982	48929	40253	34559	26490	20973	12536

Base Flows	Base Flow WUA	Persistent Quality WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	49483	29463	24147	18671	13775	10008	4706	2533	769
1000	54148	35666	29749	23684	18040	13742	7060	4150	1462
1500	50591	34724	28710	22441	16807	12564	6417	3855	1408
2000	50475	38680	31938	25116	19093	14605	7733	4833	1889
2500	49561	42045	34614	27348	20998	16366	9097	5875	2415
3000	47893	44465	36610	28910	22311	17531	10011	6610	2811

Base Flows	% at Base Flow	% Loss Persistent WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	30	40	52	61	67	75	81	90
1000	0	26	36	48	57	64	72	79	88
1500	0	23	34	47	56	63	72	78	88
2000	0	18	30	43	53	60	70	76	86
2500	0	12	25	39	50	57	67	74	85
3000	0	6	19	34	46	53	64	72	83

Base Flows	% at Base Flow	% Loss Persistent Quality WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	40	51	62	72	80	90	95	98
1000	0	34	45	56	67	75	87	92	97
1500	0	31	43	56	67	75	87	92	97
2000	0	23	37	50	62	71	85	90	96
2500	0	15	30	45	58	67	82	88	95
3000	0	7	24	40	53	63	79	86	94

Wilder - Chase Island 2D Tessellated Darter persistent and persistent quality habitat (Spring).

Base Flows	Base Flow WUA	Persistent WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	16094	3374	1343	471	113	24	0	0	0
1000	17796	3204	1260	439	114	29	1	0	0
1500	14326	3931	1674	662	202	66	4	0	0
2000	10719	5879	2944	1321	480	186	21	5	0
2500	10262	5936	2963	1348	522	220	36	13	0
3000	9427	7436	3952	1871	756	351	80	34	3

Base Flows	Base Flow WUA	Persistent Quality WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	5822	205	0	0	0	0	0	0	0
1000	7459	210	4	0	0	0	0	0	0
1500	5489	446	8	0	0	0	0	0	0
2000	3641	1271	156	0	0	0	0	0	0
2500	3400	1369	202	5	0	0	0	0	0
3000	3409	2332	559	38	0	0	0	0	0

Base Flows	% at Base Flow	% Loss Persistent WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	79	92	97	99	100	100	100	100
1000	0	82	93	98	99	100	100	100	100
1500	0	73	88	95	99	100	100	100	100
2000	0	45	73	88	96	98	100	100	100
2500	0	42	71	87	95	98	100	100	100
3000	0	21	58	80	92	96	99	100	100

Base Flows	% at Base Flow	% Loss Persistent Quality WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	96	100	100	100	100	100	100	100
1000	0	97	100	100	100	100	100	100	100
1500	0	92	100	100	100	100	100	100	100
2000	0	65	96	100	100	100	100	100	100
2500	0	60	94	100	100	100	100	100	100
3000	0	32	84	99	100	100	100	100	100

Wilder - Chase Island 2D Tessellated Darter persistent and persistent quality habitat (Summer).

Base Flows	Base Flow WUA	Persistent WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	34833	3329	1542	573	175	39	0	0	0
1000	34016	4433	2189	834	291	88	1	0	0
1500	32078	6384	3524	1270	478	177	11	0	0
2000	29215	8524	5130	1879	695	290	34	1	0
2500	26273	10559	6719	2581	928	411	67	10	0
3000	22415	12085	7973	3212	1191	549	119	35	1

Base Flows	Base Flow WUA	Persistent Quality WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	17222	28	0	0	0	0	0	0	0
1000	16813	177	18	0	0	0	0	0	0
1500	16592	661	163	0	0	0	0	0	0
2000	15381	1402	445	19	0	0	0	0	0
2500	13803	2132	837	56	0	0	0	0	0
3000	11172	3288	1567	153	0	0	0	0	0

Base Flows	% at Base Flow	% Loss Persistent WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	90	96	98	99	100	100	100	100
1000	0	87	94	98	99	100	100	100	100
1500	0	80	89	96	99	99	100	100	100
2000	0	71	82	94	98	99	100	100	100
2500	0	60	74	90	96	98	100	100	100
3000	0	46	64	86	95	98	99	100	100

Base Flows	% at Base Flow	% Loss Persistent Quality WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	100	100	100	100	100	100	100	100
1000	0	99	100	100	100	100	100	100	100
1500	0	96	99	100	100	100	100	100	100
2000	0	91	97	100	100	100	100	100	100
2500	0	85	94	100	100	100	100	100	100
3000	0	71	86	99	100	100	100	100	100

Wilder - Chase Island 2D Tessellated Darter persistent and persistent quality habitat (Fall).

Base Flows	Base Flow WUA	Persistent WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	31215	4534	1819	605	177	48	0	0	0
1000	29431	5593	2288	744	236	75	0	0	0
1500	26544	7399	3166	1006	345	129	5	0	0
2000	22762	8908	3955	1309	479	198	22	2	0
2500	18490	10241	4789	1717	683	298	48	8	0
3000	14830	11724	5772	2198	948	458	97	28	2

Base Flows	Base Flow WUA	Persistent Quality WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	16278	297	8	0	0	0	0	0	0
1000	15456	529	29	0	0	0	0	0	0
1500	13954	1059	106	0	0	0	0	0	0
2000	11424	2063	238	2	0	0	0	0	0
2500	8000	2821	478	10	0	0	0	0	0
3000	5695	3938	973	43	0	0	0	0	0

Base Flows	% at Base Flow	% Loss Persistent WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	85	94	98	99	100	100	100	100
1000	0	81	92	97	99	100	100	100	100
1500	0	72	88	96	99	100	100	100	100
2000	0	61	83	94	98	99	100	100	100
2500	0	45	74	91	96	98	100	100	100
3000	0	21	61	85	94	97	99	100	100

Base Flows	% at Base Flow	% Loss Persistent Quality WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	98	100	100	100	100	100	100	100
1000	0	97	100	100	100	100	100	100	100
1500	0	92	99	100	100	100	100	100	100
2000	0	82	98	100	100	100	100	100	100
2500	0	65	94	100	100	100	100	100	100
3000	0	31	83	99	100	100	100	100	100

Wilder - Chase Island 2D Macroinvertebrates persistent and persistent quality habitat (Spring).

Base Flows	Base Flow WUA	Persistent WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	75615	58305	51402	44622	39069	35466	30586	28251	25073
1000	76278	58760	51664	44887	39302	35727	30858	28524	25345
1500	75209	60974	53511	46435	40621	36891	31833	29418	26120
2000	73440	63648	55958	48588	42538	38625	33311	30765	27266
2500	71519	64780	56805	49290	43129	39184	33836	31271	27737
3000	69817	66781	58610	50893	44568	40525	35015	32359	28665

Base Flows	Base Flow WUA	Persistent Quality WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	34115	17229	11841	7337	4175	2454	594	146	4
1000	29386	16666	11701	7316	4092	2414	604	165	21
1500	28156	17637	12360	7760	4393	2625	707	206	29
2000	29538	19724	13761	8804	5273	3357	1033	364	76
2500	23995	19547	13821	8877	5247	3310	1105	442	106
3000	23013	20903	14909	9757	5939	3903	1477	707	219

Base Flows	% at Base Flow	% Loss Persistent WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	23	32	41	48	53	60	63	67
1000	0	23	32	41	48	53	60	63	67
1500	0	19	29	38	46	51	58	61	65
2000	0	13	24	34	42	47	55	58	63
2500	0	9	21	31	40	45	53	56	61
3000	0	4	16	27	36	42	50	54	59

Base Flows	% at Base Flow	% Loss Persistent Quality WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	49	65	78	88	93	98	100	100
1000	0	43	60	75	86	92	98	99	100
1500	0	37	56	72	84	91	97	99	100
2000	0	33	53	70	82	89	97	99	100
2500	0	19	42	63	78	86	95	98	100
3000	0	9	35	58	74	83	94	97	99

Wilder - Chase Island 2D Macroinvertebrates persistent and persistent quality habitat (Summer).

Base Flows	Base Flow WUA	Persistent WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	56488	42643	37855	33289	29483	26805	23202	21316	18987
1000	62244	48427	43182	38042	33816	30827	26740	24566	21846
1500	69254	55919	50467	44548	39629	36088	31179	28537	25202
2000	73246	61326	56032	49544	43941	39934	34402	31438	27676
2500	75586	65621	60565	53569	47394	43067	37075	33851	29707
3000	76730	69020	64227	56794	50133	45538	39135	35697	31253

Base Flows	Base Flow WUA	Persistent Quality WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	31460	17619	10789	7080	4850	2637	786	226	63
1000	33533	20526	13220	8913	6243	3649	1352	515	141
1500	34585	23715	16457	11570	8434	5468	2432	1202	328
2000	33796	25477	18642	13470	9974	6776	3296	1766	594
2500	32441	26788	20542	15054	11225	7846	4092	2283	827
3000	31087	28103	22229	16404	12318	8728	4638	2685	1063

Base Flows	% at Base Flow	% Loss Persistent WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	25	33	41	48	53	59	62	66
1000	0	22	31	39	46	50	57	61	65
1500	0	19	27	36	43	48	55	59	64
2000	0	16	24	32	40	45	53	57	62
2500	0	13	20	29	37	43	51	55	61
3000	0	10	16	26	35	41	49	53	59

Base Flows	% at Base Flow	% Loss Persistent Quality WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	44	66	77	85	92	98	99	100
1000	0	39	61	73	81	89	96	98	100
1500	0	31	52	67	76	84	93	97	99
2000	0	25	45	60	70	80	90	95	98
2500	0	17	37	54	65	76	87	93	97
3000	0	10	28	47	60	72	85	91	97

Wilder - Chase Island 2D Macroinvertebrates persistent and persistent quality habitat (Fall).

Base Flows	Base Flow WUA	Persistent WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	70878	54277	48178	42146	37238	33741	29190	26822	23898
1000	72833	57461	51079	44641	39393	35692	30837	28303	25183
1500	75472	62423	55401	48327	42596	38589	33265	30468	27046
2000	76589	66461	58971	51324	45201	40925	35198	32186	28518
2500	76327	69572	61711	53583	47147	42671	36634	33453	29583
3000	75281	72329	64197	55635	48897	44230	37902	34568	30536

Base Flows	Base Flow WUA	Persistent Quality WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	34585	18143	13277	9406	5735	3321	1250	593	73
1000	33759	19250	14266	10212	6384	3838	1521	776	113
1500	32588	21409	16032	11611	7502	4755	1990	1089	174
2000	31155	23178	17471	12786	8384	5404	2355	1339	253
2500	29453	24544	18651	13603	9037	5940	2721	1596	366
3000	28159	26038	19866	14452	9662	6437	3032	1818	449

Base Flows	% at Base Flow	% Loss Persistent WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	23	32	41	47	52	59	62	66
1000	0	21	30	39	46	51	58	61	65
1500	0	17	27	36	44	49	56	60	64
2000	0	13	23	33	41	47	54	58	63
2500	0	9	19	30	38	44	52	56	61
3000	0	4	15	26	35	41	50	54	59

Base Flows	% at Base Flow	% Loss Persistent Quality WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	48	62	73	83	90	96	98	100
1000	0	43	58	70	81	89	95	98	100
1500	0	34	51	64	77	85	94	97	99
2000	0	26	44	59	73	83	92	96	99
2500	0	17	37	54	69	80	91	95	99
3000	0	8	29	49	66	77	89	94	98

Wilder - Chase Island 2D GHC Deep-Fast persistent habitat (Spring).

Base Flows	Base Flow WUA	Persistent WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	203323	202365	201587	201126	200389	200281	200074	200019	199947
1000	203845	202494	201578	201114	200286	200177	199937	199852	199797
1500	217452	215077	213982	213397	212514	212376	212080	211965	211893
2000	230637	228075	227060	226438	225425	225261	224970	224861	224789
2500	234376	232854	231449	230744	229674	229511	229187	229053	228975
3000	241998	241071	239527	238793	237714	237542	237236	237121	237035

Base Flows	% at Base Flow	% Loss Persistent WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	0	1	1	1	1	2	2	2
1000	0	1	1	1	2	2	2	2	2
1500	0	1	2	2	2	2	2	3	3
2000	0	1	2	2	2	2	2	3	3
2500	0	1	1	2	2	2	2	2	2
3000	0	0	1	1	2	2	2	2	2

Wilder - Chase Island 2D GHC Deep-Fast persistent habitat (Summer).

Base Flows	Base Flow WUA	Persistent WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	65641	63212	63049	63044	63040	63024	63010	62918	62906
1000	84382	81704	81430	81314	81302	81286	81237	81069	81040
1500	115656	112564	112272	112235	112189	112092	111847	111621	111587
2000	152341	148950	148620	148443	148254	147912	147643	147216	147139
2500	172650	168264	167862	167748	167431	167012	166728	166236	166128
3000	189743	184194	183746	183508	183016	182577	182280	181718	181521

Base Flows	% at Base Flow	% Loss Persistent WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	4	4	4	4	4	4	4	4
1000	0	3	3	4	4	4	4	4	4
1500	0	3	3	3	3	3	3	3	4
2000	0	2	2	3	3	3	3	3	3
2500	0	3	3	3	3	3	3	4	4
3000	0	3	3	3	4	4	4	4	4

Wilder - Chase Island 2D GHC Deep-Fast persistent habitat (Fall).

Base Flows	Base Flow WUA	Persistent WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	126850	126478	126265	126094	125810	125452	125271	125227	125134
1000	148858	148556	148366	148148	147785	147418	147228	147204	147146
1500	172013	171032	170195	169844	169370	168976	168643	168566	168522
2000	187880	187383	186748	186210	185729	185297	184953	184789	184722
2500	201520	200908	199979	199301	198771	198293	197908	197672	197519
3000	214643	213587	212184	211317	210702	210156	209759	209430	209225

Base Flows	% at Base Flow	% Loss Persistent WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	0	0	1	1	1	1	1	1
1000	0	0	0	0	1	1	1	1	1
1500	0	1	1	1	2	2	2	2	2
2000	0	0	1	1	1	1	2	2	2
2500	0	0	1	1	1	2	2	2	2
3000	0	0	1	2	2	2	2	2	3

Wilder - Chase Island 2D GHC Deep-Slow persistent habitat (Spring).

Base Flows	Base Flow WUA	Persistent WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	47277	25928	16181	10158	8099	6980	5800	5034	4069
1000	38283	23305	14429	9457	7714	6676	5598	4861	3962
1500	35225	24490	15545	10101	8230	7087	5941	5192	4206
2000	38181	28005	18314	11706	9323	7998	6580	5718	4553
2500	33960	28730	18636	11982	9432	8034	6619	5769	4632
3000	33989	30897	19840	12861	10130	8621	7078	6142	4935

Base Flows	% at Base Flow	% Loss Persistent WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	45	66	79	83	85	88	89	91
1000	0	39	62	75	80	83	85	87	90
1500	0	30	56	71	77	80	83	85	88
2000	0	27	52	69	76	79	83	85	88
2500	0	15	45	65	72	76	81	83	86
3000	0	9	42	62	70	75	79	82	85

Wilder - Chase Island 2D GHC Deep-Slow persistent habitat (Summer).

Base Flows	Base Flow WUA	Persistent WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	102840	28188	20359	16973	10138	7269	5567	4850	3855
1000	95655	29492	21312	17740	10766	7747	5941	5162	4069
1500	79780	31170	22616	18720	11611	8446	6414	5582	4423
2000	56107	32862	23877	19800	12496	9202	6964	6025	4808
2500	47059	33794	24761	20229	12797	9546	7325	6337	5051
3000	40799	34727	26387	21578	13818	10377	7878	6793	5390

Base Flows	% at Base Flow	% Loss Persistent WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	73	80	83	90	93	95	95	96
1000	0	69	78	81	89	92	94	95	96
1500	0	61	72	77	85	89	92	93	94
2000	0	41	57	65	78	84	88	89	91
2500	0	28	47	57	73	80	84	87	89
3000	0	15	35	47	66	75	81	83	87

Wilder - Chase Island 2D GHC Deep-Slow persistent habitat (Fall).

Base Flows	Base Flow WUA	Persistent WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	72910	23837	19239	13093	8807	6681	5402	4763	3887
1000	58647	24686	19946	13683	9244	7046	5670	5008	4098
1500	46815	25359	20413	14062	9595	7388	5978	5257	4322
2000	41771	27388	21869	15213	10442	8046	6432	5610	4635
2500	38986	29234	23130	16127	11086	8595	6876	5952	4865
3000	36536	31424	24992	17740	12112	9440	7524	6481	5288

Base Flows	% at Base Flow	% Loss Persistent WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	67	74	82	88	91	93	93	95
1000	0	58	66	77	84	88	90	91	93
1500	0	46	56	70	80	84	87	89	91
2000	0	34	48	64	75	81	85	87	89
2500	0	25	41	59	72	78	82	85	88
3000	0	14	32	51	67	74	79	82	86

Wilder - Chase Island 2D GHC Shallow-Fast persistent habitat (Spring).

Base Flows	Base Flow WUA	Persistent WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	27582	6318	1329	102	0	0	0	0	0
1000	32912	6372	1419	133	0	0	0	0	0
1500	27404	7223	1951	320	23	8	0	0	0
2000	19204	9881	3973	1816	191	8	0	0	0
2500	19769	10235	4187	1998	280	15	0	0	0
3000	16178	12267	5772	3226	706	147	0	0	0

Base Flows	% at Base Flow	% Loss Persistent WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	77	95	100	100	100	100	100	100
1000	0	81	96	100	100	100	100	100	100
1500	0	74	93	99	100	100	100	100	100
2000	0	49	79	91	99	100	100	100	100
2500	0	48	79	90	99	100	100	100	100
3000	0	24	64	80	96	99	100	100	100

Wilder - Chase Island 2D GHC Shallow-Fast persistent habitat (Summer).

Base Flows	Base Flow WUA	Persistent WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	45662	8697	5996	1341	0	0	0	0	0
1000	46351	11743	8547	2501	14	0	0	0	0
1500	46470	16140	12230	4122	165	0	0	0	0
2000	43993	19090	14729	5365	513	23	0	0	0
2500	41271	21281	16630	6393	855	116	0	0	0
3000	37815	23306	18506	7554	1265	244	0	0	0

Base Flows	% at Base Flow	% Loss Persistent WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	81	87	97	100	100	100	100	100
1000	0	75	82	95	100	100	100	100	100
1500	0	65	74	91	100	100	100	100	100
2000	0	57	67	88	99	100	100	100	100
2500	0	48	60	85	98	100	100	100	100
3000	0	38	51	80	97	99	100	100	100

Wilder - Chase Island 2D GHC Shallow-Fast persistent habitat (Falll).

Base Flows	Base Flow WUA	Persistent WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	45696	13957	6633	439	0	0	0	0	0
1000	44194	15454	7485	748	23	0	0	0	0
1500	41501	17486	8654	1126	78	0	0	0	0
2000	38046	19544	9923	1620	162	0	0	0	0
2500	33512	21673	11254	2204	339	8	0	0	0
3000	28242	23573	12417	2912	736	84	9	0	0

Base Flows	% at Base Flow	% Loss Persistent WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	69	85	99	100	100	100	100	100
1000	0	65	83	98	100	100	100	100	100
1500	0	58	79	97	100	100	100	100	100
2000	0	49	74	96	100	100	100	100	100
2500	0	35	66	93	99	100	100	100	100
3000	0	17	56	90	97	100	100	100	100

Wilder - Chase Island 2D GHC Shallow-Slow persistent habitat (Spring).

Base Flows	Base Flow WUA	Persistent WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	22750	8965	4232	1135	0	0	0	0	0
1000	24123	7675	3427	1218	3	0	0	0	0
1500	22553	9764	4978	1909	280	0	0	0	0
2000	20042	13738	7896	4168	1384	184	0	0	0
2500	20259	14043	8162	4431	1760	625	0	0	0
3000	18927	16406	10015	5933	2884	1242	3	0	0

Base Flows	% at Base Flow	% Loss Persistent WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	61	81	95	100	100	100	100	100
1000	0	68	86	95	100	100	100	100	100
1500	0	57	78	92	99	100	100	100	100
2000	0	31	61	79	93	99	100	100	100
2500	0	31	60	78	91	97	100	100	100
3000	0	13	47	69	85	93	100	100	100

Wilder - Chase Island 2D GHC Shallow-Slow persistent habitat (Summer).

Base Flows	Base Flow WUA	Persistent WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	52500	5031	2887	752	16	0	0	0	0
1000	48167	6011	3756	1310	43	0	0	0	0
1500	41802	7957	5434	2544	523	8	0	0	0
2000	37334	11204	8222	3602	1266	143	0	0	0
2500	32211	13865	10655	4890	2062	696	0	0	0
3000	27812	16530	13136	6901	2933	1449	8	0	0

Base Flows	% at Base Flow	% Loss Persistent WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	90	95	99	100	100	100	100	100
1000	0	88	92	97	100	100	100	100	100
1500	0	81	87	94	99	100	100	100	100
2000	0	70	78	90	97	100	100	100	100
2500	0	57	67	85	94	98	100	100	100
3000	0	41	53	75	89	95	100	100	100

Wilder - Chase Island 2D GHC Shallow-Slow persistent habitat (Fall).

Base Flows	Base Flow WUA	Persistent WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	40557	6921	3484	1011	7	0	0	0	0
1000	37736	8916	4140	1515	26	0	0	0	0
1500	32619	11464	5863	2337	470	8	0	0	0
2000	28260	13961	7920	3237	1220	107	0	0	0
2500	24672	16293	9964	4449	1886	623	0	0	0
3000	22603	19434	12328	6147	2660	1224	0	0	0

Base Flows	% at Base Flow	% Loss Persistent WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	83	91	98	100	100	100	100	100
1000	0	76	89	96	100	100	100	100	100
1500	0	65	82	93	99	100	100	100	100
2000	0	51	72	89	96	100	100	100	100
2500	0	34	60	82	92	97	100	100	100
3000	0	14	45	73	88	95	100	100	100

Wilder - Chase Island 2D DWM persistent and persistent quality habitat (Spring).

