Table 1.	Daily Collection	on and Bypass	Numbers ar	nd River Con	ditions at Low	er Granite Dam	. 2017.	ı				1						I				$\overline{}$
				Daily Nu	mber of Fish C	ollected								Daily N	Numbers Bypa:	ssed					River Conditio	
Date	Yearling	Chinook	Subvearlir	ng Chinook	Stee	lhead	Sockeye	/Kokanee	Coho	Daily	Vearling	Chinook	Subvearli	ng Chinook	Steel	lhead	Sockeve	/Kokanee	Coho	Daily	River Flow Spil	Water 1 Temp.
Dute	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped	Cono	Total	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped	Cono	Total	(kcfs) (kcfs	
26-Mar	3,541	1,319	0	208	52,628	7,290	0	69	0	65,055	3541	1317	0	205	52627	7288	0	69	0	65,047	170.5 83.7	
27-Mar	3,700	1,300	0	0	48,600	5,200	0	200	100	59,100	3700	1299	0	0	48596	5200	0	200	100	59,095	165.5 78.4	
28-Mar 29-Mar	1,400 2,300	800 1,200	0	200 100	15,400 3,600	3,800 700	0	200	0	21,800 7,900	1399 2300	800 1200	0	200 100	15399 3599	3800 699	0	200	0	21,798 7,898	162.5 76.4 158.8 72.8	
30-Mar	3,200	1,550	0	50	3,950	900	0	50	0	9,700	3200	1550	0	50	3949	900	0	50	0	9,699	153.3 80.0	
31-Mar	3,124	1,710	0	0	5,954	1,112	0	0	50	11,950	3124	1710	0	0	5951	1111	0	0	50	11,946	166.4 86.2	
1-Apr	6,500	1,750	0	0	13,600	4,250	0	50	200 200	26,350	6500	1750	0	0	13600	4250	0	50	200	26,350	163.3 80.5 158.2 86.5	
2-Apr 3-Apr	4,150 3,500	1,300 2,200	0	0	6,750 5,300	2,000 1,650	0	50	50	14,400 12,750	4150 3500	1300 2200	0	0	6750 5300	2000 1650	0	50	200 50	14,400 12,750	158.2 86.5 155.0 83.6	
4-Apr	2,600	2,500	0	100	1,750	650	0	100	150	7,850	2600	2500	0	100	1750	650	0	100	150	7,850	153.9 82.5	
5-Apr	2,425	1,525	0	0	1,625	800	0	25	0	6,400	2425	1525	0	0	1625	800	0	25	0	6,400	147.5 76.2	
6-Apr 7-Apr	3,050 2,342	2,525 2,335	0	25 25	3,550 4,659	850 992	0	225 125	0 25	10,225 10,503	3050 2341	2524 2335	0	25 25	3549 4659	850 992	0	223 125	25	10,221 10,502	144.2 73.3 138.5 67.8	
8-Apr	2,675	3,100	0	0	6,350	925	0	150	25	13,225	2673	3096	0	0	6349	925	0	150	25	13,218	140.2 69.6	
9-Apr	2,900	3,800	0	100	11,850	1,500	0	50	0	20,200	2899	3799	0	100	11850	1500	0	49	0	20,197	146.6 80.3	47.8
10-Apr	6,000	9,450	0	50	8,500	900	0	350	0	25,250	6000	9450	0	50	8500	900	0	348	0	25,248	147.5 76.6	
11-Apr 12-Apr	8,650 7,600	10,200 10,600	0	0	12,050 17,600	1,600 1,800	0	350 200	0	32,850 37,800	5721 5531	6747 7713	0	0	7971 12809	1059 1310	0	231 146	0	21,729 27,509	142.3 71.2 139.2 67.0	
13-Apr	8,300	10,000	0	100	10,200	900	0	800	0	30,500	8300	10200	0	100	10200	900	0	800	0	30,500	135.3 62.4	
14-Apr	13,623	15,823	0	100	15,647	2,307	0	300	0	47,800	13621	15823	0	100	15647	2307	0	300	0	47,798	133.7 59.2	47.8
15-Apr	25,400 18,600	27,400 24,600	0	400	44,000 25,600	7,800 6,400	0	1,000 1,200	0 200	106,000	25400 18600	27400 24599	0	400	44000 25600	7800 6400	0	1000 1200	200	106,000	138.2 48.6 122.9 33.0	
16-Apr 17-Apr	25,800	20,400	0	200	28,000	4,800	0	1,200	400	76,600 81,400	25800	20400	0	200	27999	4799	0	1800	400	76,599 81,398	120.0 34.2	
18-Apr	38,200	23,200	0	0	41,000	6,600	0	1,000	0	110,000	34626	21031	0	0	37166	5983	0	906	0	99,712	122.4 50.0	49.5
19-Apr	26,600	12,200	0	400	43,800	8,600	0	200	200	92,000	22574	10354	0	339	37171	7299	0	170	170	78,077	124.8 52.3	
20-Apr 21-Apr	34,000 51,039	21,600 21,817	0	200	96,800 138,642	13,000 11,802	0	1,400 800	400	167,200 224,300	33998 51038	21599 21816	0	0 199	96798 138640	13000 11802	0	1400 800	400	167,195 224,295	126.6 53.9 129.7 57.0	
22-Apr	44,200	18,800	0	200	61,800	6,800	0	1,000	200	133,000	44198	18800	0	200	61799	6800	0	1000	200	132,997	133.9 61.3	
23-Apr	33,800	16,200	0	0	53,600	6,000	0	0	0	109,600	33798	16200	0	0	53599	6000	0	0	0	109,597	124.2 52.3	51.1
24-Apr	41,400	10,600	0	0	56,000	6,800	0	200	200	115,200	41399	10600	0	0	55999	6800	0	200	200	115,198	120.1 53.7	
25-Apr 26-Apr	57,200 85,000	15,801 19,600	0	400 200	38,400 51,800	7,200 14,800	0	1,000	1,000	120,001 173,000	50664 76563	13994 17655	0	354 179	34013 46660	6377 13331	0	885 540	900	106,287 155,828	126.7 60.3 130.8 58.5	
27-Apr	56,400	13,800	0	200	52,600	8,800	0	600	1,400	133,800	56399	13800	0	200	52598	8800	0	600	1400	133,797	133.9 54.5	
28-Apr	92,231	21,012	0	0	64,248	21,609	0	400	1,600	201,100	92229	21012	0	0	64248	21609	0	400	1600	201,098	135.7 51.0	
29-Apr 30-Apr	106,800 105,800	25,200 18,000	0	200 200	54,800 36,600	14,800 14,800	0	1,000	800 1,200	203,600 177,000	106771 105793	25195 17996	0	199 200	54800 36599	14800 14800	0	999 400	800 1200	203,564 176,988	134.5 46.0 120.8 35.3	
1-May	83,200	14,600	0	0	40,400	9,800	0	200	2,800	151,000	73182	12843	0	0	35537	8621	0	176	2463	132,822	121.5 40.4	
2-May	114,800	17,400	0	200	28,800	6,400	0	200	2,000	169,800	47	464	0	1	878	465	0	0	0	1,855	118.7 29.8	
3-May	44,400	8,400	0	0	16,600	2,600	0	400	1,200	73,600	41	216	0	0	648	155	0	1	0	1,061	119.7 52.0 109.1 27.4	
4-May 5-May	51,000 51,840	7,200 4,007	0	200 200	30,600 36,248	7,200 7,605	0	200	200 400	96,400 100,500	45 78	420 262	0	1	803 807	219 306	0	6	0	1,488 1,460	111.9 22.9	
6-May	73,400	9,200	0	400	41,200	9,200	0	600	600	134,600	21	247	0	2	558	289	0	0	0	1,117	128.8 53.4	
7-May	79,200	8,800	0	0	47,400	10,600	0	0	1,600	147,600	0	0	0	0	0	0	0	0	0	0	151.9 77.6	
8-May 9-May	76,800 68,600	10,200 15,000	0	0	80,000 73,000	37,000 43,600	0 400	200	1,400 3,000	205,600 203,600	12 8	0 170	0	0	1 667	0 812	0	0	0	13 1,657	166.7 79.9 169.8 78.6	
10-May	46,600	10,600	0	200	48,200	31,800	1,800	0	4,600	143,800	12	351	0	0	666	956	0	0	2	1,987	165.9 74.9	
11-May	41,600	13,600	0	200	38,200	13,800	2,400	0	5,000	114,800	10	547	0	1	667	868	0	0	0	2,093	164.7 74.1	52.7
12-May	38,237	11,612	0	200	22,637	15,414	1,800	0	5,200	95,100	47	663	0	0	668	429	0	0	1	1,808	170.1 79.2	
13-May 14-May	24,800 9,600	6,400 4,400	0	200 600	12,800 16,200	9,000 13,000	1,400 600	0	5,200 2,200	59,800 46,600	12 0	510	0	3	663	606	0	0	0	1,794	180.5 89.0 181.0 89.8	
15-May	5,000	1,600	0	400	10,200	8,400	2,000	0	2,000	29,400	88	25	0	4	159	134	33	0	33	476	169.4 78.6	
16-May	8,500	2,400	0	0	11,200	9,500	600	0	1,800	34,000	673	489	0	0	1355	1797	49	0	139	4,502	154.6 64.4	51.3
