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Summary of Abundance and Biological Data Collected During Juvenile Salmonid Monitoring in the Mainstem Klamath River Below Iron Gate Dam, California, 2000-2013

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Key words: Klamath River, Salmon, Chinook, Coho, Steelhead, Frame Net, Rotary Screw Trap, Juvenile, Outmigrant, Mark Recapture, Trap Efficiency, Spline, SALMOD, Stream Salmonid Simulator

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Abstract.— This report describes results from 14 years of juvenile salmonid outmigrant trapping on the mainstem Klamath River below Iron Gate Dam. Trapping occurred from 2000 through 2013 at three locations: below the confluence with Bogus creek (river km 308), where interstate 5 crosses the Klamath River (river km 294), and near the Kinsmen Creek confluence upstream of the confluence with the Scott River (river km 238). Both frame nets and rotary screw traps were used to sample juvenile salmonids and other fishes. Traps were typically operated March through May or June, although trapping duration and effort varied among years. Juvenile salmonids were enumerated daily when traps were operating and subsamples of salmonids were measured for length and weight. Non-salmonid fishes were also enumerated. Mark-recapture studies were conducted periodically at each trap site throughout a season to estimate trap efficiency. The efficiency estimates were combined with the raw catches to estimate weekly and seasonal outmigration abundance of natural-origin age-0 juvenile Chinook Salmon at each trap site using a Bayesian time-stratified spline population estimation method. Seasonal abundance estimates of age-0 juvenile Chinook Salmon at the Bogus trap site ranged from 226,000 (2006) to 8,613,000 (2004). Abundance estimates at the I-5 trap site ranged from 236,000 (2011) to 3,953,000 (2003). Abundance estimates at the Kinsman trap site ranged from 308,000 (2012) to 7,722,000 (2013). These data can be used to assess the status of salmonid populations in Klamath River and long-term trends in those populations. Additionally, these data can be used to help identify the drivers of juvenile salmon survival in the Klamath River.

Introduction

The Klamath River Basin (Figure 1) historically supported large runs of Chinook Salmon *Oncorhynchus tshawytscha* and Steelhead *O. mykiss* and smaller runs of Coho Salmon *O. kisutch* (U.S. Fish and Wildlife Service 1960, 1983, Klamath River Basin Fisheries Task Force 1991). These species contribute to economically and culturally important subsistence, sport, and commercial fisheries. A drastic decline of anadromous fishes during the past century and a half has occurred in the Klamath River Basin as a result of a variety of flow- and non-flow-related factors (West Coast Chinook Salmon Biological Review Team 1997; Hardy and Addley 2001). These factors include water storage and transfer, environmental phenomena, disease, changed genetic integrity from hatchery origin fish straying into natural spawning areas, overharvest, and land-use practices causing habitat loss and degradation.

The U.S. Fish and Wildlife Service (USFWS), in collaboration with the Karuk Tribe and the U.S. Geological Survey (USGS), began trapping juvenile salmonids on the Klamath River between Iron Gate Dam and the Scott River confluence in 2000 to collect outmigration timing data and relative weekly numbers for the calibration of a young-of-the-year (age-0) Chinook Salmon production model, SALMOD (Bartholow et al. 2002). Beginning in 2006, the objectives of this ongoing monitoring project were directed towards generating estimates of production and disease monitoring (Nichols and True 2007; Nichols et al. 2008, 2009; True et al. 2010, 2011, 2013; Bolick et al. 2012, 2013). Additionally, these data are used to develop and calibrate a new salmon production model, Stream Salmonid Simulator (S³). Data from this project will also be useful for assessing the status and trends of salmonid populations in the Klamath River.

Study Area

Monitoring was conducted at three sites on the mainstem Klamath River between Iron Gate Dam (Rkm 309.65) and the Scott River confluence (Rkm 232.95). The upstream-most site (Rkm 307.75) was downstream of the Bogus Creek confluence on Blue Heron RV Park property (Bogus site). The middle site (Rkm 293.55) was downstream of the Carson Creek confluence and upstream of where interstate 5 (I-5) crosses the Klamath River (I-5 site). The downstream-most site (Rkm 237.55) was just upstream of the Kinsman Creek confluence (Kinsman site).

