DWORSHAK NATIONAL FISH HATCHERY STEELHEAD BROODSTOCK RAW SPAWNING DATA – 1970

by

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Following are the Dworshak National Fish Hatchery raw spawning data for steelhead broodstock recorded by hatchery personnel in 1970, specifically from 5/11/1970 to 6/8/1970. Included are the original hatchery data forms (ADULT RECORD, 58 pages) as well as any handwritten summary notes (25 pages). All information was stored by Dr. Ted Bjornn (University of Idaho, deceased) and transferred from Dr. Christine Moffitt (University of Idaho) to IDFG in 2012. The paper sheets were then digitally scanned and are in their original form, except for some minor notes in red pencil made by this author for clarification purposes (all red felt pen is original). The original paper sheets are archived at Nampa Research Anadromous Ageing Laboratory (NRAAL) located in Nampa, Idaho.

Interpretation by this author and others of various terms and notes on the paper sheets are as follows:

- "Take" followed by a number (e.g. pg. 2) – individual egg take events when many fish were spawned, generally a single day.
- "Spring" (e.g. pg. 2) and "Fall" (e.g. pg. 28) – adults trapped for broodstock in the spring of 1970 versus the fall of 1969, respectively.
- "Green" (e.g. pg. 3) – green female, not ready to spawn.
- "Scale" followed by two numbers (e.g. pg. 3) – the scale sample collected where the first number refers to the gum card itself and the second number refers to the location on the gum card where the scale sample was placed. Each gum card has 20 squares numbered sequentially. Acetate impressions were made of each gum card for ageing. Nampa Research has archived the original gum cards and the acetate impressions; digital images have been made of both.
- "DIP" (e.g. pg. 27 and pg. 70) – died or found dead in pond, the fish was not spawned.
- "O.G.C." (e.g. pg. 4) or "ORE.G.C" (e.g. pg. 22) followed by multiple digit number – Oregon Game Commission fish tag, type unknown.

The meaning or purpose of notes, abbreviations, or numbers that are not defined above were not determined during the review of these data.

$\frac{12154.0}{371} = 32.76$ $\frac{4455}{371} = 12.01$

5-11-70 – Take 1 Spring

Total ♀ 380 = 12376.7" = 32.57 4988.0 lbs = 11.81

Total ♂ 0 – –

Total Fish Measured 380

~~Total Male~~

Sm. ♀ 222.7/9 = 24.79

33.0/9 = 3.67

Green 6

Bad 1

Dead –

Spawned out 2

~~Spawn~~ Total 9

Total Female 380

Total Female Spawn. 371

Marked Fish – one Adipose ✓

Tagged Fish – one tagged. OR. G. Comm. 00017

1970
" "

Dworshak National Fish Hatchery
ADULT RECORD

1970 Date	Number	Sex	Length, fork Inches	~~Weight before Spawning, lb.~~	Weight after Spawning, lb.	REMARKS
5-11	1	F	31.5		9.4	
	2	F	33.2		10.8	
	3	F	32.7		10.0	
	4	F	33.2		11.1	
	5	F	32.2		9.5	
	6	F	32.2		9.4	
	7	F	31.7		8.9	
	8	F	30.8		8.9	
	9	F	32.0		8.9	
	10	F	33.4		10.2	SCALE 1-1
	11	F	34.9		14.5	GREEN
	12	F	37.5		15.2	SCALE 01-1
	13	F	33.2		10.7	
	14	F	30.5		8.7	
	15	F	34.4		10.7	
	16	F	34.7		11.6	
	17	F	34.0		12.1	
	18	F	33.2		9.6	
	19	F	34.7		11.7	
	20	F	33.7		10.3	SCALE 1-2
	21	F	32.2		10.1	
	22	F	34.2		11.8	
	23	F	32.5		10.0	
	24	F	31.9		9.6	
	25	F	32.2		9.3	
	26	F	34.2		10.5	
	27	F	33.4		9.8	
	28	F	32.8		9.0	
	29	F	31.9		9.1	
	30	F	34.1		11.5	SCALE 1-3
	31	F	28.5		6.2	
	32	F	33.6		10.1	
	33	F	33.4		10.4	
	34	F	32.6		10.4	
	35	F	31.9		7.9	
	36	F	34.1		10.3	
	37	F	31.5		8.1	
	38	F	33.8		11.1	
	39	F	33.5		10.1	
	40	F	27.9		5.5	SCALE 1-4

Dworshak National Fish Hatchery

ADULT RECORD

1970 Date	Number	Sex	Length, fork Inches	~~Weight before Spawning, lb.~~	Weight after Spawning, lb.	REMARKS
5-11	41	F	23.8		3.4	SMALL
	42	F	24.7		4.2	
	43	F	34.1		11.4	
	44	F	32.9		9.2	
	45	F	31.8		9.2	
	46	F	31.4		8.1	
	47	F	33.2		9.7	
	48	F	33.6		10.8	
	49	F	34.7		11.3	
	50	F	33.3		10.4	SCALE 1-5
	51	F	33.6		10.1	
	52	F	31.7		8.6	
	53	F	39.5		18.5	SCALE 01-2 ✓
	54	F	38.2		14.8	SCALE 01-3 ✓
	55	F	32.5		8.8	
	56	F	33.6		10.7	~~00017 - TAG O.G.C.~~
	57	F	34.1		11.3	00017 - TAG O.G.C.
	58	F	30.1		7.1	
	59	F	33.2		10.5	
	60	F	30.0		6.8	SCALE 1-6
	61	F	36.8		12.7	
	62	F	33.2		9.8	
	63	F	34.2		9.4	
	64	F	32.3		9.9	
	65	F	32.1		9.9	
	66	F	32.1		8.5	
	67	F	29.6		6.6	
	68	F	32.8		9.4	
	69	F	35.0		13.5	
	70	F	33.7		10.5	SCALE 1-7
	71	F	31.8		8.6	
	72	F	29.7		11.9	
	73	F	34.2		10.9	
	74	F	28.5		6.0	
	75	F	30.0		7.6	
	76	F	34.4		11.0	
	77	F	31.8		8.8	
	78	F	32.2		9.1	
	79	F	32.9		9.1	
	80	F	32.3		9.4	SCALE 1-8

1970

Dworshak National Fish Hatchery
ADULT RECORD

1970 Date	Number	Sex	Length, fork Inches	~~Weight before Spawning, lb.~~	Weight after Spawning, lb.	REMARKS
5-11	81	F	33.0		10.8	
	82	F	33.0		9.7	
	83	F	32.2		9.1	
	84	F	33.8		11.3	
	85	F	32.8		9.3	
	86	F	34.2		10.5	
	87	F	31.2		8.6	
	88	F	32.8		9.7	
	89	F	34.9		11.2	
	90	F	34.4		11.0	SCALE 1-9
	91	F	34.2		10.4	
	92	F	33.0		10.9	
	93	F	34.0		10.3	
	94	F	33.5		10.3	Bad
	95	F	33.1		10.3	
	96	F	32.8		9.6	
	97	F	31.0		8.4	
	98	F	32.0		8.1	
	99	F	32.3		9.8	
	100	F	34.4		10.8	SCALE 1-10
	101	F	33.1		10.0	
	102	F	34.4		12.1	
	103	F	31.2		9.0	
	104	F	33.7		11.7	
	105	F	33.0		10.2	
	106	F	30.3		7.6	
	107	F	31.4		8.4	
	108	F	31.6		8.7	
	109	F	32.8		10.2	
	110	F	32.6		10.0	SCALE 1-11
	111	F	32.4		9.1	
	112	F	32.8		9.7	
	113	F	32.5		8.9	
	114	F	32.9		8.8	
	115	F	33.0		9.3	

Dworshak National Fish Hatchery
ADULT RECORD

1970 Date	Number	Sex	Length, fork Inches	~~Weight before Spawning, lb.~~	Weight after Spawning, lb.	REMARKS
5-11	116	F	34.3		12.3	
	117	F	34.6		10.3	
	118	F	33.2		10.8	
	119	F	30.8		8.2	
	120	F	33.7		11.3	— SCALE 1-12
	121	F	33.0		10.0	
	122	F	30.1		7.2	
	123	F	32.3		9.1	
	124	F	32.8		10.3	
	125	F	37.2		15.5	— SCALE 01-4 ✓
	126	F	32.6		9.2	
	127	F	33.0		10.2	
	128	F	32.1		9.1 (10.7)	— Adipose mutated scale #1
	129	F	34.6		11.1	
	130	F	30.9		7.6	— SCALE 1-13
	131	F	32.7		9.8	
	132	F	32.8		9.0	
	133	F	35.7		12.1	
	134	F	34.8		10.6	
	135	F	35.7		12.6	
	136	F	32.6		9.2	
	137	F	32.7		8.8	
	138	F	31.6		7.8	
	139	F	30.8		8.1	
	140	F	31.8		8.6	— SCALE 1-14
	141	F	34.0		10.8	
	142	F	30.9		7.5	
	143	F	34.0		10.1	
	144	F	36.5		11.6	
	145	F	32.0		10.1	
	146	F	33.2		9.7	
	147	F	32.1		9.4	
	148	F	32.0		8.4	
	149	F	33.2		10.5	
	150	F	32.1		9.2	— SCALE 1-15

Dworshak National Fish Hatchery
ADULT RECORD

1970 Date	Number	Sex	Length, fork Inches	~~Weight before Spawning, lb.~~	Weight after Spawning, lb.	REMARKS
5-11	151	F	32.4		10.0	
	152	F	31.1		8.7	
	153	F	29.3		6.5	
	154	F	33.6		11.4	
	155	F	33.5		11.7	
	156	F	30.0		7.4	
	157	F	34.0		10.6	
	158	F	34.2		11.7	
	159	F	32.2		9.8	
	160	F	32.7		9.3	— SCALE 1-16
	161	F	23.1		3.2	— SMALL
	162	F	35.4		11.5	
	163	F	33.4		10.8	
	164	F	30.8		8.1	
	165	F	33.7		9.8	
	166	F	31.9		10.1	
	167	F	33.8		10.7	
	168	F	34.1		12.1	
	169	F	34.1		10.6	
	170	F	31.0		8.5	— SCALE 1-17
	171	F	32.1		9.6	
	172	F	30.1		7.1	
	173	F	29.7		7.0	
	174	F	32.7		9.4	
	175	F	34.3		11.3	
	176	F	33.7		10.8	
	177	F	35.3		12.9	
	178	F	32.8		10.4	
	179	F	38.0		15.5	SCALE 01-5 ✓
	180	F	24.6		4.1	SCALE 1-18
	181	F	26.7		4.6	
	182	F	33.4		9.9	
	183	F	33.0		10.1	
	184	F	33.1		9.7	
	185	F	30.7		7.9	

Dworshak National Fish Hatchery
ADULT RECORD

1970 Date	Number	Sex	Length, fork Inches	~~Weight before Spawning, lb.~~	Weight after Spawning, lb.	REMARKS
5-11	186	F	29.8		6.7	
	187	F	30.1		7.6	
	188	F	33.8		9.9	
	189	F	32.2		8.7	
	190	F	32.9		7.5	— SCALE 1-19
	191	F	32.2		11.6	— GREEN
	192	F	30.3		8.4	
	193	F	33.7		11.1	
	194	F	31.2		9.0	
	195	F	32.7		10.2	
	196	F	37.3		14.0	— SCALE 01-6 ✓
	197	F	32.8		11.7	— GREEN
	198	F	33.2		9.6	
	199	F	31.7		8.9	
	200	F	32.0		8.5	— SCALE 1-20 END OF CARD-1-
	201	F	34.4		12.0	
	202	F	25.6		4.6	
	203	F	29.7		6.3	
	204	F	31.9		9.3	
	205	F	35.8		11.7	
	206	F	27.7		5.0	
	207	F	35.3		11.3	
	208	F	31.2		8.4	
	209	F	33.4		11.6	
	210	F	33.2		10.4	— SCALE CARD 2-1
	211	F	33.9		12.8	GREEN
	212	F	34.6		11.5	
	213	F	33.2		10.2	
	214	F	32.2		10.5	
	215	F	33.2		10.3	
	216	F	30.2		7.3	
	217	F	36.6		13.7	
	218	F	32.6		7.7	
	219	F	32.2		9.0	
	220	F	31.1		7.7	— SCALE -2-2 2

Dworshak National Fish Hatchery
ADULT RECORD

1970 Date	Number	Sex	Length, fork Inches	~~Weight before Spawning, lb.~~	Weight after Spawning, lb.	REMARKS
5-11	221	F	31.9		9.2	
	222	F	31.6		8.6	
	223	F	33.8		10.2	
	224	F	34.2		11.5	
	225	F	32.6		9.8	
	226	F	32.8		10.6	
	227	F	32.5		9.3	
	228	F	35.2		11.4	
	229	F	32.3		9.3	
	230	F	33.3		10.1	— SCALE 2-3
	231	F	32.5		9.6	
	232	F	32.7		9.6	
	233	F	31.3		9.0	
	234	F	30.0		7.6	
	235	F	31.9		8.2	
	236	F	31.5		8.1	
	237	F	34.2		11.8	
	238	F	34.4		11.7	
	239	F	33.7		10.5	
	240	F	30.3		7.6	— SCALE 2-4
	241	F	32.6		11.3	
	242	F	31.1		8.7	
	243	F	31.9		8.9	
	244	F	31.6		8.6	
	245	F	33.1		10.2	
	246	F	31.1		8.0	
	247	F	29.7		7.3	
	248	F	26.6		4.8	
	249	F	34.3		11.1	
	250	F	36.1		13.7	— SCALE 2-5
	251	F	34.7		11.2	
	252	F	34.5		11.5	
	253	F	33.5		10.6	
	254	F	33.4		10.6	
	255	F	33.2		10.3	
	256	F	33.2		10.1	
	257	F	32.0		8.7	
	258	F	34.2		12.7	
	259	F	32.8		10.6	
	260	F	30.9		8.1	— SCALE 2-6