17-May 18-May	3,900 6,450	1,000 2,650	0	100 250	7,400 10,300	4,600 8,350	500 950	50	1,200 2,450	18,700 31,450	7	284 261	0	0	503 502	985 785	7	0	2	1,781 1,567	147.4 57.1 137.2 47.3	
18-May 19-May	5,122	1,905	0	50	7,040	7,283	950 650	50	2,450 1,650	23,750	9	398	0	0	502	785 879	2	1	0	1,794	137.2 47.3 129.0 40.1	
20-May	2,950	1,450	100	50	7,400	6,900	600	0	1,150	20,600	2	509	0	0	441	1139	2	0	0	2,093	122.2 37.7	
21-May	2,950	1,500	150	150	5,750	5,150	450	150	700	16,950	0	0	0	1	0	0	0	0	0	1	113.8 28.8	
22-May 23-May	1,900 2,100	750 1,000	700	200 100	2,800 3,800	3,300 3,650	400 150	100	850 950	10,300 12,450	7	201	0 2	3	0 353	0 714	4	0	0	8 1,279	115.5 48.1 116.3 42.7	
24-May	2,100	1,800	950	250	5,150	5,150	300	150	1,800	18,050	4	160	2	2	360	762	2	3	3	1,279	127.1 44.1	
25-May	3,350	2,750	1,600	1,300	7,900	5,350	350	0	3,800	26,400	5	208	2	3	356	1042	0	0	0	1,616	149.2 59.6	56.3
26-May	2,806	2,850	9,050	13,400	6,813	5,082	200	150	1,950	42,301	1	362	0	3	519	1315	0	0	0	2,200	158.5 68.3	55.0

Table 2	ercent Daily	v Descaling a	nd Daily Fac	ility Mortali	ty Numbers at	t Lower Gran	ite Dam 201	7	1		1	l	I	1						I	1	
Table 2. I	C.COIR Dally	, Descaning a	Daily I'd	any worldli	., manipers a	Lower Grall	Daili, 201														<u> </u>	
					Percent Dai	ly Descaling								Daily Fac	ility Mortality	Numbers						
Dete	V	Chinash	Colonialia	- Chinl-	C+I	h J	C1	(IZ = 1	C-h-	T-4-1	Vli	Chinal	Calarandia	Chinl-	C4	Dece d	C1	(V-1	C-b-	D.J.	Donosant	
Date	Clipped	Chinook Unclipped	Clipped	ng Chinook Unclipped		lhead Unclipped	Clipped	/Kokanee Unclipped	Coho	Total Facility	Yearling Clipped	Chinook Unclipped	Clipped	Unclipped		Unclipped	Clipped	/Kokanee Unclipped	Coho	Daily Total	Percent Mortality	
26-Mar	2.0	5.9			0.1	1.0		0.0		0.4	0	2	0	3	1 1	2	0	0	0	Total	3 0.01%	
27-Mar	0.0	0.0			0.2	0.0		50.0	0.0	0.3	0	1	0	0	4	0	0	0	0		0.01%	
28-Mar	0.0	0.0			1.3	0.0		0.0		0.9	1	0	0	0	1	0	0	0	0	:	0.01%	
29-Mar	0.0	0.0			2.9	0.0				1.3	0	0	0	0	1	1	0	0	0		0.03%	
30-Mar 31-Mar	1.6	0.0			3.8 0.9	5.6 0.0		0.0	0.0	2.6 0.9	0	0	0	0	3	0	0	0	0		0.01%	
1-Apr	0.8	0.0			0.7	0.0		0.0	0.0	0.6	0	0	0	0	0	0	0	0	0		0.00%	
2-Apr	3.6	0.0			0.0	0.0			0.0	1.0	0	0	0	0	0	0	0	0	0	(0.0070	
3-Apr	0.0	0.0			1.9	0.0		0.0	0.0	0.8	0	0	0	0	0	0	0	0	0		0.00%	
4-Apr 5-Apr	1.9	0.0			2.9 1.5	0.0		0.0	0.0	0.8	0	0	0	0	0	0	0	0	0		0.00%	
6-Apr	1.6	2.0			0.0	2.9		0.0		1.2	0	1	0	0	1	0	0	2	0		1 0.04%	
7-Apr	0.0	1.1			0.5	0.0		0.0	0.0	0.5	1	0	0	0	0	0	0	0	0		0.01%	
8-Apr	0.0	0.0			0.4	0.0		0.0	0.0	0.2	2	4	0	0	1	0	0	0	0		0.05%	
9-Apr 10-Apr	1.8	0.0			1.3 0.0	0.0		0.0		1.0 0.4	0	0	0	0	0	0	0	1 2	0		0.01%	
10-Apr 11-Apr	1.7	0.5			0.0	0.0		0.0		0.4	1	0	0	0	0	0	0	1	0		2 0.01%	
12-Apr	5.3	1.0			1.1	0.0		0.0		1.9	0	1	0	0	0	0	0	0	0		0.01%	
13-Apr	1.2	1.0			2.9	0.0		0.0		1.6	0	0	0	0	0	0	0	0	0	(0.00%	
14-Apr	3.1	0.0			0.0 1.4	0.0		0.0		0.6	0	0	0	0	0	0	0	0	0		0.00%	
15-Apr 16-Apr	5.4	0.0			2.3	0.0		0.0	0.0	2.4	0	1	0	0	0	0	0	0	0		0.00%	
17-Apr	0.8	1.0			2.2	4.3		11.1	0.0	1.7	0	0	0	0	1	1	0	0	0		2 0.00%	
18-Apr	2.6	0.0			0.5	0.0		0.0		1.1	2	0	0	0	0	0	0	0	0	:	0.00%	
19-Apr	1.5	3.3			0.9	0.0		0.0	0.0	1.3	1	0	0	0	2	0	0	0	0		0.00%	
20-Apr 21-Apr	3.1	0.0			1.7 2.7	0.0		0.0	0.0	1.4 2.4	2	1	0	0	2	0	0	0	0		0.00%	
22-Apr	0.9	0.0			0.6	0.0		0.0	0.0	0.6	2	0	0	0	1	0	0	0	0		0.00%	
23-Apr	1.2	1.2	-		1.5	3.3	-			1.5	2	0	0	0	1	0	0	0	0		0.00%	
24-Apr	1.9	0.0			1.1	2.9		0.0	0.0	1.4	1	0	0	0	1	0	0	0	0		0.00%	
25-Apr 26-Apr	1.1	0.0 1.0			0.5 1.2	2.8 0.0		0.0	0.0	0.8	1 2	0	0	0	0	0	0	0	0		0.00% 0.00%	
27-Apr	1.4	1.4			2.3	4.5		0.0	0.0	2.0	1	0	0	0	2	0	0	0	0		0.00%	
28-Apr	1.5	1.0			1.2	2.8		0.0	0.0	1.5	2	0	0	0	0	0	0	0	0			
29-Apr	1.7	0.8			0.7	1.4		0.0	0.0	1.3	29	5	0	1	0	0	0	1	0	30		
30-Apr 1-May	1.9	2.3 0.0			1.1	0.0		0.0	0.0	1.6	7 8	4	0	0	2	0	0	0	0	. 11		
2-May	1.7	2.3			1.0	0.0		100.0	0.0	1.2	224	29	0	0	5	1	0	12	1	27		
3-May	2.7	0.0			1.2	0.0		0.0	0.0	1.9	143	23	0	0	3	0	0	5	1	17:	0.24%	
4-May	1.2	2.8			1.3	2.8			0.0	1.5	104	13	0	1	6	0	0	0	1	12:		
5-May	1.9 2.2	0.0 2.2			1.7	0.0		0.0	0.0	1.6 2.7	112	16	0	1	7	0	0	14	0	150		
6-May 7-May	1.3	0.0			4.4 3.8	0.0		0.0	0.0	1.9	114 126	10	0	0	6	0	0	8	0	139		
8-May	1.6	0.0			5.8	1.1		0.0	0.0	3.0	109	11	0	0	7	0	0	13	1	14		
9-May	0.6	2.7			5.8	2.3	0.0		0.0	3.0	105	16	0	0	4	1	0	0	0	120		
10-May	1.3	1.9		0.0	11.3	2.5	0.0		4.5	5.0	89	11	0	0	12	3	0	0	2	11'		
11-May 12-May	3.4 2.1	1.5 1.7		0.0	7.3 3.5	4.3 2.6	0.0		0.0	4.4 2.3	77 79	10 17	0	0	3	0	1 2	0	4	9:		
13-May	2.4	0.0			4.7	0.0	14.3		7.7	3.0	46	7	0	2	3	3	4	0	3	6		
14-May	4.2	0.0			7.4	1.5	0.0		0.0	3.9	39	6	0	2	1	0	7	0	3	51	0.12%	
15-May	4.0	0.0		0.0	0.0	2.4	10.0		0.0	2.1	16	4	0	3	0	1	0	0	0	2		
16-May 17-May	4.8 5.1	0.0		0.0	6.3 8.1	3.2 4.3	0.0		0.0	4.1 5.3	27 28	6	0	0	0	1	5	0	3	. 41		
17-May 18-May	1.6	0.0		0.0	7.8	4.3	10.5	0.0	0.0	4.5	28 17	0	0	2	1	2	1	22	2	. 3		
19-May	2.0	0.0		0.0	3.6	2.1	0.0	0.0	0.0	2.1	20	4	0	0	2	0	4	2	1	3:		
20-May	0.0	0.0	0.0	0.0	6.1	1.4	0.0		4.3	2.9	13	4	2	0	0	0	1	0	1	2		
21-May	1.7	3.4 0.0	0.0	0.0	7.1	2.9	0.0	0.0	0.0	3.9	4	2	0	1	2	2	5	1	0	1		
22-May 23-May	5.3 4.9	0.0	0.0	0.0	10.7 2.6	1.5 2.7	37.5 0.0	0.0	5.3	5.9 2.8	1	0	0	0	0	0	0	0	0			
24-May	2.0	0.0	5.6	0.0	8.7	1.9	0.0	0.0	2.8	3.9	0	0	1	0	0	0	0	0	0		0.02%	
25-May	0.0	0.0	0.0	0.0	6.3	1.9	14.3		0.0	2.5	37	36	9	9	1	0	0	0	7	9	0.38%	
26-May	3.6	0.0	0.0	0.0	4.4	2.0	0.0	0.0	0.0	1.2	45	68	38	36	16	9	0	4	13	229	0.54%	

Table 3 Da	uly Number of	Fish Trucked a	and Barged Fro	om Lower Gra	nite Dam 2	017		1				1		1	l	1					
ruote 3. De	ing reamber or	I isii Truckeu t	ina Dingea I I																		
				Daily 1	Numbers Tru	icked								Daily	Numbers Bar	ged					
Date	Yearlino	Chinook	Subyearlin	g Chinook	Stee	lhead	Sockeye/	Kokanee	Coho	Daily	Yearling	Chinook	Subvearlir	ng Chinook	Stee	lhead	Sockeye	/Kokanee	Coho	Daily	
Dute	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped	Cono	Total	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped	Cono	Total	
26-Mar										0										0	
27-Mar										0										0	
28-Mar 29-Mar										0										0	
30-Mar										0										0	
31-Mar										0										0	
1-Apr										0										0	
2-Apr 3-Apr										0										0	
4-Apr										0										0	
5-Apr										0										0	
6-Apr										0										0	