Base Flows	Base Flow WUA	Persistent WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	69830	23640	17687	11813	8596	7153	5761	5050	4134
1000	58299	24252	18189	12292	8923	7267	5840	5102	4206
1500	51871	25541	19209	12984	9464	7738	6225	5455	4496
2000	49967	26461	20097	13591	10010	8343	6696	5836	4795
2500	39107	28046	20988	14374	10705	8802	7054	6163	5087
3000	34053	29035	21602	14872	11078	9100	7318	6409	5282

Base Flows	Base Flow WUA	Persistent Quality WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	49431	13402	9386	5095	3493	2788	2097	1843	1411
1000	39928	13885	9978	5634	3820	2906	2172	1889	1503
1500	33462	15119	10909	6199	4241	3258	2478	2148	1714
2000	30680	15638	11423	6474	4412	3477	2604	2196	1678
2500	23124	16609	11694	6921	4916	3832	2924	2509	1994
3000	20659	17323	12220	7370	5249	4072	3124	2692	2118

Base Flows	% at Base Flow	% Loss Persistent WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	66	75	83	88	90	92	93	94
1000	0	58	69	79	85	88	90	91	93
1500	0	51	63	75	82	85	88	89	91
2000	0	47	60	73	80	83	87	88	90
2500	0	28	46	63	73	77	82	84	87
3000	0	15	37	56	67	73	79	81	84

Base Flows	% at Base Flow	% Loss Persistent Quality WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	73	81	90	93	94	96	96	97
1000	0	65	75	86	90	93	95	95	96
1500	0	55	67	81	87	90	93	94	95
2000	0	49	63	79	86	89	92	93	95
2500	0	28	49	70	79	83	87	89	91
3000	0	16	41	64	75	80	85	87	90

Wilder - Chase Island 2D DWM persistent and persistent quality habitat (Summer).

Base Flows	Base Flow WUA	Persistent WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	76935	43277	23690	12149	8590	6736	4604	3624	2893
1000	79490	47279	26669	14582	10377	8026	5395	4258	3429
1500	78037	50508	29168	16415	11878	9293	6363	5026	4056
2000	74088	53073	31345	18119	13230	10406	7217	5745	4644
2500	70719	54884	33209	19536	14318	11317	7803	6239	5047
3000	65616	55313	35809	21441	15914	12687	8562	6898	5601

Base Flows	Base Flow WUA	Persistent Quality WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	53325	26390	8756	3914	2705	2012	1189	770	648
1000	56369	29486	11416	5910	4103	2907	1709	1195	1027
1500	54929	31598	13001	7043	4961	3603	2205	1560	1296
2000	51733	33723	14427	8107	5799	4263	2666	1928	1524
2500	48621	35688	15351	8892	6351	4680	2971	2157	1634
3000	45197	36929	17807	10391	7563	5742	3462	2593	1986

Base Flows	% at Base Flow	% Loss Persistent WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	44	69	84	89	91	94	95	96
1000	0	41	66	82	87	90	93	95	96
1500	0	35	63	79	85	88	92	94	95
2000	0	28	58	76	82	86	90	92	94
2500	0	22	53	72	80	84	89	91	93
3000	0	16	45	67	76	81	87	89	91

Base Flows	% at Base Flow	% Loss Persistent Quality WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	51	84	93	95	96	98	99	99
1000	0	48	80	90	93	95	97	98	98
1500	0	42	76	87	91	93	96	97	98
2000	0	35	72	84	89	92	95	96	97
2500	0	27	68	82	87	90	94	96	97
3000	0	18	61	77	83	87	92	94	96

Wilder - Chase Island 2D DWM persistent and persistent quality habitat (Fall).

Base Flows	Base Flow WUA	Persistent WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	76880	34302	21030	14775	10326	7744	5737	4553	3691
1000	74031	35418	21837	15362	10958	8305	6196	4910	3933
1500	72036	38484	24199	17280	12323	9293	6935	5526	4476
2000	65772	40323	25537	18395	13143	9864	7448	5981	4823
2500	59290	42468	27290	19923	14283	10717	8085	6518	5260
3000	52896	43746	28366	20956	15133	11379	8639	7017	5670

Base Flows	Base Flow WUA	Persistent Quality WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	53180	17228	9870	7034	4188	2799	1947	1474	999
1000	50896	17616	10205	7265	4691	3262	2344	1685	1130
1500	50617	20451	12462	9141	5735	3917	2746	1919	1337
2000	45503	21916	13172	9658	6110	4225	3089	2196	1519
2500	40568	23846	14732	10979	6948	4770	3536	2552	1799
3000	34399	25172	15641	11852	7673	5293	3951	2929	2071

Base Flows	% at Base Flow	% Loss Persistent WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	55	73	81	87	90	93	94	95
1000	0	52	71	79	85	89	92	93	95
1500	0	47	66	76	83	87	90	92	94
2000	0	39	61	72	80	85	89	91	93
2500	0	28	54	66	76	82	86	89	91
3000	0	17	46	60	71	78	84	87	89

Base Flows	% at Base Flow	% Loss Persistent Quality WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	68	81	87	92	95	96	97	98
1000	0	65	80	86	91	94	95	97	98
1500	0	60	75	82	89	92	95	96	97
2000	0	52	71	79	87	91	93	95	97
2500	0	41	64	73	83	88	91	94	96
3000	0	27	55	66	78	85	89	91	94

Wilder - Chase Island 2D Co-occurring mussels persistent and persistent quality habitat (Spring).

Base Flows	Base Flow WUA	Persistent WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	58557	22588	17537	12385	9323	7799	6310	5489	4428
1000	48665	22595	17422	12369	9305	7677	6223	5398	4350
1500	43449	23716	18371	13061	9841	8113	6579	5733	4607
2000	42124	25101	19607	13974	10603	8864	7149	6205	5000
2500	34442	26334	20431	14638	11100	9158	7339	6362	5135
3000	31292	27336	21128	15131	11466	9459	7580	6558	5285

Base Flows	Base Flow WUA	Persistent Quality WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	28451	9415	7030	4442	3311	2713	2118	1739	1399
1000	21702	9038	6611	4277	3217	2633	2073	1703	1390
1500	18739	10137	7473	4758	3499	2810	2225	1860	1479
2000	19690	11288	8308	5338	4012	3249	2507	2033	1613
2500	16284	12037	8763	5566	4090	3248	2505	2037	1623
3000	14976	12674	9165	5899	4301	3410	2602	2113	1686

Base Flows	% at Base Flow	% Loss Persistent WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	61	70	79	84	87	89	91	92
1000	0	54	64	75	81	84	87	89	91
1500	0	45	58	70	77	81	85	87	89
2000	0	40	53	67	75	79	83	85	88
2500	0	24	41	58	68	73	79	82	85
3000	0	13	32	52	63	70	76	79	83

Base Flows	% at Base Flow	% Loss Persistent Quality WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	67	75	84	88	90	93	94	95
1000	0	58	70	80	85	88	90	92	94
1500	0	46	60	75	81	85	88	90	92
2000	0	43	58	73	80	83	87	90	92
2500	0	26	46	66	75	80	85	87	90
3000	0	15	39	61	71	77	83	86	89

Wilder - Chase Island 2D Co-occurring mussels persistent and persistent quality habitat (Summer).

Base Flows	Base Flow WUA	Persistent WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	73539	38554	22263	13441	10030	7896	5779	4775	3832
1000	73295	41122	24322	15191	11408	8972	6561	5457	4432
1500	69877	43597	26367	16766	12622	9988	7296	6058	4887
2000	65139	45625	28227	18280	13872	11052	8068	6708	5406
2500	61101	47066	30036	19706	15062	12059	8705	7245	5824
3000	55259	47144	31789	21073	16176	12989	9240	7709	6216

Base Flows	Base Flow WUA	Persistent Quality WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	44005	13008	5444	3160	2285	1824	1407	1198	968
1000	42685	13911	6453	3953	2821	2275	1780	1511	1268
1500	38524	15470	7760	4889	3536	2838	2179	1832	1474
2000	34650	17017	8895	5775	4120	3362	2588	2168	1686
2500	30984	18435	9921	6477	4605	3701	2798	2346	1769
3000	25318	19670	11350	7419	5288	4172	3017	2542	1922

Base Flows	% at Base Flow	% Loss Persistent WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	48	70	82	86	89	92	94	95
1000	0	44	67	79	84	88	91	93	94
1500	0	38	62	76	82	86	90	91	93
2000	0	30	57	72	79	83	88	90	92
2500	0	23	51	68	75	80	86	88	90
3000	0	15	42	62	71	76	83	86	89

Base Flows	% at Base Flow	% Loss Persistent Quality WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	70	88	93	95	96	97	97	98
1000	0	67	85	91	93	95	96	96	97
1500	0	60	80	87	91	93	94	95	96
2000	0	51	74	83	88	90	93	94	95
2500	0	40	68	79	85	88	91	92	94
3000	0	22	55	71	79	84	88	90	92

Wilder - Chase Island 2D Co-occurring mussels persistent and persistent quality habitat (Fall).

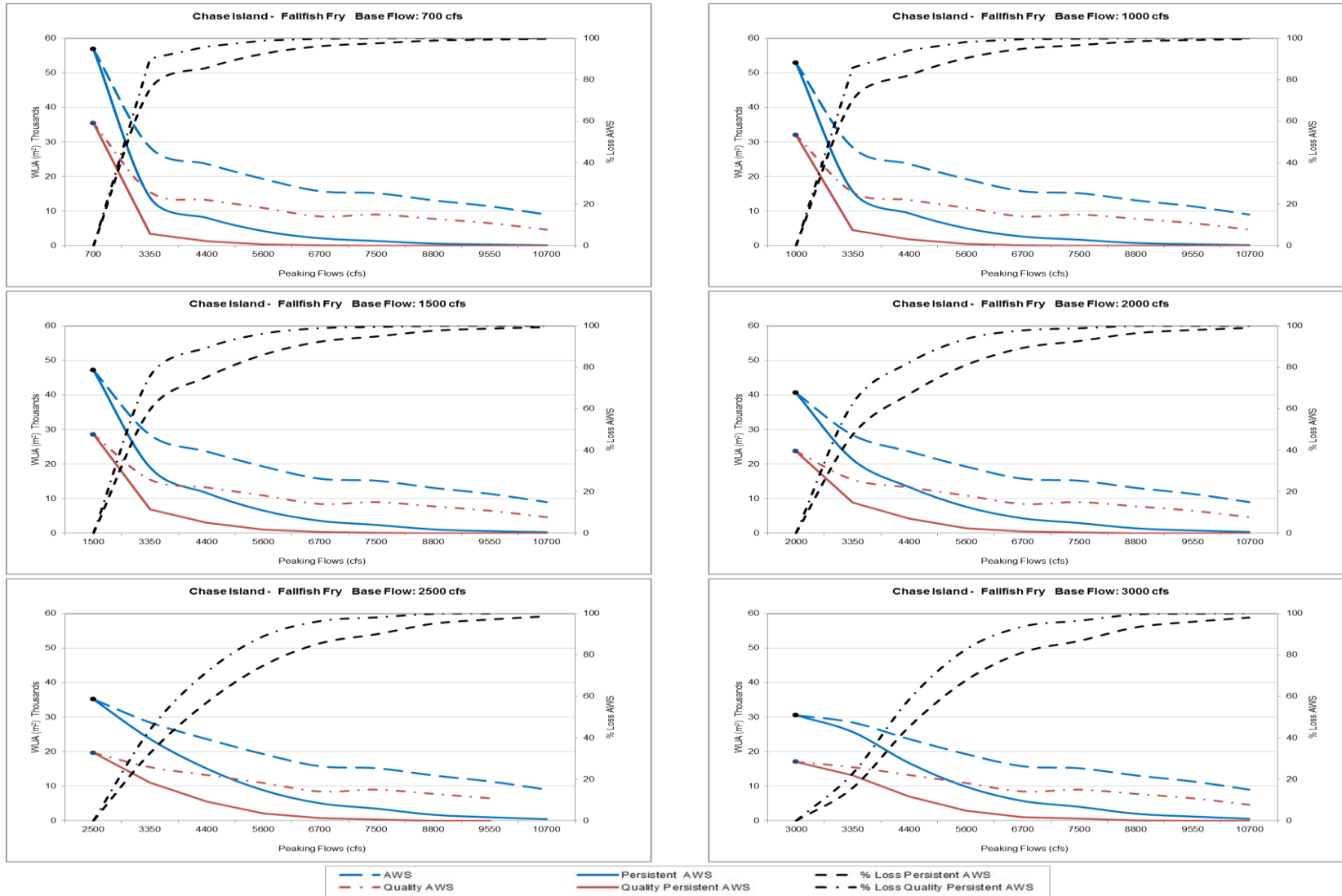
Base Flows	Base Flow WUA	Persistent WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	68418	30380	20475	14715	10662	8453	6515	5296	4328
1000	65667	31647	21525	15556	11347	9015	6924	5628	4591
1500	61702	33706	23091	16814	12387	9827	7519	6130	5007
2000	55760	35157	24331	17930	13235	10421	7967	6527	5343
2500	49821	36776	25704	19104	14138	11079	8448	6939	5678
3000	44731	38125	26934	20164	14966	11809	9011	7408	6053

Base Flows	Base Flow WUA	Persistent Quality WUA (m ²)							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	37195	10172	6770	4360	3034	2465	1901	1570	1266
1000	34720	10988	7513	4878	3431	2796	2150	1723	1391
1500	31685	12054	8087	5232	3744	3063	2356	1845	1452
2000	26320	13456	9243	6111	4284	3405	2612	2061	1613
2500	22571	14865	10396	7047	4858	3736	2808	2221	1727
3000	19387	16280	11402	7994	5522	4240	3108	2471	1899

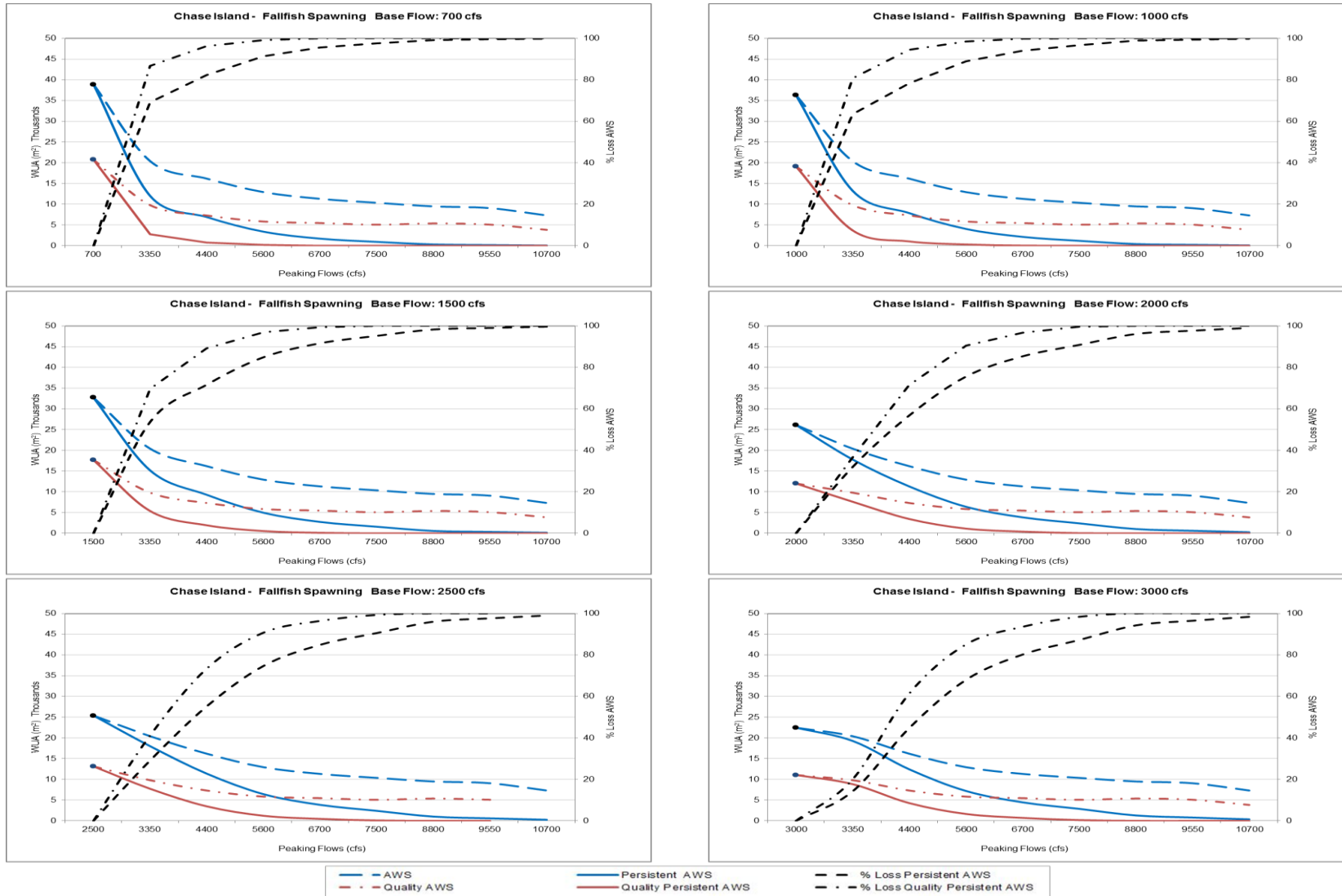
Base Flows	% at Base Flow	% Loss Persistent WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	56	70	78	84	88	90	92	94
1000	0	52	67	76	83	86	89	91	93
1500	0	45	63	73	80	84	88	90	92
2000	0	37	56	68	76	81	86	88	90
2500	0	26	48	62	72	78	83	86	89
3000	0	15	40	55	67	74	80	83	86

Base Flows	% at Base Flow	% Loss Persistent Quality WUA							
		Peaking							
		3350	4400	5600	6700	7500	8800	9550	10700
700	0	73	82	88	92	93	95	96	97
1000	0	68	78	86	90	92	94	95	96
1500	0	62	74	83	88	90	93	94	95
2000	0	49	65	77	84	87	90	92	94
2500	0	34	54	69	78	83	88	90	92
3000	0	16	41	59	72	78	84	87	90

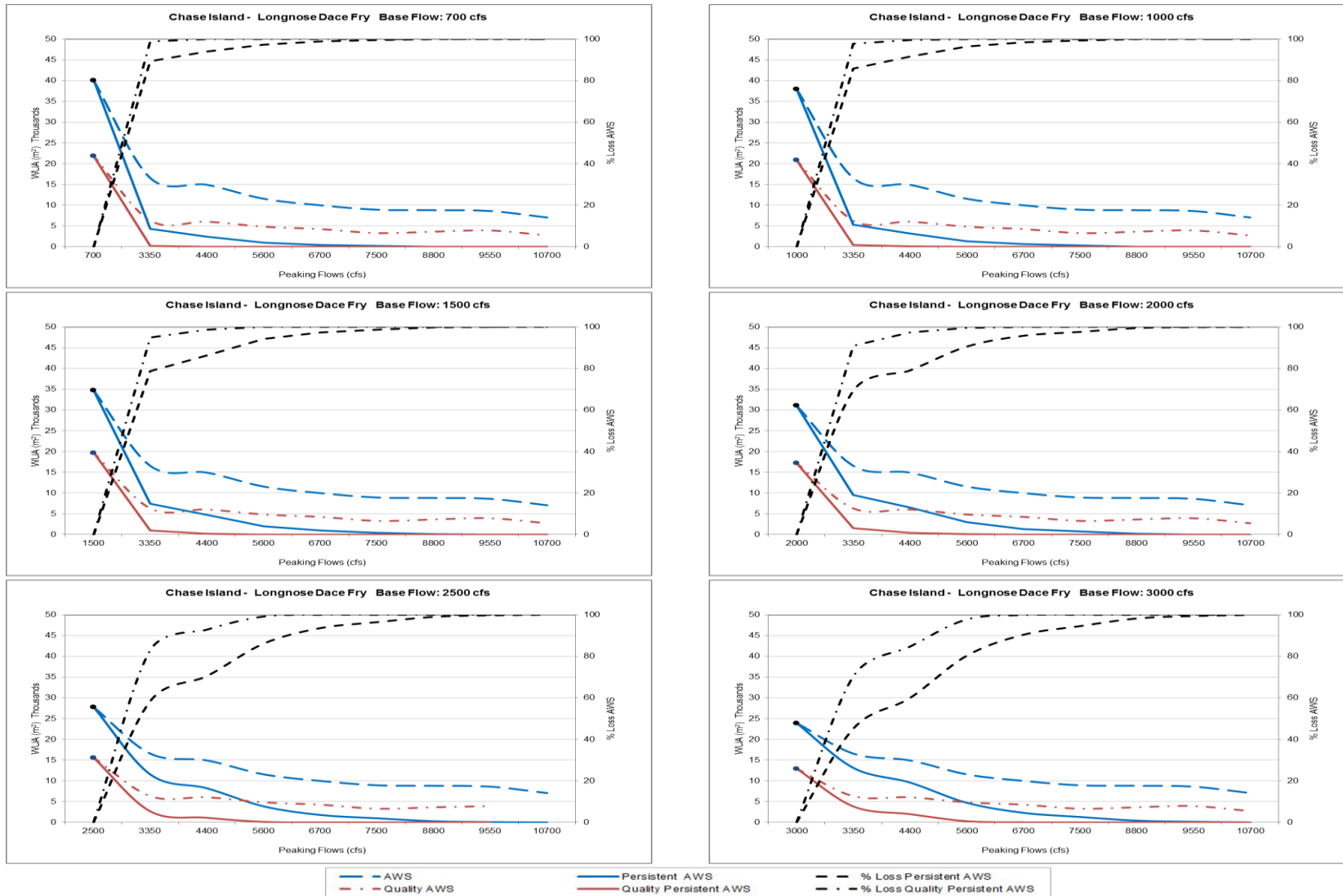
Wilder - Chase Island 2D Fallfish fry persistent and persistent quality habitat.