Dworshak National Fish Hatchery

ADULT RECORD

1978 Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-11	261	F	32.8		9.6	
	262	F	30.9		8.6	
	263	F	30.3		8.5	
	264	F	32.5		9.4	
	265	F	33.2		10.5	
	266	F	35.2		11.8	
	267	F	33.7		9.5	
	268	F	33.2		10.1	
	269	F	32.6		9.2	
	270	F	32.7		9.6	SCALE 2-7
	271	F	31.1		8.6	
	272	F	33.1		10.7	
	273	F	31.8		8.7	
	274	F	33.0		9.6	
	275	F	39.3		16.4	SCALE 01-7 ✓
	276	F	32.6		10.0	
	277	F	32.6		9.2	
	278	F	32.1		9.7	
	279	F	34.1		10.1	
	280	F	34.7		8.2	
	281	F	33.8		11.2	SCALE 2-8
	282	F	32.8		8.5	Spawned out
	283	F	32.4		9.6	
	284	F	32.7		10.7	
	285	F	36.1		13.3	
	286	F	30.1		7.7	
	287	F	32.6		10.7	
	288	F	32.1		10.2	
	289	F	31.2		8.2	
	290	F	32.7		10.3	SCALE 2-9
	291	F	33.2		10.5	
	292	F	32.3		9.0	
	293	F	33.1		9.7	
	294	F	33.0		9.5	
	295	F	32.3		9.3	
	296	F	32.2		9.8	
	297	F	35.0		12.1	
	298	F	33.2		11.5	
	299	F	32.6		9.6	
	300	F	34.2		10.5	SCALE 2-10

Dworshak National Fish Hatchery
ADULT RECORD

1970 Date	Number	Sex	Length, fork Inches	~~Weight before Spawning, lb.~~	Weight after Spawning, lb.	REMARKS
5-11	301	F	35.8		11.2	
	302	F	29.9		7.3	
	303	F	32.4		9.8	
	304	F	32.1		8.8	
	305	F	33.7		10.2	
	306	F	35.5		12.4	
	307	F	23.4		3.7	
	308	F	31.8		9.3	
	309	F	34.1		12.0	
	310	F	32.5		9.8	— SCALE 211
	311	F	33.8		10.5	
	312	F	32.9		9.6	
	313	F	31.7		10.0	
	314	F	32.8		9.6	
	315	F	29.0		6.7	
	316	F	32.7		10.1	
	317	F	29.4		7.1	
	318	F	31.5		8.7	
	319	F	33.3		10.5	
	320	F	32.8		8.5	— SCALE 212
	321	F	31.6		9.4	
	322	F	34.0		11.1	
	323	F	33.0		9.9	
	324	F	30.3		7.9	
	325	F	32.2		9.3	
	326	F	34.2		10.6	
	327	F	29.7		6.9	
	328	F	31.8		8.7	
	329	F	31.8		9.5	
	330	F	34.1		11.0	— SCALE 2-13
	331	F	33.4		10.9	
	332	F	31.7		9.0	
	333	F	33.6		10.4	
	334	F	31.2		8.8	
	335	F	32.9		9.0	
	336	F	34.0		11.4	
	337	F	33.1		10.2	
	338	F	34.3		10.5	
	339	F	29.2		7.1	
	340	F	35.7		12.6	— SCALE 2-14

Dworshak National Fish Hatchery

ADULT RECORD

1970 Date	Number	Sex	Length, fork Inches	~~Weight before Spawning, lb.~~	Weight after Spawning, lb.	REMARKS
5-11	341	F	31.6		9.0	
	342	F	32.7		10.1	
	343	F	35.2		12.2	
	344	F	32.8		10.2	
	345	F	32.8		9.5	
	346	F	31.4		9.5	
	347	F	29.3		7.0	
	348	F	33.2		10.0	
	349	F	32.6		9.9	
	350	F	31.6		9.6	
	351	F	30.7		7.9	SCALE 2-15
	352	F	29.0		8.1	
	353	F	31.4		9.6	
	354	F	35.2		12.0	
	355	F	34.8		12.3	
	356	F	32.5		8.8	
	357	F	32.5		8.7	
	358	F	31.1		8.7	
	359	F	32.2		8.5	
	360	F	30.9		9.5	SCALE 2-16
	361	F	36.0		12.6	
	362	F	34.0		11.1	
	363	F	31.8		9.5	
	364	F	33.2		9.6	
	365	F	35.8		11.1	
	366	F	33.3		10.6	
	367	F	32.3		9.5	
	368	F	33.0		12.5	GREEN
	369	F	31.9		8.4	
	370	F	32.8		10.1	SCALE 2 SPAWNED-OUT
	371	F	35.3		12.5	
	372	F	31.9		9.4	
	373	F	31.3		8.1	
	374	F	31.0		9.0	
	375	F	34.1		11.7	
	376	F	33.8		10.8	
	377	F	34.2		13.6	GREEN
	378	F	30.8		7.7	
	379	F	28.6		6.9	
	380	F	24.2		4.0	SCALE 2-18

14339.8 / 439 = 33.04

4389.6 / 434 = 10.11

839
380
45 4

5-12-70 Take 2 Spring

Total	♀	451	= 14765.4" = 32.74	4463.1 lbs = 9.90
total	♂	3	110.9" = 36.97	55.1/3 = 18.37
Total	Fish	454		

Small ♀ 425.6" / 17 = 25.04

73.5 / 17 = 4.32

Small ♂ None

Green	4
Bad	1
Dead	2
Spawned out	0
Total Bad.	7

Total ♀	451
Total ♀ Spawn.	444

Marked Fish One Dorsal ✓

Tagged Fish OGC 00039

Dworshak National Fish Hatchery
ADULT RECORD

1970 Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-12-70	381	F	31.0		8.0	
	382	F	32.0		9.2	
	383	F	32.4		9.1	
	384	F	31.9		9.6	
	385	F	35.4		12.4	
	386	F	34.1		10.8	
	387	F	32.2		9.0	
	388	F	33.6		10.2	
	389	F	32.7		8.4	
	390	F	31.3		10.4	CHECKED BY WBH 11/13/78 IS IT 391 or 390? USE IT
	391	F	32.8			Scale 2-19
	392	F	32.6		10.0	
	393	F	31.9		9.2	
	394	F	31.8		8.8	
	395	F	33.7		10.6	
	396	F	33.2		9.8	
	397	F	30.8		8.1	
	398	F	35.6		12.3	
	399	F	31.8		8.7	
	400	F	34.2		10.8	Scale 2-20 end of card 2 green
	401	F	32.9		12.5	
	402	F	26.3		4.6	
	403	F	32.2		9.7	
	404	F	33.2		9.6	
	405	F	29.9		8.0	
	406	F	30.8		8.1	
	407	F	33.1		10.1	
	408	F	32.9		9.7	
	409	F	31.3		7.9	
	410	F	33.2		10.2	Scale 3-1
	411	F	33.2		10.0	
	412	F	31.1		8.6	
	413	M	34.2		13.6	
	414	F	32.1		9.2	
	415	F	34.0		11.2	

Dworshak National Fish Hatchery
ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-12-70	416	F	33.4		9.3	
	417	F	32.7		9.4	
	418	F	31.8		9.4	
	419	F	33.0		10.1	
	420	F	34.2		11.3	Scale 3-2
	421	F	35.4		12.2	
	422	F	34.8		11.3	
	423	F	31.4		8.8	
	424	F	32.5		9.4	
	425	F	32.6		9.3	
	426	F	30.3		8.3	
	427	F	34.5		11.9	
	428	F	33.2		10.7	
	429	F	29.1		7.2	
	430	F	31.8		8.5	Scale 3-3
	431	F	29.2		7.8	
	432	F	24.0		3.8	
	433	F	29.2		6.3	
	434	F	33.2		9.2	
	435	F	25.2		4.3	
	436	F	25.2		4.8	
	437	F	28.2		6.1	
	438	F	35.6		13.3	
	439	F	32.3		9.7	
	440	F	35.0		11.2	Scale 3-4
	441	F	34.7		12.1	
	442	F	34.0		12.1	
	443	F	33.8		11.2	
	444	F	31.6		8.3	
	445	F	32.0		9.1	
	446	F	34.1		10.5	
	447	F	33.2		11.1	
	448	F	32.3		9.3	
	449	F	30.8		7.5	

Dworshak National Fish Hatchery

ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5/12/70	450	F	35.5		12.6	Scale 3-5
	451	F	34.3		11.9	
	452	F	34.0		11.0	
	453	F	31.4		8.6 (10.1)	Dorsal Missed Scale #2
	454	F	32.3		9.9	
	455	F	36.4		13.3	
	456	F	32.8		9.2	
	457	F	32.4		10.6	
	458	F	35.4		12.7	
	459	F	30.0		7.8	
	460	F	32.1		9.8	Scale 3-6
	461	F	33.9		11.9	
	462	F	30.1		7.0	
	463	F	31.9		10.1	
	464	F	33.6		10.3	
	465	F	31.2		8.5	
	466	F	31.1		8.6	
	467	F	34.7		11.4	
	468	F	32.2		9.3	
	469	F	33.1		10.1	
	470	F	32.3		8.9	Scale 3-7
	471	F	32.6		10.3	
	472	F	34.2		11.1	
	473	F	33.0		10.2	
	474	F	34.5		11.7	
	475	F	31.7		8.7	
	476	F	29.8		9.1	green
	477	F	32.8		9.7	
	478	F	31.2		9.1	
	479	F	32.2		9.7	
	480	F	32.2		9.6	Scale 3-8
	481	F	34.3		10.8	
	482	F	31.7		8.7	
	483	F	33.3		9.6	
	484	F	33.6		10.7	
	485	F	32.3		10.2	

Dworshak National Fish Hatchery

ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5/12/70	486	F	34.4		11.4	
	487	F	32.7		10.4	
	488	F	33.2		9.9	
	489	F	33.1		10.6	
	490	F	33.2		9.4	Scale 3-9
	491	F	33.0		11.0	
	492	F	34.3		11.6	
	493	F	33.7		11.1	
	494	F	33.0		10.9	
	495	F	34.7		11.6	
	496	F	34.2		11.1	
	497	F	35.0		12.7	
	498	F	33.2		10.3	
	499	F	32.8		10.4	
	500	F	30.2		7.7	SCALE 3-10
	501	F	34.3		11.3	
	502	F	31.0		8.7	
	503	F	32.1		9.0	
	504	F	33.9		11.5	
	505	F	34.6		12.9	
	506	F	33.3		10.5	
	507	F	31.1		9.1	
	508	F	33.0		9.8	
	509	F	34.6		11.1	
	510	F	34.3		11.5	SCALE 3-11
	511	F	34.0		10.1	
	512	F	29.5		6.4	
	513	F	33.7		12.1	
	514	F	32.0		9.4	
	515	F	33.7		10.0	
	516	F	24.3		3.9	
	517	F	32.9		10.1	
	518	F	31.4		8.6	
	519	F	34.0		10.6	
	520	F	36.6		14.0	SCALE 3-12

Dworshak National Fish Hatchery

ADULT RECORD

1970 Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-12-70	521	F	28.7		6.2	
	522	F	34.2		10.5	
	523	F	33.2		11.0	
	524	F	32.0		8.7	
	525	F	36.0		13.3	
	526	F	24.2		4.3	
	527	F	30.9		8.0	
	528	F	30.3		8.8	
	529	F	31.3		8.7	
	530	F	32.3		10.2	SCALE 3-13
	531	F	34.3		10.8	
	532	F	25.7		4.3	
	533	F	35.2		12.7	
	534	F	33.0		9.2	
	535	F	33.1		10.8	
	536	F	25.4		4.4	
	537	F	33.9		12.3	
	538	F	34.7		11.2	
	539	F	33.7		10.5	
	540	F	35.0		11.5	SCALE 3-14
	541	F	30.2		7.6	
	542	F	32.8		11.1	
	543	F	24.8		4.0	
	544	F	31.8		8.4	
	545	F	33.2		10.3	
	546	F	33.5		10.9	
	547	F	33.0		10.0	
	548	F	32.0		9.1	
	549	F	33.4		10.8	
	550	F	32.2		9.4	SCALE 3-15
	551	F	34.1		10.8	
	552	F	31.2		8.4	
	553	F	35.1		11.3	
	554	F	35.2		12.1	
	555	F	34.8		11.9	
	556	F	33.8		11.3	
	557	F	30.2		7.7	
	558	F	35.2		13.4	

Dworshak National Fish Hatchery
ADULT RECORD

1970 Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-12-70	559	F	33.3		10.0	
	560	F	32.0		8.8	SCALE 3-16
	561	F	33.8		10.5	
	562	F	32.3		10.5	
	563	F	34.0		11.6	
	564	F	32.5		10.0	
	565	F	32.8		10.7	GREEN
	566	F	30.8		7.5	[redacted]
	567	F	39.6		19.1	SCALE 01-8 ✓
	568	F	32.7		9.6	
	569	F	36.7		14.7	
	570	F	32.2		8.8	SCALE 3-17
	571	F	31.4		8.3	
	572	F	33.6		10.1	
	573	F	33.7		10.9	
	574	F	32.8		10.3	
	575	F	33.3		10.0	
	576	F	32.0		10.1	
	577	F	33.5		10.8	
	578	F	31.4		9.7	
	579	F	36.2		13.5	
	580	F	33.3		12.0	SCALE 3-18
	581	F	28.9		6.7	
	582	F	35.0		12.7	
	583	F	32.1		9.8	
	584	F	35.4		11.4	
	585	F	31.7		9.1	
	586	F	35.6		12.1	
	587	F	32.3		9.2	
	588	F	27.3		6.1	
	589	F	30.5		7.7	
	590	F	31.0		9.1	SCALE 3-19
	591	F	34.2		11.0	
	592	F	31.1		8.2	
	593	F	32.7		10.0	
	594	F	32.3		9.3	
	595	F	30.3		7.8	
	596	F	32.7		9.5	