7-Apr 8-Apr										0										0	
9-Apr										0										0	
10-Apr										0										0	
11-Apr										0										0	
12-Apr 13-Apr										0	4.997	6,339	0	0	8,870	1,031	0	172	0	21,409	
14-Apr										0										0	
15-Apr										0										0	
16-Apr										0										0	
17-Apr 18-Apr										0										0	
19-Apr										0										0	
20-Apr										0	7,597	4,015	0	61	10,461	1,918	0	124	30	24,206	
21-Apr										0										0	
22-Apr 23-Apr										0										0	
24-Apr										0										0	
25-Apr										0										0	
26-Apr										0	14.070	2.751			0.527	2 202		174	100	20,000	
27-Apr 28-Apr										0	14,970	3,751	0	66	9,527	2,292	0	174	100	30,880	
29-Apr										0										0	
30-Apr										0										0	
1-May										0	124,539	10.662		199	22.770	7.112	0	212	2 226	195.940	
2-May 3-May										0	44,216	18,663 8,161	0	0	32,778 15,949	7,113 2,445	0	212 394	2,336 1,199	185,840 72,364	
4-May										0		6,767	0	198	29,791	6,981	0	0	199	94,787	
5-May										0		3,729	0	198	35,434	7,299	0	180	400	98,890	
6-May										0	,	8,943 8,778	0	398	40,636	8,910 10,600	0	592	600 1,600	133,344	
7-May 8-May										0	79,074 76,679	10,189	0	0	47,396 79,992	37,000	0	0 187	1,399	147,448 205,446	
9-May										0	68,487	14,814	0	0	72,329	42,787	400	0	3,000	201,817	
10-May										0	46,499	10,238	0	200	47,522	30,841	1,800	0	4,596	141,696	
11-May 12-Mav										0	41,513 38,111	13,043 10.932	0	198 200	37,531 21,966	12,932 14,984	2,399 1.798	0	4,996 5,195	112,612 93,186	
12-May 13-May										0	24,742	5,883	0	197	12,134	8,391	1,798	0	5,195	57,938	
14-May										0	9,561	4,394	0	595	16,199	13,000	593	0	2,197	46,539	
15-May										0	4,896	1,571	0	393	9,841	8,265	1,967	0	1,967	28,900	
16-May 17-May										0	7,800 3,865	1,905 713	0	0 99	9,845 6,896	7,702 3,614	546 498	0	1,658 1,197	29,456	
17-May 18-May										0	6,424	2,389	0	247	9,797	7,563	942	28	2,446	16,882 29,836	
19-May										0		1,503	0	50	6,533	6,404	644	47	1,649	21,923	
20-May										0		937	98	50	6,959	5,761	597	0	1,149	18,486	
21-May										0		1,498 749	150	148	5,748 2,800	5,148	445	149	700 850	16,932	
22-May 23-May										0	1,899 2,092	749	0 698	197 99	2,800 3,447	3,299 2,936	396 149	100	950 950	10,290 11,169	
24-May										0	2,496	1,640	947	248	4,790	4,388	298	147	1,797	16,751	
25-May										0	3,308	2,506	1,589	1,288	7,543	4,308	350	0	3,793	24,685	
26-May										0	2,760	2,420	9,012	13,361	6,278	3,758	200	146	1,937	39,872	

m 11 (P						G : D 40						1			ı					
Table 4. Da	ily Number	of Adult Fall	backs and Fa	allback Morta	ality at Lower	Granite Dam, 20	17.													
					Daily Fallback	Numbers		1						Daily Fallba	ck Mortality	Numbers		1		
Date		k Adults		ok Jacks		elhead	Socke		Coho	Daily	Chinook			ok Jacks		lhead		ckeye	Coho	Daily
26-Mar	Clipped 0	Unclipped 0	Clipped 0	Unclipped 0	Clipped 7	Unclipped	Clipped 0	Unclipped 0	0	Total 10	Clipped 0	Unclipped 0	Clipped	Unclipped 0	Clipped 1	Unclipped 0	Clipped 0	Unclipped 0	0	Total
27-Mar	0	0	0	0	5	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0
28-Mar	0	0	0	0	9	9	0	0	0	18	0	0	0	0	1	0	0	0	0	1
29-Mar	0	0	0	0	6	3	0	0	0	9	0	0	0	0	0	0	0	0	0	0
30-Mar	0	0	0	0	7	5 10	0	0	0	12	0	0	0	0	0	0	0	0	0	0
31-Mar 1-Apr	0	0	0	0	6	13	0	0	0	14 19	0	0	0	0	0	0	0	0	0	0
2-Apr	0	0	0	0	10	11	0	0	0	21	0	0	0	0	0	1	0	0	0	1
3-Apr	0	0	0	0	5	3	0	0	0	8	0	0	0	0	1	0	0	0	0	1
4-Apr	0	0	0	0	8	3	0	0	0	11	0	0	0	0	0	0	0	0	0	0
5-Apr 6-Apr	0	0	0	0	5 4	3 2	0	0	0	8	0	0	0	0	0	0	0	0	0	0
7-Apr	0	0	0	0	9	6	0	0	0	15	0	0	0	0	0	0	0	0	0	0
8-Apr	0	0	0	0	5	3	0	0	0	8	0	0	0	0	0	0	0	0	0	0
9-Apr	0	0	0	0	10	10	0	0	0	20	0	0	0	0	0	0	0	0	0	0
10-Apr 11-Apr	0	0	0	0	11 11	7 6	0	0	0	18 17	0	0	0	0	0	0	0	0	0	0
12-Apr	0	0	0	0	9	8	0	0	0	17	0	0	0	0	0	0	0	0	0	0
13-Apr	0	0	0	0	11	8	0	0	0	19	0	0	0	0	1	0	0	0	0	1
14-Apr	0	0	0	0	5 24	8 14	0	0	0	13 38	0	0	0	0	2	0	0	0	0	1
15-Apr 16-Apr	0	0	0	0	27	19	0	0	0	38 46	0	0	0	0	3	1	0	0	0	2 4
17-Apr	0	0	0	0	9	18	0	0	0	27	0	0	0	0	0	0	0	0	0	0
18-Apr	0	0	0	0	27	24	0	0	0	51	0	0	0	0	0	0	0	0	0	0
19-Apr	0	0	0	0	18	22	0	0	0	40 19	0	0	0	0	0	0	0	0	0	0
20-Apr 21-Apr	0	0	0	0	6 8	11 27	0	0	0	35	0	0	0	0	0	0	0	0	0	0
22-Apr	0	0	0	0	12	23	0	0	0	35	0	0	0	0	0	0	0	0	0	0
23-Apr	0	0	0	0	20	17	0	0	0	37	0	0	0	0	0	0	0	0	0	0
24-Apr	0	0	0	0	17 13	20 5	0	0	0	37 18	0	0	0	0	0	0	0	0	0	0
25-Apr 26-Apr	0	0	0	0	17	11	0	0	0	28	0	0	0	0	0	0	0	0	0	0
27-Apr	0	0	0	0	15	10	0	0	0	25	0	0	0	0	0	0	0	0	0	0
28-Apr	0	0	0	0	20	15	0	0	0	35	0	0	0	0	1	1	0	0	0	2
29-Apr	0	0	0	0	16 21	21 26	0	0	0	37 47	0	0	0	0	0	0	0	0	0	1 0
30-Apr 1-May	0	0	0	0	19	14	0	0	0	33	0	0	0	0	1	0	0	0	0	1
2-May	0	0	0	0	16	13	0	0	0	29	0	0	0	0	0	0	0	0	0	0
3-May	0	0	0	0	7	13	0	0	0	20	0	0	0	0	0	0	0	0	0	0
4-May	0	0	0	0	8	16	0	0	0	24 23	0	0	0	0	0	0	0	0	0	0
5-May 6-May	0	0	0	0	8 10	15 20	0	0	0	30	0	0	0	0	0	0	0	0	0	0
7-May	0	0	0	0	13	13	0	0	0	26	0	0	0	0	1	0	0	0	0	1
8-May	0	0	0	0	5	19	0	0	0	24	0	0	0	0	0	0	0	0	0	0
9-May 10-May	0	0	0	0	9 7	7 14	0	0	0	16 21	0	0	0	0	0	0	0	0	0	0
11-May	0	0	0	0	7	9	0	0	0	16	0	0	0	0	0	1	0	0	0	1
12-May	0	0	0	0	7	15	0	0	0	22	0	0	0	0	0	0	0	0	0	0
13-May	0	0	0	0	7	5	0	0	0	12	0	0	0	0	0	0	0	0	0	0
14-May 15-May	0	0	0	0	5	6	0	0	0	4 11	0	0	0	0	0	0	0	0	0	0
16-May	0	0	0	0	3	12	0	0	0	15	0	0	0	0	0	0	0	0	0	0
17-May	1	0	1	0	3	3	0	0	0	8	0	0	0	0	0	0	0	0	0	0
18-May	0	0	0	0	4	10	0	0	0	14	0	0	0	0	0	0	0	0	0	0
19-May	0	0	0	0	2	6 8	0	0	0	8	0	0	0	0	0	0	0	0	0	0
20-May 21-May	1	1	0	0	4	8	0	0	0	10 14	0	0	0	0	0	0	0	0	0	0
22-May	0	0	0	0	3	6	0	0	0	9	0	0	0	0	0	0	0	0	0	0
23-May	1	0	0	0	2	6	0	0	0	9	0	0	0	0	0	0	0	0	0	0
24-May	0	0	0	0	2	8 12	0	0	0	10	0	0	0	0	0	0	0	0	0	0
25-May 26-May	5	0	0	0	5 2	6	0	0	0	18 14	0	0	0	0	0	0	0	0	0	0
20-111ay		U				L U	U	J	U	14	v	J	U		J			U	v	U

Table 1. I	Daily Collection	on and Bypass	Numbers ar	d River Con	ditions at Low	er Granite Dam	ı, 2017.							1 1									\neg
		,,																					
				Daily Nu	mber of Fish C	ollected								Daily N	Jumbers Bypas	ssed					River Condi		
	** **	a	a 1 1	con i				ar i	0.1	D 11	** **	C1: 1	0.1	GI I	0. 1						River		Water
Date	Yearling		Subyearlin	_		lhead		/Kokanee	Coho	Daily	Yearling			ng Chinook	Steel			/Kokanee	Coho	Daily			Γemp.