Methods

River Conditions

River discharge and water temperature were monitored throughout the outmigrant trapping season. We used the USGS gauging station below Iron Gate Dam (gage # 11516530) to represent discharge at the Bogus and I-5 trap sites as there are minimal

accretions from tributaries between the gauging station and these sites. Discharge at the Kinsman trap site was estimated by subtracting the discharge of the Scott River near Fort Jones (USGS gaging station 11511950) from the discharge of the Klamath River near Seiad Valley (USGS gaging station 11520500). We monitored water temperatures at each trap site using digital water temperature probes; however, probes were not deployed at each site in every year. For details on the probes used and specific protocols see Magnuson (2014).

Trap Design and Operation

At least one of two types of sampling methods, rotary screw traps (RSTs) and frame nets, were used at the trap sites. Frame nets were placed closer to the bank in shallower, slower moving water and more efficiently captured younger and smaller age-0 salmonids along stream margins earlier in the season (late winter to early spring). RSTs were set further from the bank in faster, deeper water and more efficiently captured older and larger age-0 salmonids later in the season (late spring to early summer). Frame nets were placed near the bank at a location such that water velocity was ideally between three and four ft/s at the center of the net. RSTs were placed further from the bank such that the cone would ideally spin between five and seven revolutions/min.

Traps were typically deployed in early to mid-March and removed in late May to late June. The earliest date that a trap was deployed was February 25, 2011, and the latest date a trap was removed was July 27, 2011. Not all trap sites or trap types within sites were sampled in all years. The mean number of trap-days (sum of the number of days trapped multiplied by the number of traps operated for each day) per year was 204 and varied from a minimum of 79 in 2001 to a maximum of 299 in 2010. Dates of deployment and number of trap-days for each sampling method at each trap site in each year are found in Table 1. Trapping at the Bogus and I-5 sites usually ceased with the first release of Chinook Salmon from Iron Gate Hatchery (IGH). However trapping at these sites continued and known hatchery-origin juvenile Chinook Salmon were captured at the Bogus trap site in 2002-2004 and 2013 and at the I-5 trap site in 2001, 2006, 2007, and 2009-2012. Trapping at the Kinsman site usually continued after the IGH release as long as natural-origin juvenile Chinook Salmon were still present. Known hatchery-origin juvenile Chinook Salmon were captured at the Kinsman trap site in 2003-2013.

All traps were typically operated four consecutive nights each week throughout the sampling period. Traps were set Monday afternoon, checked once a day, and pulled Friday morning. The following information was recorded for each trap on each day: date, site, trap type, crew members, air and water temperatures, time that trapping ceased, time that trapping resumed, trap depth, and center velocity. Rotation rates at the times of sets and checks of RSTs were also measured as a count of complete cone revolutions in a minimum of 180 seconds. Air temperature was taken in the shade close to the river's

edge. Water temperature was taken at the surface in the shade and in moving water. Trap depth of RSTs is the submerged depth of the cone. Trap depth of frame nets is the water column depth at the midpoint of the frame entrance. Center velocity is the water velocity at 60% of the trap depth. If a trap was relocated, RST rotations, depth, and velocity were re-measured.

All captured fish were identified and enumerated. A maximum daily biosample of 30 fish from each salmonid species and 10 fish from each non-salmonid species were measured and examined. Beginning in 2006, up to 10 lamprey ammocetes from each genus and 10 eyed lamprey from each species were biosampled. Lamprey were not identified to species until 2006. The following data were recorded from all salmonids in the biosample: development stage (sac fry, fry, parr, or smolt), fork length (FL), weight, hatchery clip/mark presence, and any external abnormalities. Gill color, gill physical condition, and abdomen condition were also recorded for salmonids ≥ 45 mm FL. The following data were recorded for non-salmonids in the biosample: species, development stage [lampreys only (ammocete, eyed juvenile, or adult)], FL or total length, and presence of any external abnormalities.

Chinook Salmon Production Estimates

Weekly and seasonal totals of natural-origin age-0 Chinook Salmon outmigrating past a trap site were estimated using a Bayesian time-stratified spline population estimation method (Bonner et al. 2009). This method requires the following weekly data: total age-0 Chinook Salmon with adipose fins, total adipose fin-clipped age-0 Chinook Salmon (and associated hatchery clip rate), mean river discharge (to be used as a covariate), trap efficiencies from mark-recapture sampling, and trapping effort. The numbers of age-0 Chinook Salmon with and without adipose fins were summarized from the weekly trapping data and fin clip rates were reported by IGH. River discharge data were summarized from the USGS gauges described above.