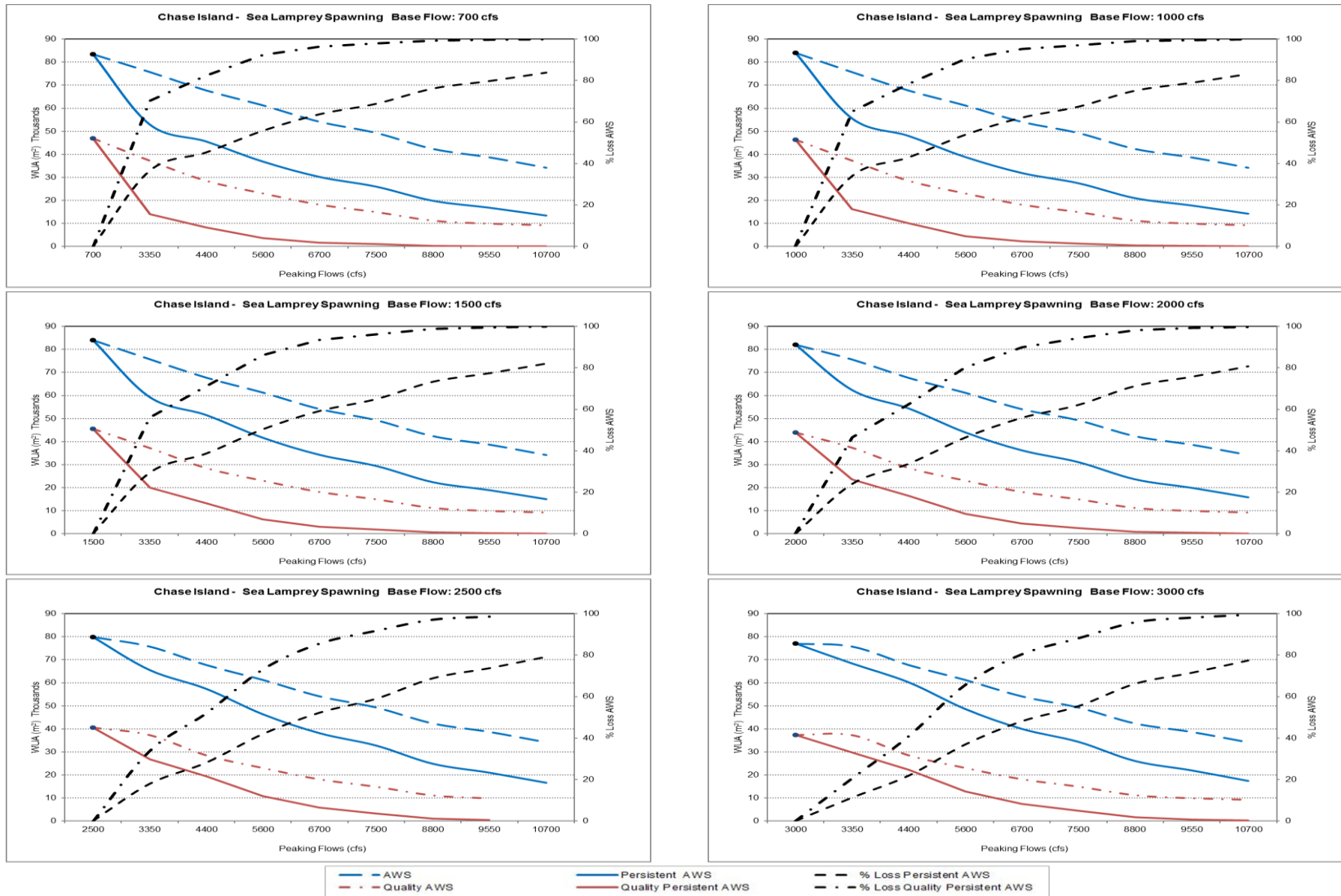
Wilder - Chase Island 2D Fallfish spawning persistent and persistent quality habitat.



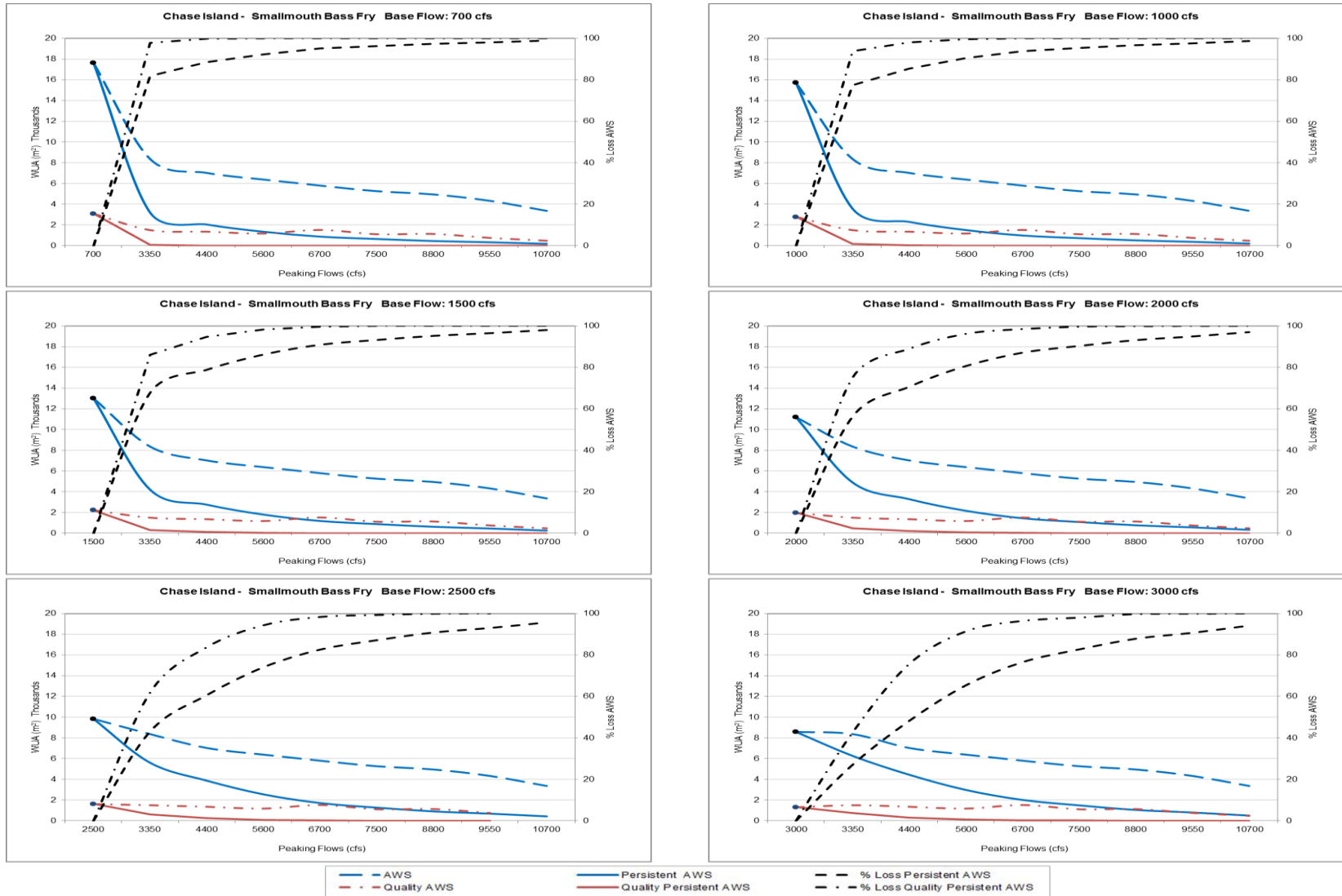
Wilder - Chase Island 2D Longnose Dace fry persistent and persistent quality habitat.



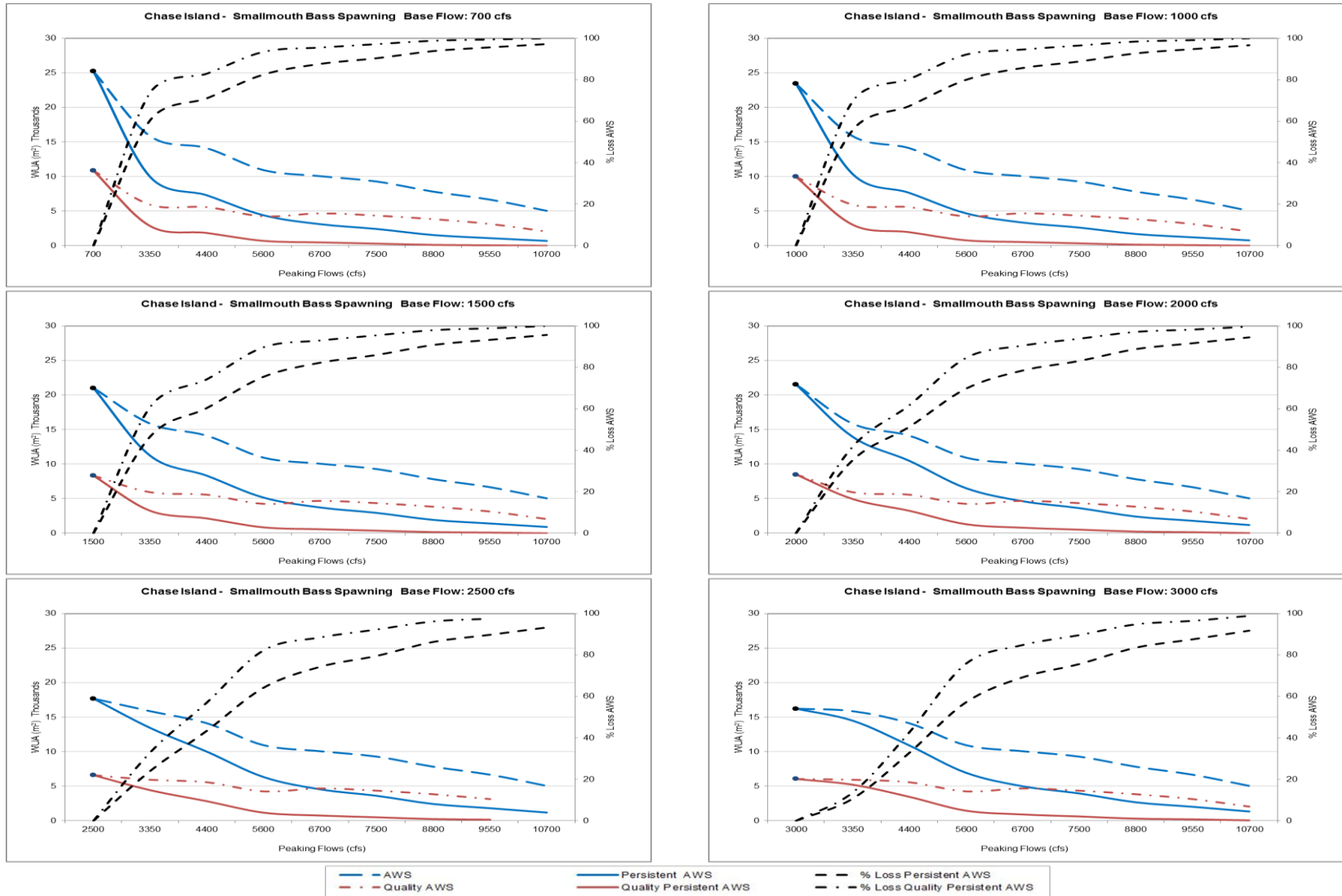
Wilder - Chase Island 2D Sea Lamprey spawning persistent and persistent quality habitat.



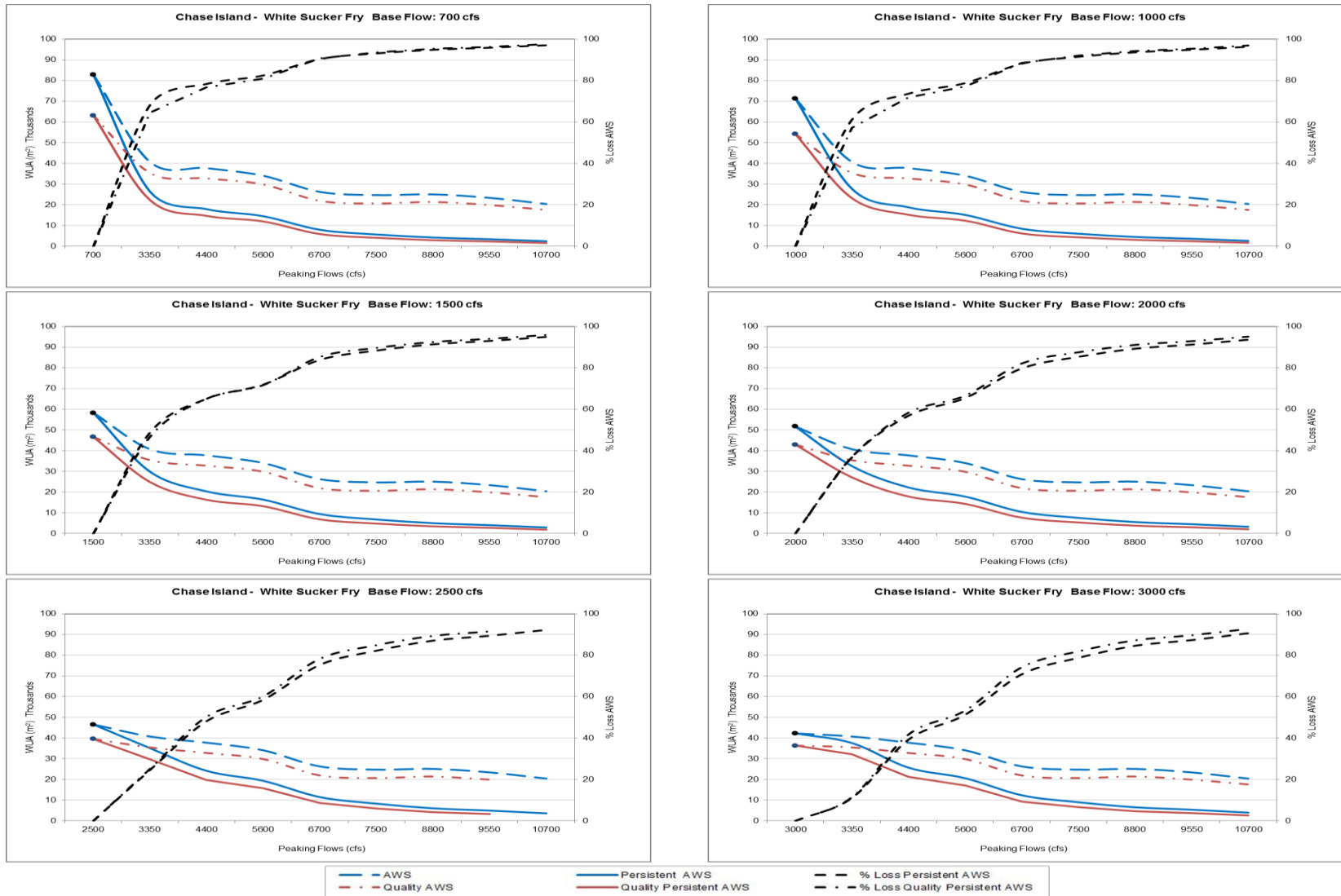
Wilder - Chase Island 2D Smallmouth Bass fry persistent and persistent quality habitat.



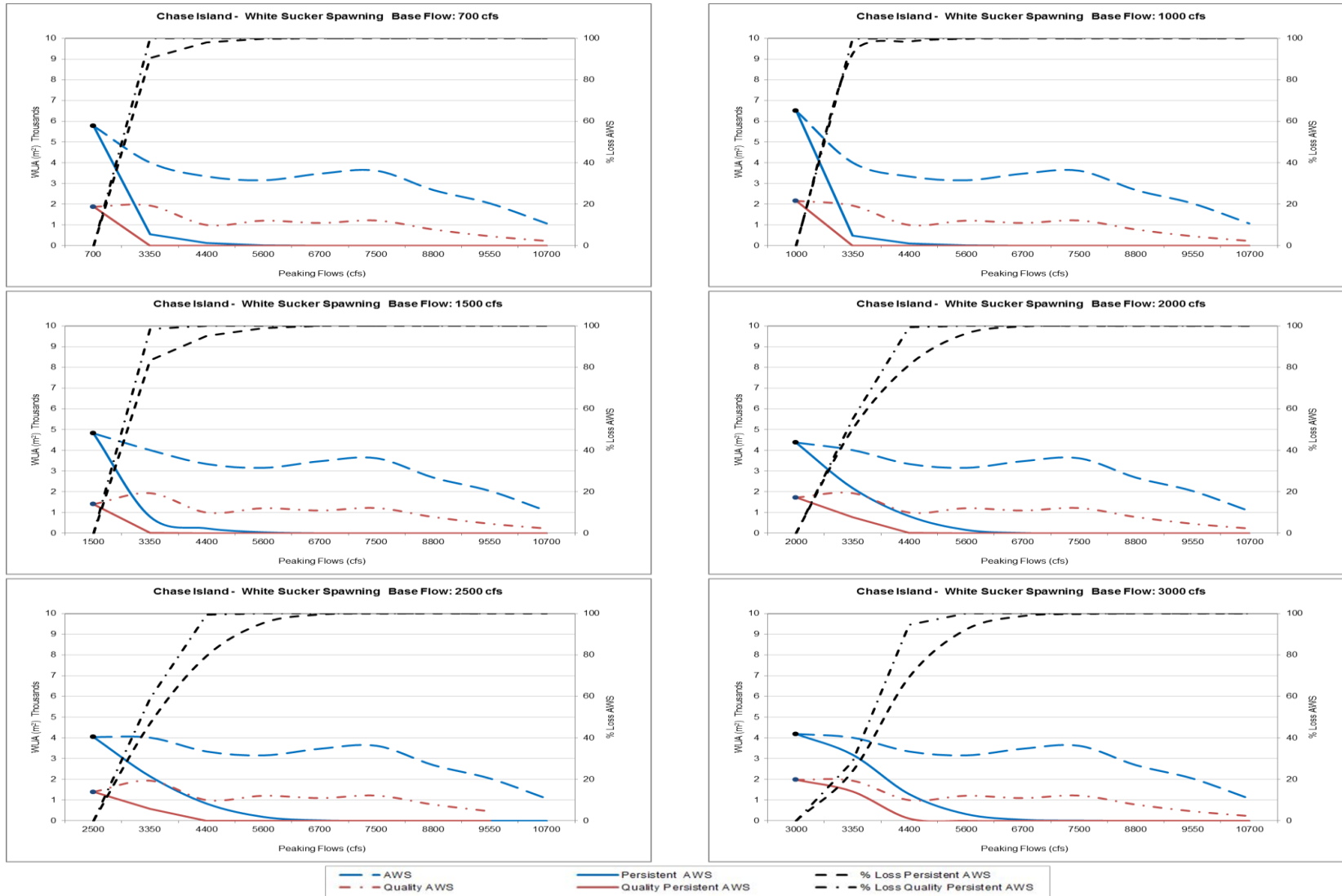
Wilder - Chase Island 2D Smallmouth Bass spawning persistent and persistent quality habitat.



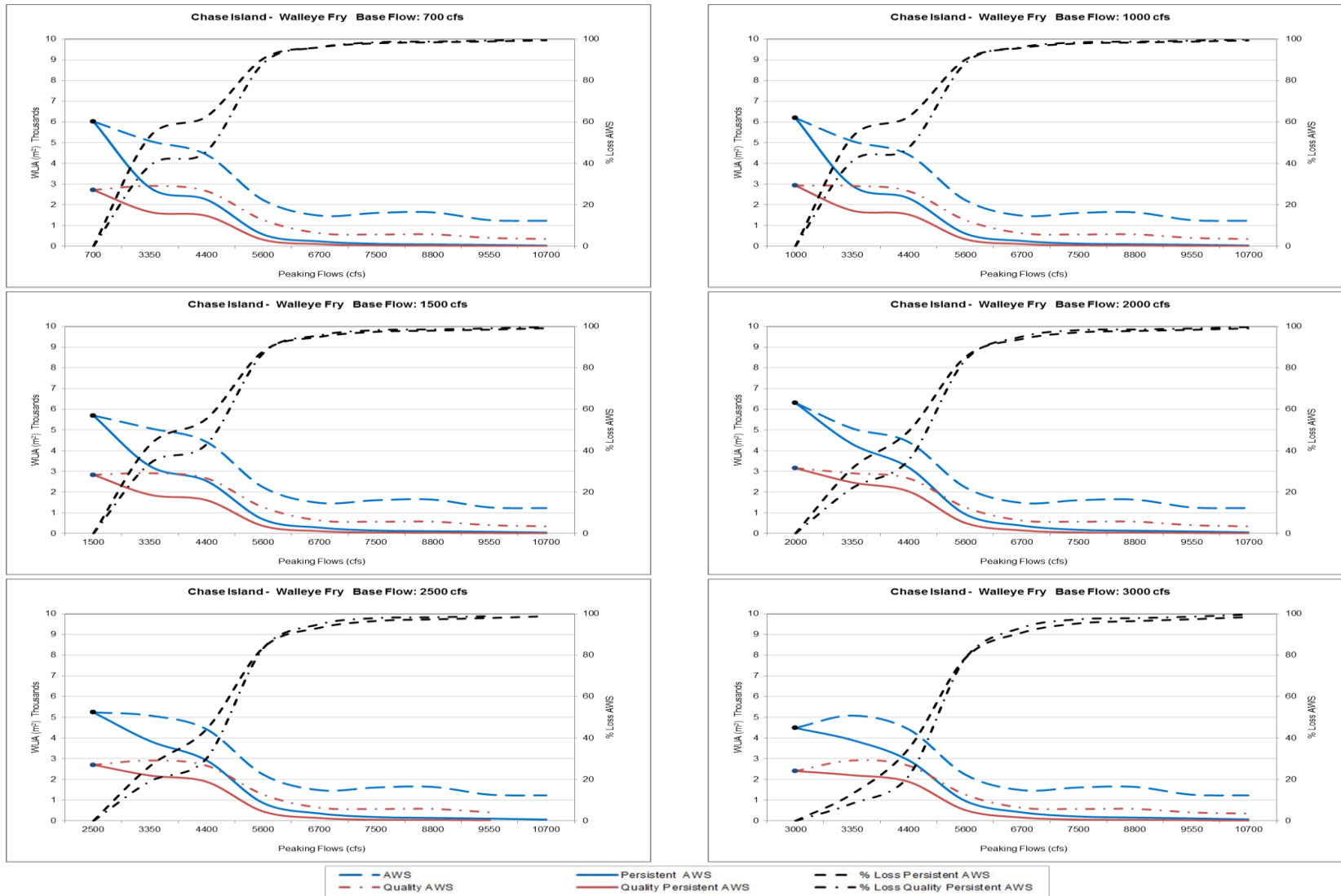
Wilder - Chase Island 2D White Sucker fry persistent and persistent quality habitat.