27-May	Clipped 1,500	Unclipped 3,400	Clipped 9,000	Unclipped 15,300	Clipped 7,600	Unclipped 7,700	Clipped 0	Unclipped 400	2,200	Total 47,100	Clipped 5	Unclipped 149	Clipped 1	Unclipped 2	Clipped 185	Unclipped 424	Clipped 0	Unclipped 0	0	Total 766			^{(o} F) 53.4
28-May	800	1,200	10,900	20,300	7,000	8,000	0	0	1,200	49,400	0	0	1	2	0	0	0	0	0	700			53.4
29-May	100	1,500	12,600	26,500	2,200	2,000	100	100	900	46,000	0	0	2	4	0	0	0	0	0	6			54.5
30-May	100	800	11,900	20,100	2,300	2,400	0	0	600	38,200	0	0	14	46	0	0	0	0	0	60			55.4
31-May	100	800	10,200	17,800	2,300	1,800	100	100	800	34,000	0	53	21	49	265	215	0	0	0	603			56.3
1-Jun	200	800	17,900	21,100	1,900	3,300	0	0	1,300	46,500	0	54	56	88	267	230	0	0	2	697			56.3
2-Jun	200 300	502	7,400	8,900	2,471	1,528	0	0	500	21,501	0	57	86	84	263	322	0	0	0	812			56.1
3-Jun 4-Jun	300	900 700	8,200 9,900	10,000 9,100	1,200 1,600	1,900 3,500	0	0	400 400	22,900 25,500	0	13 0	7 2	5	261	341	0	0	0	627			55.6 55.9
5-Jun	200	200	8,700	8,900	800	500	0	0	100	19,400	0	0	7	3	2	0	0	0	0	12			56.3
6-Jun	0	400	7,300	9,100	1,100	700	0	100	400	19,100	0	0	11	6	150	131	0	1	0	299			56.5
7-Jun	0	100	5,400	5,300	1,200	900	0	0	0	12,900	0	0	4	9	151	94	0	0	0	258			57.2
8-Jun	0	300	4,700	4,100	500	700	0	0	100	10,400	0	1	11	10	150	175	0	0	0	347			57.7
9-Jun	50	400	4,000	3,450	1,350	650	0	50	50	10,000	0	0	2	2	150	195	0	0	0	349			58.1
10-Jun 11-Jun	100	250 100	6,800 6,500	7,400 7,050	650 1,200	750 350	0	0	250 0	16,200	0	0	0	2	50	152 0	0	0	0	208			57.7 57.2
11-Jun 12-Jun	50	250	4,725	5,500	800	550	0	0	100	15,200 11,975	0	0	0	1	0	0	0	0	0	1			57.2
13-Jun	50	200	1,950	2,150	350	200	0	0	100	5,000	0	0	4	7	100	170	0	0	0	281			56.8
14-Jun	0	250	2,050	2,700	650	350	0	0	50	6,050	0	0	0	2	100	146	0	0	0	248	121.2		57.6
15-Jun	25	125	3,500	3,975	375	225	0	25	25	8,275	0	8	155	191	100	119	0	1	0	574			57.6
16-Jun	25	50	3,453	4,587	503	407	0	0	50	9,075	0	0	0	9	105	104	0	0	0	218			56.7
17-Jun	25	250	2,725	4,200	500	325	0	25	150	8,200	0	1	3	21	1	85 0	0	1	0	112			56.7
18-Jun 19-Jun	25 0	75 125	2,025 2,275	3,600 4,300	525 375	100 125	0	0	25 75	6,375 7,275	0	0	0	4 8	0	0	0	0	0	4			57.9 58.8
20-Jun	0	150	1,150	3,050	150	275	0	0	75	4,850	0	0	0	7	0	0	0	0	0	7			60.1
21-Jun	25	100	650	1,900	250	150	0	0	50	3,125	0	0	0	5	0	0	0	0	0	5			60.8
22-Jun	25	250	1,475	3,225	425	175	0	25	75	5,675	0	0	0	4	0	0	0	0	0	4			61.5
23-Jun	0	0	1,936	4,267	742	205	0	0	25	7,175	0	0	0	4	0	0	0	0	0	4			62.1
24-Jun 25-Jun	0	25 50	2,175 1,975	4,650 4,525	750 400	150 125	0	0	0 50	7,750 7,125	0	0	0	3	0	0	0	0	0	3			62.2 62.4
26-Jun	0	25	2,050	5,925	250	150	0	25	50	8,475	0	0	0	5	0	0	0	0	0	5			62.6
27-Jun	0	0	3,125	5,775	375	100	0	50	25	9,450	0	0	0	2	0	0	0	0	0	2			62.8
28-Jun	0	25	1,925	4,150	100	25	0	25	0	6,250	0	0	0	3	0	0	0	0	0	3			63.5
29-Jun	0	0	1,675	3,775	100	25	0	50	0	5,625	0	0	0	2	0	0	0	0	0	2			64.2
30-Jun	25	0	1,763	5,181	105	2	0	0	0	7,076	0	0	0	0	0	0	0	0	0	0			64.9
1-Jul 2-Jul	0	0	1,900 2,125	4,050 5,550	25 25	50 0	0	0	0	6,025 7,700	0	0	0	1	0	0	0	0	0	1			65.7 65.8
3-Jul	0	0	1,425	4,025	75	0	0	0	0	5,525	0	0	0	1	0	0	0	0	0	1			66.0
4-Jul	0	0	925	3,775	25	0	0	25	0	4,750	0	0	0	2	0	0	0	0	0	2			66.4
5-Jul	0	0	1,225	4,375	0	25	0	50	0	5,675	0	0	0	0	0	0	0	0	0	0		8.4 e	66.9
6-Jul	0	0	1,375	3,950	25	0	0	50	0	5,400	0	0	0	1	0	0	0	0	0	1			67.6
7-Jul	0	0	2,583	7,417	26	25	0	75	0	10,126	0	0	0	0	0	0	0	0	0	0			67.8
8-Jul 9-Jul	0	0	2,075 950	5,525 5,650	0	0	0	75 50	0	7,675 6,650	0	0	0	0	0	0	0	0	0	0			68.0 68.4
10-Jul	0	0	900	4,250	0	0	0	0	0	5,150	0	0	0	0	0	0	0	0	0	0			68.9
11-Jul	0	0	750	2,400	0	0	0	0	0	3,150	0	0	0	0	0	0	0	0	0	0	55.8 18		68.9
12-Jul	0	0	900	2,250	0	0	0	0	0	3,150	0	0	0	0	0	0	0	0	0	0			68.7
13-Jul	0	0	1,200	3,700	0	0	0	0	0	4,900	0	0	0	0	0	0	0	0	0	0			68.9
14-Jul	0	0	709	3,113	3	0	0	0	0	3,825	0	0	0	0	0	0	0	0	0	0			68.5 68.7
15-Jul 16-Jul	0	0	1,300 1,225	3,950 4,125	25 25	0	0	25 25	0	5,300 5,400	0	0	0	0	0	0	0	0	0	0			68.7
17-Jul	0	25	800	3,250	0	0	0	25	0	4,100	0	0	0	0	0	0	0	0	0	0			68.9
18-Jul	0	0	1,250	4,950	50	0	0	50	0	6,300	0	0	0	0	0	0	0	0	0	0			69.1
19-Jul	0	0	800	3,775	25	25	0	25	0	4,650	0	0	0	0	0	0	0	0	0	0			69.1
20-Jul	0	0	775	3,425	0	0	0	25	0	4,225	0	0	0	0	0	0	0	0	0	0			68.2
21-Jul	0	0	571	4,010	0	0	0	0	0	4,581	0	0	1340	7394	0	0	0	25	0	8,759			67.8
22-Jul 23-Jul	0	0	700 525	3,275 1,600	0	0	0	0	0	3,975 2,125	0	0	699 525	3272 1598	0	0	0	0	0	3,971 2,123			68.0 68.7
24-Jul	0	0	580	2,660	20	0	0	0	0	3,260	0	0	551	2528	19	0	0	0	0	3,098			68.4
25-Jul	0	0	400	2,920	20	0	0	0	0	3,340	0	0	5	38	1	0	0	0	0	44			68.2
26-Jul	0	0	140	1,940	0	20	0	20	0	2,120	0	0	0	0	0	0	0	0	0	0	41.2	8.1	68.9
27-Jul	0	0	400	2,640	0	0	0	0	0	3,040	0	0	0	0	0	0	0	0	0	0	40.7	8.1	69.1

Table 2. P	ercent Daily	y Descaling at	nd Daily Fac	cility Mortali	ty Numbers at	t Lower Gran	ite Dam. 201	7.														