Trap efficiency tests for age-0 Chinook Salmon were conducted at the three trap sites throughout the trapping season. Hatchery-produced age-0 Chinook Salmon provided by IGH or natural-origin age-0 Chinook Salmon caught in our traps or by seining were used for this process. Test fish were marked with Bismarck Brown stain (Rawson 1984) and released approximately one-half mile upstream of the trap site to be tested. At least three habitat units, including at least one riffle, were between the release site and the trap site to allow the fish enough time and space to distribute across the river channel similarly to a natural population passing the trap site. Two or three recapture days were available after the release of marked fish.

From 2000 to 2005, between one and eight trap efficiency tests were conducted at each trap site per season using release groups ranging in size from 360 to 4,381 marked fish (Appendix A). From 2006 to 2013, typically three or four (range: two to six) trap efficiency tests were conducted at each trap site per season. Release group size was increased to about 5,000 marked fish (range: 2,763-7,872) to increase recapture numbers (Appendix A). The exception was 2009 when hatchery fish were unavailable and one trap efficiency test was conducted per site all season with release groups ranging from 1,472 to 1,899 natural-origin fish.

Trap efficiency (te) was calculated as the proportion of marked fish recaptured assuming that all marked fish pass the trap site by the last recapture day for the week:

$$te = \frac{\sum_{i=1}^n r_i}{m}$$

where r is the number of recaptures on the i th recapture day and m is the total number of marked fish released.

Trapping effort, here termed weighted sample fraction, is based on the number of trap-days per week and the trap types operated. Due to operational logistics and disruptions (e.g., flawed sets due to debris), daily catches were not made for every day planned in the trapping design. Therefore the number of days sampled per week of operation sometimes varied for each trap within a site. Additionally, each trap type captures outmigrants in different proportions, and those proportions change throughout the season. In general, frame nets more efficiently capture younger and smaller age-0 salmon along stream margins earlier in the season (late winter to early spring). RSTs more efficiently capture older and larger age-0 salmon in faster and deeper water adjacent to the stream margin later in the season (late spring to early summer). To account for variable numbers of days sampled for different traps, the different capture efficiencies of the different traps, and changing capture efficiencies through the season, we used a weighted sample fraction to quantify trapping effort. First, the proportion (p) of total age-0 Chinook Salmon outmigrant catch (c) per number of days sampled (d) for each i th trap within a site was calculated for weeks in which all traps were operated:

$$p_i = \frac{\left(\frac{c_i}{d_i}\right)}{\sum_{i=1}^n \left(\frac{c_i}{d_i}\right)}$$

Catch proportions for each trap during weeks when not all traps at a site were in operation were predicted using equations from regressions of known catch proportions as a function of calendar week. Simple linear, exponential, and logarithmic regressions were

considered and the best of these options, based on R^2 values, was used. Regressions were performed for each trap in each year as necessary. The circumstances for which regression predictions were used, along with the regression equations used, are found in Appendix B.

The weighted sample fraction (s) was then calculated for each trap site in each week by expanding the catch proportion by the number of days sampled for each i th trap and dividing by the number of total possible sampling days in a week (seven):

$$s = \frac{\sum_{i=1}^n (p_i d_i)}{7}$$

Mark-recapture trap efficiency tests could not be conducted for Coho Salmon and Steelhead due to the limited numbers of these species so production estimates could not be generated. Catch and fork length data are presented to indicate when these species were present at the trapping sites and their size distribution.

Results

River Conditions

Mean daily discharge below Iron Gate Dam, pertinent to the Bogus and I-5 sites, was moderately variable during the trapping seasons from 2000 through 2013, rarely exceeding 4,000 ft³/s (Figure 2). An exception was 2006 when discharge was relatively high for much of the trapping season and peaked at over 10,000 ft³/s. In all years discharge declined to a base flow around 1,000 ft³/s (Range: 614-1,090 ft³/s) by mid-July. Discharge at the Kinsman trap site was higher, rarely exceeding 7,000 ft³/s, and more variable than at Iron Gate Dam, but followed a similar overall pattern (Figure 3). Peak flows typically occurred in March or April and declined to summer base flows in July.

Water temperature generally increased throughout the trapping season at all three trap sites (Figure 4, 5, 6), although there existed both intra- and inter-seasonal variation in this pattern. For example, in May and June 2005 water temperature at the Bogus trap site was quite variable (Figure 4), possibly due to increases in river discharge (Figure 2). In general, temperatures at the Kinsman site (Figure 6) were more variable than temperatures at the Bogus (Figure 4) and I-5 sites (Figure 5).