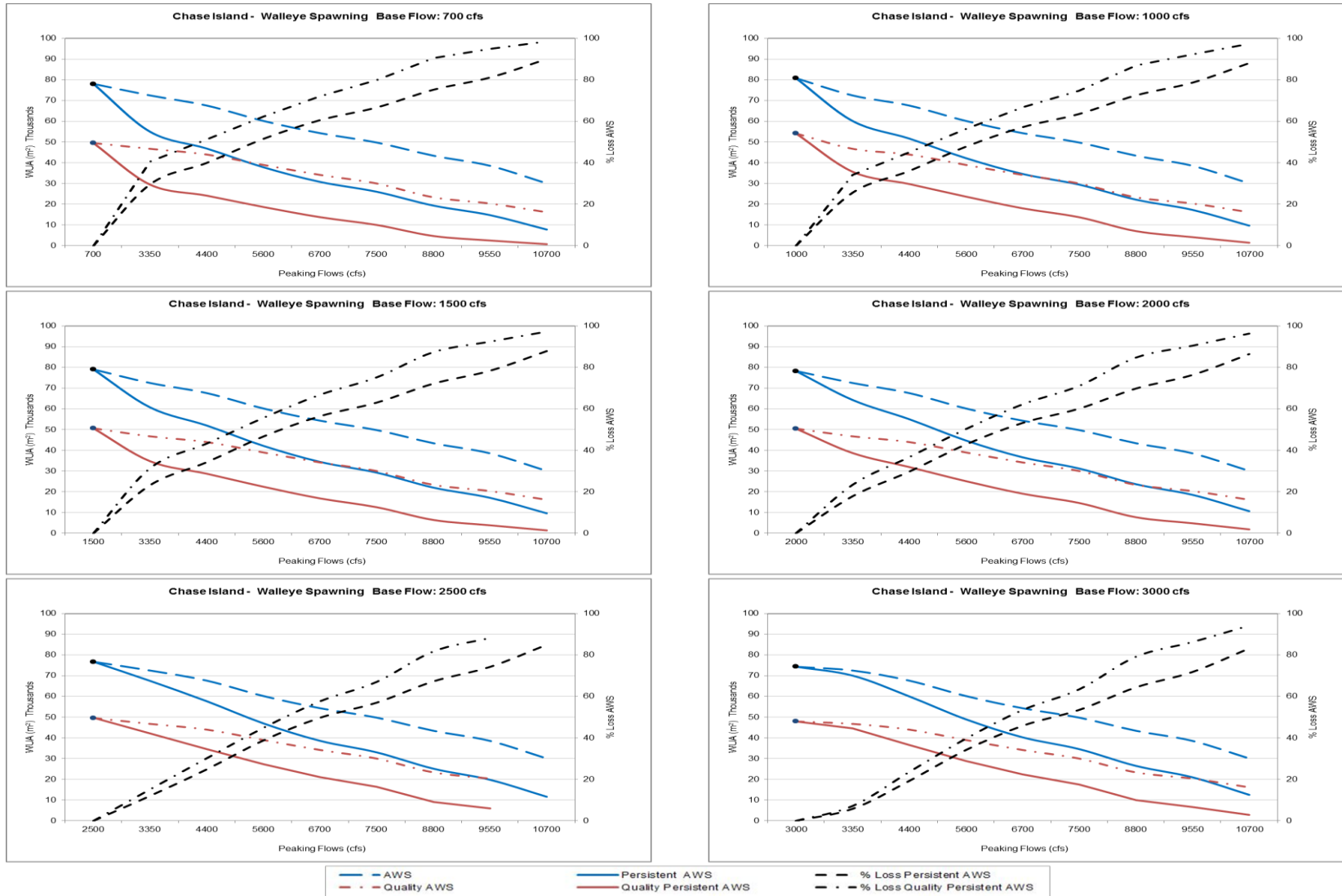
Wilder - Chase Island 2D White Sucker spawning persistent and persistent quality habitat.



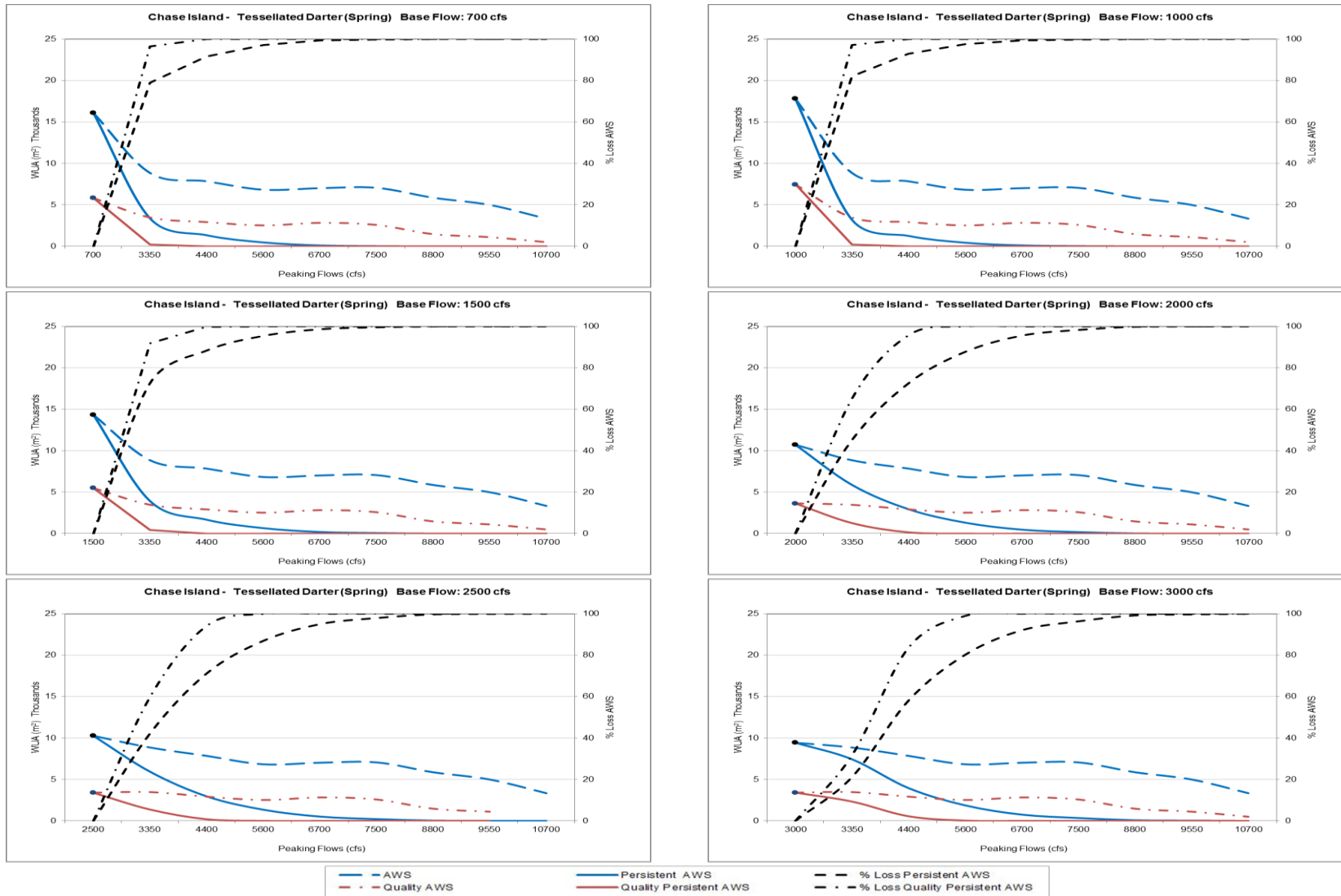
Wilder - Chase Island 2D Walleye fry persistent and persistent quality habitat.



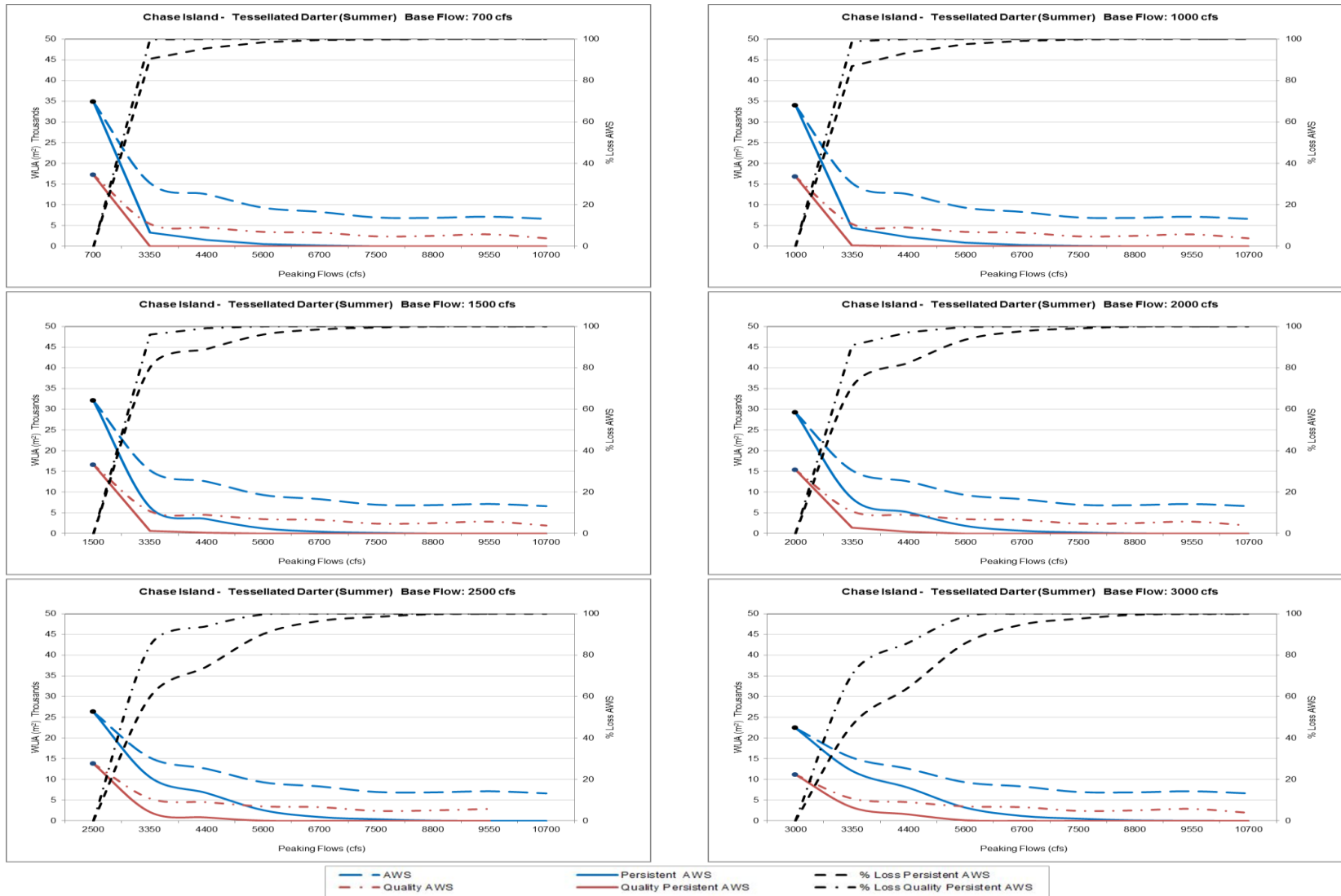
Wilder - Chase Island 2D Walleye spawning persistent and persistent quality habitat.



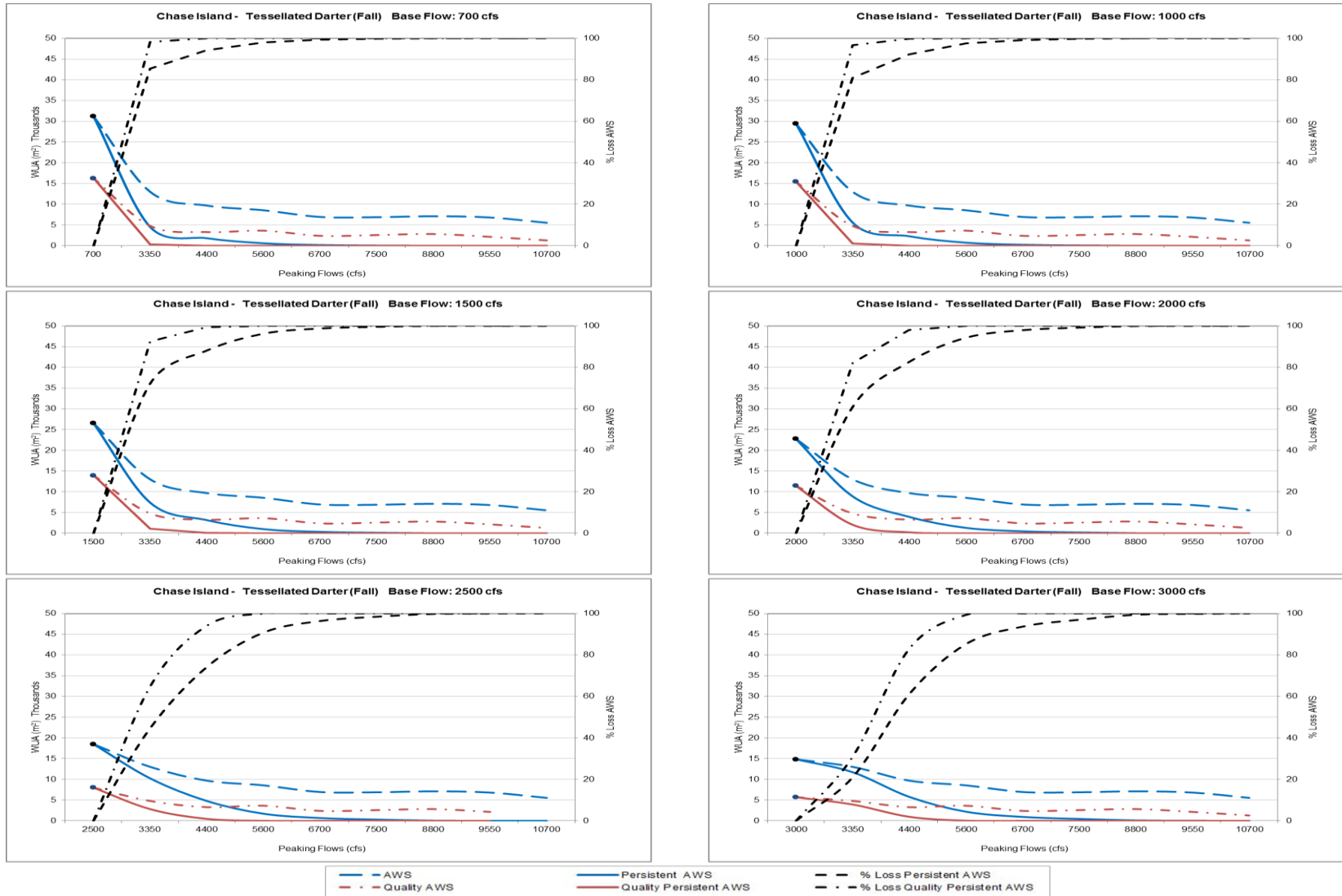
Wilder - Chase Island 2D Tessellated Darter persistent and persistent quality habitat (Spring).



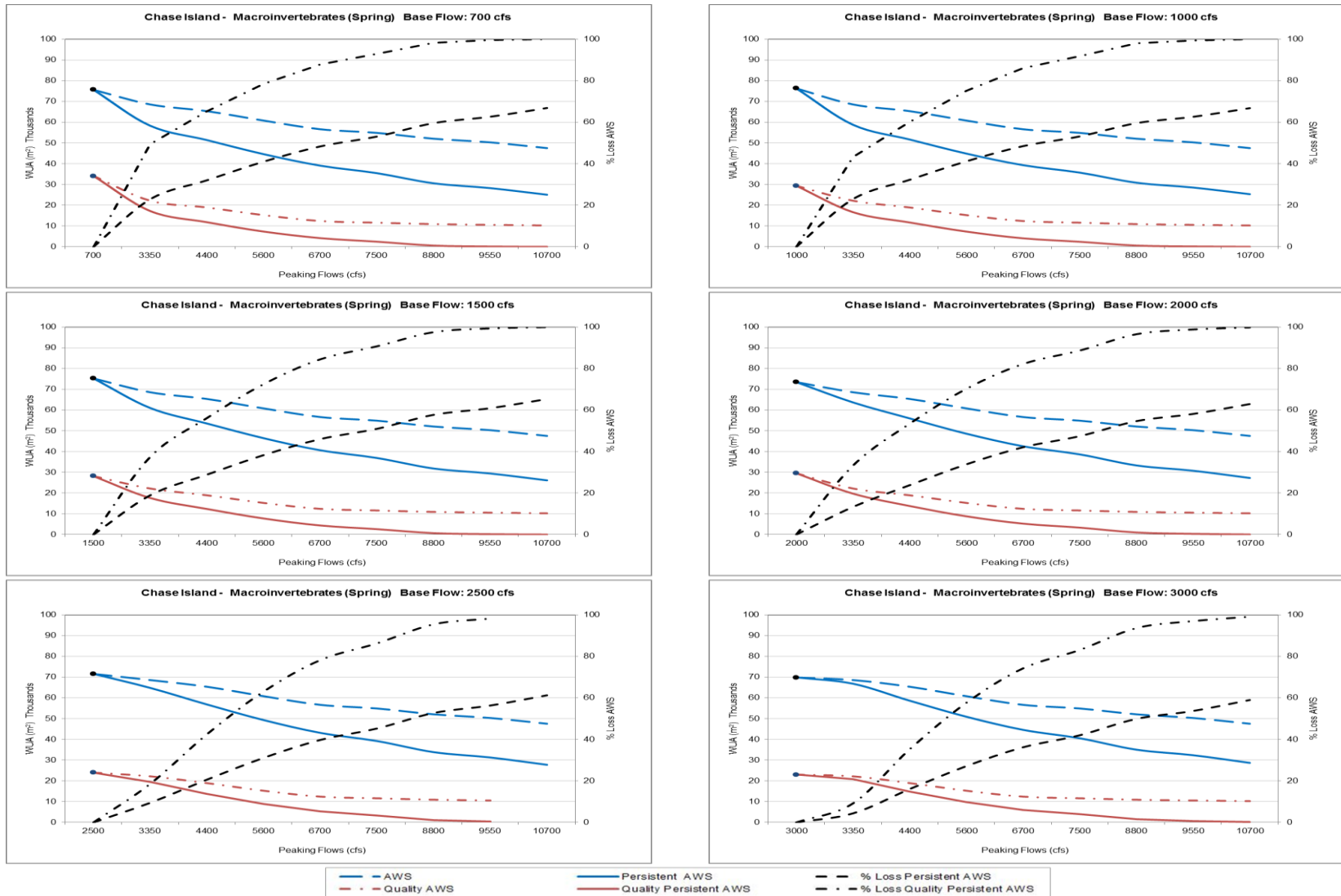
Wilder - Chase Island 2D Tessellated Darter persistent and persistent quality habitat (Summer).



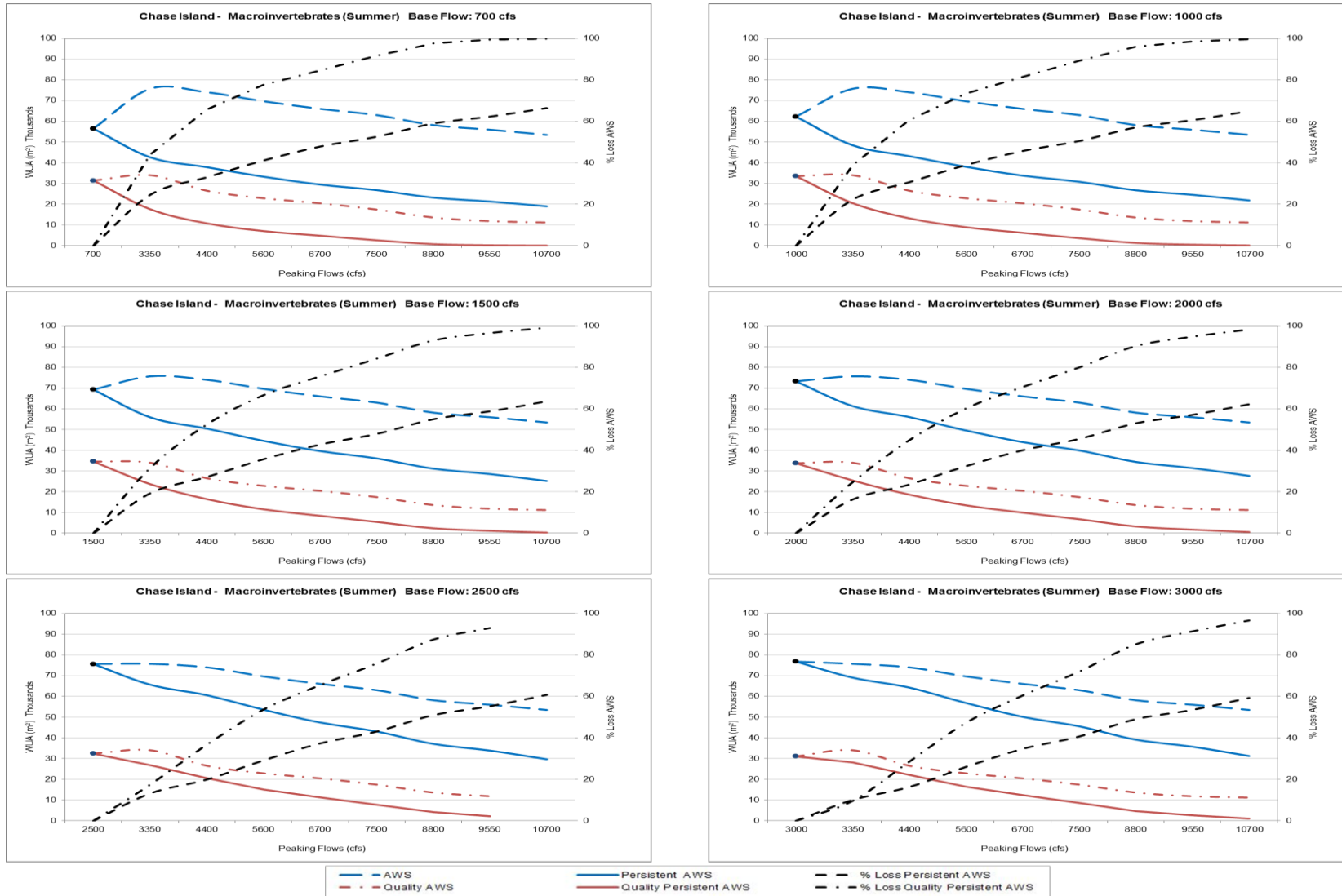
Wilder - Chase Island 2D Tessellated Darter persistent and persistent quality habitat (Fall).