							,															
					Percent Dail	ly Descaling								Daily Fac	ility Mortality	Numbers						
Date	Vaarling	g Chinook	Cubronelie	ng Chinook	Steel	bood	Cookara	/Kokanee	Coho	Total	Vacelina	Chinook	Cubronelia	ng Chinook	Stan	lhead	Coalcava	/Kokanee	Coho	Daily	Percent	
Date	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped	Cono	Facility	Clipped	Unclipped	Clipped	Unclipped		Unclipped	Clipped	Unclipped	Collo	Total	Mortality	
27-May	0.0	0.0	1.1	0.0	9.2	3.9		33.3	4.5	2.8	11	9	78	214	5	2	0	3	7	329		
28-May	12.5	0.0	0.0	0.0	10.0	1.3			0.0	1.9	4	5	88	135	5	2	0	0	2	241		
29-May	0.0	6.7	0.0	0.0	9.1	0.0	0.0	0.0	0.0	0.7	4	6	122	190	0	1	2	3	0	328		
30-May	0.0	12.5	0.0	0.0	17.4	8.3			0.0	1.9	0	0	48	77	0	0	0	0	0	125		
31-May 1-Jun	0.0	0.0	0.0	0.0 1.0	13.0 21.1	5.6 0.0	0.0	0.0	0.0	1.5	2	2	51 41	106 81	0	0	0	0	0	163 125		
2-Jun	0.0	0.0	0.0	0.0	0.0	0.0			20.0	0.5	0	1	25	33	0	0	0	0	0	. 123		
3-Jun	0.0	0.0	1.3	0.0	8.3	5.3			0.0	1.4	0	1	100	70	0	1	0	0	0	172		
4-Jun	0.0	0.0	1.0	0.0	12.5	0.0			0.0	1.2	0	0	54	49	0	0	0	0	0	103		
5-Jun	0.0	0.0	1.2	0.0	0.0	0.0			0.0	0.5	0	0	57	51	0	1	0	0	0	109		
6-Jun		0.0	0.0	0.0	9.1	14.3		0.0	0.0	1.1	0	0	21	27	0	0	0	0	0	49		
7-Jun 8-Jun		0.0	0.0	2.0 1.3	0.0 10.0	0.0			0.0	0.8	0	2	31 59	19 59	0	1	0	0	0	52 121		
9-Jun	0.0	0.0	0.0	0.0	7.4	0.0		0.0	0.0	1.0	1	2	36	47	0	0	0	3	0	89		
10-Jun	0.0	0.0	0.0	0.0	15.4	0.0			0.0	0.6	0	0	29	34	0	0	0	0	1	64	0.40%	
11-Jun		0.0	0.0	0.0	0.0	14.3				0.3	0	0	29	56	0	1	0	0	0	86		
12-Jun	0.0	0.0	2.2	0.5	12.5	9.1			0.0	2.3	0	0	74	56	0	0	0	0	0	130		
13-Jun 14-Jun	0.0	20.0	2.8	0.0 1.9	14.3 0.0	0.0			0.0	2.1	0	0	31	38	0	0	0	0	0	. 71		
15-Jun	0.0	0.0	1.5	1.9	13.3	0.0		0.0	0.0	1.9	0	0	26	30	0	0	0	4	0	. 60		
16-Jun	0.0	0.0	0.0	0.6	0.0	0.0			0.0	0.3	0	0	14	22	0	0	0	0	0	36		
17-Jun	0.0	10.0	0.9	1.4	5.0	0.0		100.0	0.0	2.0	0	0	17	12	0	0	0	0	0	29	0.35%	
18-Jun	0.0	0.0	1.3	3.6	0.0	25.0			0.0	2.8	0	0	14	18	0	0	0	0	0	. 32		
19-Jun 20-Jun		0.0 16.7	0.0	0.0	0.0	0.0			0.0	0.4	0	0	5	15	0	0	0	0	0	20 20		
20-Jun 21-Jun	0.0	0.0	7.7	1.4	0.0	0.0			0.0	2.5	0	0	8	12 20	0	0	0	0	0	29		
22-Jun	0.0	10.0	3.4	3.2	0.0	0.0		0.0	0.0	3.2	0	0	1	11	0	0	0	1	0	13		
23-Jun			0.0	1.2	0.0	0.0			0.0	0.7	0	0	20	33	0	1	0	0	0	54		
24-Jun		0.0	7.0	1.6	0.0	0.0				2.9	0	0	19	28	0	0	0	0	0	47		
25-Jun		0.0	3.9	2.3	0.0	0.0			0.0	2.5	0	0	30	39	2	0	0	0	0	71		
26-Jun 27-Jun		0.0	2.4 1.6	1.7 0.4	0.0	33.3 0.0		0.0	0.0	0.8	0	0	12 16	18 45	0	0	0	0	0	32 62		
28-Jun		0.0	0.0	1.3	0.0	0.0		100.0		1.2	0	0	20	32	0	0	0	0	0	. 52		
29-Jun			0.0	4.8	0.0	0.0		50.0		3.7	0	0	11	26	0	0	0	0	0	37		
30-Jun	0.0		1.4	3.0	0.0					2.5	0	0	7	32	0	0	0	0	0	39		
1-Jul			5.5	2.5	0.0	0.0				3.4	0	0	41	69	1	0	0	0	0	111		
2-Jul 3-Jul			1.2 7.3	1.8 3.2	0.0					1.7 4.2	0	0	30 38	60 99	0	0	0	0	0	91		
4-Jul			2.9	2.8	0.0			0.0		2.8	0	0	10	23	0	0	0	5	0	. 137		
5-Jul			6.1	3.5		0.0		0.0		4.1	0	0	17	72	0	0	0	1	0	90		
6-Jul			0.0	2.7	0.0			0.0		1.9	0	0	28	108	0	0	0	0	0	136		
7-Jul			1.0	1.0	0.0	0.0		33.3		1.3	0	0	38	108	0	0	0	0	0	146		
8-Jul			0.0	0.9				0.0		0.7	0	0	17 34	48 87	0	0	0	2	0	123		
9-Jul 10-Jul			5.6	2.4						2.9	0	0	30	69	0	0	0	0	0	99		
11-Jul			0.0	0.0						0.0	0	0	20	85	0	0	0	0	0	105		
12-Jul			0.0	7.0						5.0	0	0	17	48	0	0	0	0	0	65	2.06%	
13-Jul			4.2	1.4						2.0	0	0	18	46	0	0	0	0	0	64		
14-Jul			0.0	0.0						0.0	0	0	12	36	0	0	0	0	0	48		
15-Jul 16-Jul			2.0 4.1	1.9 3.1	0.0			0.0		1.9 3.3	0	0	15 8	61 32	0	0	0	4 0	0	. 83 40		
17-Jul		0.0	3.3	1.6				0.0		1.9	0	2	15	58	0	0	0	1	0	. 40 76		
18-Jul			2.0	3.0	0.0			0.0		2.8	0	0	2	24	0	0	0	1	0	27	0.43%	
19-Jul			9.4	4.7	0.0	0.0	1	0.0		5.4	0	0	6	55	0	0	0	1	0	62		
20-Jul			0.0	2.2				0.0		1.8	0	0	4	22	0	0	0	0	0	26		
21-Jul 22-Jul			3.7	0.0						0.0	0	0	2	19	0	0	0	0	0	. 21		
22-Jul 23-Jul			0.0	1.6						1.3	0	0	0	2	0	0	0	0	0	. 4		
24-Jul			0.0	0.8	0.0					0.6	0	0	0	1	0	0	0	0	0	1	0.03%	
25-Jul			0.0	4.9	0.0		-			4.2	0	0	2	8	0	0	0	0	0	10		
26-Jul			0.0	1.1		0.0		0.0		1.0	0	0	0	11	0	2	0	0	0	13		
27-Jul			0.0	4.7						4.0	0	0	6	43	0	0	0	0	0	49	1.61%	

T-1-1-2 D-	:l Nl6	Fish Tourseland		I C	it. D 20	017															
Table 3. Da	ily Number of	Fish Trucked	and Barged Fro	om Lower Gra	anite Dam, 20	017.															