Dworshak National Fish Hatchery
ADULT RECORD

1970 Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-12-70	597	F	32.2		9.6	
	598	F	33.2		10.7	
	599	F	33.8		10.9	
	600	F	31.0			SCALE 3-20
	601	F	30.1		8.4	
	602	F	32.0		10.2	
	603	F	32.6		9.8	
	604	F	34.8		12.1	
	605	F	33.2		11.8	
	606	F	34.2		11.6	
	607	F	37.6		15.5	SCALE 01-9 ✓
	608	F	30.7		8.3	
	609	F	32.0		9.0	
	610	F	35.1		11.8	SCALE 4-1
	611	F	33.8		10.9	
	612	F	31.2		8.8	
	613	F	31.8		9.2	
	614	F	32.5		9.3	
	615	F	31.0		8.2	
	616	F	34.0		10.7	
	617	F	35.5		12.0	
	618	F	32.5		10.0	
	619	F	35.0		12.2	
	620	F	33.0		10.1	SCALE 4-2
	621	F	33.1		9.7	
	622	F	33.3		10.3	
	623	F	33.3		10.0	
	624	F	34.1		11.6	
	625	F	31.5		8.2	
	626	F	33.3		11.0	
	627	F	34.2		11.7	
	628	F	33.4		10.5	
	629	F	31.8		8.7	
	630	F	35.6		12.1	SCALE 4-3
	631	F	33.0		10.6	
	632	F	32.1		9.0	
	633	F	33.2		11.4	
	634	F	32.3		9.4	

Dworshak National Fish Hatchery

ADULT RECORD

1970 Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-12-70	635	F	33.6		10.6	
	636	F	32.1		9.1	
	637	F	29.8		7.6	
	638	F	31.0		8.6	
	639	F	35.7		13.2	
	640	F	33.8		10.0	SCALE 9-4
	641	F	36.9		14.3	
	642	F	34.3		12.2	
	643	F	31.2		8.1	
	644	F	33.4		11.1	
	645	F	33.5		11.1	
	646	F	31.9		9.3	
	647	F	32.4		9.7	
	648	F	31.8		9.1	
	~~649~~	~~F~~				

Dworshak National Fish Hatchery
ADULT RECORD

1970 Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-12-70	649	F	31.5		8.6	
	650	F	32.6		9.5	SCALE 4-5
	651	F	31.5		9.7	
	652	F	30.2		8.2	
	653	F	32.0		10.4	
	654	F	34.2	Stup	10.9	
	655	F	34.9		12.6	
	656	F	33.2		10.3	
	657	F	32.1		8.6	
	658	F	32.8		9.4	
	659	F	37.6		13.3	SCALE 01-10 ✓
	660	F	33.5		10.3	SCALE 4-6
	661	F	33.3		10.2	
	662	F	34.1		11.6	
	663	F	34.2		11.1	
	664	F	30.8		7.8	
	665	F	34.6		11.4	
	666	F	32.9		11.8	
	667	F	33.7		11.0	
	668	F	33.2		11.0	
	669	F	33.1		10.2	
	670	F	29.8		7.3	SCALE 4-7
	671	F	32.3		9.7	
	672	F	33.2		10.2	
	673	F	33.8		10.4	
	674	F	33.0		9.6	
	675	F	30.1		7.6	
	676	F	30.5		8.6	
	677	F	34.4		12.3	
	678	F	34.0		10.6	
	679	F	32.2		9.1	QRC. A.C. 00039 (02) (SCALE) 4-8
	680	F	34.8		10.7	
	681	F	31.0		9.5	
	682	F	30.1		7.7	
	683	F	32.8		10.2	
	684	F	30.7		8.3	

Dworshak National Fish Hatchery
ADULT RECORD

1970 Date	Number	Sex	Length, fork Inches	~~Weight before Spawning, lb.~~	Weight after Spawning, lb.	REMARKS
5-12-70	685	F	31.6		9.2	
	686	F	34.0		10.7	
	687	F	34.2		12.7	
	688	F	33.3		10.4	
	689	F	33.1		10.1	
	690	F	34.0		11.7	SCALE 4-9
	691	F	30.4		8.7	
	692	F	32.1		9.0	
	693	F	34.8		12.1	
	694	F	31.9		9.3	
	695	F	33.8		10.1	
	696	F	33.2		9.6	
	697	F	34.2		11.4	
	698	F	34.1		11.7	
	699	F	34.2		11.9	
	700	F	32.8		10.8	SCALE 4-10
	701	F	33.0		10.0	
	702	F	33.9		11.1	
	703	F	34.8		12.0	
	704	F	32.3		10.3	
	705	F	30.2		7.9	
	706	F	33.2		11.3	
	707	F	32.1		9.1	
	708	F	33.0		10.7	
	709	F	31.8		8.8	
	710	F	36.0		12.1	SCALE 4-11
	711	F	32.5		10.0	
	712	F	34.0		11.2	
	713	F	37.4		14.8	SCALE 01-11 ✓
	714	F	25.0		4.2	
	715	F	30.2		7.0	
	716	F	25.6		5.2	
	717	F	31.5		8.3	
	718	F	33.0		10.4	
	719	F	35.1		11.9	

Dworshak National Fish Hatchery

ADULT RECORD

1970 Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-12-70	720	F	34.2		11.4	SCALE 4-12
	721	F	32.1		8.5	
	722	F	32.1		9.7	
	723	F	32.6		10.8	
	724	F	33.1		9.2	
	725	F	33.1		10.6	
	726	F	30.2		7.2	
	727	F	26.1		4.9	
	728	F	33.6		12.1	
	729	F	32.1		8.3	
	730	F	31.4		8.8	SCALE 4-13
	731	F	34.2		11.0	
	732	F	31.8		9.1	
	733	F	33.8		11.4	
	734	F	32.8		10.3	
	735	F	33.0		10.2	
	736	F	32.7		10.2	
	737	F	33.2		10.1	
	738	F	32.8		8.4	
	739	F	33.3		10.2	
	740	F	23.5		3.6	SCALE 4-14
	741	F	34.7		13.4	
	742	F	26.0		4.5	
	743	F	24.3		3.6	
	744	F	33.0		10.1	
	745	F	32.0		9.0	
	746	F	32.0		8.6	
	747	F	35.3		13.0	
	748	F	33.1		10.1	
	749	F	35.2		11.7	
	750	F	34.2		11.3	SCALE 4-15
	751	F	33.2		10.6	
	752	F	34.1		11.1	
	753	F	31.9		9.1	
	754	F	31.0		8.1	
	755	F	29.2		6.1	

Dworshak National Fish Hatchery
ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-12-	756	F	35.8		11.0	
	757	F	32.6		9.4	
	758	F	27.8		6.3	
	759	F	33.0		10.4	
	760	F	31.9		8.8	SCALE
	761	F	34.1		9.5	GREEN 4-16
	762	F	31.6		8.3	
	763	F	31.1		10.7	
	764	F	30.8		8.0	
	765	F	33.0		9.9	
	766	F	31.7		9.0	
	767	F	34.3		10.7	
	768	F	35.1		10.9	
	769	F	31.7		8.5	
	770	F	34.2		11.3	SCALE 4-17
	771	F	34.3		11.7	
	772	F	36.1		13.7	
	773	F	35.5		13.0	
	774	F	29.5		8.1	
	775	F	33.0		9.9	
	776	F	30.3		8.6	
	777	F	34.2		13.0	
	778	F	32.7		10.1	
	779	F	33.1		10.0	
	780	F	33.2		10.2	SCALE 4-18
	781	F	33.3		11.0	
	782	F	27.0		4.7	
	783	F	31.1		7.8	
	784	F	32.1		9.3	
	785	F	32.6		10.4	
	786	F	33.1		9.0	
	787	F	35.0		11.4	
	788	F	35.8		12.7	
	789	F	24.0		4.2	
	790	F	32.9		9.4	SCALE 4-19

Dworshak National Fish Hatchery
ADULT RECORD

1970 Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-12-70	791	F	32.7		10.1	
	792	F	35.0		12.4	
	793	F	34.5		~~13.0~~	Dead
	794	F	33.3		11.2	~~Broken~~ Bad
	795	F	29.5		7.2	
	796	F	33.5		10.9	
	797	F	32.1		9.7	
	798	F	30.1		8.4	
	799	F	33.7		10.6	
	800	F	33.6		10.5	Scale 4-20
	801	F	26.0		4.9	
	802	F	36.8		13.4	
	803	F	32.5		10.3	
	804	F	35.8		14.2	
	805	F	32.0		9.2	
	806	F	37.3		14.3	Scale 01-12 ✓
	807	F	35.1		11.4	
	808	F	33.2		10.5	
	809	F	31.0		8.3	
	810	F	33.1		9.9	Scale 5-1
	811	F	32.8		10.1	
	812	F	33.3		9.2	
	813	F	31.3		7.8	
	814	F	30.5		8.4	
	815	F	30.1		7.5	
	816	F	29.9		7.4	
	817	F	33.0		9.8	
	818	F	31.9		8.1	
	819	F	31.2		7.7	
	820	F	34.8		11.8	Scale 5-2
	821	F	33.0		11.0	
	822	F	32.1		8.4	
	823	F	37.8		14.7	1-13 ?
	824	F	33.0		10.5	
	825	F	34.8		11.2	
	826	F	33.7		11.8	
	827	F	31.2		7.7	

Dworshak National Fish Hatchery

ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-12	828	M	34.5		13.0	
	829	F	35.2		15.3	
	830	F	29.4		6.5	SCALE 5-3
	831	F	34		11.4	
	832	F	32.1		9.3	
	833	F	33		9.4	D.I.P.
	834	M	42.2		~~28.0~~	01-13 ✓

♂ $\frac{240.9}{7} = 34.41''$ $\frac{224}{7} = 13.91$

♀ $\frac{7619.6}{235} = 34.42$ $\frac{2297.9}{235} = 9.78$

5-13-70 Trap 3 Fall

Total ♀	267	8408.1" = 31.49"	2428.7 lbs = 9.10	
Total ♂	8	265.9" = 33.24	102.1 = 12.76	
Total Fish	275			

Small ♀ $\frac{788.5}{32} = 24.64$ $\frac{130.8}{32} =$ 4.09

Small ♂ $\frac{85.0}{1} = 85.0$ $\frac{4.7}{1} =$ 4.7

Green	4
Bad	1
Dead	—
Spawned out	1
Total Bad.	6

Total ♀	267
total ♀ Spawned.	261

Marked Fish - None

Tagged Fish None.

Dworshak National Fish Hatchery

ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-13	835	F	34.1		10.9	
	836	F	34.2		10.7	
	837	F	32.5		11.2	
	838	F	33.2		12	
	839	F	32.7		11	
	840	F	32		10.1	scale 5-4
	841	F	33.4		11	
	842	F	33.6		10.5	
	843	F	25.6		4.7	
	844	F	23.8		3.5	
	845	F	26.2		5.1	
	846	F	28.3		6.4	
	847	F	36.3		14.2	
	848	F	30.2		7.6	
	849	F	32.9		10.3	
	850	F	32.6		9.2	Scale 5-5
	851	F	32.9		10.4	
	852	F	33.8		10.1	
	853	F	36.5		13.9	
	854	F	34.2		11.8	
	855	F	30.2		8.1	
	856	F	30.9		8.3	
	857	F	32.7		9.9	
	858	F	33.1		10.5	
	859	F	31.5		8.6	
	860	F	31.1		8	Scale 5-6
	861	F	33		10.7	
	862	F	34.2		11.3	
	863	F	32.3		9.9	
	864	F	32.5		9.6	
	865	F	33.1		12.	
	866	F	38.2		14.3	01-14 scale ✓
	867	F	33		10.2	
	868	F	35		9.7	
	869	F	31.2		8.2	
	870	F	33.5		11.2	Scale 5-7
	871	F	31.4		9.4	

Dworshak National Fish Hatchery

ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-13	872	F	26		4.3	
	873	F	32.4		10.7	
	874	F	28		7	
	875	F	34.3		11.9	
	876	F	27.5		5.8	
	877	F	32.5		9.8	
	878	F	33.3		11.9	
	879	F	33.3		9.8	
	880	F	33.2		10.8	Scale 5-8
	881	F	32.7		9.6	
	882	F	33.7		10.8	
	883	F	31.9		8.7	
	884	F	32.1		8.7	
	885	F	32		9.2	
	886	F	31.3		8.2	
	887	F	33.2		10.6	
	888	F	31.7		8.8	
	889	F	33.5		11.3	
	890	F	32.8		9.8	Scale 5-9
	891	F	32		9.5	
	892	F	33		10.3	
	893	F	31		8.9	
	894	F	32.8		9.9	
	895	F	33.9		10.7	
	896	F	32.5		10	
	897	F	32.6		9.7	
	898	F	32.4		9.5	
	899	F	33.6		11.2	
	900	F	34.2		10.4	Scale 5-10
	901	F	34.6		11.2	
	902	F	30.8		8.5	
	903	F	31		8.4	
	904	F	25.1		5.2	greenly
	905	F	33.2		10.4	
	906	F	31.5		8.4	
	907	F	25.7		4.5	