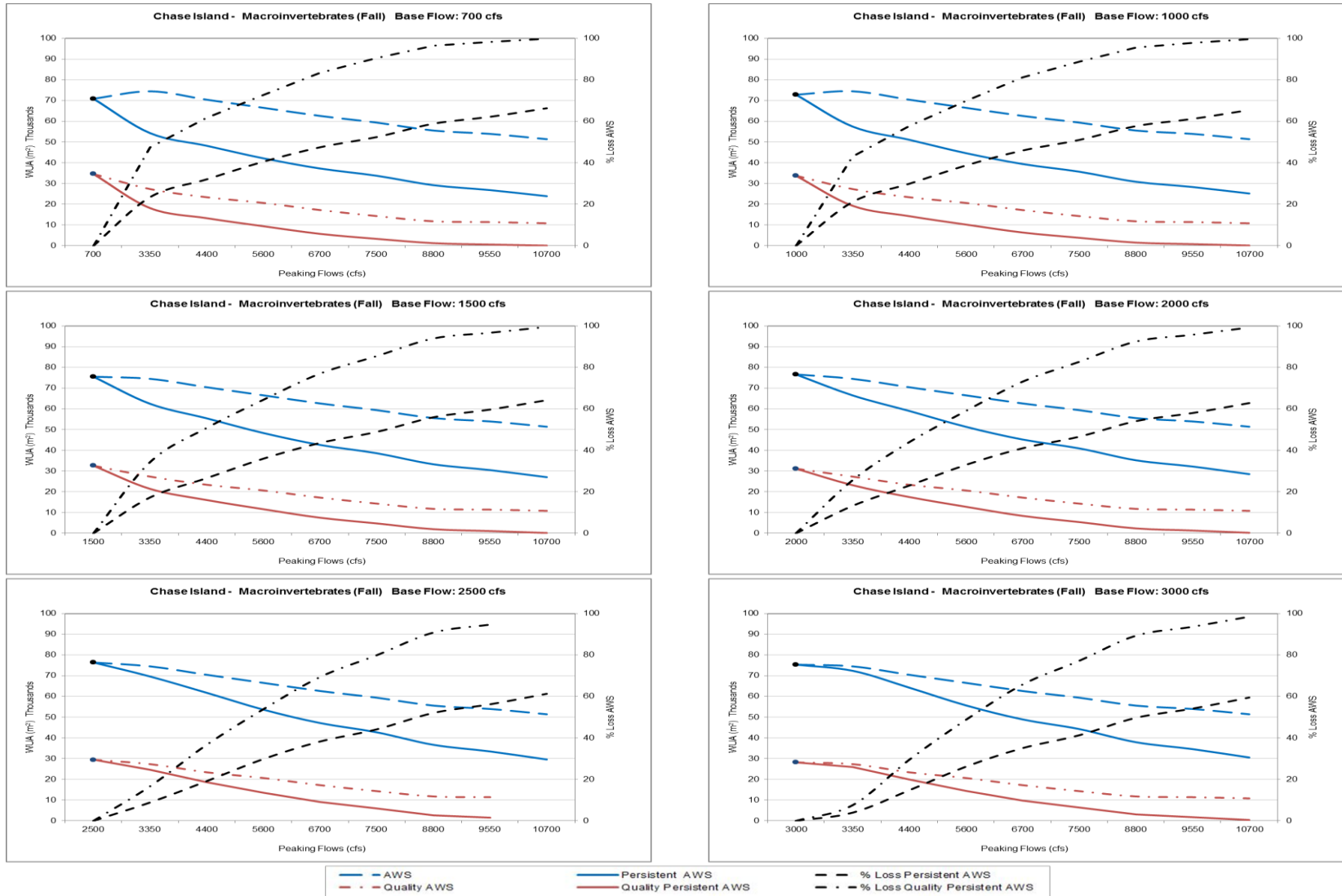
Wilder - Chase Island 2D Macroinvertebrates persistent and persistent quality habitat (Spring).



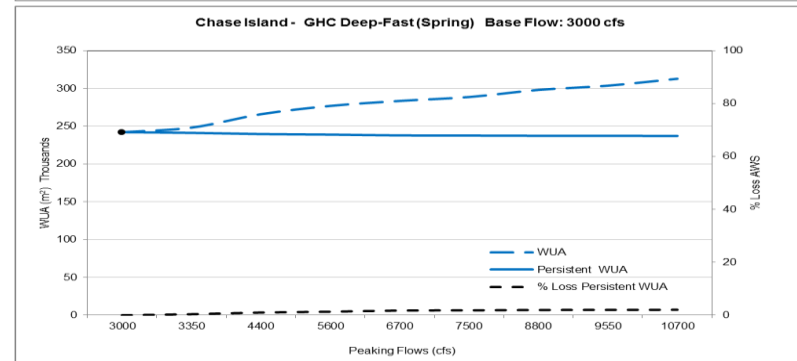
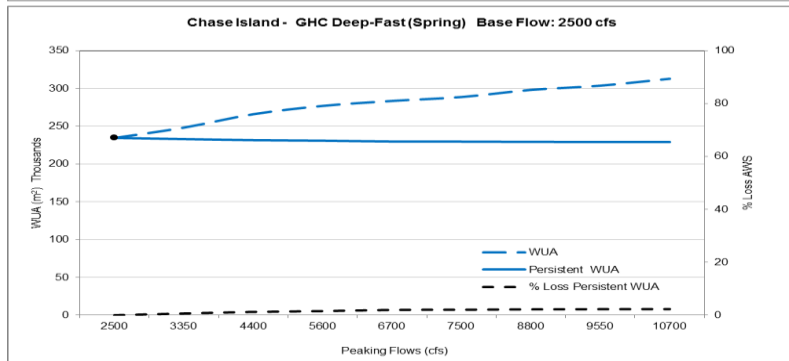
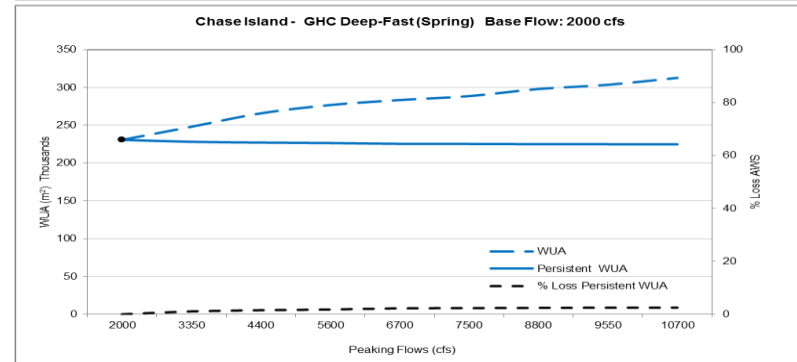
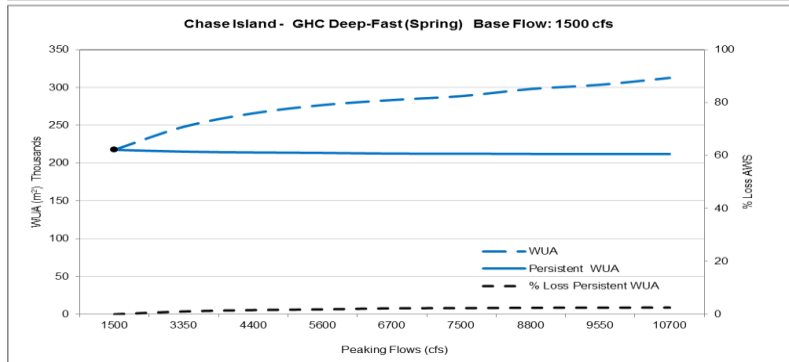
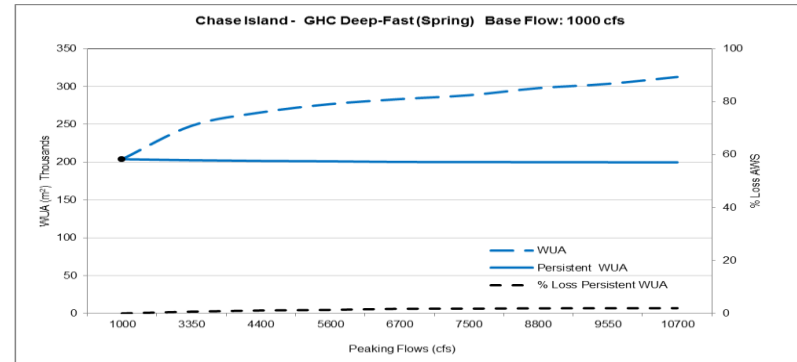
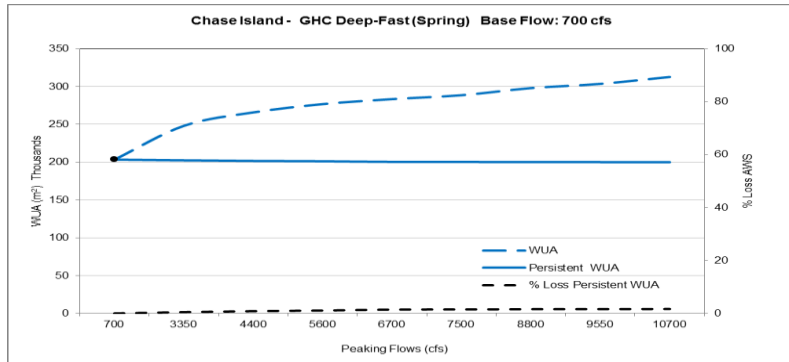
Wilder - Chase Island 2D Macroinvertebrates persistent and persistent quality habitat (Summer).



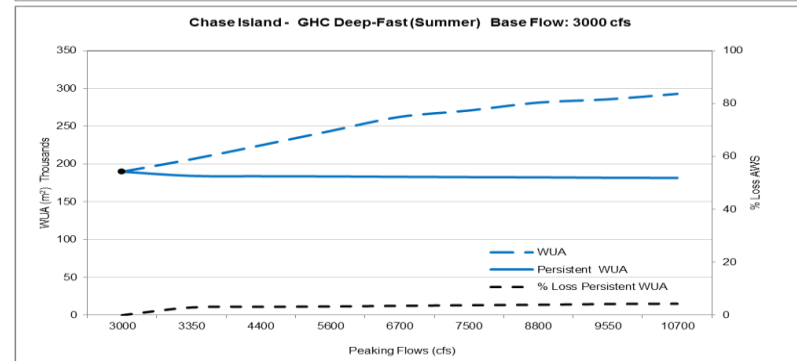
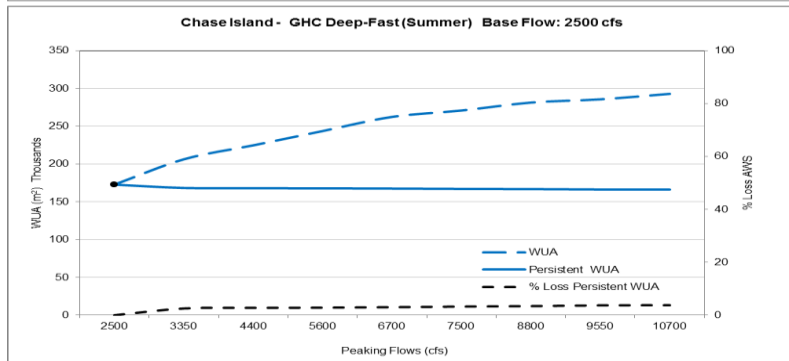
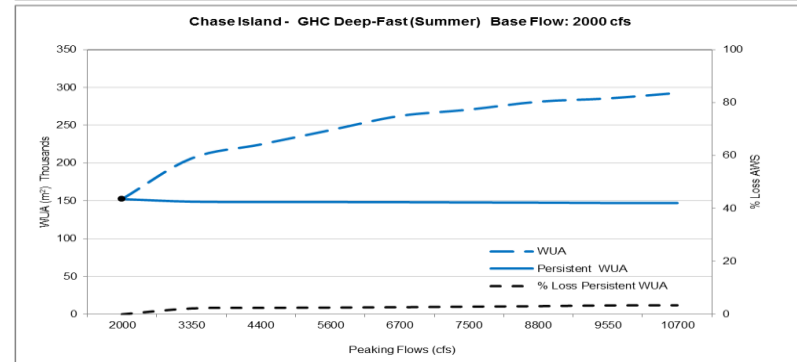
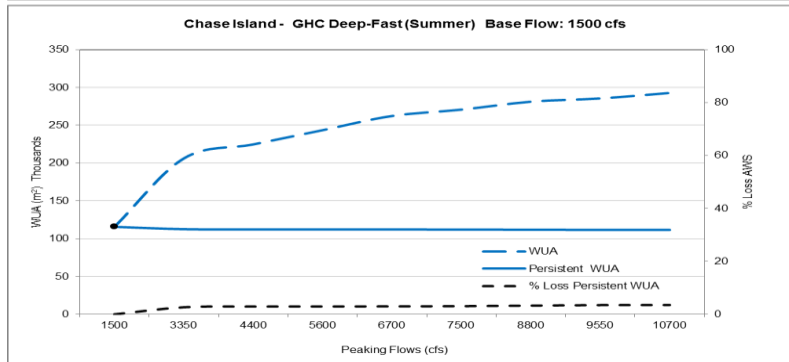
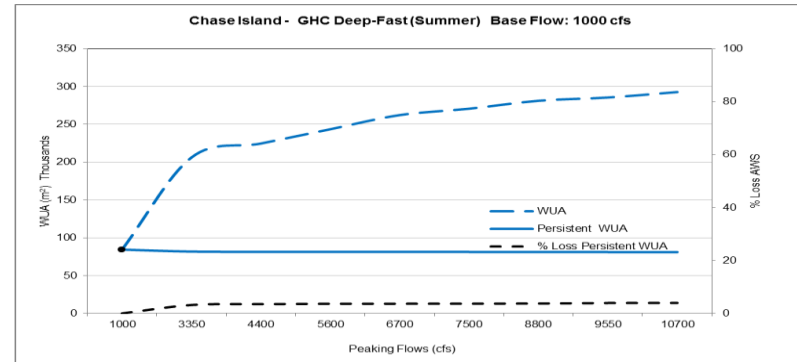
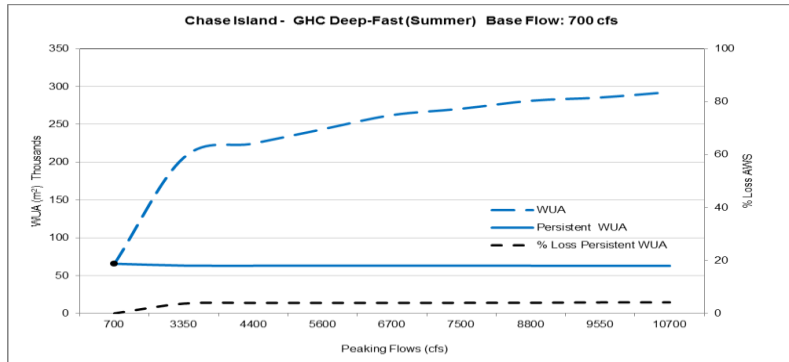
Wilder - Chase Island 2D Macroinvertebrates persistent and persistent quality habitat (Fall).



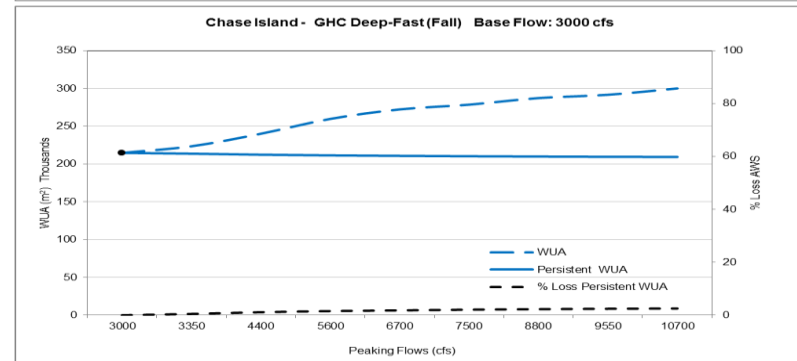
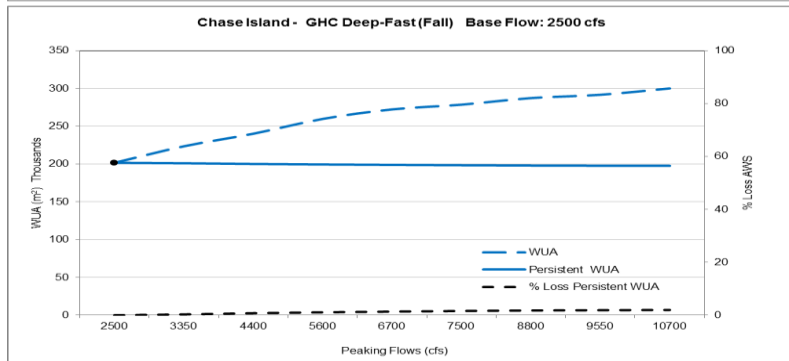
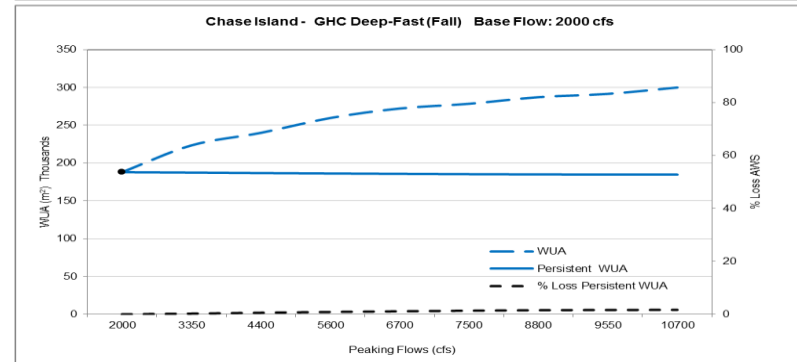
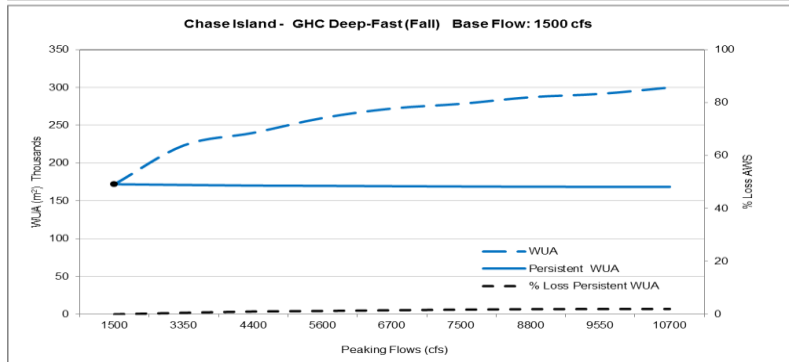
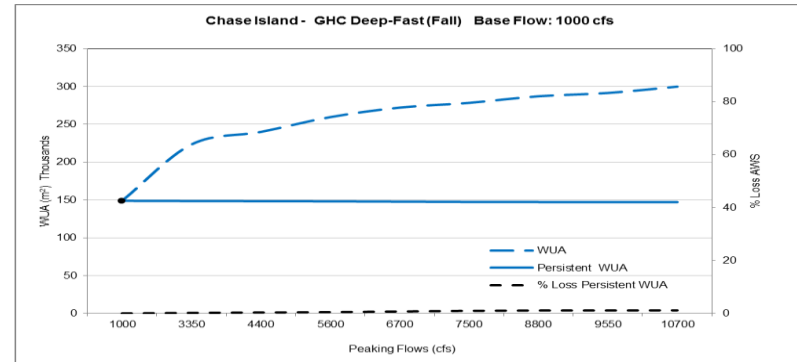
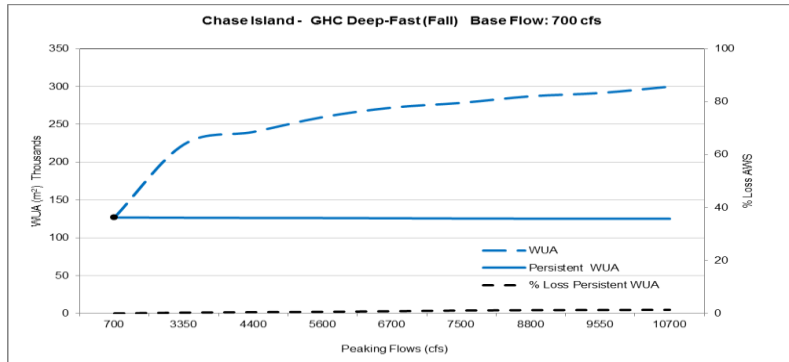
Wilder Chase Island 2D GHC Deep-Fast persistent habitat (Spring).