				Daily l	Numbers Tru	icked								Daily	Numbers Bar	ged					
ъ.	37 1	CIL: 1	0.1 1	CII: 1	0.	11 1	0.1	17.1	6.1	D. 11	37 1	CI: I	6.1. 1	CI. 1	G.	, ,	0.1	OZ 1	Coho	D 7	
Date	Clipped	Chinook Unclipped	Subyearlin Clipped	Unclipped	Clipped	Unclipped	Sockeye/ Clipped	Unclipped	Coho	Daily Total	Clipped	Chinook Unclipped	Clipped	Unclipped	Clipped	Unclipped	Clipped	/Kokanee Unclipped	Cono	Daily Total	
27-May										0										0	
28-May										0	2,280	4,437	19,732	35,247	14,405	15,272	0	397	3,391	95,161	
29-May 30-May										. 0	196	2,294	24,314	46,283	4,500	4,399	98	97	1,500	0 83,681	\vdash
31-May										0		2,294	24,314	40,265	4,300	4,399			1,500	03,081	
1-Jun										0	296	1,490	27,931	38,576	3,668	4,655	99	100	2,097	78,912	
2-Jun 3-Jun										. 0	500	1,330	15,382	18,708	3,147	2,764	0	0	900	0 42,731	
4-Jun										0	300	1,550	15,382	18,708	3,147	2,704			900	42,731	
5-Jun										0	500	900	18,480	17,893	2,398	3,998	0	0	500	44,669	
6-Jun										. 0		400	10.622	14.220	1.000	1.075				0	
7-Jun 8-Jun										0		499	12,633	14,339	1,998	1,375	0	98	400	31,342	
9-Jun										0	49	695	8,592	7,432	1,550	979	0	47	150	19,494	
10-Jun										0	100	250	12 229	14.257	1 200	047			240	0	
11-Jun 12-Jun										. 0	100	350	13,238	14,357	1,800	947	0	0	249	31,041	
13-Jun										0	100	450	6,566	7,548	1,050	580	0	0	198	16,492	
14-Jun										0	25	267	 E 265		925	210			75	0	$\overline{}$
15-Jun 16-Jun										0	25	367	5,365	6,448	825	310	0	20	75	13,435	
17-Jun										0	50	299	6,144	8,723	897	543	0	24	200	16,880	
18-Jun										0										0	-
19-Jun 20-Jun										. 0	25	200	4,281	7,855	900	225	0	0	100	13,586	—
21-Jun										0	25	250	1,784	4,906	399	425	0	0	125	7,914	
22-Jun										0										0	
23-Jun 24-Jun										. 0	25	250	3,390	7,440	1,167	379	0	24	100	12,775	
25-Jun										0	0	75	4,101	9,104	1,148	275	0	0	50	14,753	
26-Jun										0										0	
27-Jun 28-Jun										. 0	0	25	5,147	11,630	624	250	0	73	75	17,824	
29-Jun										0	0	25	3,569	7,862	200	50	0	75	0	11,781	
30-Jun										0										0	
1-Jul 2-Jul										. 0	25	0	3,615	9,129	129	52	0	0	0	12,950	
3-Jul										0	0	0	3,482	9,414	99	0	0	0	0	12,995	
4-Jul										0					1					0	ļ
5-Jul 6-Jul										. 0	0	0	2,123	8,053	25	25		69		10,295	
7-Jul										0	0	0	3,892	11,150	51	25	0	125	0	15,243	
8-Jul										0										0	
9-Jul 10-Jul										. 0	0	0	2,974	11,040	0	0	0	122	0	14,136	
10-Jul 11-Jul										0	0	0	1,600	6,496	0	0	0	0	0	8,096	(
12-Jul										0					-					0	
13-Jul 14-Jul										0	0	0	2,065	5,856	0	0	0	0	0	7,921	
14-Jul 15-Jul										0	0	0	1,982	6,966	25	0	0	21	0	8,994	í
16-Jul										0					-					0	
17-Jul										0	0	23	2,002	7,285	25	0	0	49	0	9,384	
18-Jul 19-Jul										0	0	0	2,042	8,646	75	25	0	73	0	10,861	
20-Jul										0										0	
21-Jul										0										0	
22-Jul 23-Jul										. 0										0	
24-Jul										0										0	
25-Jul										0	0	0	422	3,005	20	0	0	0	0	3,447	
26-Jul 27-Jul										. 0	0	0	534	4,526	0	18	0	20	0	5,098	
∠/-JUI										0	U	U	334	4,320	U	10	U	20	U	5,098	

Table 4 De	aily Number	of Adult Fall	hacks and E	illback Morte	ality at Lower 4	Granite Dam, 20	117		1	I										
Table 4. Da	iny ivaniber v	or Addit Fair	Dacks and 1 a	illoack Worta	anty at Lower	Oranic Dani, 20	117.													
				Е	Daily Fallback l	Numbers					_			Daily Fallba	ck Mortality	Numbers			_	
Date	Chinool	. Adulte	Chinor	ok Jacks	Stor	elhead	Socke	N/A	Coho	Daily	Chinook .	Adulte	Chino	ok Jacks	Stoo	lhead	Sov	keye	Coho	Daily
Date	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped	Cono	Total	Clipped	Unclipped	Clipped	Unclipped			Clipped		Cono	Total
27-May	1	1	0	0	2	6	0	0	0	10	0	0	0	0	0	0	0	0	0	0
28-May	2	0	0	0	2	4	0	0	0	8	0	0	0	0	0	0	0	0	0	0
29-May 30-May	0 2	0	0	0	6	9 5	0	0	0	15 7	0	0	0	0	0	0	0	0	0	0
31-May	0	0	0	0	1	22	0	0	0	23	0	0	0	0	0	0	0	0	0	0
1-Jun	0	1	0	0	1	9	0	0	0	11	0	0	0	0	0	0	0	0	0	0
2-Jun	1	0	0	0	0	5	0	0	0	6	0	0	0	0	0	0	0	0	0	0
3-Jun 4-Jun	0	1	0	0	0	5	0	0	0	4	0	0	0	0	0	0	0	0	0	0
5-Jun	6	2	0	0	0	8	0	0	0	16	0	1	0	0	0	0	0	0	0	1
6-Jun	0	2	0	0	0	3	0	0	0	5	0	0	0	0	0	0	0	0	0	0
7-Jun	1	1	1	0	1	4	0	0	0	8	0	0	0	0	0	0	0	0	0	0
8-Jun 9-Jun	5	0	0	0	1	3	0	0	0	5 10	0	0	0	0	0	0	0	0	0	0
9-Jun 10-Jun	1	1	1	1	0	4	0	0	0	8	0	0	0	0	0	0	0	0	0	0
11-Jun	3	1	1	2	0	10	0	0	0	17	0	0	0	0	0	1	0	0	0	1
12-Jun	2	0	0	0	2	5	0	0	0	9	0	0	0	0	0	0	0	0	0	0
13-Jun 14-Jun	3 6	2	3	1	0	- 8 - 5	0	0	0	18 17	0	0	0	0	0	0	0	0	0	0
15-Jun	0	3	0	1	3	3	0	0	0	10	0	0	0	0	0	0	0	0	0	0
16-Jun	1	2	0	3	0	1	0	0	0	7	0	0	0	0	0	0	0	0	0	0
17-Jun	0	3	0	0	1	2	0	0	0	6	0	0	0	0	0	0	0	0	0	0
18-Jun 19-Jun	1	0 4	0	2	0	3 10	0	0	0	5 17	0	0	0	0	0	0	0	0	0	0
20-Jun	1	3	0	0	1	0	0	0	0	5	1	0	0	0	0	0	0	0	0	1
21-Jun	5	0	1	0	0	1	0	0	0	7	0	0	0	0	0	0	0	0	0	0
22-Jun 23-Jun	1 2	2	0	1	0 2	4	0	0	0	8	0	0	0	0	0	0	0	0	0	0
24-Jun	5	1	2	0	1	1	0	0	0	10	0	0	0	0	0	0	0	0	0	0
25-Jun	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-Jun	0	5	0	0	0	1	0	0	0	6	0	0	0	0	0	0	0	0	0	0
27-Jun 28-Jun	4 0	8	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0
29-Jun	1	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
30-Jun	0	5	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0
1-Jul	1	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
2-Jul 3-Jul	0 2	2	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0
4-Jul	1	1	0	0	0	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0
5-Jul	3	2	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0
6-Jul	0	1 4	0	0	0	0	0	0	0	3 5	0	0	0	0	0	0	0	0	0	0
7-Jul 8-Jul	2	1	1	0	0	0	0	0	0	5 4	0	0	0	0	0	0	0	0	0	0
9-Jul	3	3	1	0	0	0	1	0	0	8	0	0	0	0	0	0	0	0	0	0
10-Jul	3	1	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0
11-Jul 12-Jul	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
12-Jul 13-Jul	1	1	1	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
14-Jul	0	2	0	0	0	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0
15-Jul	0	0	2	0	0	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0
16-Jul 17-Jul	2	0	0	0	0	0	0	0	0	1 3	0	0	0	0	0	0	0	0	0	0
17-Jul 18-Jul	0	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
19-Jul	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
20-Jul	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-Jul 22-Jul	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-Jul 23-Jul	0	3	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
24-Jul	0	4	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0
25-Jul	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
26-Jul 27-Jul	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
∠/-JUI	U	1	U	U	U	U	U	U	U	1	U	U	U	U	U	U	U	U	U	0

Table 1.	Daily Collection	on and Bypass	Numbers ar	nd River Cond	ditions at Low	er Granite Dam	, 2017.															
				D !!										D 22 12		L					L	
				Daily Nun	nber of Fish C	Collected								Daily N	lumbers Bypas	ssed					River Conditions River	Water
Date	Yearling	Chinook	Subvearlir	ng Chinook	Stee	lhead	Sockeve	/Kokanee	Coho	Daily	Yearling	Chinook	Subvearli	ng Chinook	Steel	head	Sockeve	/Kokanee	Coho	Daily	Flow Spill	Temp.
	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped		Total	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped		Total	(kcfs) (kcfs)	(oF)
28-Jul	0	0	242	1,672	0	0	0	0	0	1,914	0	0	0	0	0	0	0	0	0	0	38.1 18.1	68.4
29-Jul 30-Jul	0	0	240 80	1,480 860	0	0	0	0	0	1,720 940	0	0	0	0	0	0	0	0	0	0	40.8 18.1 41.0 18.1	68.5 68.5
31-Jul	0	0	30	740	0	0	0	0	0	770	0	0	0	0	0	0	0	0	0	0	39.6 18.1	68.9
1-Aug	0	0	50	510	0	0	0	0	0	560	0	0	0	0	0	0	0	0	0	0	41.0 18.0	69.1
2-Aug 3-Aug	0	0	85 0	651	0	0	0	0	0	736	0	0	0	0	0	0	0	0	0	0	40.2 18.1 38.9 18.1	70.0 70.0
4-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36.9 18.3	68.5
5-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34.6 18.0	70.0
6-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32.6 18.1	67.5
7-Aug 8-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32.6 18.1 32.6 18.1	69.5 69.4
9-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31.1 17.0	69.0
10-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30.4 17.9	68.7
11-Aug 12-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30.3 18.1 30.0 18.1	68.0 68.5
13-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29.9 18.1	66.5
14-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30.1 18.3	66.1
15-Aug 16-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30.5 18.3 31.2 18.2	66.1 68.5
17-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28.4 16.5	66.2
18-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26.0 15.0	68.0
19-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27.2 15.4	66.0
20-Aug 21-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27.4 15.4 26.7 14.7	66.8 67.5
22-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30.0 17.2	68.0
23-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30.0 16.4	70.0
24-Aug 25-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31.1 17.3 28.2 15.3	68.5 70*
26-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27.3 14.7	70*
27-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30.1 16.3	70*
28-Aug 29-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29.2 15.7 27.8 15.4	69* 67.7
30-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29.6 17.6	67.1
31-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30.3 18.3	66.0
1-Sep 2-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23.0 3.4 22.4 3.4	66.9 67.0
3-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19.6 3.5	67.4
4-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24.0 3.3	66.9
5-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26.5 3.6 25.6 3.5	67.4 69.0
6-Sep 7-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24.3 3.3	69.5
8-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32.4 3.4	66.9
9-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26.3 3.3	69.0
10-Sep 11-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24.1 3.5 28.7 3.4	68.0 69.5
12-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26.7 3.5	70.0
13-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23.0 3.3	69.0
14-Sep 15-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21.2 3.5 32.1 3.5	69.0 69.0
15-Sep 16-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29.5 3.5	69.0
17-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26.3 3.5	68.0
18-Sep 19-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26.3 3.5 23.2 3.2	67.5 67.0
19-Sep 20-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29.3 3.4	65.0
21-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25.9 3.5	65.0
22-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24.9 3.4	64.0
23-Sep 24-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26.8 3.5 23.5 3.5	64.0 64.0
24-Sep 25-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23.5 3.5	64.0
26-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26.6 3.5	64.0
27-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26.2 3.5	63.0

Table 2. P	Percent Daily	v Descaling a	nd Daily Fac	ility Mortalii	ty Numbers at	t Lower Gran	ite Dam. 201	7.				1				1	I				1	
Tuole 2. T	creem Ban) Descaring a	na Dany Tao	ling infortun	y rvambers at	Lower Gran	ne Bum, 201	<i>'</i> .														