Salmonids

Chinook Salmon

Seasonal abundance estimates of natural-origin age-0 juvenile Chinook Salmon outmigrating past the three trap sites are found in Figure 7. Abundance estimates at the Bogus trap site ranged from 226,000 (in 2006) to 8,613,000 (in 2004). However, high

flows throughout the 2006 sampling season resulted in small catches and poor trap efficiency at all three trap sites. Thus, the abundance estimates for 2006 are highly uncertain and should not be used for statistical analysis or inference. Abundance estimates at the I-5 trap site ranged from 236,000 (in 2011) to 3,953,000 (in 2003). Abundance estimates at the Kinsman trap site ranged from 308,000 (in 2012) to 7,722,000 (in 2013).

Weekly estimates of natural-origin age-0 juvenile Chinook Salmon outmigrating past the three trap sites in each year are found in Figures 8 through 21 and Appendix A. Excluding 2006, the median week of peak age-0 Chinook Salmon outmigration abundance was calendar week 15 (early April) at the Bogus and I-5 trap sites and calendar week 16 (mid-April) at the Kinsman trap site. The earliest that peak age-0 outmigration abundance occurred was week 12 at the Bogus trap site (mid-March 2007) and week 11 at the I-5 (early March 2005 and 2013) and Kinsman trap sites (early March 2013). The latest that peak age-0 Chinook Salmon outmigration occurred was week 16 at the Bogus trap site (mid-April 2004, 2010-2012), week 29 for the I-5 trap site (mid-July 2011), and week 25 for the Kinsman trap site (mid-June 2003).

Weekly catch information for juvenile Chinook Salmon, Coho Salmon, and Steelhead at each trap site in each year is found in Appendix C. Weekly fork length information for juvenile Chinook Salmon, Coho Salmon, and Steelhead at each trap site in each year is found in Figures 22 through 81 and Appendices D through EE.

Coho Salmon

Catches of natural-origin age-0 Coho Salmon commenced as early as early to mid-March at the Bogus and I-5 sites and mid-April at the Kinsman site and typically continued through the remainder of the trapping season. Peak annual age-0 Coho Salmon catches occurred between early April and early May at the Bogus site, between late March and late May at the I-5 site, and between mid-April and early July at the Kinsman site. Natural-origin age-1 Coho Salmon were caught throughout the trapping season in very low numbers.

IGH releases yearling (age-1) Coho Salmon annually around mid-March to early April. Known hatchery-origin Coho Salmon yearlings were caught at each site every year of operation with the exception of 2011 when none were caught at any of the trap sites, possibly the result of a smaller than usual release of Coho Salmon yearlings from IGH. Peak catches of hatchery Coho Salmon typically occurred the week of or the week following their release. All data on Coho Salmon should be interpreted cautiously as these numbers are raw catches not adjusted for effort or trap efficiency.

Steelhead

Catches of natural-origin age-0 Steelhead commenced as early as late March at all three trap sites and typically continued through the remainder of the trapping season. Peak

annual age-0 Steelhead catches occurred between early April and mid-May at the Bogus site, between mid-April and late May at the I-5 site, and between early May and early June at the Kinsman site. Natural-origin age-1 Steelhead were caught throughout the trapping season in relatively low numbers with the highest catches occurring within a wide temporal range, from early April through late June.

IGH released yearling (age-1) Steelhead annually in April until 2012. Known hatchery-origin Steelhead were captured at the Bogus site in 2002-2006, 2008, and 2010-2012, at the I-5 site in 2000, 2002-2006, and 2008-2012, and at the Kinsman site in 2002-2005, 2007-2009, and 2012. All data on Steelhead should be interpreted cautiously as these numbers are raw catches not adjusted for effort or trap efficiency.

Other Species

While these sampling efforts were designed to target juvenile salmonids, a variety of fishes were captured in the frame nets and RSTs. Non-target fishes commonly captured at the Bogus trap site included native species, lamprey (*Entosphenus* spp.), Marbled Sculpin (*Cottus klamathensis*), and Speckled Dace (*Rhinichthys osculus*), and non-native species, crappie (*Pomoxis* spp.), Golden Shiner (*Notemigonus crysoleucas*), sunfish (*Lepomis* spp.), and Yellow Perch (*Perca flavescens*) (Table 2). Non-target fishes commonly captured at the I-5 trap site included native species, lamprey (*Entosphenus* spp.), Marbled Sculpin (*Cottus klamathensis*), Speckled Dace (*Rhinichthys osculus*), and suckers (*Catostomus* spp.), and non-native species, bullhead (*Ameiurus* spp.), Golden Shiner (*Notemigonus crysoleucas*), and Yellow Perch (*Perca flavescens*) (Table 3). Non-target fishes commonly captured at the Kinsman trap site included native species, lamprey (*Entosphenus* spp.), Speckled Dace (*Rhinichthys osculus*), and suckers (*Catostomus* spp.), and non-native bullhead (*Ameiurus* spp.) (Table 4).