Dworshak National Fish Hatchery

ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-13	908	F	34.8		11.3	
	909	F	33.2		10.4	
	910	F	35.2		13.3	Scale 5-14
	911	F	26.6		5.1	
	912	F	26.4		5.3	
	913	F	31.8		9.6	
	914	F	32.5		10.4	
	915	F	34.5		12.2	
	916	F	34.2		10.3	
	917	F	33.2		11.5	
	918	F	34.2		8.7	
	919	F	34.8		11.9	
	920	F	35.3		12.3	Scale 5-12
	921	F	34.8		13.1	
	922	F	24.9		4.5	
	923	F	23.5		3.3	
	924	F	33.2		10.6	
	925	F	32.4		9.7	
	926	F	29.1		7.2	
	927	F	34.1		11.5	
	928	F	33.1		10.3	
	929	F	32.5		9.2	
	930	F	32.8		10.1	Scale 5-13
	931	F	32.8		10.8	
	932	F	30		8.1	
	933	F	33.8		10.5	
	934	F	31		8.3	
	935	F	32.5		9.3	
	936	F	34.2		9.6	
	937	F	35.5		12.3	
	938	F	30.2		8.6	
	939	F	32.4		9.9	
	940	F	33.7		11.4	Scale 5-14
	941	F	31.9		9.4	
	942	F	30.3		8.1	
	943	F	31.8		9.4	

Dworshak National Fish Hatchery
ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-13	944	F	32.8		9.3	
	945	F	30.2		7.7	
	946	F	33		9.4	
	947	F	34.2		10.5	
	948	F	31.3		7.8	
	949	F	31.7		9	
	950	F	34.2		10	Scale 5-15
	951	F	30.5		7.4	
	952	F	33.		10.1	
	953	F	34.3		10.5	
	954	F	30.9		9.1	
	955	F	33.2		9.9	
	956	F	24.		3.6	
	957	F	34.2		10.5	
	958	F	21.6		2.3	
	959	F	32.9		10.2	
	960	F	33.5		10.5	Scale 5-16
	961	F	32		8.8	
	962	F	33.1		10.2	
	963	F	34.4		11.3	
	964	F	32.4		8.7	
	965	F	32		9.2	
	966	F	34.3		12.8	
	967	F	32.1		8.7	
	968	F	35.1		11.2	
	969	F	32.2		9.6	
	970	F	32.3		2.9	scale 5-17
	971	F	35.1		12.4	
	972	F	32.8		11.3	
	973	F	35.1		11.5	
	974	F	33		10.1	
	975	F	34.1		11.7	
	976	F	35		12	
	977	F	31.8		9.4	
	978	F	33		10.7	
	979	F	32.2		8.5	
	980	F	33.0		8.7	scale 5-18

Dworshak National Fish Hatchery

ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-13	981	F	30.7		8.1	
	982	F	33.5		11.3	
	983	F	32.6		9.5	
	984	F	28.6		5.4	
	985	F	33.3		10.9	
	986	F	32		9.6	
	987	F	35.4		11	
	988	F	33		9.7	
	989	F	33.5		10.9	
	990	F	23.7		3.6	Scale 5-19 green
	991	F	34.3	13.4	12.2	
	992	F	35		11	
	993	F	32.8		10.7	
	994	F	33.9		9	
	995	F	30.9		11.2	
	996	F	33.6		11	
	997	F	33.4		7.6	
	998	F	31.2		9.3	
	999	F	33.4		11	Scale 5-20
	1000	F	33.5		10	
	1001	F	33.6		9.3	
	1002	F	31		8.9	
	1003	F	31.5		9.7	
	1004	F	32.1		12.3	
	1005	F	34.6		9.4	
	1006	F	32.3		6	
	1007	F	28.2		9.8	
	1008	F	33		3.9	
	1009	F	23.9		11.8	Scale 6-1
	1010	F	34.9		4	
	1011	F	24.7		11.3	
	1012	F	34.4		9.2	
	1013	F	32.3		10.7	
	1014	F	32.5		10.6	
	1015	F	33.6		9.8	
	1016	F	32.8		4.8	
	1017	F	25.8		11.6	
	1018	F	34.9		10	
	1019	F	32		10.6	Scale Bad 6-2
	1020	F	32.2			

Dworshak National Fish Hatchery

ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-13	1021	F	32.8		9.7	
	1022	F	31.4		9.1	
	1023	F	26		4.6	
	1024	F	33.4		10.6	
	1025	F	33.5		9.7	
	1026	F	31.6		8.7	
	1027	F	33.1		10.5	
	1028	F	30.7		7.9	
	1029	F	32.6		10.3	
	1030	F	32.2		9	scale 6-3
	1031	F	24.4		4.1	
	1032	F	36.8	14	9.1	green
	1033	F	32.6		10.8	
	1034	F	32.8		8.9	
	1035	F	31.7		10.4	
	1036	F	34.1		9.2	
	1037	F	32.4		5.3	
	1038	F	26.4		5.1	
	1039	F	27		4.4	scale 6-4
	1040	F	26.2		20.1	01-15
	1041	M	39.5		13	
	1042	M	33.7		9.6	
	1043	F	32		10	
	1044	F	32.5		7.8	
	1045	F	30.1		12.1	
	1046	F	33.7		10.3	
	1047	F	32.8		10.7	
	1048	F	33.3		16.8	01-16
	1049	F	39.5		7.7	scale 6-5
	1050	F	29.3		9.6	
	1051	F	33.2		10	
	1052	F	32.5		10.1	
	1053	F	32.4		8.7	
	1054	F	31.7		12.5	
	1055	F	36.1		12	
	1056	F	33.2		13.9	
	1057	F	35.5		10	
	1058	F	34.5		8.8	scale 6-6
	1059	F	32		10	
	1060	F	31.4			

Dworshak National Fish Hatchery

ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-13	1061	F	33.2		10.7	
	1062	F	30.8		8.3	
	1063	F	31.5		10.1	
	1064	F	31.2		9.2	
	1065	F	26		4.4	
	1066	F	24.2		4.2	
	1067	F	25.2		4.7	
	1068	F	30.9		7.8	
	1069	F	33.1		10.7	
	1070	F	34.5		11.3	Scale 6-7
	1071	F	34		9.7	
	1072	F	31.8		8.7	
	1073	F	33.2		9.4	
	1074	F	31.7		8.5	
	1075	F	33		10.2	
	1076	F	32.8		9.6	
	1077	F	33.2		11	
	1078	F	30.8		8.3	
	1079	F	32.2		9.1	scale 6-8
	1080	F	32.9		9.4	
	1081	F	25.7		5.1	
	1082	F	23.3		3.4	
	1083	F	24.1		3.4	
	1084	F	33.4		11.2	
	1085	F	30.5		7.8	
	1086	F	35.2		12.6	
	1087	F	33.2		10.9	
	1088	F	32.9		8.8	
	1089	F	31.7		9.5	
	1090	F	35		11.5	Scale 6-9
	1091	F	27.4		5	
	1092	F	30.8		7.8	
	1093	F	31.5		8.2	
	1094	F	28.3		6.4	
	1095	F	21		2.4	sponded out
	1096	F	21.8		2.7	
	1097	F	25.3		3.8	
	1098	F	29.5		6.8	
	1099	F	27		5.2	
	1100	F	33.4		10.2	Scale 6-10
	1101	F	28		5.8	

Dworshak National Fish Hatchery

ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
513	1102	M	34.2		14	
	1103	M	25		4.7	
	1104	F	25.6	5.4	4.7	green
	1105	M	34.4		12.5	
	1106	F	23		3	
	1107	M	35		14.1	
	1108	M	28.5		7.9	
	1109	M	35.6		15.5	

$\frac{5302.3}{169} = 32.33$ $\frac{1631.7}{169} = 9.95$

5-18-70 Trap 4 Spring

Total	♀	166	5354.1" = 32.25"	1640.7 = 9.88
Total	♂	18	646.9" = 35.94"	272.2 = 15.12
Total	Fish	184		

Small ♀ $\frac{51.8}{2} = 25.9"$ $\frac{9.0}{2} = 4.5$

Small ♂ None.

Green	2
Bad	1
Dead	0
Spawned Out	0
Total Bad.	3

Total ♀	166
Total ♀ Spawned	163

Marked Fish one Adipose ✓

Tagged Fish — None.

Spawn

Dworshak National Fish Hatchery
ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-18	1110	F	35.2		11.1	Scale 6-11
	1111	F	33.1		10.6	
	1112	F	31.8		8.9	
	1113	F	33.6		11	
	1114	F	32.6		9.6	
	1115	F	33.9		10.8	
	1116	F	30.3		8.3	
	1117	F	34.8		12	
	1118	F	32		9.3	
	1119	F	31.7		8.5	
	1120	F	34.2		11	Scale 6-12
	1121	F	34.8		13.4	
	1122	F	31.6		9.5	
	1123	F	34.1		10.2	
	1124	F	31.5		8.3	
	1125	F	36		12.2	
	1126	F	32		10.2	
	1127	F	33.8		10.1	
	1128	F	34.3		12.9	
	1129	F	33.9		9.9	
	1130	F	38.5		15.5	Scale 6-13
	1131	F	35.7		12.8	
	1132	F	35		12.9	
	1133	F	32.9		9.6	
	1134	F	35.6		11.5	
	1135	F	35		12	
	1136	F	32		9.3	
	1137	F	32.1		9.6	
	1138	F	31.9		8.7	
	1139	F	33.1		11	
	1140	F	33.1		10.2	Scale 6-14
	1141	F	33.1		10.4	
	1142	F	32.7		10	
	1143	F	32.6		10.2	
	1144	F	30.9		7.4	
	1145	F	32.9		8.9	
	1146	F	31		8.5	
	1147	F	35.4		12.9	
	1148	F	33.4		9.6	
	1149	F	34.1		12.3	
	1150	F	32.2		8.9	Scale 6-15

Dworshak National Fish Hatchery

ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-18	1151	F	32.5		9.4	
	1152	F	34.8		11.8	
	1153	F	32.5		10.1	
	1154	F	33		9.8	
	1155	F	30.2		7.3	
	1156	F	34.2		12.2	
	1157	F	32.3		9	
	1158	F	34		11.4	
	1159	F	33.2		10.4	
	1160	F	35		13	scale 6-16
	1161	F	32.9		10.4	
	1162	F	25		4.6	
	1163	F	34.2		11.6	
	1164	F	35		10.5	
	1165	F	33.3		10.2	
	1166	F	33.5		10.7	
	1167	F	32.4		9.5	
	1168	F	35.4		12.7	
	1169	F	26.8		[illegible]	
	1170	F	34.2		11.5	scale 6-17
	1171	F	32.3		8.7	
	1172	F	31.8		10	
	1173	F	34.5		10.8	Scale 6-17
	1174	M	39.1		15	Kleen
	1175	F	35.5	13.6	10.1	
	1176	F	32.5		9.1	
	1177	F	30.7		8.2	
	1178	F	32.4		9.3	
	1179	F	33.2		11	
	1180	F	30		7	scale 6-18
	1181	F	32.8		9.5	
	1182	F	33		9.4	
	1183	F	32.9		9.5	
	1184	F	32		10.1	
	1185	F	32	11.6	10.0	Bad
	1186	F	31.9		9	
	1187	F	32.8		10.7	
	1189	F	33.1		10.5	
	1190	F	32.2		10.2	scale 6-19
	1191	F	32.8		10.2	
	1192	F	31.3		9	
	1193	F	31.3		9.2	
	1194	F	32.6		10	
	1195	F	33.8		12.1	

Dworshak National Fish Hatchery
ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-18	1196	F	33.1		10.7	
	1197	F	37.5		14.2	0-18
	1198	F	37.6		9.4	
	1199	F	32.5		8.5	
	1200	F	30.5		8.3	scale 6-20
	1201	F	32.4		9.3	
	1202	F	32.6		10.3	
	1203	F	33.2		9.7	
	1204	F	32.1		9.7	
	1205	F	33.1		10.8	
	1206	F	32.1		9.1	
	1207	F	32.2		9.3	scale 0-19
	1208	M	37.5		16.2	
	1209	M	35.2		14.1	
	1210	M	36.5		15.7	scale 7-1
	1211	F	34		10.2	
	1212	F	29.8		8.2	
	1213	F	32.4		9.7	
	1214	F	33.8		12.2	
	1215	F	32.7		9.9	
	1216	F	32.5		10	
	1217	F	32		10.1	
	1218	F	30.8		8.1	
	1219	F	34.2		10.7	
	1220	F	34.1		11.3	scale 7-2
	1221	M	[illegible]		23	scale 0-20
	1222	M	35.2		15.4	
	1223	F	32.1		9.6	
	1224	F	31.9		9.5	
	1225	F	33.5		11.5	
	1226	F	34.2		11.6	
	1227	F	32.8		10.8	
	1228	F	33.6		10	
	1229	F	33.6		9.9	
	1230	M	29.4		7.7	scale Ad 7-3
	1231	F	33.6		10.2	
	1232	F	33.5		10.7	
	1233	F	27.2		5.8	
	1234	F	32.6		8.9	
	1235	F	31.		9.5	
	1236	F	33.2		10.6	
	1237	F	33.2		10.6	
	1238	F	32.8		10.9	
	1239	F	32.6		10.3	
	1240	F	32.8		9.7	scale 7-4