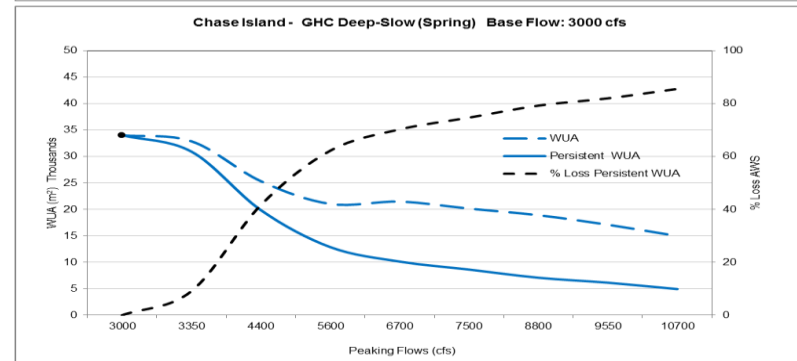
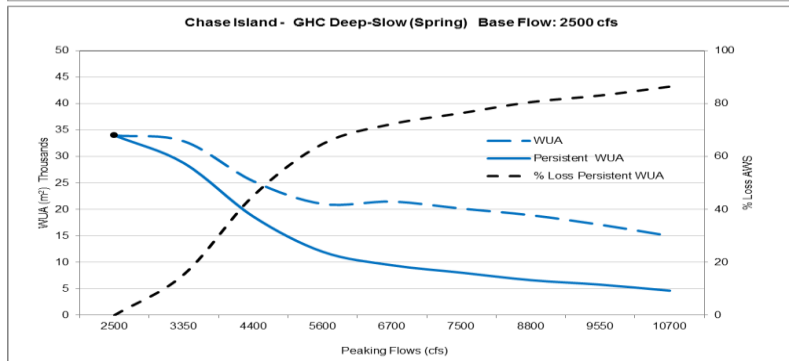
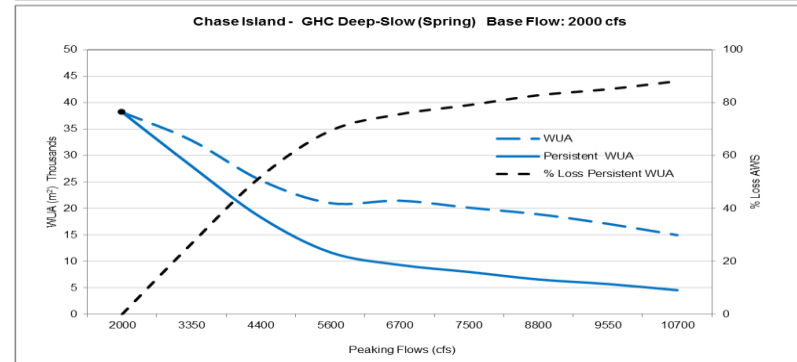
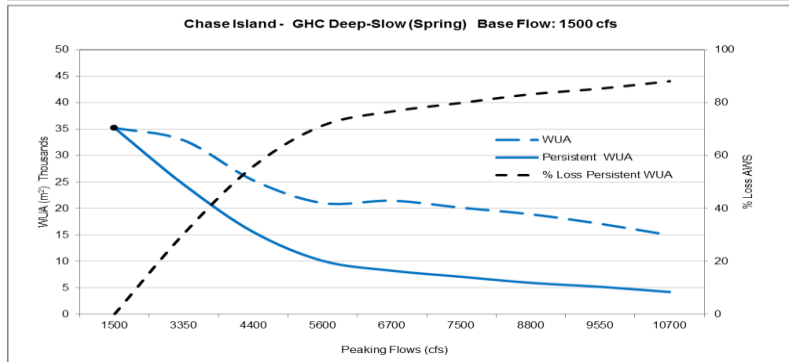
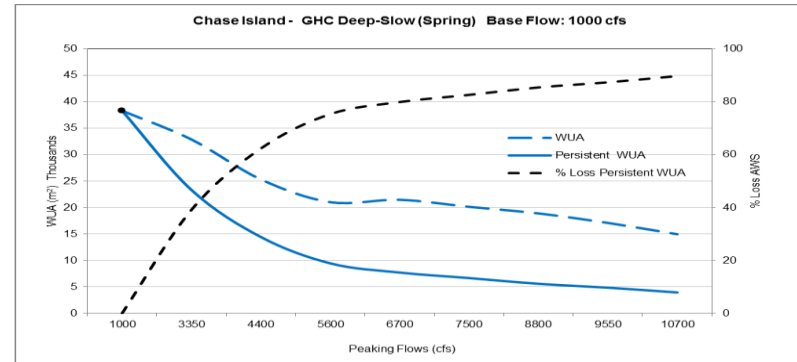
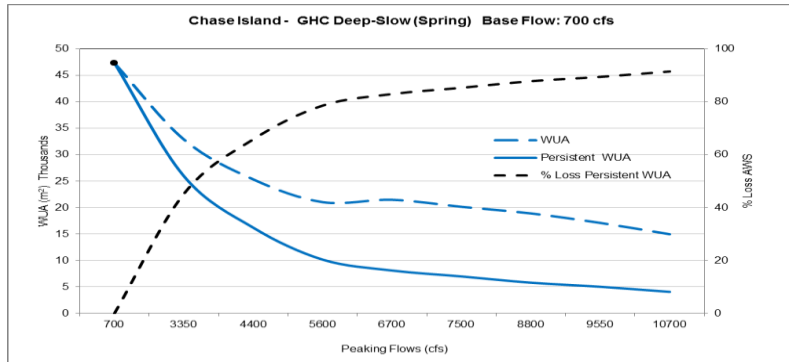
Wilder Chase Island 2D GHC Deep-Fast persistent habitat (Summer).



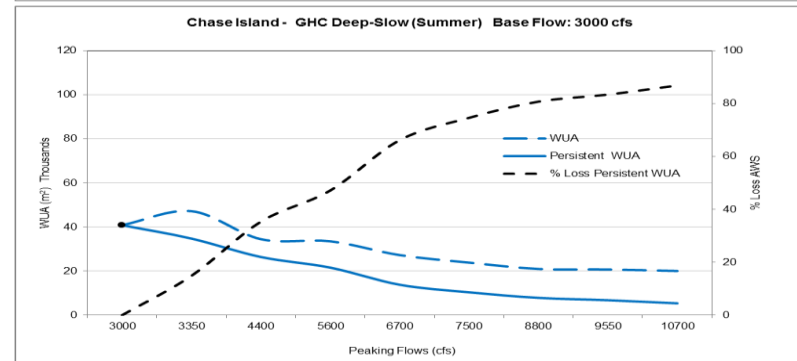
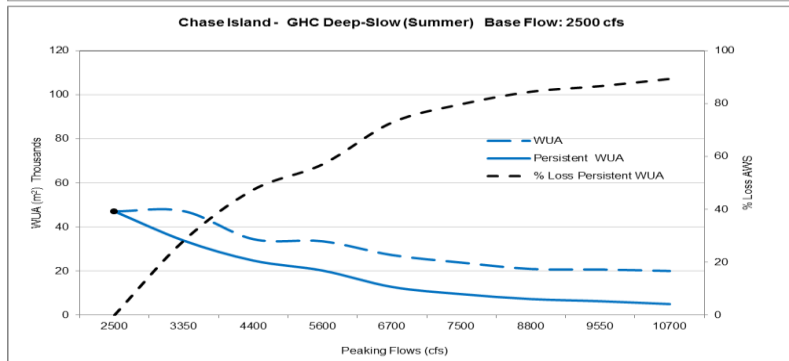
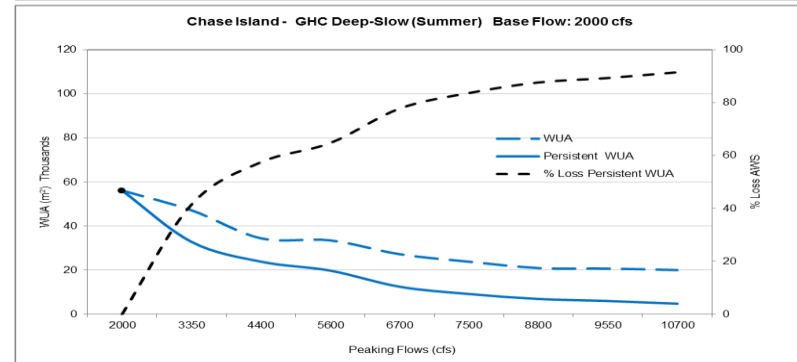
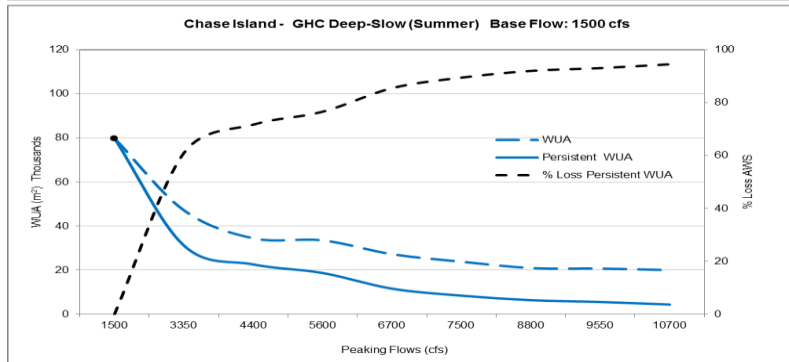
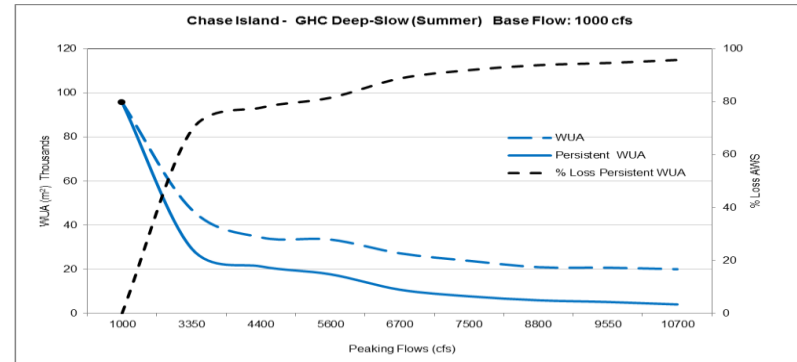
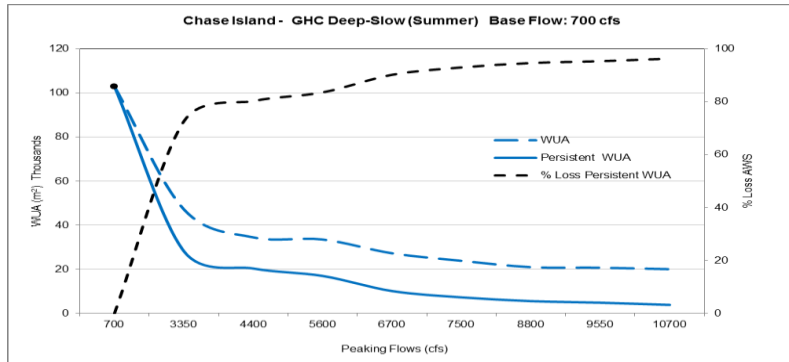
Wilder Chase Island 2D GHC Deep-Fast persistent habitat (Fall).



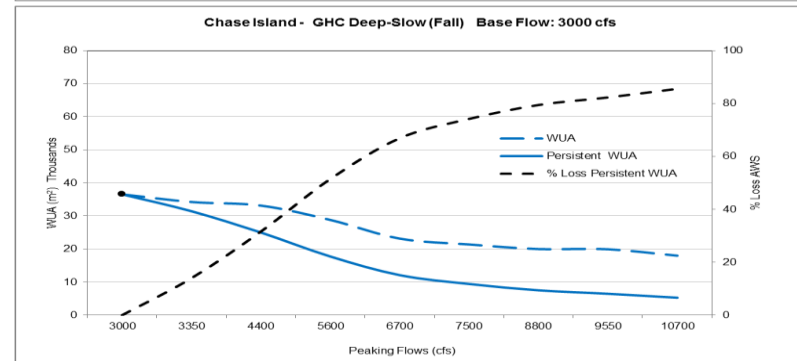
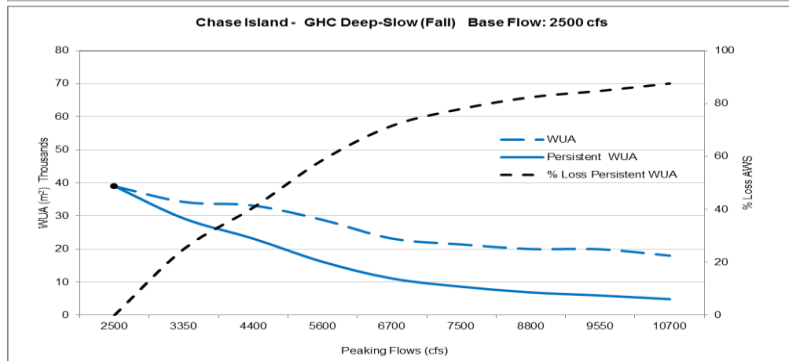
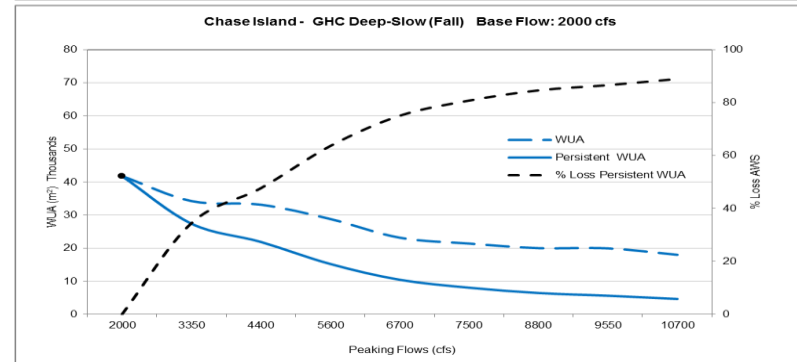
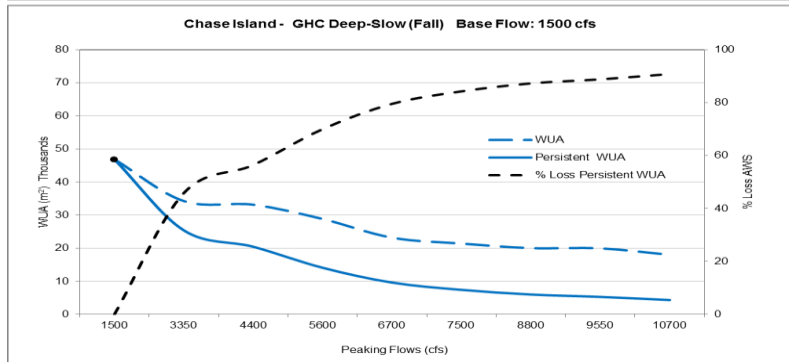
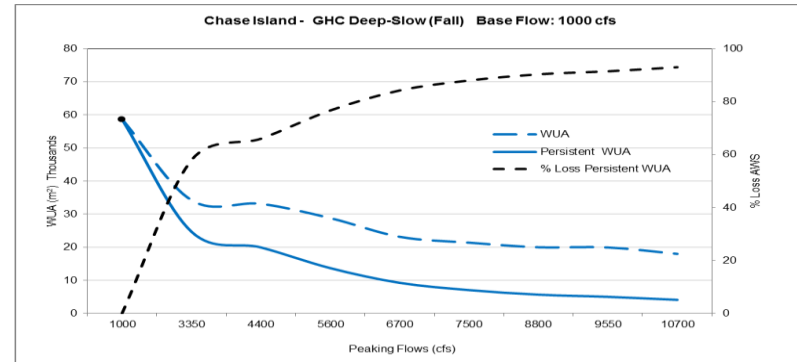
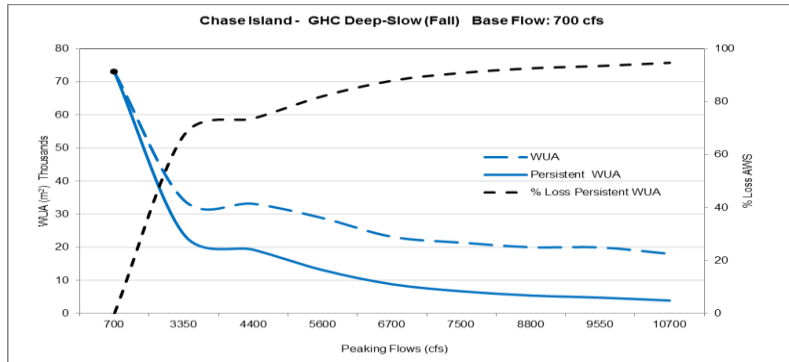
Wilder Chase Island 2D GHC Deep-Slow persistent habitat (Spring).



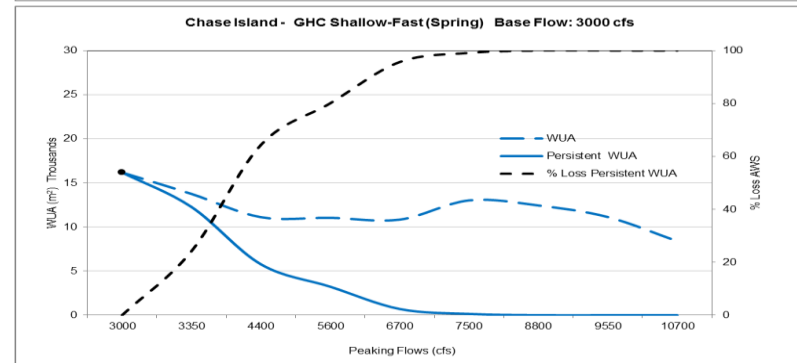
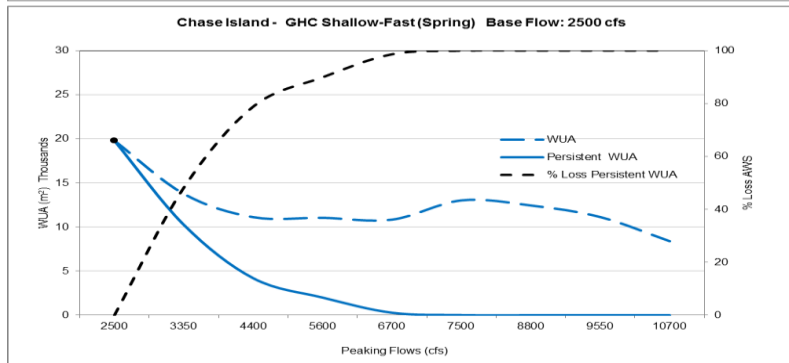
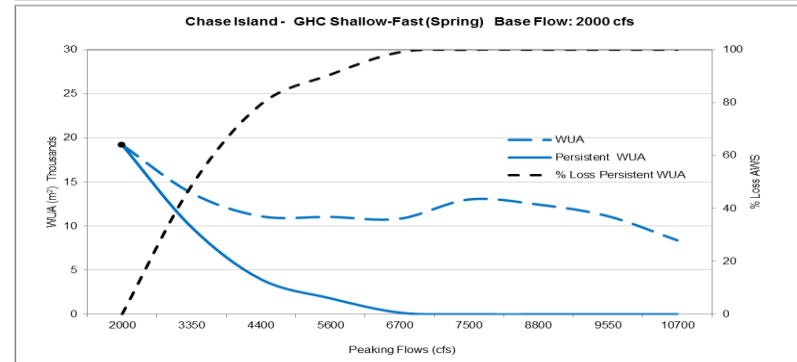
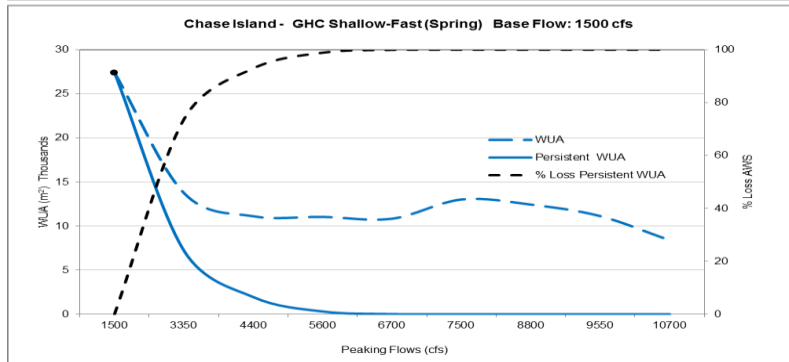
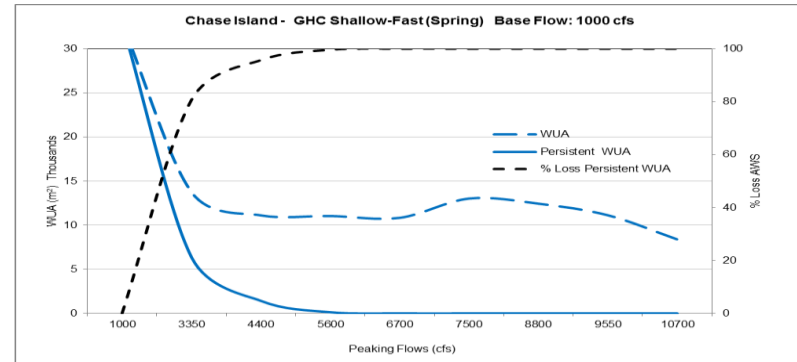
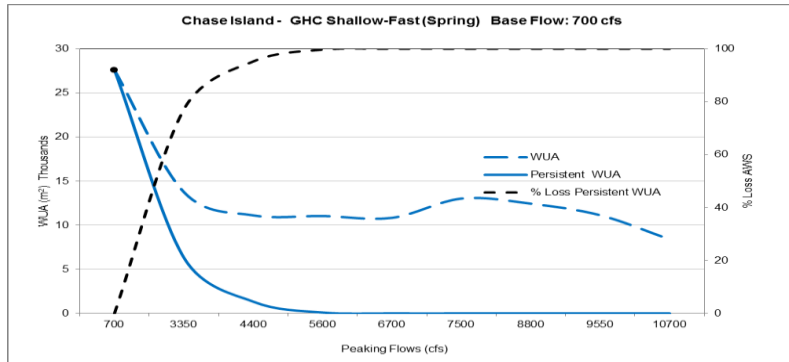
Wilder - Chase Island 2D GHC Deep-Slow persistent habitat (Summer).



