

**STUDY REPORT W&AR-13  
FISH ASSEMBLAGE AND POPULATION**

**ATTACHMENT A**

**SCALE SAMPLE COLLECTION, AGE, AND GROWTH DATA**

**Table 1. Growth rate analysis for rainbow trout collected in La Grange Reservoir, 2012.**

ID #	Fish length (mm) at capture (TL)	Number of annuli (filename)				Age	Radius of scale (in pixels)	Distance: Nucleus to annuli (in pixels)				Radius of scale (mm)	Distance: Nucleus to annuli (in mm)			Calculated length of fish at annuli (in mm)			Growth by year (in mm)		
		Scale sample 1	Scale sample 2	Scale sample 3	1			2	3	4	1		2	3	1	2	3	1	2	3	
78	85	0 (s78sc9)	0 (s78sc8)	0 (s78sc6)	YOY	251					0.301										
47	87	0 (s47sc1)	0 (s47sc14)	0 (s47sc15)	YOY	320					0.384										
61	87	0 (s61sc2)	0 (s61sc6)	0 (s61sc9)	YOY	338					0.405										
83	90	0 (s83sc5-7)	0 (s83sc5-7)	0 (s83sc2)	YOY	388					0.465										
86	92	0 (s86sc2)	0 (s86sc3)	0 (s86sc10)	YOY	310					0.372										
52	95	0 (s52sc_mid_btm)	0 (s52sc8)	0 (s52sc7)	YOY	352					0.422										
85	97	0 (s85sc_btm_lft)	0 (s85sc1)	0 (s85sc4)	YOY	450					0.539										
79	99	1 (s79sc2)	1 (s79sc9)	1 (s79sc11)	1	406	343				0.487	0.4			89					53	
82	99	1 (s82sc15)	1 (s80sc7)	1 (s82sc4)	1	455	380				0.545	0.5			89					52	
48	99	0 (s48sc3)	0 (s48sc_mid_lft)	0 (s48sc_mid)	YOY	385					0.462										
81	104	0 (s81sc2)	0 (s81sc5)	0 (s81sc_btm_rt)	YOY	391					0.469										
84	106	1 (s84sc11)	1 (s84sc7)	1 (s84sc5)	1	365	292				0.438	0.4			92					55	
76	109	1 (s76sc10)	1 (s76sc13)	1 (s76sc15)	1	384	318				0.460	0.4			97					60	
63	114	1 (s63sc14)	1 (s63sc3)	1 (s63sc1)	1	563	410				0.675	0.5			93					56	
70	115	1 (s70sc11)	1 (s70sc8)	1 (s70sc5)	1	425	329				0.509	0.4			97					61	
80	116	1 (s80sc18)	1 (s80sc16)	1 (s80sc8)	1	449	304				0.538	0.4			90					54	
69	117	1 (s69sc17)	1 (s69sc5)	1 (s69sc19)	1	420	333				0.503	0.4			100					64	
72	117	1 (s72sc4)	1 (s72sc13)	1 (s72sc16)	1	462	330				0.554	0.4			94					57	
75	117	1 (s75sc3)	1 (s75sc9)	1 (s75sc10)	1	360	274				0.432	0.3			98					61	
73	123	1 (s73sc2)	1 (s73sc_btm)	1 (s73sc7)	1	444	366				0.532	0.4			108					71	
33	128	1 (s33sc_mid)	1 (s33sc_btm_lft)	1 (s33sc1)	1	450	236				0.539	0.3			85					48	
9	129	1 (s9sc18)	1 (s9sc7)	1 (s9sc2)	1	536	372				0.643	0.4			101					64	
41	130	1 (s41sc3)	1 (s41sc9)	1 (s41sc_btm_Rt)	1	509	327				0.610	0.4			97					60	
77	130	1 (s77sc3)	1 (s77sc1)	1 (s77sc4)	1	512	405				0.614	0.5			110					74	
38	132	1 (s38sc9)	1 (s38sc4)	1 (s38sc3)	1	460	293				0.551	0.4			97					61	
32	135	1 (s32sc2)	1 (s32sc16)	1 (s32sc_mid_btm)	1	592	343				0.710	0.4			94					57	
16	144	1 (s16sc6)	1 (s16sc1)	1 (s16sc3)	1	486	294				0.583	0.4			102					65	
39	144	1 (s39sc3)	1 (s39sc1)	1 (s39sc1ft)	1	495	350				0.593	0.4			113					76	
29	146	1 (s29sc_Rt)	1 (s29sc_last)	1 (s29sc1)	1	445	262				0.533	0.3			101					64	
68	149	1 (s68sc10)	1 (s68sc13)	1 (s68sc6)	1	544	294				0.652	0.4			97					61	
74	149	1 (s74sc1)	1 (s74sc2)	1 (s74sc10)	1	591	422				0.708	0.5			117					80	
71	154	1 (s71sc1)	1 (s71sc2)	na	1	868	564				1.041	0.7			113					76	
17	158	1 (s17sc6)	1 (s17sc7_flipped)	1 (s17sc6)	1	635	334				0.761	0.4			100					64	
58	162	1 (s58sc16)	1 (s58sc12)	1 (s58sc2)	1	578	375				0.693	0.4			118					81	
11	170	1 (s11sc_mid)	1 (s11sc3)	1 (s11sc8)	1	638	313				0.765	0.4			102					65	
34	171	1 (s34sc3)	1 (s34sc5)	1 (s34sc9)	1	797	428				0.955	0.5			109					72	
7	172	1 (s7sc_btm_Rt)	1 (s7sc_btm_Lft)	1 (s7sc10)	1	647	353				0.776	0.4			110					74	
15	177	1 (s15sc8)	1 (s15sc2)	1 (s15sc1)	1	659	355				0.790	0.4			112					76	