Springs

Dworshak National Fish Hatchery
ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-18	1241	F	34.8		12.5	
	1242	F	36.1		13.5	
	1243	M	35.8		14.4	
	1244	F	34.2		10.3	
	1245	F	33.3		11	
	1246	F	30.1		7.8	
	1247	F	33.5		11	
	1248	F	33		9.6	
	1249	F	36.9		12.9	
	1250	F	33.3		11.5	Scale - 7-5
	1251	F	33.2		11	
	1252	F	32.2		10.3	
	1253	F	32.8		10.6	
	1254	F	31.7		8.8	
	1256	M	34.9		15.2	
	1256	F	32		9.2	
	1257	F	33.1		10.4	
	1258	F	30.2	9.3	7.0	Green
	1259	F	34.5		11.7	
	1260	F	31.6		8.6	Scale 7-6
	1261	F	32.7		8.8	
	1262	F	32		8.3	
	1263	F	33.3		10.5	
	1264	F	32.1		9.2	
	1265	F	32.6		9.7	
	1266	F	31.4		8.2	
	1267	F	33.2		11.5	
	1268	M	35.2		13.9	
	1269	F	32.6		8.9	
	1270	F	35.5		11.6	Scale 7-7
	1271	F	33		10.2	
	1272	F	32.3		11	
	1273	M	33		11	
	1274	M	33.2		12.6	
	1275	M	34.2		14.5	
	1276	M	36		15	
	1277	F	32.5		9.4	
	1278	F	32.1		8.6	
	1279	F	31.8		8.1	
	1280	F	32.5		9.5	Scale 7-8
	1281	F	29.5		7.3	
	1282	M	36.2		13.8	
	1283	F	27.2		6	

Dworshak National Fish Hatchery

ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
	1284	F	33.5		9.7	
	1285	F	36		13.2	
	1286	F	34.1		11.1	
	1287	F	33.1		10.4	
	1289	F	31.2		8.3	
	1290	M	36.2		16.6	scale 7-9
	1291	M	39.8		18.3	2-1
	1292	F	31.5		9.	[redacted]
5-18	1293	M	38		16.8	

♀ $\frac{10336.5}{321} = 32.20''$ $\frac{3192.7}{321} = 9.79$

5-25-70 Take 5 Spring

Total	♀	~~326~~ 346	10970.2" = 31.71	3261.3 = 9.43
Total	♂	67	2176.6 = 32.49	761.9 = 11.37
Total	Fish	~~395~~ 413		

small ♀ $\frac{633.7}{25} = 25.35$ $\frac{117.6}{25} = 4.70$

Green	IIII IIII II	12	small ♂ $\frac{2589}{10} = 25.89$	$\frac{52.5}{10} = 5.25$
Bad	IIII	5		
Dead		-		
Spawned out		-		
	total Bad.	17		

♂ $\frac{1922.7}{57} = 33.71$

$\frac{709.4}{57} = 12.45$

Total	♀	~~326~~ 346
Total	♀ Spawned.	389

413
1548
1962

Marked Fish — None

Tagged Fish — None

Dworshak National Fish Hatchery

ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-25	1294	F	32		11.2	GREEN
	1295	F	31.2		9.2	
	1296	F	33.8		11.2	
	1297	F	33.8		11.3	
	1298	F	34.7		12.8	
	1299	F	31.9		9.2	
	1300	F	31.6		9.0	scale 7-10
	1301	F	33.5		10.0	
	1302	F	35.2		12.8	
	1303	F	31.3		10.0	
	1304	F	32.8		9.2	
	1305	F	32.3		10.3	
	1306	F	32.2		10.5	
	1307	F	32.9		11.0	
	1308	F	33.0		10.3	
	1309	F	32.6		9.6	
	1310	F	31.3		7.7	scale 7-11
	1311	F	32.7		10.5	
	1312	F	32.6		10.2	
	1313	F	34.6		11.6	
	1314	F	33.6		11.5	
	1315	F	32.7		11.8	
	1316	F	31.5		8.5	
	1317	F	36.8		13.4	
	1318	F	32.2		10.2	
	1319	F	30.8		8.0	
	1320	F	32.5		9.0	scale 7-12
	1321	F	31.7		9.0	
	1322	F	28.0		5.9	
	1323	F	26.7		5.2	
	1324	F	28.0		6.1	
	1325	F	31.1		9.0	
	1326	F	32.1		10.0	
	1327	F	33.5		10.1	
	1328	F	33.9		11.7	

Dworshak National Fish Hatchery
ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-25	1329	F	33.8		11.2	
	1330	F	33.2		10.4	Scale 7-13
	1331	F	32.8		9.7	
	1332	F	27.2		5.6	
	1333	F	28.9		6.7	
	1334	F	33.8		10.6	
	1335	F	32.9		9.1	
	1336	F	33.0		8.3	
	1337	F	32.7		10.7	
	1338	F	24.5		4.4	
	1339	F	22.6		3.1	
	1340	F	32.0		9.1	Scale 7-14
	1341	F	35.3		12.6	
	1342	F	33.1		11.2	
	1343	F	34.2		10.5	
	1344	F	31.6		9.3	
	1345	F	33.6		11.2	
	1346	F	34.5		11.4	
	1347	F	33.0		10.6	
	1348	F	32.8		10.0	
	1349	F	32.5		10.7	
	1350	F	32.2		11.0	Scale 7-15
	1351	F	30.8		8.9	
	1352	F	32.0		9.6	
	1353	F	33.2		12.8	Green
	1354	F	31.2		9.3	Green
	1355	F	32.7		9.9	
	1356	F	33.0		10.4	
	1357	F	32.5		10.3	
	1358	F	25.6		4.9	
	1359	F	32.8		10.0	
	1360	F	28.1		6.2	Scale 7-16
	1361	F	30.9		8.7	Bad
	1362	F	33.0		10.4	

Dworshak National Fish Hatchery
ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-25	1363	F	32.2		9.6	
	1364	F	31.4		6.9	
	1365	F	32.0		10.0	
	1366	F	33.4		10.2	
	1367	F	33.0		10.2	
	1368	F	33.2		10.5	
	1369	F	29.2		7.4	
	1370	F	31.0		8.5	Scale 7-17
	1371	F	32.2		8.6	
	1372	F	30.2		8.4	
	1373	F	33.8		11.4	
	1374	F	34.7		11.5	
	1375	F	32.4		11.7	Green
	1376	F	32.2		8.5	
	1377	F	28.8		6.9	
	1378	F	32.6		12.9	Green
	1379	F	30.2		8.6	Green
	1380	F	29.6		6.7	Scale 7-18
	1381	F	30.4		8.8	
	1382	F	32.7		9.7	
	1383	F	33.6		11.1	
	1384	F	33.2		10.7	
	1385	F	30.8		9.7	
	1386	F	33.7		11.2	
	1387	F	33.9		11.0	
	1388	F	33.5		10.9	
	1389	F	35.2		12.8	
	1390	M +	24.8		4.5	Scale 7-19
	1391	F	32.0		10.5	Green
	1392	F	33.0		9.4	
	1393	F	35.0		12.1	
	1394	F	33.9		9.4	
	1395	F	32.2		9.2	

Dworshak National Fish Hatchery

ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-25	1396	F	31.5		8.6	
	1397	F	33.1		10.2	
	1398	M 2	35.0		14.3	
	1399	M 3	28.		6.9	
	1400	F	34.2		11.8	Scale 7-20
	1401	F	30.1		7.7	
	1402	F	27.5		5.8	
	1403	F	32.2		10.1	
	1404	F	26.4		5.0	
	1405	F	34.0		10.9	
	1406	F	31.2		9.5	
	1407	F	33.0		9.7	
	1408	M 4	35.2		12.2	
	1409	F	29.6		6.8	
	1410	F	26.0		4.7	Scale 8-1
	1411	M 5	32.9		10.7	
	1412	M 6	25.0		5.2	
	1413	M 7	26.6		6.0	
	1414	F	31.3		8.6	
	1415	F	32.8		10.2	
	1416	F	34.0		11.7	
	1417	F	34.8		10.2	
	1418	F	26.5		4.9	
	1419	F	30.8		8.5	
	1420	F	29.5		6.8	Scale 8-2
	1421	M 8	35.0		13.7	
	1422	M 9	35.0		13.7	
	1423	F	34.4		10.7	
	1424	F	33.6		10.2	
	1425	F	31.0		8.3	
	1426	F	35.1		11.4	
	1427	F	32.0		9.4	
	1428	M 10	27.9		6.8	
	1429	F	28.5		6.8	
	1430	F	32.7		10.0	Scale 8-3

Dworshak National Fish Hatchery
ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-25	1431	M 11	33.5		13.6	
	1432	F	29.8		7.2	Bad
	1433	F	30.1		7.5	
	1434	F	33.4		10.4	
	1435	F	32.0		10.0	
	1436	F	31.9		9.1	
	1437	F	32.7		10.2	
	1438	F	32.6		11.0	
	1439	F	31.0		8.2	
	1440	F	32.5		9.5	Scale 8-4
	1441	F	31.7		10.5	
	1442	F	32.2		9.5	
	1443	F	31.2		9.0	
	1444	M 12	38.0		17.0	Scale 02-2
	1445	M 13	35.1		15.1	
	1446	F	31.6		9.0	
	1447	F	31.3		9.2	
	1448	F	30.8		8.1	
	1449	F	32.8		9.7	
	1450	F	33.5		11.6	Scale 8-5
	1451	M 14	28.8		6.6	
	1452	F	31.5		8.8	
	1453	F	34.1		11.6	
	1454	F	33.4		10.3	
	1455	F	33.6		11.2	
	1456	F	33.7		10.4	
	1457	F	32.8		9.1	
	1458	F	33.1		10.7	
	1459	F	33.7		11.1	
	1460	F	33.0		9.8	Scale 8-6
	1461	M 15	27.6		6.2	
	1462	M 16	25.8		5.0	
	1463	F	33.7		11.2	
	1464	F	32.2		9.1	
	1465	F	35.1		11.7	

Dworshak National Fish Hatchery

ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-25	1466	F	29.2		7.0	
	1467	F	33.2		9.6	
	1468	F	32.6		10.1	
	1469	F	33.0		10.3	
	1470	F	31.6		9.8	scale 8-7
	1471	F	33.4		11.2	
	1472	M 17	35.5		15.0	
	1473	F	32.2		9.9	
	1474	F	33.2		10.6	
	1475	F	32.8		10.0	
	1476	F	32.5		9.6	
	1477	F	30.6		7.7	
	1478	F	34.2		10.4	
	1479	F	29.3		7.7	
	1480	F	33.6		11.7	scale 8-8
	1481	F	25.8		4.6	
	1482	F	26.2		5.3	
	1483	F	31.0		7.7	
	1484	F	32.1		9.3	
	1485	F	31.5		8.7	
	1486	F	33.0		10.6	
	1487	F	34.2		11.0	
	1488	F	34.2		11.0	
	1489	F	33.7		11.2	
	1490	F	33.3		8.9	scale 8-9
	1491	M 18	35.2		15.5	
	1492	M 19	30.1		8.0	
	1493	M 20	34.1		10.0	
	1494	F	31.6		8.1	
	1495	F	34.2		10.4	
	1496	F	34.1		10.3	
	1497	F	31.3		9.0	
	1498	F	35.1		12.7	
	1499	F	33.2		9.9	
	1500	F	32.9		10.8	scale 8-10

Dworshak National Fish Hatchery
ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-25	1501	M21	34.0		11.4	
	1502	F	30.9		8.0	
	1503	F	34.0		10.7	
	1504	F	35.3		13.8	
	1505	F	30.7		8.0	
	1506	F	32.2		9.7	
	1507	M22	27.8		6.7	
	1508	F	33.2		10.0	
	1509	M23	34.2		11.7	
	1510	F	33.5		10.2	Scale 8-11
	1511	M24	34.6		11.4	
	1512	F	32.0		12.1	Green
	1513	F	33.1		10.4	
	1514	M25	33.8		12.7	
	1515	M26	25.0		4.8	
	1516	M27	33.7		11.0	
	1517	M28	36.2		13.4	
	1518	F	26.6		5.1	
	1519	F	24.6		4.1	
	1520	F	30.8		8.5	Scale 8-12
	1521	F	36.0		13.0	
	1522	F	24.3		4.0	
	1523	F	33.2		10.3	
	1524	F	33.0		9.1	
	1525	F	31.2		8.2	
	1526	F	33.3		11.2	
	1527	F	34.1		11.5	
	1528	F	33.7		10.3	
	1529	F	36.2		12.4	
	1530	F	32.1		9.7	Scale 8-13
	1531	F	26.0		4.6	
	1532	F	28.9		6.6	
	1533	F	24.7		3.8	
	1534	F	33.7		11.1	
	1535	F	26.0		5.0	
	1536	M29	36.9		15.1	
	1537	M30	32.8		10.0	

Dworshak National Fish Hatchery
ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-25	1538	M 31	36.9		16.1	
	1539	F	32.2		9.3	
	1540	F	32.1		10.1	Scale 8-14
	1541	F	33.1		11.4	
	1542	F	33.3		10.5	
	1543	F	32.2		10.2	
	1544	M 32	24.2		4.8	
	1545	F	25.7		4.6	
	1546	F	31.2		8.1	
	1547	F	32.8		10.1	
	1548	F	33.7		10.6	
	1549	F	33.6		10.7	
	1550	F	35.9		14.2	Scale 8-15
	AM 1551	F	33.5	11.2	10.1	
	1552	F	31.5	11.9	9.8	
	1553	F	32.8	12.9	11.1	
	1554	F	30.2	8.7	7.5	
	1555	F	32.9	11.2	9.6	
	1556	F	33.0	12.3	10.6	
	1557	F	32.0	10.5	8.8	
	1558	F	34	13.7	11.3	
	1559	F	34.8	14.2	11.7	Green
	1560	F	34.5	13.9	12.0	Scale 8-16
	1561	F	32.3	12.5	10.9	
	1562	F	30.1	9.0	7.2	
	1563	F	33.0	11.6	9.9	
	1564	F	30.5	9.5	8.1	
	1565	F	32.4	11.9	9.6	
	1566	F	33.2	12.3	10.5	
	1567	F	34.2	13.9	12.0	
	1568	F	33.6	13.2	11.3	
	1569	F	32.8	11.7	10.0	
	1570	F	32.8	13.1	12.7	Scale - Bad 8-17
	1571	F	32.1	12.3	10.2	
	1572	F	30.8	9.2	7.2	