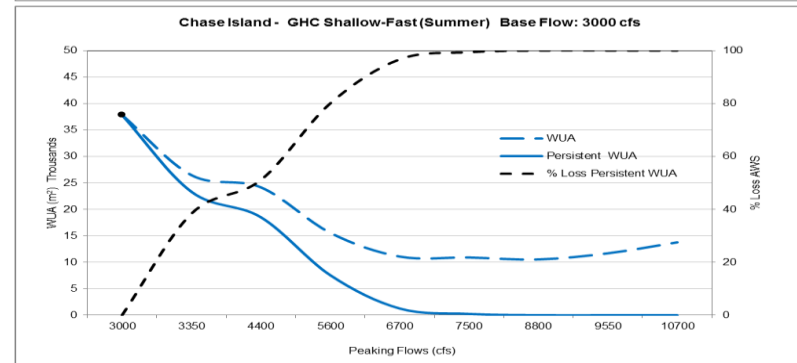
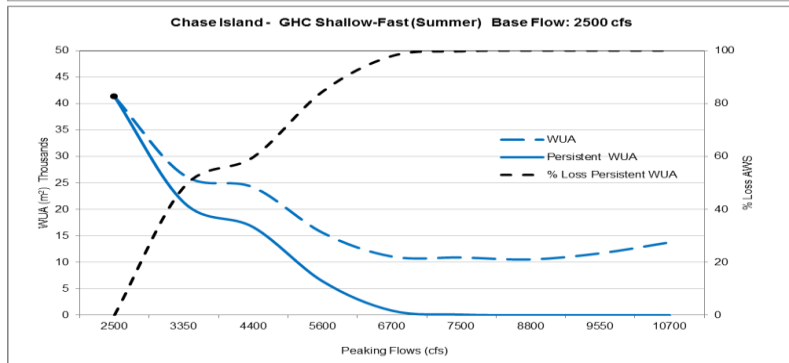
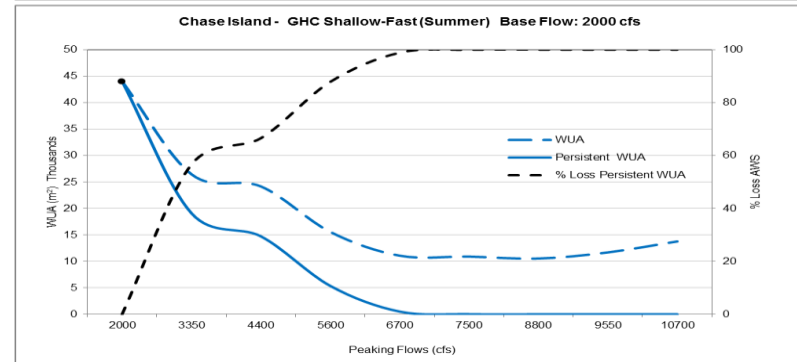
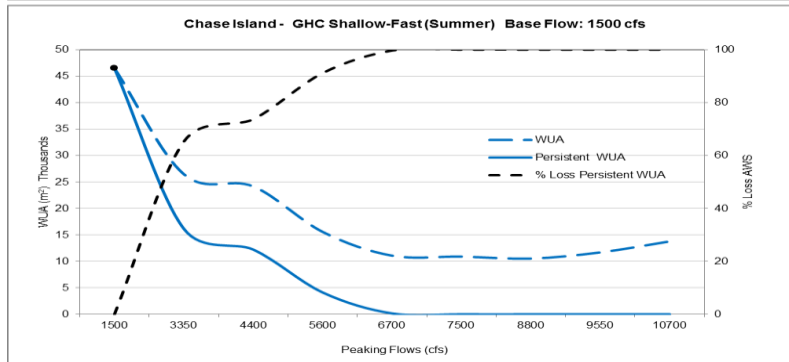
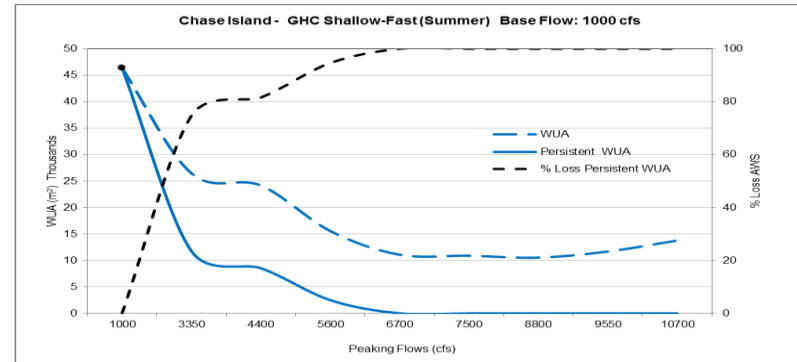
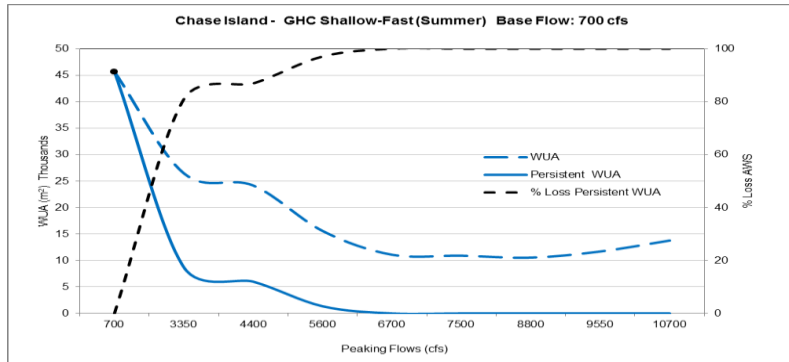
Wilder - Chase Island 2D GHC Deep-Slow persistent habitat (Fall).



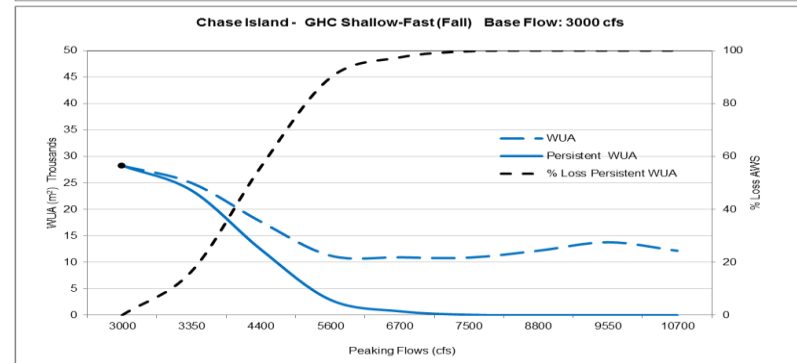
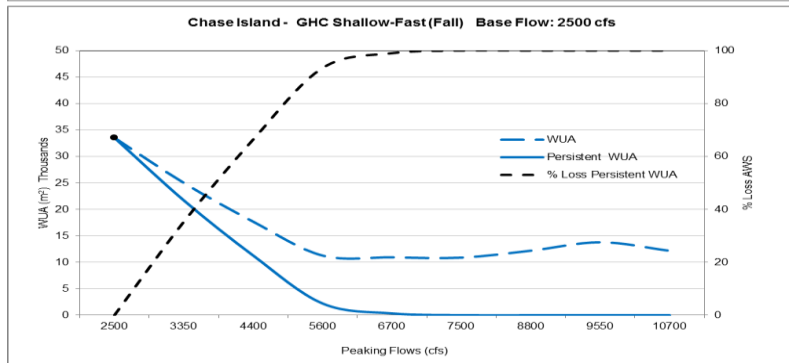
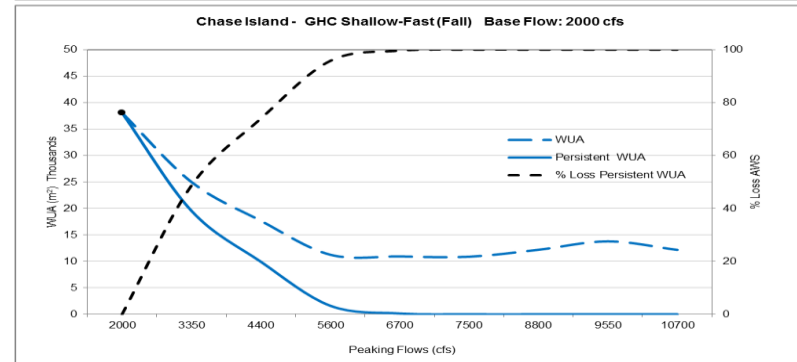
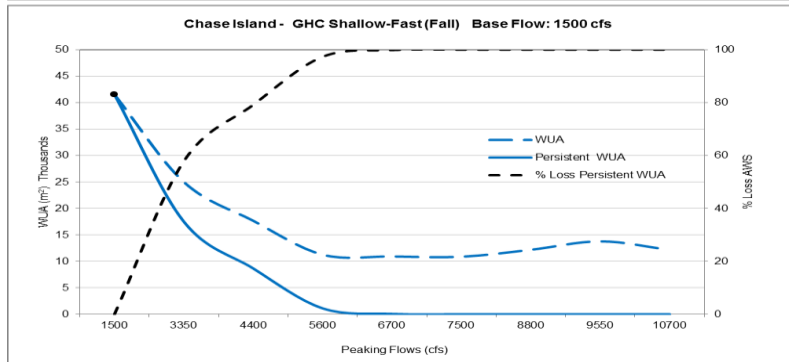
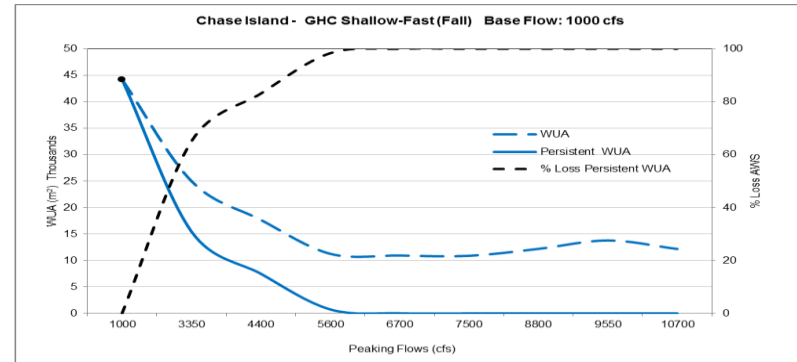
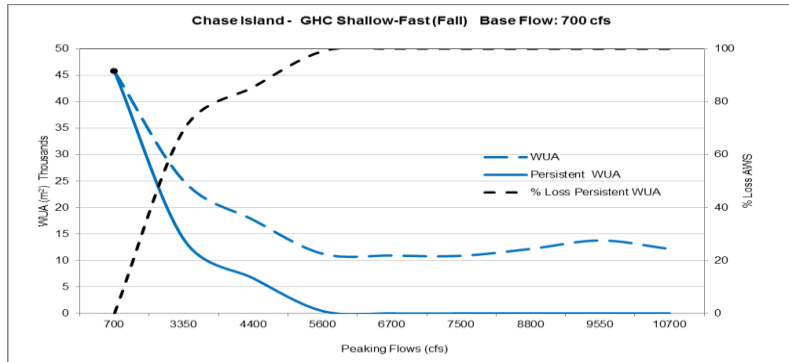
Wilder - Chase Island 2D GHC Shallow-Fast persistent habitat (Spring).



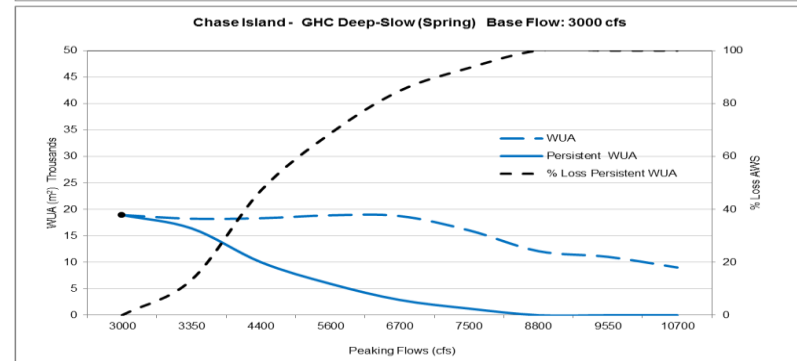
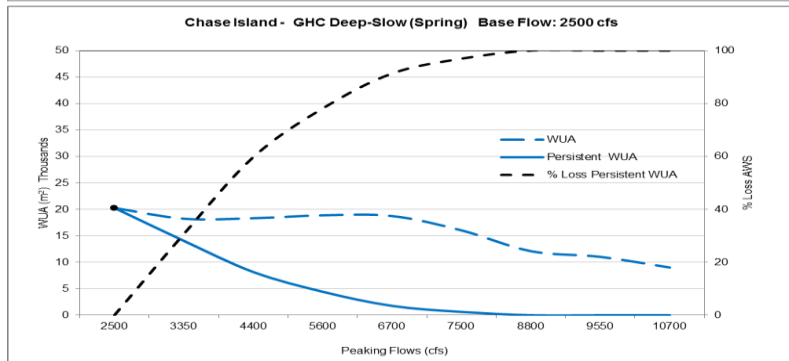
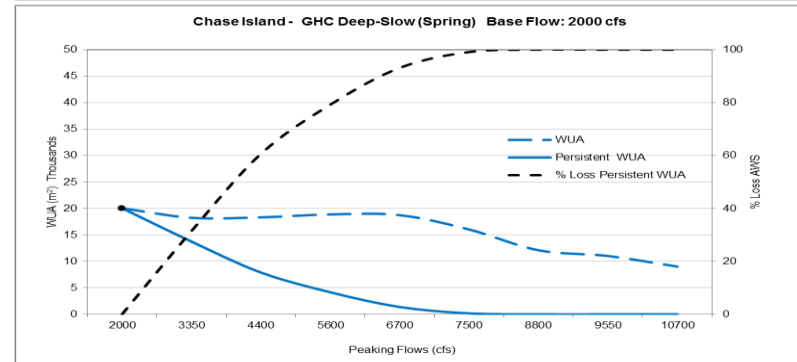
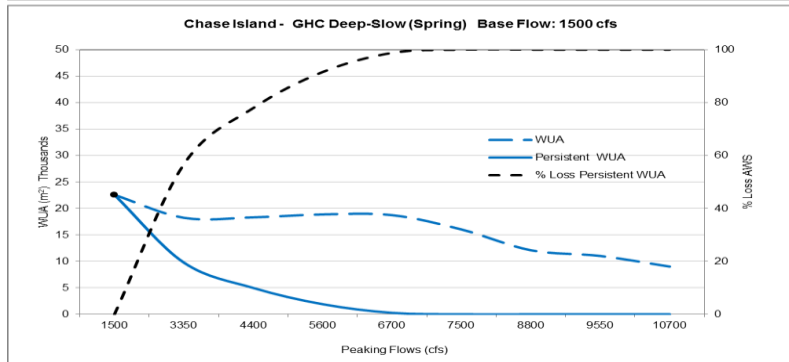
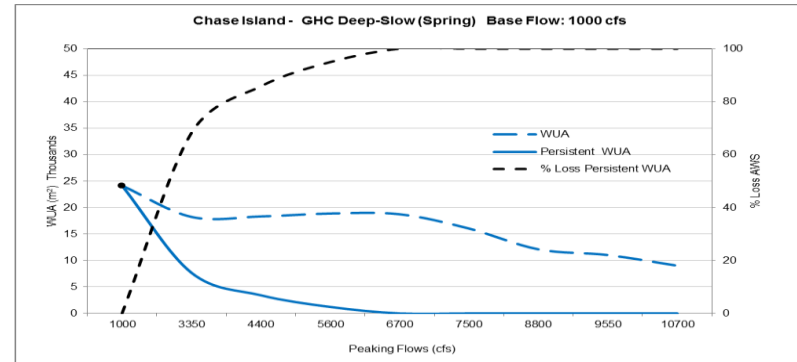
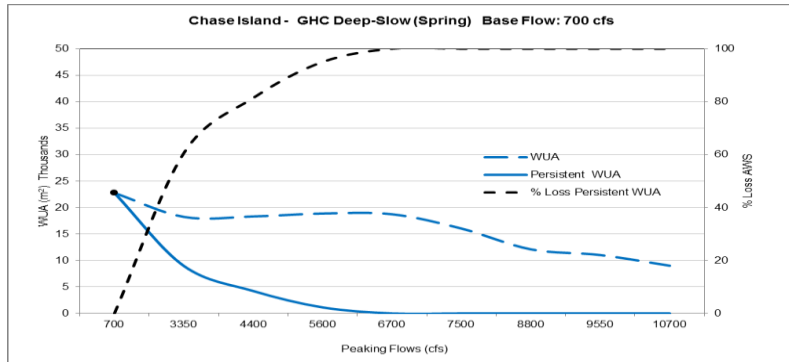
Wilder - Chase Island 2D GHC Shallow-Fast persistent habitat (Summer).



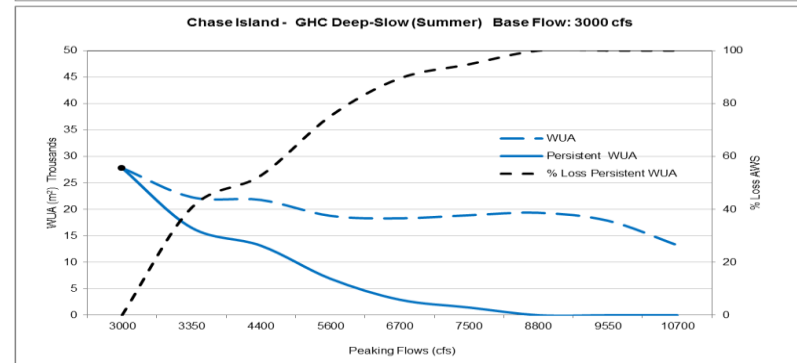
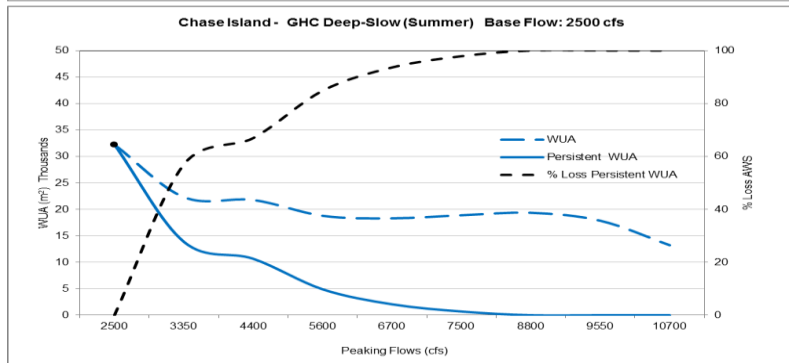
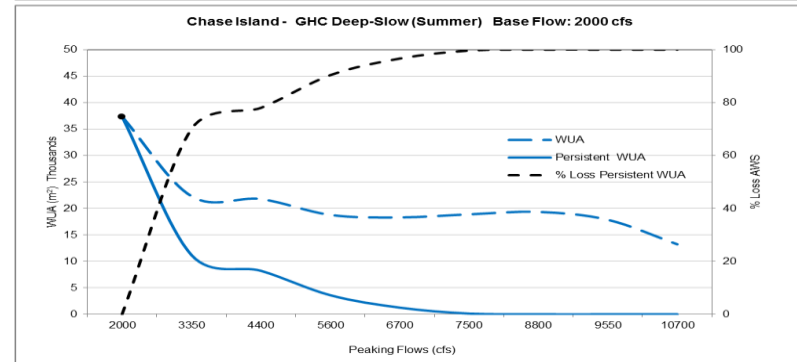
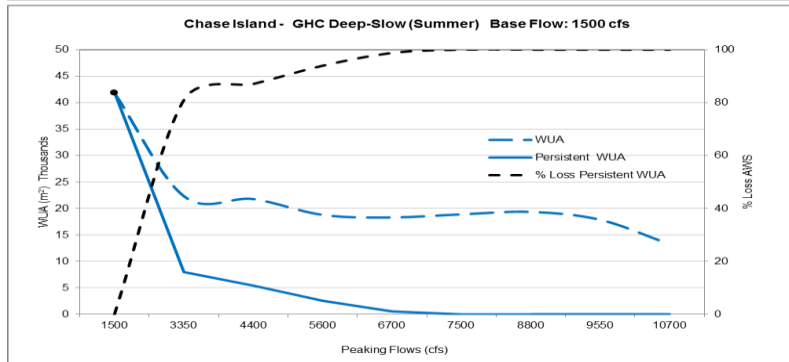
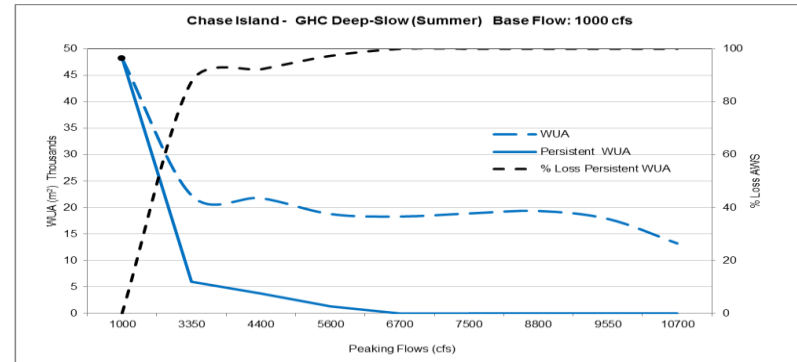
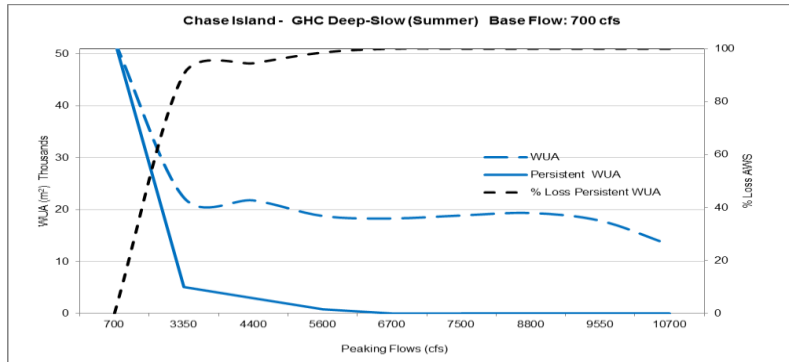
Wilder - Chase Island 2D GHC Shallow-Fast persistent habitat (Fall).