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		Scale sample 1	Scale sample 2	Scale sample 3	1			2	3	4	1		2	3	1	2	3	1	2	3	
3	180	1 (s3sc2)	1 (s3sc3)	na	1	755	402				0.905	0.5			113			76			
13	184	1 (s13sc5)	1 (s13sc4)	na	1	520	277				0.623	0.3			115			78			
14	187	1 (s14sc9)	1 (s14sc10)	1 (s14sc2)	1	604	301				0.724	0.4			112			75			
66	192	1 (s66sc5)	1 (s66sc10)	1 (s66sc1)	1	855	411				1.025	0.5			111			75			
24	198	1 (s24sc3)	1 (s24sc4)	1 (s24sc7)	1	623	323				0.747	0.4			120			84			
19	199	1 (s19sc2)	1 (s19sc1)	1 (s19sc3)	1	630	323				0.755	0.4			120			83			
1	205	1 (s1sc3)	1 (s1sc5)	1 (s1sc7_flipped)	1	757	431				0.907	0.5			133			96			
25	213	1 (s25sc16)	1 (s25sc11)	1 (s25sc5)	1	785	404				0.941	0.5			127			91			
6	225	2 (s6sc9_flipped)	2 (s6sc11)	na	2	902	340	632			1.081	0.4	0.8		108	169		71	61		
35	226	2 (s35Rsc5)	2 (sc35R11)	2 (s35Rsc4)	2	970	352	627			1.163	0.4	0.8		105	159		69	54		
67	231	1 (s67sc1)	1 (s67sc4)	1 (s67sc7)	1	780	407				0.935	0.5			138			101			
23	231	2 (s23Rsc1)	2 (s23Rsc2)	s23Rsc4)	2	864	358	653			1.036	0.4	0.8		117	184		81	66		
59	236	2 (s59sc4)	2 (s59sc7)	2 (s59sc10)	2	874	311	595			1.048	0.4	0.7		108	172		71	65		
2	240	2 (s2sc6)	2 (s2sc4)	na	2	1022	350	650			1.225	0.4	0.8		106	166		70	60		
18	244	2 (s18sc1)	2 (s18sc3)	2 (s18sc5)	2	970	438	767			1.163	0.5	0.9		130	201		94	70		
21	265	2 (s21sc3)	2 (s21sc4)	na	2	1348	480	933			1.616	0.6	1.1		118	195		81	77		
37	265	2 (s37Rsc1)	2 (s37Rsc2)	2 (s37sc3)	2	1109	472	844			1.329	0.6	1.0		134	210		97	77		
36	273	2 (s36Rsc1)	2 (s36Rsc2)	2 (s36Rsc4)	2	1155	394	763			1.385	0.5	0.9		117	193		81	76		
22	275	2 (s22Rsc6)	2 (s22Rsc7)	2 (s22Rsc8)	2	1070	418	800			1.283	0.5	1.0		130	215		93	85		
60	290	2 (s60Rsc6)	2 (s60Rsc4)	2 (s60Rsc8)	2	1111	470	769			1.332	0.6	0.9		144	212		107	68		
65	310	3 (s65sc7)	3 (s65sc1)	na	3	1295	463	779	1112		1.552	0.6	0.9	1.3	134	201	271	98	67	70	
64	317	3 (s64sc4_flipped)	3 (s36sc5)	3 (s64sc2)	3	1421	376	767	1118		1.703	0.5	0.9	1.3	111	188	257	74	77	69	
42	344	3 (s42sc10)	3 (s42sc3_flipped)	3 (s42sc5_flipped)	3	1486	364	674	1061		1.781	0.4	0.8	1.3	112	176	256	75	64	80	