					Percent Dail	ly Descaling			_					Daily Fac	ility Mortality	y Numbers						
D.	37 1	C1: 1	0.1 "	CI			6.1	77. 1	0.1	m	37 21	CI: I	0.1 "	CI. ,		<u> </u>	0.1		6.1	D "	D :	
Date		Chinook		ng Chinook	Steel		Sockeye/		Coho	Total		Chinook		ng Chinook		lhead		/Kokanee	Coho	Daily	Percent	
28-Jul	Clipped	Unclipped	Clipped 0.0	Unclipped 1.3	Clipped	Unclipped	Clipped	Unclipped		Facility 1.1	Clipped 0	Unclipped 0	Clipped 2	Unclipped 18	Clipped 0	Unclipped 0	Clipped 0	Unclipped 0	0	Total 20	Mortality 1.04%	
29-Jul			0.0	2.7						2.4	0	0	4	17	0	0	0	0	0	. 2		
30-Jul			0.0	2.3						2.1	0	0	1	6	0	0	0	0	0	·		
31-Jul			0.0	0.0						0.0	0	0	1	18	0	0	0	0	0	19	2.47%	
1-Aug			0.0	6.0						5.5	0	0	2	8	0	0	0	0	0	10	1.79%	
2-Aug			5.3	2.0						2.4	0	0	2	17	0	0	0	0	0	19		
3-Aug 4-Aug										0.0	0	0	0	0	0	0	0	0	0) #DIV/0!) #DIV/0!	
5-Aug										0.0	0	0	0	0	0	0	0	0	0		#DIV/0!	
6-Aug										0.0	0	0	0	0	0	0	0	0	0		#DIV/0!	
7-Aug										0.0	0	0	0	0	0	0	0	0	0		#DIV/0!	
8-Aug										0.0	0	0	0	0	0	0	0	0	0		#DIV/0!	
9-Aug										0.0	0	0	0	0	0	0	0	0	0		#DIV/0!	
10-Aug										0.0	0	0	0	0	0	0	0	0	0		#DIV/0!	
11-Aug										0.0	0	0	0	0	0	0	0	0	0) #DIV/0!) #DIV/0!	
12-Aug 13-Aug										0.0	0	0	0	0	0	0	0	0	0		#DIV/0! #DIV/0!	
14-Aug										0.0	0	0	0	0	0	0	0	0	0		#DIV/0!	
15-Aug										0.0	0	0	0	0	0	0	0	0	0		#DIV/0!	
16-Aug										0.0	0	0	0	0	0	0	0	0	0		#DIV/0!	
17-Aug										0.0	0	0	0	0	0	0	0	0	0		#DIV/0!	
18-Aug										0.0	0	0	0	0	0	0	0	0	0		#DIV/0! #DIV/0!	
19-Aug 20-Aug										0.0	0	0	0	0	0	0	0	0	0		#DIV/0! #DIV/0!	
21-Aug										0.0	0	0	0	0	0	0	0	0	0		#DIV/0!	
22-Aug										0.0	0	0	0	0	0	0	0	0	0		#DIV/0!	
23-Aug										0.0	0	0	0	0	0	0	0	0	0		#DIV/0!	
24-Aug										0.0	0	0	0	0	0	0	0	0	0		#DIV/0!	
25-Aug 26-Aug										0.0	0	0	0	0	0	0	0	0	0		#DIV/0! #DIV/0!	
27-Aug										0.0	0	0	0	0	0	0	0	0	0		#DIV/0!	
28-Aug										0.0	0	0	0	0	0	0	0	0	0		#DIV/0!	
29-Aug										0.0	0	0	0	0	0	0	0	0	0		#DIV/0!	
30-Aug										0.0	0	0	0	0	0	0	0	0	0		#DIV/0!	
31-Aug										0.0	0	0	0	0	0	0	0	0	0		#DIV/0!	
1-Sep 2-Sep										0.0	0	0	0	0	0	0	0	0	0		#DIV/0! #DIV/0!	
3-Sep										0.0	0	0	0	0	0	0	0	0	0		#DIV/0!	
4-Sep										0.0	0	0	0	0	0	0	0	0	0		#DIV/0!	
5-Sep										0.0	0	0	0	0	0	0	0	0	0		#DIV/0!	
6-Sep										0.0	0	0	0	0	0	0	0	0	0		#DIV/0!	
7-Sep										0.0	0	0	0	0	0	0	0	0	0		#DIV/0!	
8-Sep 9-Sep										0.0	0	0	0	0	0	0	0	0	0		#DIV/0! #DIV/0!	
9-Sep 10-Sep										0.0	0	0	0	0	0	0	0	0	0		#DIV/0!	
11-Sep										0.0	0	0	0	0	0	0	0	0	0		#DIV/0!	
12-Sep										0.0	0	0	0	0	0	0	0	0	0		#DIV/0!	
13-Sep						-	-			0.0	0	0	0	0	0	0	0	0	0		#DIV/0!	
14-Sep										0.0	0	0	0	0	0	0	0	0	0		#DIV/0!	
15-Sep 16-Sep										0.0	0	0	0	0	0	0	0	0	0		#DIV/0! #DIV/0!	
17-Sep										0.0	0	0	0	0	0	0	0	0	0		#DIV/0!	
18-Sep										0.0	0	0	0	0	0	0	0	0	0		#DIV/0!	
19-Sep									-	0.0	0	0	0	0	0	0	0	0	0	(#DIV/0!	
20-Sep										0.0	0	0	0	0	0	0	0	0	0		#DIV/0!	
21-Sep										0.0	0	0	0	0	0	0	0	0	0		#DIV/0!	
22-Sep 23-Sep										0.0	0	0	0	0	0	0	0	0	0		#DIV/0! #DIV/0!	
23-Sep 24-Sep										0.0	0	0	0	0	0	0	0	0	0		#DIV/0!	
25-Sep										0.0	0	0	0	0	0	0	0	0	0		#DIV/0!	
26-Sep										0.0	0	0	0	0	0	0	0	0	0		#DIV/0!	
27-Sep										0.0	0	0	0	0	0	0	0	0	0	(#DIV/0!	

T-11-2 D	il. Manda C	Pist Taret		I C	it. D 20	017		1				1									
rable 3. Da	my Number of	Fish Trucked a	and Barged Fro	JIII LOWER Gra	anite Dam, 20	01/.															-
				Daily 1	Numbers Tru	icked								Daily	Numbers Bar	ged	<u> </u>				
														L							
Date		Chinook	Subyearlin			lhead	Sockeye/		Coho	Daily		Chinook		ng Chinook		lhead		/Kokanee	Coho	Daily	-
28-Jul	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped		Total	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped		Total	
29-Jul										0	0	0	476	3,117	0	0	0	0	0	3,593	
30-Jul										0										0	
31-Jul										0	0	0	108	1,576	0	0	0	0	0	1,684	
1-Aug 2-Aug										0	0	0	131	1,136	0	0	0	0	0	1,267	
3-Aug										0										0	
4-Aug										0										0	
5-Aug										. 0										0	
6-Aug 7-Aug										. 0										. 0	
8-Aug										0										0	
9-Aug										0										0	
10-Aug 11-Aug										. 0										0	\vdash
12-Aug										0										0	\vdash
13-Aug										0										0	
14-Aug										0										0	oxdot
15-Aug 16-Aug										. 0										0	\vdash
17-Aug										0										0	$\overline{}$
18-Aug										0										0	
19-Aug										. 0										0	
20-Aug 21-Aug										. 0										. 0	-
22-Aug										0										0	
23-Aug										0										0	
24-Aug 25-Aug										0										0	
25-Aug 26-Aug										0										0	
27-Aug	-									0										0	
28-Aug										0										0	
29-Aug 30-Aug										. 0										0	
31-Aug										0										0	
1-Sep										0										0	
2-Sep										0										0	
3-Sep 4-Sep										. 0										0	-
5-Sep										0										0	
6-Sep										0										0	
7-Sep										. 0										0	
8-Sep 9-Sep										0										0	
10-Sep										0										0	
11-Sep										0										0	\Box
12-Sep 13-Sep										. 0										0	\vdash
13-Sep 14-Sep										0										0	\vdash
15-Sep										0										0	
16-Sep										0										0	oxdot
17-Sep 18-Sep										. 0										0	\vdash
18-Sep 19-Sep										0										0	
20-Sep										0										0	
21-Sep										0										0	
22-Sep 23-Sep										0										0	\vdash
24-Sep										0										0	-
25-Sep										0										0	
26-Sep										0										0	
27-Sep										0										0	$oldsymbol{oldsymbol{\sqcup}}$

Table 4 Da	aily Number	of Adult Fall	backs and Fa	illback Morts	ality at Lower (Granite Dam, 20	017							ı						
ruote ii De	Inj rumber	or riddic r dir	sucits und I t																	
				Е	aily Fallback l	Numbers								Daily Fallba	ck Mortality	Numbers				
Date	Chinool	c Δdults	Chinoc	k Jacks	Stee	elhead	Socke	ave	Coho	Daily	Chinook	Δdults	Chino	ok Jacks	Stee	lhead	Soc	keye	Coho	Daily
Dute	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped	Cono	Total	Clipped	Unclipped	Clipped	Unclipped			Clipped		Cono	Total
28-Jul	2	0	0	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0
29-Jul	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
30-Jul 31-Jul	0	2	0	0	0	0	0	0	0	0 2	0	0	0	0	0	0	0	0	0	0
1-Aug	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
2-Aug	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
3-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Aug 5-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Aug 10-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-Aug 14-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-Aug 15-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-Aug 19-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-Aug 23-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-Aug 28-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31-Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Sep 2-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Sep 6-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-Sep 11-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-Sep 15-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-Sep 16-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-Sep 20-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Sep 21-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Sep 25-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 1.	Daily Collection	on and Bypass	Numbers a	nd River Con	ditions at Low	er Granite Dam	, 2017.																