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Tables

Table 1. Trap types, trapping dates, and number of trap-days (in parentheses) at the three trap sites in the mainstem Klamath River, 2000-2013. Trap-days equal the sum of the number of days trapped multiplied by the number of traps operated each day.

Year	Traps					
	Bogus frame	Bogus RST	I-5 frame	I-5 RST	Kinsman frame	Kinsman RST
2000	--	--	4/05-6/01 (32)	3/21-6/01 (55)	--	--
2001	--	--	3/07-5/10 (36)	3/06-5/16 (43)	--	--
2002	3/28-5/08 (24)	3/26-5/08 (26)	3/15-5/08 (29)	3/14-5/08 (26)	3/20-5/23 (32)	3/14-5/29 (34)
2003	3/11-5/29 (34)	--	3/06-5/30 (38)	4/02-5/30 (33)	3/05-6/11 (43)	3/05-6/26 (51)
2004	3/10-5/13 (42)	3/10-5/05 (25)	3/11-5/06 (33)	3/10-4/21 (18)	3/10-6/28 (78)	3/10-7/03 (80)
2005	3/02-5/04 (65)	--	3/11-5/04 (52)	--	3/09-6/29 (71)	3/31-7/07 (37)
2006	3/16-5/12 (24)	3/16-5/12 (26)	3/13-5/11 (23)	3/23-7/12 (36)	5/10-5/31 (6)	3/22-7/13 (36)
2007	3/15-5/18 (38)	--	3/16-5/22 (36)	3/15-6/05 (41)	4/11-5/18 (23)	3/15-7/03 (85)
2008	3/13-5/23 (40)	--	3/12-6/04 (46)	3/12-5/27 (91)	--	3/12-7/15 (102)
2009	3/11-5/15 (39)	--	3/11-5/14 (34)	3/04-5/27 (77)	--	3/10-6/02 (84)
2010	3/12-5/27 (43)	--	3/11-5/28 (46)	3/11-6/16 (103)	--	3/10-6/30 (107)
2011	3/02-6/22 (57)	--	3/09-3/16 (5)	3/02-7/20 (120)	--	2/25-7/27 (62)
2012	3/15-6/01 (44)	--	3/21-4/05 (9)	3/14-6/07 (91)	--	3/15-7/11 (56)
2013	3/06-5/21 (43)	--	3/08-5/17 (16)	3/07-5/22 (83)	--	3/08-5/31 (48)

Table 2. Catch totals of non-target fish species captured in the Klamath River rotary screw traps and frame nets at the Bogus site (rkm 307.75), 2002-2013. Note: Lamprey were not identified to species until 2006.

Common name	Scientific name	Year											
		2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
American Shad ^a	<i>Alosa sapidissima</i>	0	0	0	1	0	0	0	0	0	0	0	0
Ammocete	<i>Entosphenus</i> spp.	--	--	--	--	0	27	35	26	51	50	15	6
Bullhead ^a	<i>Ameiurus</i> spp.	7	16	17	7	52	10	19	14	13	18	32	13
Chub ^a	<i>Leuciscus cephalus</i>	0	0	0	1	0	0	0	0	0	0	0	0
Coastrange Sculpin	<i>Cottus aleuticus</i>	0	0	0	0	0	0	0	0	0	1	0	0
Crappie ^a	<i>Pomoxis</i> spp.	53	52	334	46	11	56	25	39	34	15	26	7
Fathead Minnow ^a	<i>Pimphales promelas</i>	0	5	0	0	0	2	0	0	1	3	0	0
Golden Shiner ^a	<i>Notemigonus crysoleucas</i>	840	41	59	38	432	191	452	77	32	44	36	159
Klamath River Lamprey	<i>Entosphenus similis</i>	--	--	--	--	52	16	25	20	29	46	36	14
Largemouth Bass ^a	<i>Micropterus salmoides</i>	0	2	11	1	3	1	1	0	1	1	0	0
Marbled Sculpin	<i>Cottus klamathensis</i>	30	46	27	27	65	40	19	6	7	40	35	17
Pacific Lamprey	<i>Entosphenus tridentatus</i>	--	--	--	--	9	7	2	3	6	2	2	0
Prickly Sculpin	<i>Cottus asper</i>	0	0	1	5	12	1	0	2	0	0	0	0
Speckled Dace	<i>Rhinichthys osculus</i>	70	36	96	30	13	42	23	2	2	1	11	10
Sucker	<i>Catostomus</i> spp.	38	11	16	12	2	0	5	13	14	1	0	1
Sunfish ^a	<i>Lepomis</i> spp.	28	20	496	27	10	12	20	8	5	18	57	12
Unidentified Lamprey		49	158	169	190	5	0	0	2	0	0	0	0
Unidentified Trout	<i>Oncorhynchus</i> spp.	0	0	4	0	0	0	0	0	0	0	0	0
Yellow Perch ^a	<i>Perca flavescens</i>	335	433	1,017	97	65	35	441	255	332	209	395	427