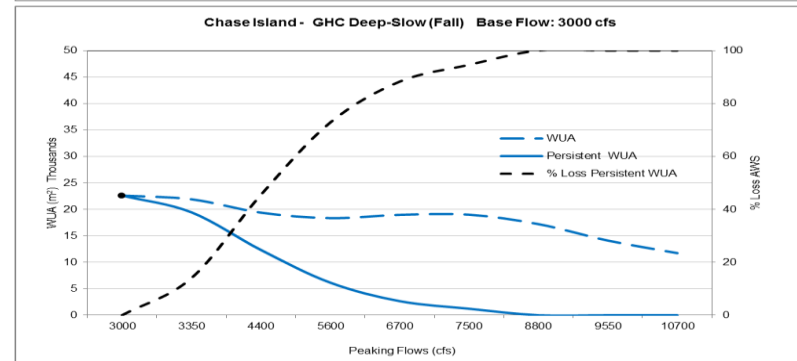
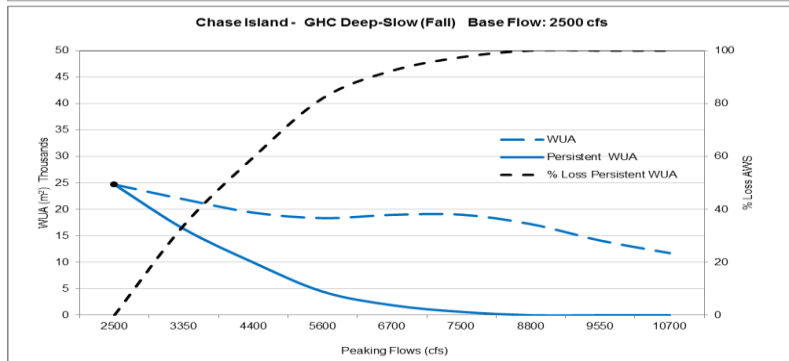
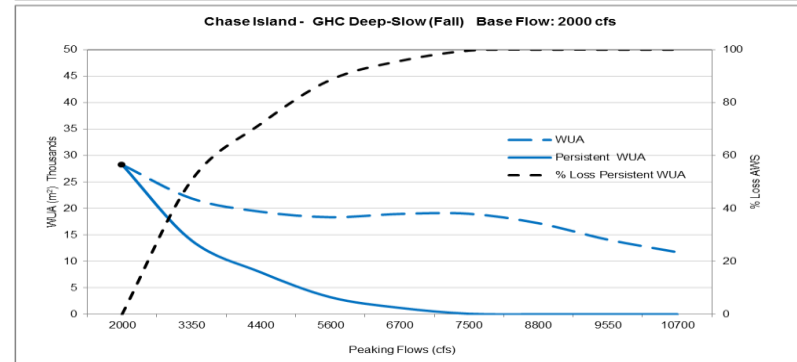
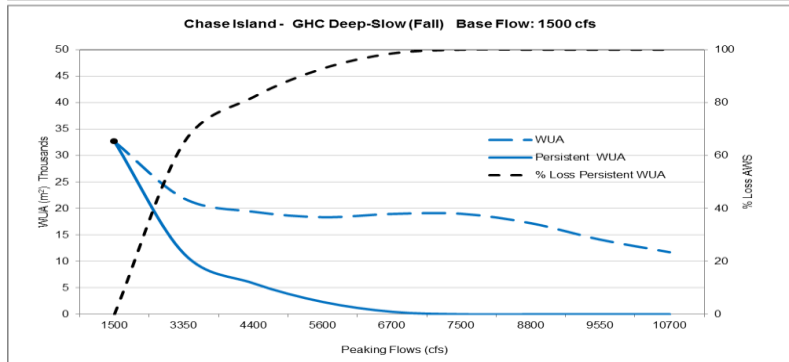
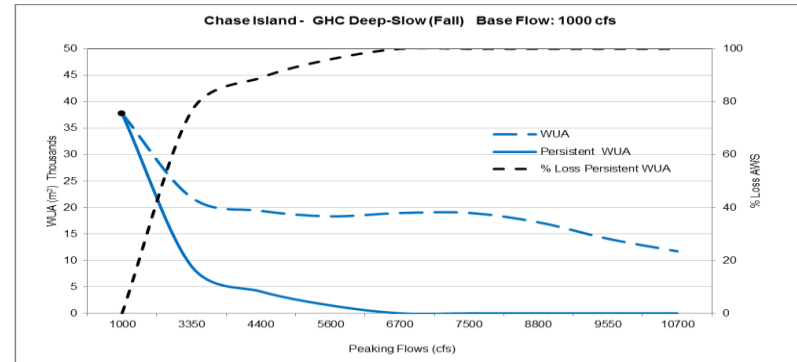
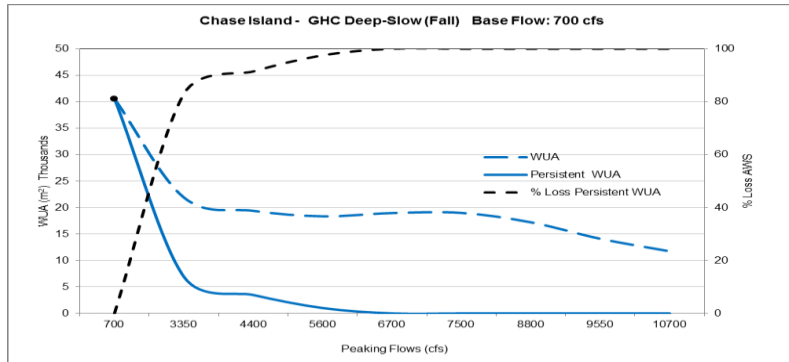
Wilder - Chase Island 2D GHC Shallow-Slow persistent habitat (Spring).



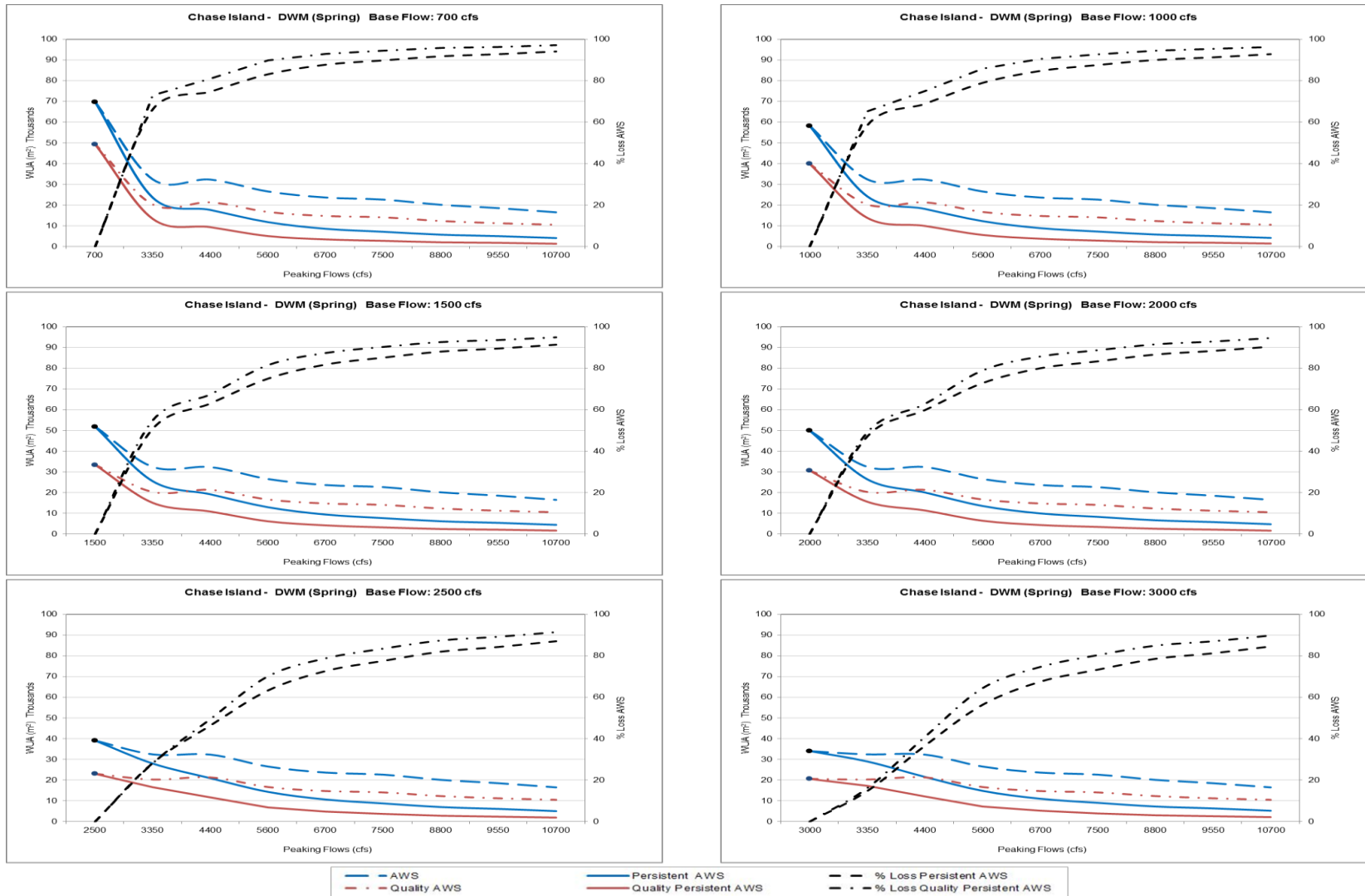
Wilder - Chase Island 2D GHC Shallow-Slow persistent habitat (Summer).



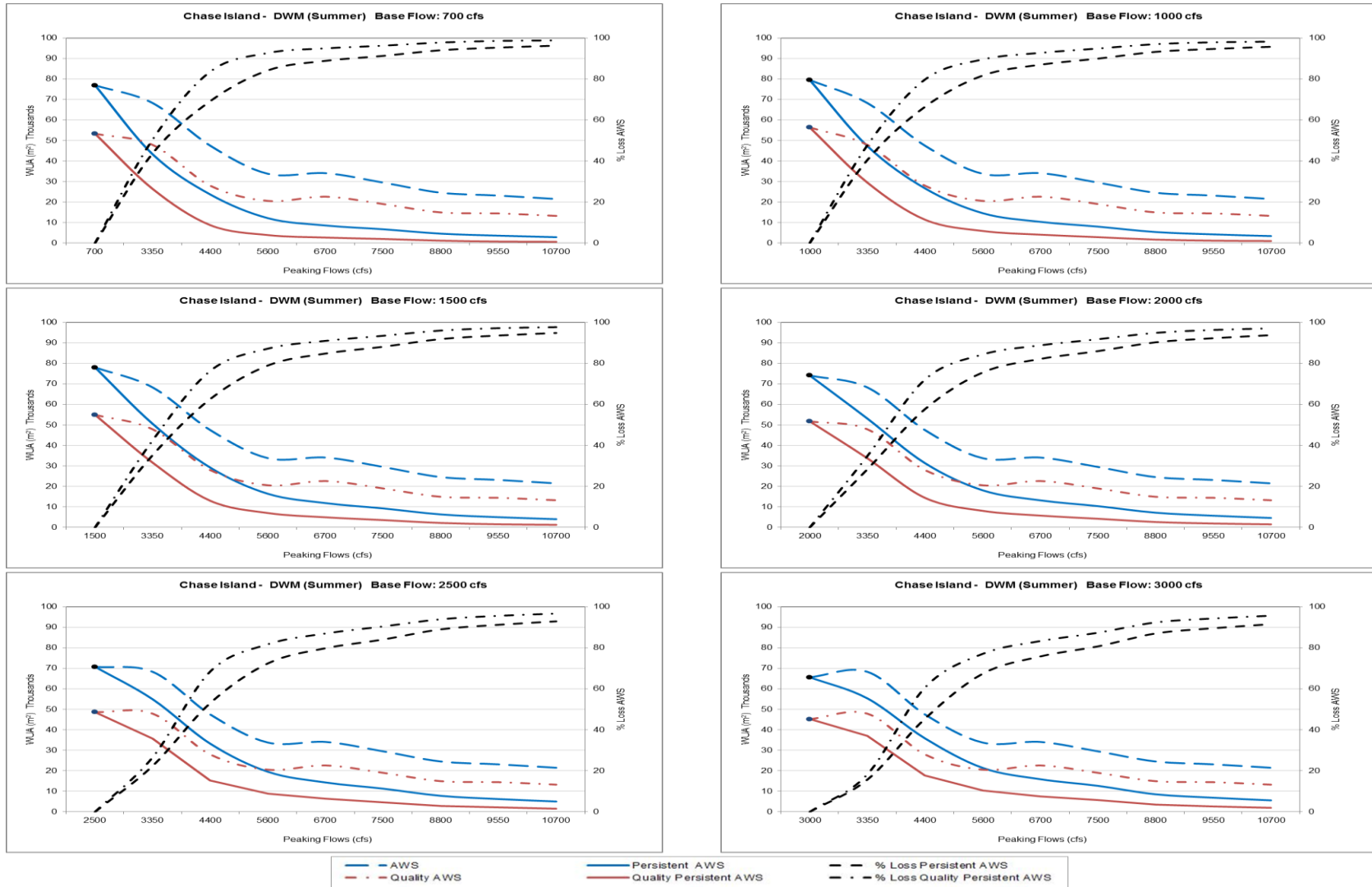
Wilder - Chase Island 2D GHC Shallow-Slow persistent habitat (Fall).



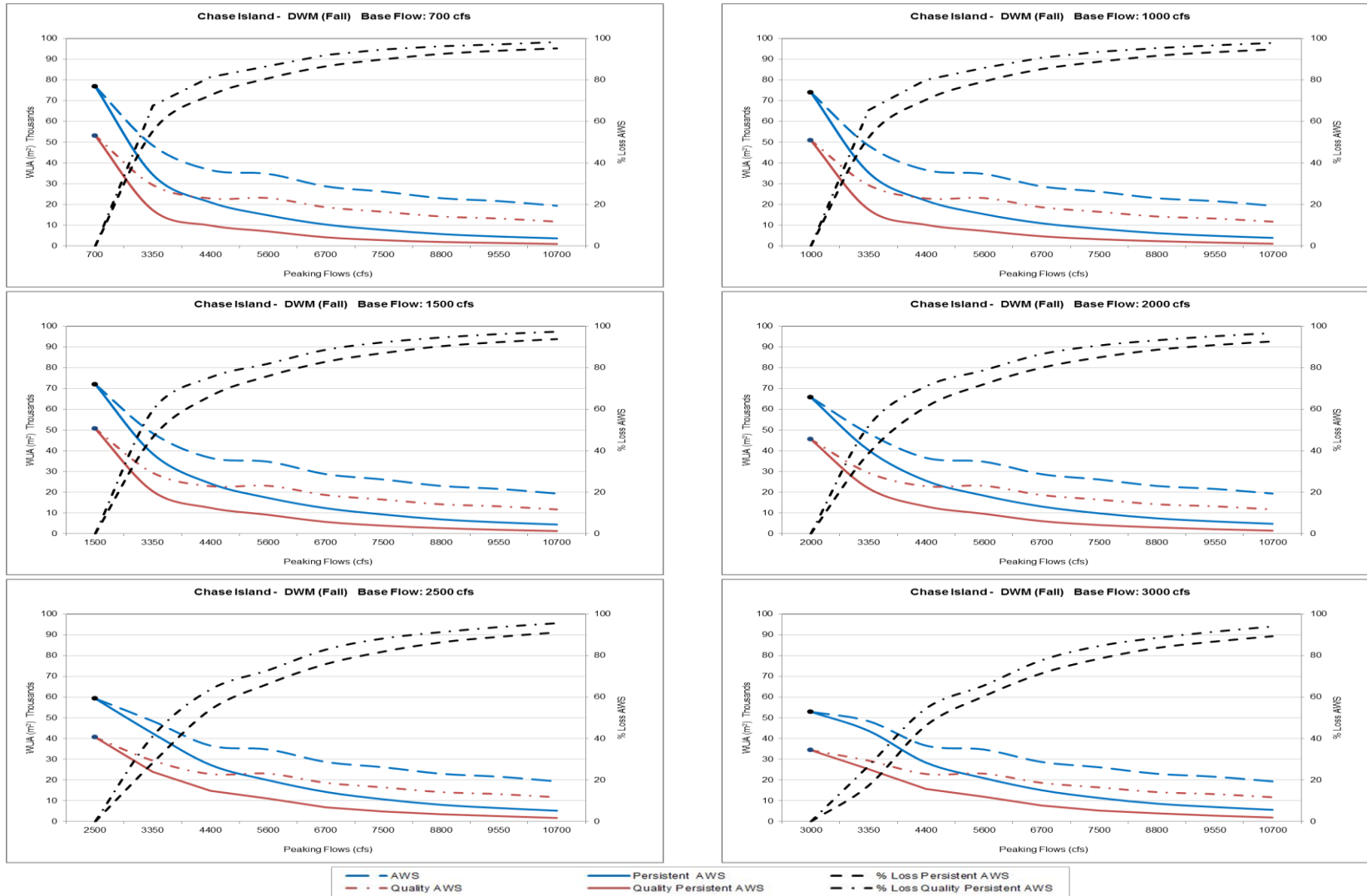
Wilder - Chase Island 2D DWM persistent and persistent quality habitat (Spring).



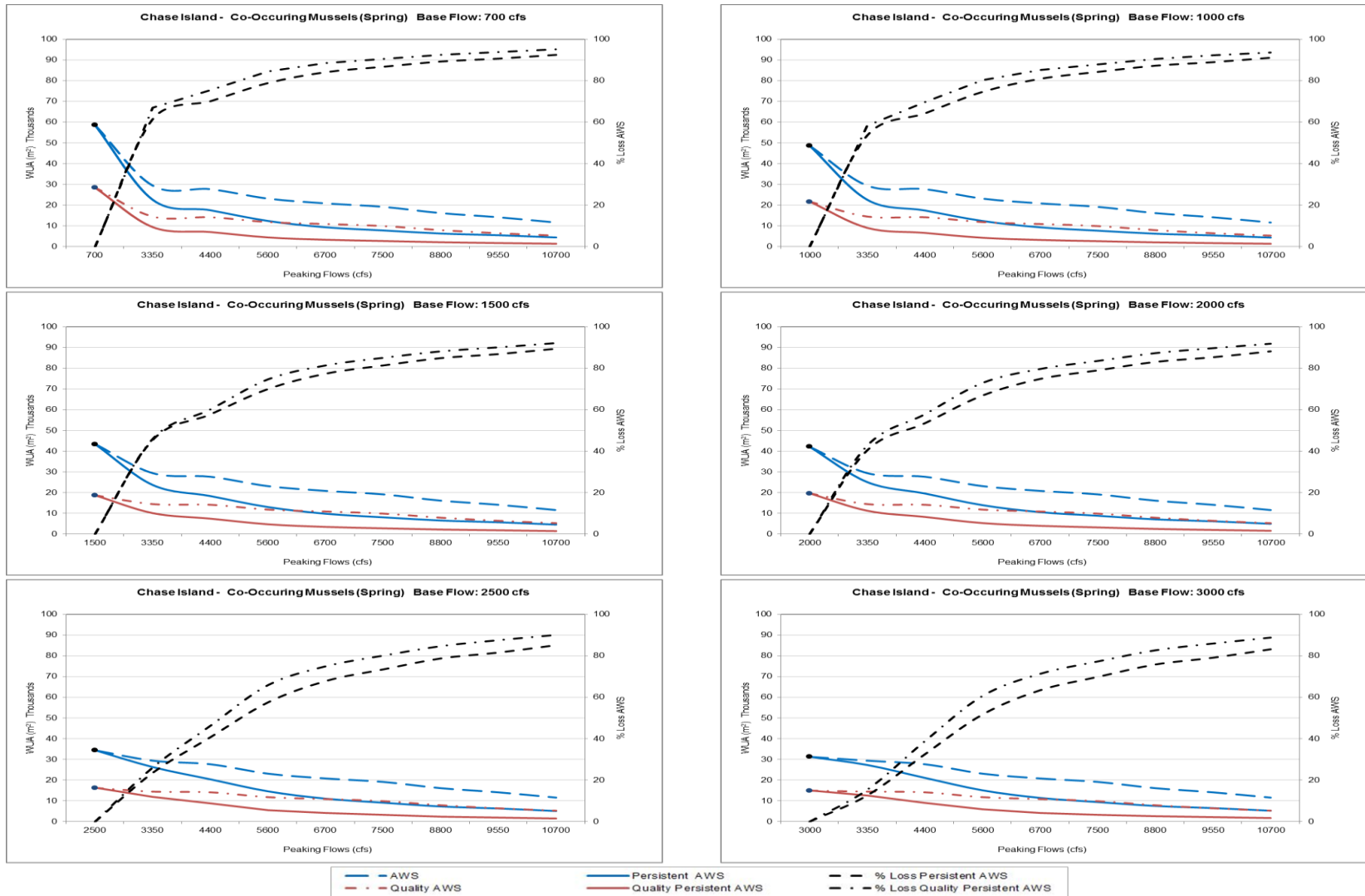
Wilder - Chase Island 2D DWM persistent and persistent quality habitat (Summer).



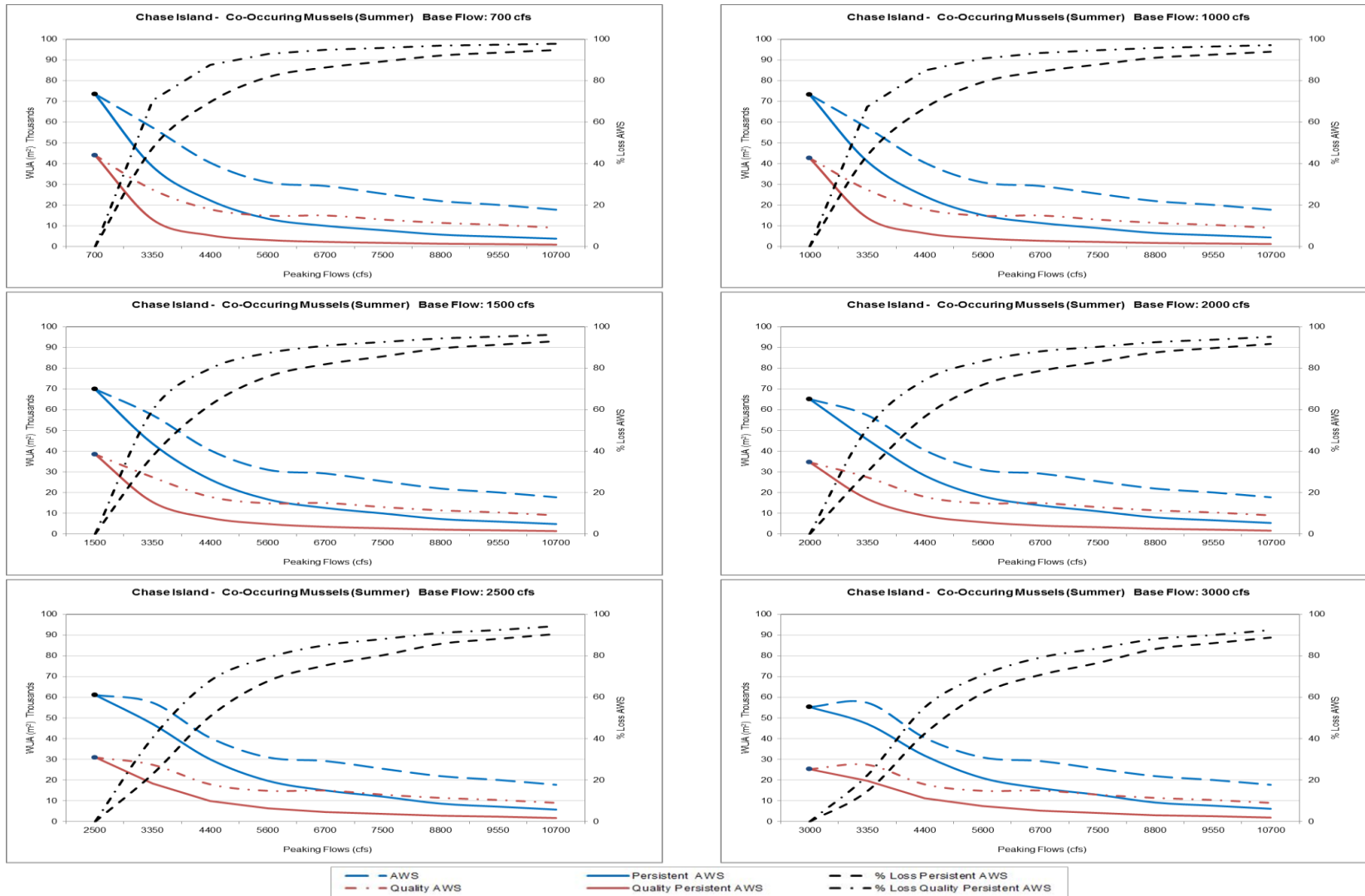
Wilder - Chase Island 2D DWM persistent and persistent quality habitat (Fall).



Wilder - Chase Island 2D Co-occurring mussels persistent and persistent quality habitat (Spring).



Wilder - Chase Island 2D Co-occurring mussels persistent and persistent quality habitat (Summer).



Wilder - Chase Island 2D Co-occurring mussels persistent and persistent quality habitat (Fall).