				Daily Nu	imber of Fish C	ollected								Daily I	Numbers Bypa:	sed						onditions	
																					River		Water
Date	Yearling	Chinook	Subyearlii	ng Chinook	Stee		Sockeye	Kokanee	Coho	Daily	Yearling	Chinook	Subyearli	ng Chinook	Steel	head		/Kokanee	Coho	Daily	Flow	Spill	Temp.
	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped		Total	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped		Total	(kcfs)	(kcfs)	(°F)
28-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31.1	3.4	62.8
29-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30.3	3.4	62.5
30-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23.4	3.5	62.0
1-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29.2	3.5	62.0
2-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31.0	3.5	62.5
3-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33.7	3.5	63.0
4-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29.4	3.5	63.4
5-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29.6	3.5	63.3
6-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28.3	3.4	62.9
7-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22.8	3.5	62.0
8-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24.6	3.5	62.0
9-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23.6	3.4	61.0
10-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24.7	6.9	61.0
11-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17.8	0.0	60.0
12-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19.4	0.0	59.5
13-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18.0	3.5	59.1
14-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17.5	3.5	59.0
15-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17.6	3.5	58.5
16-Oct	0	0	0	0	0	0	0	0	0	. 0	0	0	0	0	0	0	0	0	0	0	16.8	2.2	58.1
17-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21.2	7.0	57.7
18-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14.1	0.0	56.7
19-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20.9	6.9	64.0
20-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17.5	3.5	55.4
21-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17.7	3.5	55.1
22-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17.7	3.5	55.0
23-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22.8	3.6	54.3
24-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22.1	3.5	54.2
25-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17.6	3.5	53.9
26-Oct	0	0	0	0	0	0	0	0	0	. 0	0	0	0	0	0	0	0	0	0	0	20.4	3.5	55.6
27-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	U	0	0	0	18.7	3.5	53.6
28-Oct	0	0	0	0	0	0	0	0	0	. 0	0	0	0	0	0	0	0	0	0	0	18.6	3.5	53.5
29-Oct	0	0	0	0	0	0	0	0	0	. 0	0	0	0	0	0	0	0	0	0	0	18.2	3.6	53.3
30-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18.4	3.5	53.0
31-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19.2	3.3	52.7
Totals	1,789,880	572,818	225,787	402,606	1,798,556	530,958	15,750	19,839	74,225	5,430,419	980,750	401,216	3,517	18,985	1,158,305	221,673	104	15,631	10,915	2,811,096	23.7	3.4	62.3

Table 2.	Percent Dail	y Descaling a	and Daily Fac	cility Mortali	ty Numbers a	t Lower Gran	ite Dam, 201	7.														
					ľ																	
	Percent Daily Descaling												Daily Facil	lity Mortality	y Numbers							
Date	Yearling	Chinook	Subyearlii	ng Chinook	Stee	lhead	Sockeye	/Kokanee	Coho	Total	Yearling	Chinook	Subyearlir	ng Chinook	Stee	lhead	Sockeye	/Kokanee	Coho	Daily	Percent	
	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped		Facility	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped		Total	Mortality	
28-Sep										0.0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	
29-Sep										0.0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	
30-Sep							1			0.0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	
1-Oct										0.0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	
2-Oct							-			0.0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	
3-Oct										0.0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	
4-Oct										0.0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	
5-Oct							-			0.0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	
6-Oct										0.0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	
7-Oct										0.0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	1
8-Oct										0.0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	
9-Oct										0.0	0	0	0	0	0	0	0	0	0	. 0	#DIV/0!	
10-Oct										0.0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	
11-Oct										0.0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	
12-Oct										0.0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	Ь——
13-Oct										0.0	0	0	0	0	0	0	0	0	0	. 0	#DIV/0!	
14-Oct										0.0	0	0	0	0	0	0	0	0	0	_ 0	#DIV/0!	 <u> </u>
15-Oct										0.0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	 ↓
16-Oct										0.0	0	0	0	0	0	0	0	0	0	_ 0	#DIV/0!	
17-Oct										0.0	0	0	0	0	0	0	0	0	0	. 0	#DIV/0!	
18-Oct										0.0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	
19-Oct										0.0	0	0	0	0	0	0	0	0	0	_ 0	#DIV/0!	
20-Oct										0.0	0	0	0	0	0	0	0	0	0	_ 0	#DIV/0!	
21-Oct										0.0	0	0	0	0	0	0	0	0	0	- 0	#DIV/0!	
22-Oct										0.0	0	0	0	0	0	0	0	0	0	. 0	#DIV/0!	 1
23-Oct										0.0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	-
24-Oct										0.0	0	0	0	0	0	0	0	0	0	0	#DIV/0!	
25-Oct										0.0	0	0	0		0	0	0	0		- 0	#DIV/0!	
26-Oct 27-Oct										0.0	0	0	0	0	0	0	0	0	0	- 0	#DIV/0! #DIV/0!	-
										0.0										- 0	#DIV/0!	-
28-Oct											0	0	0	0	0	0	0	0	0	- 0		-
29-Oct 30-Oct										0.0	0	0	0	0	0	0	0	0	0	- 0	#DIV/0! #DIV/0!	
31-Oct										0.0	0	0	0	0	0	0	0	0	0	- 0	#DIV/0!	
31-OCI	135	121	115		365	200	87	478	49		1,669	375	1.679		134	44	33	122	63	7,304		
	155	121	115	109	300	200	8/	4/8	49	Totals	1,669	3/3	1,6/9	3,185	154	44	55	122	0.5	/,504	0.13%	

Γable 3. Da	aily Number of	f Fish Trucked a	nd Barged Fro	om Lower Gra	nite Dam, 2	017.															
				Daily N	Numbers Tru	ıcked								Daily	Numbers Bar	roed					
	Daily Numbers Trucked												Dany		I landers Burged						
Date	Yearling	g Chinook	Subyearlin	g Chinook	Ster	lhead	Sockeye/	Kokanee	Coho	Daily	Yearling	Chinook	Subvearlin	ng Chinook	Stee	lhead	Sockeye	/Kokanee	Coho	Daily	
, uic	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped	Cono	Total	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped	Cono	Total	
8-Sep										0										0	
9-Sep										0										0	
)-Sep										0										0	
Oct										0										0	
Oct										0										0	
Oct										0										0	
-Oct										0										0	
-Oct										0										0	
-Oct										0										0	
Oct										0										0	
-Oct										0										0	
Oct										0										0	
)-Oct										0										0	
-Oct										0										0	
2-Oct										0										0	
3-Oct										0										0	
4-Oct										0										0	
5-Oct										0										0	
5-Oct										0										0	
7-Oct										0										0	
8-Oct										0										. 0	
9-Oct										0										. 0	
O-Oct										0										0	<u> </u>
l-Oct										0										0	<u> </u>
2-Oct										0										0	
3-Oct										0										0	<u> </u>
4-Oct										0										0	<u> </u>
5-Oct										0										0	<u> </u>
5-Oct										0										0	<u> </u>
7-Oct										0										0	<u> </u>
3-Oct										0										0	<u> </u>
Oct										0										0	<u> </u>
)-Oct										0										0	
1-Oct										0										0	<u> </u>
Totals	0	0	0	0	0	0	0	0	0	0	807,461	171,227	220,591	380,436	640,117	309,241	15,613	4,086	63,247	2,612,019	

Table 4. Da	aily Number	of Adult Fall	backs and Fa	allback Morta	ality at Lower	Granite Dam, 20	17.													
														D D						
				L	Daily Fallback	Numbers	1						1	Daily Fallba	ck Mortanty	Numbers		1		
Date	Chinoo	Chinook Adults Chinook Jacks Steelhead					Socke	210	Coho	Daily	Chinook	Adulto	Chino	ok Jacks	Stor	elhead	Ç.,	ckeve	Coho	Daily
Date	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped	Clipped	Unclipped	Cono	Total	Clipped	Unclipped		Unclipped	Clipped	Unclipped	Clipped		Cono	Total
28-Sep	0	0	0	Onclipped 0	Clipped 0	Onclipped 0	0	Onclipped 0	0	1 otai	0	0 0	0	0	0	0	O Clipped	Onclipped 0	0	1 otai
29-Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Seр 30-Seр	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Oct 18-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31-Oct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Totals	91	101	19	16	611	820	1	0	0	1,659	2	1	0	0	15	5	0	0	0	23