Dworshak National Fish Hatchery
ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-25	1573	F	31.9	10.4	8.8	
	1574	F	29.4	8.5	7.2	
	1575	F	29.4	7.7	6.8	
	1576	F	33.6	12.5	10.9	
	1577	F	35.6	15.9	13.5	
	1578	F	33.6	12.5	10.6	
	1579	F	27.6	6.8	5.9	
	1580	F	34.2	14.0	12.4	Scale 8-18
	1581	F	28.3	7.5	6.3	
	1582	F	33.4	12.0	9.6	
	1583	F	32.0	11.7	10.0	
	1584	F	31.2	10.2	8.9	
	1585	F	33.7	13.3	11.4	
	1586	F	32.6	13.6	12.0	
	1587	F	35.7	15.0	15.0	GREEN
	1588	F	33.2	12.5	10.3	
	1589	F	33.2	10.4	8.9	
	1590	F	32.9	12.6	10.6	Scale 8-19
	1591	F	34.4	14.2	12.0	
	1592	F	26.1	6.5	5.8	
	1593	F	32.3	12.9	10.9	
	1594	F	37.0	11.0	9.5	
	1595	F	33.0	12.9	10.6	
	1596	F	34.0	13.6	11.6	
	1597	F	24.3	4.6	4.0	
	1598	F	31.3	10.1	8.7	
	1599	F	32.5	12.5	10.9	
	1600	F	32.0	11.3	9.2	Scale 8-20
	1601	F	34.	13.1	11.6	
	1602	F	26.6	6.3	5.6	
	1603	F	31.7	10.4	8.8	
	1604	M 39	27.6		6.5	
	1605	F	35.6		14.3	
	1606	F	28.9		7.7	
	1607	M 34	34.8		12.6	

Dworshak National Fish Hatchery

ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-25	1608	F	32.5		10.3	
	1609	M 35	28.7		9.4	
	1610	F	31.3		8.9	Scale 9-1
	1611	F	33.6		11.1	
	1612	F	30.9		8.5	
	1613	M 36	32.5		11.4	
	1614	M 37	33.7		11.5	
	1615	M 38	34.7		15.0	
	1616	M 39	26.7		6.2	
	1617	F	34.0		11.3	
	1618	M 40	32.0		9.3	
	1619	F	33.1		9.9	
	1620	F	33.2		9.4	Scale 9-2
	1621	M 41	27.1		6.4	
	1622	M 42	36.5		16.5	
	1623	M 43	36.8		16.1	
	1624	F	34.6		11.9	
	1625	F	33.3		12.1	
	1626	F	33.8		10.9	
	1627	F	29.5		7.1	
	1628	F	30.5		10.3	GREEN
	1629	F	31.0		9.0	
	1630	F	35.5		12.0	Scale 9-3
	1631	M 44	27		6.3	
	1632	F	31.2		9.4	
	1633	F	32.3		9.6	
	1634	F	30.6		9.1	
	1635	F	32.6		10.3	
	1636	F	31.7		10.1	
	1637	F	32.3		10.2	
	1638	F	34.0		10.6	
	1639	F	32.8		9.2	
	1640	F	32.6		9.8	Scale 9-4
	1641	M 45	34.7		14.0	

Dworshak National Fish Hatchery
ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-25	1642	F	32.1		9.3	
	1643	M 46	36.0		14.5	
	1644	F	34.2		11.0	
	1645	F	33.2		8.9	
	1646	F	31.0		8.2	
	1647	F	32.6		9.6	
	1648	F	30.5		7.2	
	1649	F	31.7		9.3	
	1650	F	33.1		11.4	scale 9-5
	1651	F	25.2		5.5	Green
	1652	F	33.3		10.6	
	1653	F	25.3		5.0	
	1654	F	35.0		12.0	
	1655	F	35.0		12.6	
	1656	F	33.6		10.7	
	1657	F	32.1		9.1	
	1658	F	33.8		11.7	
	1659	F	32.5		9.1	
	1660	F	32.5		9.1	scale 9-6
	1661	F	31.1		7.5	
	1662	M 47	26.0		5.8	
	1663	F	33.1		10.2	
	1664	F	33.2		10.1	
	1665	F	27.3		5.8	
	1666	M 48	24.6		4.7	
	1667	F	30.2		6.8	
	1668	F	30.1		7.7	
	1669	F	31.4		8.0	
	1670	F	31.1		8.8	scale 9-7
	1671	M 49	36.9		18.2	
	1672	F	31.5		8.2	
	1673	F	31.1		8.6	
	1674	F	24.1		3.8	
	1675	F	34.1		11.1	
	1676	F	25.2		4.5	

Dworshak National Fish Hatchery
ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-25	1677	F	31.8		9.0	
	1678	F	31.4		9.4	
	1679	F	30.1		7.4	
	1680	F	34.3		11.6	Scale 9-8
	1681	F	32.1		9.1	
	1682	F	33.2		13.1	Bad
	1683	F	34.0		14.2	Bad
	1684	F	33.0		10.0	
	1685	M 50	36.9		16.3	
	1686	F	32.3		9.8	
	1687	M 51	37.3		17.7	Scale 02-3 ✓
	1688	M 52	27.0		7.2	
	1689	F	23.2		3.3	
	1690	F	33.5		11.2	Scale 9-9
	1691	F	33.5		10.9	
	1692	M 53	36.2		16.0	
	1693	M 54	36.0		14.6	
	1694	M 55	27.6		7.4	
	1695	M 56	37.6		17.1	Scale 02-4 ✓
	1696	M 57	34.5		16.0	
	1697	M 58	25.2		5.5	
	1698	M 59	33.5		12.9	
	1699	M 60	35.0		16.4	
	1700	M 61	35.0		16.0	
	1701	M 62	38.3		18.0	Scale 02-5 ✓
	1702	M 63	35.0		14.1	Scale 9-10
	1703	M 64	36.0		14.5	
	1704	M 65	35.6		15.4	
	1705	M 66	37.5		17.6	Scale 02-6 ✓
	1706	M 67	36.4		14.8	

♀ $\frac{2989.3}{92} = 32.49$ $\frac{920.9}{92}$ 10.00

5-26-70 Tank 6 Fall

Total	♀	113	3512.8" = 31.09"	1016.2 lb. = 8.99
Total	♂	19	560.8" = 29.52"	212.2 lbs = 11.17
Total	Fish	132	4099 / 13 = 31.49	

Small ♀ $\frac{523.5}{21} = 24.91$ $\frac{36.9}{6} = 6.15$

$\frac{958}{21} = 4.56$

Green	111	3	Small ♂ $\frac{151.4}{6} = 25.23$	$\frac{36.9}{6} = 6.15$
Bad	11	2		
Dead		0		
Spawned Out		-		
	Total Bad	5		

♂ $\frac{4094}{13} = 31.49$ $\frac{175.3}{13} = 13.48$

Total	♀		113
Total	♀	Spawned	108

Marked Fish none

Tagged Fish none

FALL

Dworshak National Fish Hatchery
ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-26	1707	F	35	14.2	12.1	
	1708	F	32	10.5	8.9	
	1709	F	33.6	13.7	11.2	
	1710	F	29.9	8.5	7.3	Scale - Aged 9 - # 11
	1711	F	31.3	10.6	8.7	
	1712	F	32.5	10.4	8.9	
	1713	F	37.8	14.6	12.2	
	1714	F	38.9	14.0	12.5	
	1715	F	29.6	8.1	6.7	
	1716	F	34.2	15.0	12.8	
	1717	F	31.4	10.2	8.5	
	1718	F	32.1	11.4	9.8	
	1719	F	26.8	6.2	5.1	
	1720	F	26.8	6.8	6.8	GREEN - Scale 9-12
	1721	F	25.2	6.0	6.0	GREEN
	1722	F	23.8	4.7	3.8	
	1723	F	26.2	6.5	5.5	
	1724	F	24.8	4.8	4.1	
	1725	F	26.0	6.3	5.3	
	1726	F	24.2	5.1	4.4	
	1727	F	31.5	10.2	8.4	
	1728	F	32.6	11.5	11.5	GREEN
	1729	F	33.2	12.2	10.1	
	1730	F	36.9	17.4	14.8	Scale 9-13
	1731	F	31.0	9.2	7.8	
	1732	F	32.8	11.4	9.6	
	1733	F	33.7	13.0	10.8	
	1734	F	29.6	9.3	7.8	
	1735	F	33.7	13.7	11.6	
	1736	F	33.0	12.2	10.3	
	1737	F	31.3	10.7	8.9	
	1738	F	32.6	11.4	9.7	
	1739	F	35.2	15.0	12.6	

Dworshak National Fish Hatchery FALL

ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-26	1740	F	30.1	9.5	7.9	Scale 9-14
	1741	F	33.7	13.0	11.2	
	1742	F	31.3	11.4	9.7	
	1743	F	31.6	9.7	8.4	
	1744	F	33.2	13.2	11.4	
	1745	F	32.9	11.9	9.8	
	1746	F	35.8	14.6	12.6	
	1747	F	34.9	13.5	11.5	
	1748	F	34.8	14.0	11.6	
	1749	F	35.5	14.0	11.9	
	1750	F	33.3	13.4	11.1	Scale 9-15
	1751	F	30.3	9.5	8.0	
	1752	F	32.0	11.2	9.6	
	1753	F	30.8	10.2	8.4	
	1754	F	32.3	10.7	8.7	
	1755	F	31.3	9.7	8.4	
	1756	F	32.8	13.1	10.7	
	1757	F	27.0	7.1	5.8	
	1758	F	25.2	5.5	4.6	
	1759	F	21.9	3.2	2.4	
	1760	F	25.2	5.0	4.2	Scale 9-16
	1761	M 1	34.2	16.	16.5	
	1762	M 2	34.6		13.1	
	1763	M 3	33.5		11.9	
	1764	M 4	26.9		6.5	
	1765	F	34.3		12.6	
	1766	F	34.5		12.4	
	1767	F	32.7		9.4	
	1768	F	34.1		10.6	
	1769	F	33.3		10.7	

Dworshak National Fish Hatchery
ADULT RECORD

FALL

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-26	1770	F	32.8		10.2	Scale 9-17
	1771	M 5	26.0		6.2	
	1772	F	34.1		12.6	
	1773	F	27.8		6.1	
	1774	F	31.5		9.7	
	1775	F	29.2		7.3	
	1776	F	32.3		9.0	
	1777	F	32.9		10.6	
	1778	F	33.7		10.0	
	1779	F	32.0		9.5	
	1780	F	25.6		4.6	Scale 9-18
	1781	F	31.8		9.1	
	1782	F	32.4		10.6	
	1783	M 6	26.8		6.7	
	1784	F	32.3		9.8	
	1785	F	32.8		10.9	
	1786	F	33.5		11.1	
	1787	F	33.2		11.0	
	1788	F	33.5		11.5	
	1789	F	27.4		5.9	
	1790	F	25.3		5.0	
	1791	F	33.0		8.5	Scale 9-19
	1792	F	34.4		10.7	
	1793	F	31.5		9.1	
	1794	F	33.5		11.1	
	1795	M 7	27.2		6.9	
	1796	F	31.8		8.8	
	1797	F	33.6		10.9	
	1798	F	31.5		9.1	
	1799	F	31.9		8.8	
	1800	F	26.2		4.9	Scale 9-20
	1801	F	28.9		6.6	

FALL

Dworshak National Fish Hatchery
ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-26	1802	F	33.2		10.0	
	1803	F	30.2		7.3	
	1804	F	31.7		8.8	
	1805	F	32.7		10.0	
	1806	M-8	36.8		18.8	
	1807	F	32.8		9.4	
	1808	F	33.5		10.7	
	1809	F	33.6		11.3	
	1810	F	33.7		10.2	Scale 10-1
	1811	M 9	36.0		15.5	
	1812	M-10	35.0		13.8	
	1813	F	22.6		3.2	
	1814	F	30.3		9.9	
	1815	F	23.1		3.1	
	1816	F	34.6		12.5	
	1817	F	32.3		9.4	
	1818	F	31.9		10.0	
	1819	F	32.0		9.2	
	1820	F	24.4		4.1	Scale 10-2
	1821	M 11	30.0		7.0	
	1822	F	25.8		5.4	
	1823	M 12	25.7		5.2	
	1824	M 13	35.0		14.0	
	1825	F	26.8		5.7	
	1826	F	31.0		12.0	Bad
	1827	F	33.2		10.4	
	1828	F	33.2		13.0	Bad
	1829	M 14	34.0		13.0	
	1830	F	23.3		3.5	Scale 10-3
	1831	M 15	34.0		12.1	
	1832	F	32.9		8.5	
	1833	F	24.3		4.1	
	1834	M 16	26.0		5.3	
	1835	F	34.3		13.4	
	1836	M 17	32.7		12.1	

Dworshak National Fish Hatchery

ADULT RECORD

FALL

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
5-26	1837	M ib	36.4		18.8	
	1838	M A	36.0		14.0	

$\frac{2789}{24} = 32.95$ $\frac{2903}{84}$ 10.0

6-1-70 Table 7 Fall

Total	♀	33	1009.3" = 30.58"	284.1 = 8.61 lb.
total	♂	5	174.7 = 34.94"	71.3/5 = 14.26
Total	Fish	38		

Sm ♀ 230.4/9 = 25.60" 43.8/9 = 4.87

Sm ♂ None

Green

Bad

Dead II

Spawned Out

II

Total	♀		33
"	♀	Spawned.	33

Marked None

Tagged. None.

0 ✗ $\frac{2431.5}{75} = 32.42''$ $\frac{22.57}{75} = 9.68$

6-1-70 Trip 7 Spring

Total ♀	84	2661.3" = 31.68"	$\frac{770.0}{}$ = 9.17 lb.	
" ♂	22	6464" = 29.38"	$\frac{192.9}{}$ = 8.77	
" Fish	106			

♀ $\frac{2298}{9} = 25.53$ $\frac{44.3}{9} = 4.92$

♂ $\frac{2593}{10} = 25.93$ $\frac{58.0}{10} = 5.80$

Green	1
Brk	
Dead	1
Spawned Out	
	2

♂ $\frac{3871}{12} = 32.26$ $\frac{134.9}{12}$ 11.24

Total ♀	84
" " Spawned	82

Marked	None
Tagged	None

Dworshak National Fish Hatchery

ADULT RECORD

FALL

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
6-1-70	1839	F	32.9		10	
	1840	F	34.2		12.4	scale 10-4
	1841	F	32.5		10.7	
	1842	F	30.2		8.3	
	1843	F	29.8		7.5	
	1844	F	30.8		8.7	
	1845	F	32.3		8.8	
	1846	F	32.4		9.3	
	1847	F	26.3		5.1	
	1848	F	27.1		4.8	
	1849	F	33.5		11.	
	1850	F	26.2		5.7	scale 10-5
	1851	F	34		11.2	
	1852	F	32.5		10.5	
	1853	F	31.9		9.6	
	1854	F	32.8		10.4	
	1855	F	34		12.5	
	1856	F	25.6		4.7	
	1857	F	26.8		5.9	
	1858	F	26.3		5.1	
	1859	F	24		3.7	
	1860	F	30.7		8.9	scale 10-6
	1861	F	33		10.8	
	1862	F	32.3		9.6	
	1863	F	25.1		4.4	
	1864	F	35		12.1	
	1865	F	32.4		9.5	
	1866	F	33.2		10.7	
	1867	F	32.9		8.5	
	1868	F	26.4		5.5	
	1869	F	33.5		10.9	
	1870	F	35		13.7	scale 10-7
	1871	M	35.9		15.7	
	1872	M	34.2		14.3	

Dworshak National Fish Hatchery
ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
6-1-70	1873	M	36.9		16.8	
	1874	M	34.7		12.9	
	1875	M	33		11.6	
	1876	F	23.7		3.7	
	1877	F	31.8		8.2	SPRING
	1878	F	30.8		8	
	1879	F	31.6		9.4	
	1880	F	30.6		8.7	Scale 10-8
	1881	F	32		8.6	
	1882	F	31.4		8	
	1883	F	32.7		10	
	1884	F	23.6		4	
	1885	F	24		3.7	
	1886	F	33		11	
	1887	F	33.2		10.6	
	1888	F	26		5.2	
	1889	F	32.6		9.4	
	1890	F	34		11	Scale 10-9
	1891	F	33.5		9.8	
	1892	F	33.7		10.6	
	1893	F	32.1		9.3	
	1894	F	26		5.4	
	1895	F	31.7		8.2	
	1896	F	32.3		9.6	
	1897	F	31.6		9	
	1898	F	35.2		12.2	
	1899	F	31.7		8.9	
	1900	F	31.8		8.9	Scale 10-10
	1901	F	29.7		7.3	
	1902	F	33.7		12.4	
	1903	F	30.5		9.7	
	1904	F	32.5		10	
	1905	F	32.6		9.3	
	1906	F	32.7		11.4	
	1907	F	34.7		12	
	1908	F	32.4		9.4	
	1909	F	31		8.4	
	1910	F	33		10.8	Scale 10-11

Dworshak National Fish Hatchery

ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
6-1-70	1911	F	33.5		10.3	
	1912	F	30.2		8.3	
	1913	F	33.4		10.5	
	1914	F	32.1		9.2	
	1915	F	32.8		9.2	
	1916	F	32.1		10.2	
	1917	F	32		9.3	
	1918	F	34.5		11.8	
	1919	F	26.2		5.1	
	1920	F	32		8.8	Scale 10-12
	1921	F	31.2		8.9	
	1922	F	36		13.6	
	1923	F	33		9.8	
	1924	F	30.4		8.4	
	1925	F	32.5		10.2	
	1926	F	34.6		13.2	
	1927	F	32.1		10.4	
	1928	F	24.8		4.7	
	1929	F	33.2		10	
	1930	F	32		9.2	Scale 10-13
	1931	F	31		8.8	
	1932	F	31.1		8.1	
	1933	F	30.2		8.3	
	1934	F	33.2		10.8	
	1935	F	29.1	7.2		green
	1936	F	32.3		9.4	
	1937	F	26.5		5.6	
	1938	F	26.9		5	
	1939	F	24.5		4.6	
	1940	F	32.9		11	Scale 10-14
	1941	M	33		11.7	
	1942	F	35		13.3	
	1943	F	32.2		10.9	
	1944	F	32.9		11.6	
	1945	M	25.1		5.1	
	1946	M	34		14.3	
	1947	M	35		13.6	
	1948	M	26		5.9	

Dworshak National Fish Hatchery

ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
6-1-70	1949	M	26.9		7.3	
	1950	M	32		11.5	scale 10-15
	1951	M	35.9		13.8	
	1952	M	33.9		12.6	
	1953	M	25.6		5.8	
	1954	F	32.7		10.3	
	1955	F	33.2		10.6	
	1956	F	32.7		10.9	
	1957	F	30.8		7.8	
	1958	F	33.7		10	
	1959	M	33.2		12.5	
	1960	F	32.2		9.7	scale 10-16
	1961	F	34		10.8	
	1962	F	33.8		11	
	1963	F	31.3		8	
	1964	F	32		11.2	Dead
	1965	F	32.5		10.2	
	1966	F	33.6		10.7	
	1967	F	33.6		10.8	
	1968	F	33		10.8	
	1969	M	35.8		15.2	
	1970	F	29.2		6.8	scale 10-17
	1971	M	27.8		8	
	1972	M	27.8		6.1	
	1973	F	30.8		8.8	
	1974	M	29.5		8.8	
	1975	M	26.2		5.8	
	1976	M	29.2		6.8	
	1977	M	26		5.3	
	1978	M	26.3		6	
	1979	M	25.5		5.5	
	1980	M	25.8		5.2	scale 10-18
	1981	M	26		6.1	
	1982	F	26.1		5.7	

$\frac{538.7}{18} = 29.92''$ $\frac{171.9}{18} = 9.55$

6-8-70 Trap 8 Comb. ~~Trap~~ Spawning

Total	♀	23	664.8" =	28.90"	$\frac{196.0}{} = 8.52$
Total	♂	–	—	–	
Total	Fish	23			

♀ $\frac{126.1}{5} = 25.22$ $\frac{29.1}{5} = 4.82$

Green	5
Bad	–
Dead	–
Spawned out	–
	5

Total	♀		23
"	♀	Spawned	18

Marked None

Tagged. None.

Fish Sp. mixed

Dworshak National Fish Hatchery

ADULT RECORD

Date	Number	Sex	Length, fork Inches	Weight before Spawning, lb.	Weight after Spawning, lb.	REMARKS
6-8-70	1983	F	32.5		10.8	
	1984	F	33.3		11.2	GREEN
	1985	F	27.5		6	GREEN
	1986	F	20.6		5.3	
	1987	F	33.3		11.1	
	1988	F	32.7		10.5	
	1989	F	29.2		8	
	1990	F	26.5		5.4	SCALE 10-19
	1991	F	32.9		10.6	
	1992	F	32		9.7	
	1993	F	27.8		7.4	GREEN
	1994	F	27		5.9	
	1995	F	30.2		7.5	
	1996	F	34.1		12.6	GREEN
	1997	F	33.6		10.4	
	1998	F	31.7		8.3	
	1999	F	31.8		9.3	
	2000	F	34.2		12.8	SCALE 10-20
	2001	F	31.8		9.5	Green
	2002	F	22.5		3.6	
	2003	F	24.5		4.5	
	2004	F	32.3		10.3	
	2005	F	26		5.3	
	2006					
	2007					
	2008					
	2009					
	2010					

Cum. Mort. DIP St. 1970

Date	Sex	No	Total lg	Ave lg	Run.
	Male	467	15604	33.4	Sp.
	Female	181	5783	31.9	Sp.
Total					
	Male	126 115?	3933	31.2	Fall
	Female	40	1246	31.2	Fall
	Male	44	1109.0	25.20	Sp
	Female	16	402.0	25.13	Sp
Under 27"					
	Male	33	818.0	24.75	Fall
	Female	7	172.0	24.57	Fall
27" & over	Male	423	14495	34.27	S
	Female	165	5381	32.61	S
	Male	82	2824	34.44	F
	Female	33	1074	32.55	F

Dates	Sex	Number	total Lg.	Ave lg.	Run
5-3-70	Male	1	32"		S
5-4-70	Female	2	71		S
5-7-70	"	2	71		S
5-8-70	"	1	33		S
5-11-70	"	3	103		S
5-11-70	Male	2	76		S
5-12-70	"	4	143		S
5-12-70	Female	3	97		S
5-13-70	♂	2	62		S
15	♂	2	71		S
16	♂	8	290		S
16	♀	3	111		S
17	♂	12	435		S
17	♀	1	35		S
17	♂	2	73		F
18	♂	12	429		S
18	♀	3	96		S
20	♂	9	313		S
20	♀	1	34		F
20	♂	4	146		F
21	♂	8	280		S
21	♂	1	26		F
22	♂	35	1201		S
22	♀	3	94		S
22	♂	4	128		F
22	♀	1	30		F

Date	Sex	No	Total Lg	Ave Lg	Rem.
5-23-70	♂	13	465		S
23	♀	3	101		S
23	♂	4	133		F
24	♂	17	574		S
24	♂	6	201		F
24	♀	1	32		F
25	♂	87	2997		S
25	♀	22	689		S
25	♂	6	200		F
25	♀	4	119		F
26	♂	18	611		S
26	♀	1	35		S
26	♂	12	420		F
27	♀	3	99		Spring
27	♂	10	304		S
28	♂	~~[illegible]~~ 15	~~[illegible]~~ 505		S
28	♀	13	372		S
28	♂	18	549		F
28	♀	15	457		F
29	♂	11	374		S
31	♂	4	167		S
31	♂	1	36		F
6-1-70	♂	131	4280		S
6-1-70	♀	~~78~~ 46	~~1554~~ 1484		S
6-1-70	♂	22	716		F

Date	Sex	No.	Total lg	Ave. lg	Run
6-1-70	♀	2	70		F
6-2-70	♂	9	281		S
6-2-70	♀	8	262		S
6-2-70	♂	6	157		F
6-2-70	♀	2	72		F
6-3-70	♂	28	840		S
6-3-70	♀	20	646		S
6-3-70	♂	7	219		F
6-4-70	♂	2	71		S
6-4-70	♀	2	61		S
6-4-70	♂	5	126		F
6-4-70	♀	2	60		F
6-5-70	♂	7	197		S
6-5-70	♀	2	66		S
6-5-70	♂	11	300		F
6-5-70	♀	2	59		F
6-6-70	♂	4	113		S
6-6-70	♀	3	96		S
6-6-70	♂	3	85		F
6-7-70	♂	3	87		S
6-7-70	♂	1	26		F
6-8-70	♂	13	407		S
6-8-70	♀	37	1161		S
6-8-70	♂	13	392		F
6-8-70	♀	10	313		F

ST mortality

DATE	RUN	SEX	L-"	Date	Run	SEX	L-"	DATE	Run	SEX	L-"	DATE	RUN	SEX	L-"
5/3	S	m	32	5/16	S	m	34	5/18	S	m	27	5/21	S	m	37
5/4	S	F	36	"	S	m	42	"	S	m	37	"	S	m	37
"	S	F	35	"	S	m	37	"	S	m	40	"	S	m	37
5/7	S	F	37	"	S	F	36	"	S	F	34	"	S	m	34
"	S	F	34	"	S	F	38	"	S	F	27	"	F	m	26
5/8	S	F	33	"	S	F	37	"	S	m	36	5/22	S	m	34
5/11	S	F	33	5/17	S	m	40	"	S	m	37	"	S	m	24
"	S	m	36	"	S	m	44	"	S	m	28	"	S	m	34
"	S	m	40	"	S	m	33	"	S	m	37	"	S	m	37
"	S	F	34	"	S	m	36	5/20	S	m	36	"	S	m	36
"	S	F	36	"	S	m	34	"	S	m	36	"	S	m	36
5/12	S	m	33	"	S	m	37	"	S	m	37	"	S	m	36
"	S	m	36	"	S	m	34	"	S	m	22	"	S	m	36
"	S	F	35	"	S	m	44	"	S	m	29	"	S	m	35
"	S	F	30	"	S	m	34	"	S	m	37	"	S	m	36
"	S	F	32	"	S	m	36	"	S	m	42	"	S	m	26
"	S	m	37	"	S	m	23	"	S	m	38	"	S	m	36
"	S	m	37	"	S	F	35	"	S	m	36	"	S	m	35
5/13	S	m	26	"	S	m	40	"	F	m	38	"	S	m	36
5/13	S	m	36	"	F	m	37	"	F	m	35	"	S	m	36
5/15	S	m	33	"	F	m	36	"	F	m	37	"	S	m	28
"	S	m	38	5/18	S	m	39	"	F	m	36	"	S	m	36
5/16	S	m	39	"	S	m	38	"	F	F	34	"	S	m	35
"	S	m	35	"	S	m	40	5/21	S	M	35	"	S	m	35
"	S	m	37	"	S	F	35	"	S	m	38	"	S	m	36
"	S	m	37	"	S	m	35	"	S	m	28	"	S	m	30
"	S	m	29	"	S	m	36	"	S	m	34	"	S	m	37

DATE	Run	SEX	L"	DATE	Run	SEX	L"	DATE	Run	SEX	L"	DATE	Run	SEX	L"
5/22	S	F	34	5/23	S	m	27	5/24	S	m	32	5/25	S	m	33
"	S	F	26	"	S	m	36	"	S	m	31	"	S	m	26
"	S	F	34	"	S	m	39	"	S	m	36	"	S	M	27
"	F	m	36	"	S	m	42	"	S	m	31	"	S	M	34
"	F	m	33	"	S	m	37	"	S	m	38	"	S	m	37
"	F	F	30	"	S	m	40	"	S	m	35	"	S	m	35
"	F	m	33	"	S	m	28	"	S	m	30	"	S	m	36
"	F	m	26	"	S	m	36	"	S	m	39	"	S	m	38
"	S	m	36	"	S	m	36	"	S	m	34	"	S	m	35
"	S	m	36	"	S	m	36	"	S	m	37	"	S	m	36
"	S	m	39	"	F	m	24	"	S	m	36	"	S	m	38
"	S	m	36	"	F	m	35	5/25	S	m	40	"	S	m	36
"	S	m	37	"	F	m	38	"	S	m	29	"	S	m	36
"	S	m	38	"	F	m	36	"	S	m	34	"	S	m	34
"	S	m	36	5/24	F	m	21	"	S	m	35	"	S	m	35
"	S	m	29	"	F	m	36	"	S	m	38	"	S	m	29
"	S	m	36	"	F	m	38	"	S	m	34	"	S	m	32
"	S	m	35	"	F	m	36	"	S	m	28	"	S	m	36
"	S	m	33	"	F	m	34	"	S	m	36	"	S	m	31
"	S	m	35	"	F	m	36	"	S	m	34	"	S	F	29
"	S	m	26	"	F	F	32	"	S	m	35	"	S	m	32
5/23	S	F	33	"	S	m	27	"	S	M	27	"	S	m	38
"	S	m	37	"	S	m	37	"	S	m	33	"	S	m	37
"	S	F	36	"	S	m	37	"	S	m	37	"	S	m	37
"	S	F	32	"	S	m	30	"	S	m	31	"	S	F	34
"	S	m	36	"	S	m	37	"	S	m	37	"	S	m	35
"	S	m	38	"	S	m	27	"	S	m	38	"	S	m	33

Date	Run	Sex	L"	Date	Run	Sex	L"	Date	Run	Sex	L"	Date	Run	Sex	L"
5/25	S	m	36	5/25	S	F	26	5/25	S	F	37	5/26	S	m	30
"	S	m	35			m	34	"	S	m	37	"	S	m	28
"	S	m	37			m	25	"	S	m	36	"	S	m	36
"	S	m	34			F	29	"	S	m	37	"	S	m	37
"	S	m	36			m	37	5/25	F	m	35	"	S	m	25
"	S	m	36			m	37	"	F	F	29	"	S	m	38
"	S	m	34			F	32	"	F	F	24	"	S	m	34
"	S	F	35			F	24	"	F	m	34	"	S	F	35
"	S	m	35			F	27	"	F	m	36	5/26	F	m	24
"	S	m	36			F	33	"	F	m	26	"	F	m	37
"	S	m	37			m	37	"	F	m	31	"	F	m	35
"	S	m	36			m	37	"	F	F	33	"	F	m	37
"	S	F	34			m	36	"	F	F	33	"	F	m	36
"	S	m	34			m	36	"	F	m	38	"	F	m	35
"	S	m	26			m	37	"	F	m	31	"	F	m	35
"	S	m	33			m	37	"	S	m	35	"	F	m	28
"	S	m	36			F	27	"	S	m	36	"	F	m	31
"	S	F	27			F	36	"	S	m	35	"	F	m	33
"	S	m	36			F	28	"	S	F	34	"	S	m	34
"	S	m	32			m	36	"	S	m	34	"	S	m	40
"	S	m	28			m	33	"	S	F	36	"	S	m	37
"	S	m	36			F	34	"	S	F	28	"	S	m	29
"	S	m	34			m	27	"	S	m	35	"	S	m	36
"	S	m	42			F	33	5/26	S	m	37	"	S	m	36
"	S	m	36			F	32	"	S	m	37	5/27	F	m	26
"	S	m	29			F	34	"	S	m	36	"	F	m	28
"	S	m	36			m	31	"	S	m	34	"	S	m	27

Date	Run	Sex	L"	Date	run	Sex	L"	Date	run	Sex	L"	Date	Run	Sex	L"
5/27	S	m	34	5/28	F	m	33	5/28	F	F	34	5/29-30	S	m	36
"	S	m	28	"	F	m	34	"	F	m	27	"	S	m	33
"	S	m	26	"	F	m	26	"	S	m	35	"	S	m	25
"	S	m	25	"	F	m	26	"	S	m	36	"	S	m	33
"	S	m	34	"	F	m	32	"	S	m	36	5/31	S	m	25
"	S	m	32	"	F	F	34	"	S	m	36	"	S	m	35
"	S	m	33	"	F	F	31	"	S	F	30	"	S	m	36
"	S	m	35	"	F	F	34	"	S	m	37	"	S	m	37
"	S	m	30	"	F	F	32	"	S	m	37	"	S	m	34
"	S	m	27	"	F	F	32	"	S	m	33	5/31	F	m	36
"	S	F	32	"	F	F	33	"	S	F	30				
"	S	F	34	"	F	F	32	"	S	F	31				
"	S	F	33	"	F	F	32	"	S	F	26				
5/28	S	m	39	"	F	F	33	"	S	m	25				
"	S	m	27	"	F	F	24	"	S	F	26				
"	F	m	35	"	F	F	26	"	S	m	32				
"	F	m	24	"	F	F	33	"	S	F	22				
"	F	m	36	"	F	F	23	"	S	F	29				
"	F	m	26	"	F	F	24	"	S	m	27				
"	F	m	35	"	S	F	34	"	S	F	24				
"	F	m	32	"	S	m	35	5/29-30	S	m	31				
"	F	m	28	"	S	F	32	"	S	m	37				
"	F	m	27	"	S	F	32	"	S	m	35				
"	F	m	33	"	S	m	34	"	S	m	36				
"	F	m	34	"	S	F	25	"	S	m	39				
"	F	m	31	"	S	F	31	"	S	m	36				
"	F	m	30	"	S	m	36	"	S	m	33				

Mort 6-1-70

FALLS

Pond 1 - SPRINGS

30 F	36 M	27 M	33 F
31 F	28	28	27 M
34	33	47	33 F
34	38	27	33 F
33	32	34	36 F
24	37	35	38 M
32	37	36	26 M
28	38	26	33 F
34	35	28	26 M
34	34	30	36 M
33	38	32	36 F
34	27	34	35 M
36	34	32 F	33 F
33	37	27 M	36 F
31	38	26 M	35 F
25	32	33 F	31 M
34	39	28 M	36 M
34	36	32 M	22 F
33	33	29 M	39 M
33 -	35	32 M	36 M
35	27	36 M	37 M
34	27	35 M	36 M
34	26	36 F	34 M
34	27	37 M	38 M
31	37	37 M	37 F
24	26	33 M	27 M

Pond 2

34 B	38 F
34	34
37	33
27	32
27	33
27	32
34	31
37	33
35	32
36	33
26	
34	
35 M	
32 F	

Springs

36 ♂	27 ♂	32 ♀
35 ♀	27 ♀	28 ♂
36 ♂	36 ♂	26 ♀
35 ♂	26 ♂	34 ♀
37 ♂	26 ♂	26 ♂
37 ♂	28 ♂	32 ♀
26 ♀	32 ♂	27 ♂
30 ♂	32 ♂	34 ♀
33 ♂	32 ♀	26 ♂
28 ♀		

Pond I

28M – SPRINGS
34F
33M
37M
33F
36F
35F
38M
33F
35M
38M
42M
36M
36M
24M
33M
32M
36M
28F
32M

SPRINGS
9 33F
36M
30M
29M
31F
32F
38M
37M
33F
33F
34F
36M
26M

34F
31F
34M
41M
32F
36F
26M
27F
33M
26F
35F
33F

SEX	Length	Pond	DATE
F	36	2	6/2
M	38	1	6/2
M	32	1	6/2
F	31	1	6/2
F	31	1	6/2
F	33	1	6/2
M	25	1	6/2
F	32	1	6/2
F	35	1	6/2
M	31	1	6/2
M	24	2	6/2
M	24	2	6/2
M	25	2	6/2
M	23	2	6/2
M	26	2	6/2
F	36	2	6/2
M	35	2	6/2
M	25	1	6/2
M	32	1	6/2
M	31	1	6/2
M	39	1	6/2
F	34	1	6/2
F	33	1	6/2
F	33	1	6/2
M	28	1	6/2

Sex	Length	Pond	Date
M	27	1	6/3
M	36	1	6/3
M	33	1	6/3
M	34	channel	6/3
F	34	channel	6/3
F	32	channel	6/3
F	34	channel	6/3
M	39	channel	6/3
F	34	channel	6/3
M	31	channel	6/3
M	29	channel	6/3
M	31	channel	6/3
F	34	channel	6/3
M	34	channel	6/3
M	33	channel	6/3
F	35	channel	6/3
F	34	channel	6/3
F	33	channel	6/3
M	28	channel	6/3
F	33	channel	6/3
M	30	channel	6/3
M	28	channel	6/3
23	M	2	6/3
22	M	2	6/3
31	M	2	6/3
F	28	channel	6/3
F	34	channel	6/3
M	27	channel	6/3

Sex	Length	Pond	Date
M	36	2	6/3
M	38	2	6/3
M	28	2	6/3
M	31	channel	6/3
M	26	channel	6/3
F	35	channel	6/3
M	27	channel	6/3
M	25	channel	6/3
F	31	channel	6/3
M	25	channel	6/3
M	26	channel	6/3
F	34	channel	6/3
F	29	channel	6/3
F	35	channel	6/3
F	31	channel	6/3
M	25	channel	6/3
M	25	channel	6/3
M	34	channel	6/3
M	24	channel	6/3
M	34	channel	6/3
M	26	channel	6/3
M	37	channel	6/3
F	33	channel	6/3
M	39	channel	6/3
F	26	channel	6/3
M	27	channel	6/3
M	36	2	6/3

Date	Sex	Length	POND
6/4/90	Female	29"	1
	Male	34½"	1
	Male	29½"	2
	Male	22¼"	2
	Male	23"	2
	Male	25½"	2
	Female	26"	2
	Male	36"	Ch.
	Female	32"	Ch.
	Male	26	2
	Female	34	2
6/5	F	32	1
	F	34	1
	M	26	1
	M	26	1
	M	27	1
	M	26	1
	M	33	1
	M	30	1
	M	30	1
	F	29	2
	F	30	2
	M	27	2
	M	28	2
	M	28	2
	M	25	2
6/5	M	24	2

6/5	M	26	2
	M	32	2
	M	26	2
	M	27	2
	M	26	2
6/5	M	31	2
6/6	M	24	1
	M	27	1
	M	28½	1
	M	33½	1
	F	31	1
	F	32	1
	F	33	1
	M	36	2
	M	26½	2
6/6	M	23	2

6/7 27 - M - 1
34 - M - 1
26 - M - 1
26 - M - 2

6/8 32 - F - 1 36 - M - 2
34 - F - 1 27 - M - 2
33 - F - 1
27 - F - 1
25 - M - 1
35 - F - 2
27 - M - 2
25 - M - 2
27 - M - 2

Mortality

Date	Sex	Length	Pond	Date	Sex	Length	Pond	
6/8/70	F	34	1	6/8/70	F	34	1	M - 34 - 2
	F	33	1		F	33	1	M - 35 - 2
	F	34	1		F	27	1	F - 33.5 - 2
	F	31	1		F	31	1	F - 31 - 2
	M	32	1		M	27	1	F - 27 - 2
	F	37	1		M	26	1	F - 31 - 2
	F	24	1		F	25	1	F - 33 - 2
	F	30	1		F	31.5	1	M - 34 - 2
	F	30	1		F	34	1	
	F	31	1		F	34	1	
	F	34	1		F	28	1	
	F	26	1		M	34	1	
	F	32	1		F	33	1	
	F	32	1		F	26	1	
	F	31	1		M	24	1	
	M	29	1		F	32	1	
	M	33	1		M	34	1	
	M	34	1		F	30.5	1	
	M	36	1		F	33	2	
	F	31	1		M	34.5	2	
	F	24	1		F	32	2	
	F	34	1		M	27	2	
	F	36	1		F	25	2	
	F	34	1		M	26	2	
	M	36	1		M	26.5	2	
	M	37	1		F	33.	2	
	F	33	1		M	31	2	