^a non-native

Table 3. Catch totals of non-target fish species captured in the Klamath River rotary screw traps and frame nets at the I-5 site (rkm 293.55), 2000-2013. Note: Lamprey were not identified to species until 2006.

Common name	Scientific name	Year													
		2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Ammocete	<i>Entosphenus</i> spp.	--	--	--	--	--	--	0	7	20	42	45	17	1	2
Bullhead ^a	<i>Ameiurus</i> spp.	22	20	18	31	24	25	18	9	49	43	106	115	99	43
Chub ^a	<i>Leuciscus cephalus</i>	0	0	0	2	0	4	0	0	0	0	0	0	0	0
Coastrange Sculpin	<i>Cottus aleuticus</i>	3	1	0	0	1	0	0	0	0	0	0	2	0	0
Crappie ^a	<i>Pomoxis</i> spp.	7	16	12	17	7	4	5	39	28	5	11	3	30	5
Fathead Minnow ^a	<i>Pimphales promelas</i>	1	0	3	1	31	1	2	3	3	2	7	20	6	2
Golden Shiner ^a	<i>Notemigonus crysoleucas</i>	39	4	121	11	27	18	24	23	45	47	8	41	14	34
Klamath River Lamprey	<i>Entosphenus similis</i>	--	--	--	--	--	--	3	9	73	37	21	88	114	18
Largemouth Bass ^a	<i>Micropterus salmoides</i>	0	0	0	0	0	0	8	0	0	1	0	0	0	0
Marbled Sculpin	<i>Cottus klamathensis</i>	123	19	69	11	8	10	40	5	28	25	26	35	13	21
Pacific Lamprey	<i>Entosphenus tridentatus</i>	--	--	--	--	--	--	1	60	142	66	12	7	8	0
Prickly Sculpin	<i>Cottus asper</i>	10	0	0	0	13	1	8	0	0	2	0	0	0	0
Smelt ^b	<i>Osmeridae</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Speckled Dace	<i>Rhinichthys osculus</i>	440	46	43	30	21	40	40	77	83	51	32	52	75	39
Sucker	<i>Catostomus</i> spp.	133	40	22	7	1	2	52	5	32	69	114	24	10	2
Sunfish ^a	<i>Lepomis</i> spp.	7	3	9	3	24	0	2	6	10	4	6	9	30	2
Unidentified Lamprey		948	166	226	119	142	108	7	1	2	1	0	0	1	0
Unidentified Salmonid	<i>Oncorhynchus</i> spp.	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Yellow Perch ^a	<i>Perca flavescens</i>	24	4	16	28	7	2	8	16	74	14	34	126	131	28

^a non-native

^b not identified to species, therefore unknown if native

Table 4. Catch totals of non-target fish species captured in the Klamath River rotary screw traps and frame nets at the Kinsman site (rkm 237.55), 2002-2013. Note: Lamprey were not identified to species until 2006.

Common name	Scientific name	Year											
		2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
American Shad ^a	<i>Alosa sapidissima</i>	0	1	0	0	0	0	0	0	0	0	0	0
Ammocete	<i>Entosphenus</i> spp.	--	--	--	--	32	119	262	156	1,127	209	20	7
Bullhead ^a	<i>Ameiurus</i> spp.	97	125	348	171	33	44	39	28	46	81	20	7
Chub ^a	<i>Leuciscus cephalus</i>	0	2	1	0	0	0	0	0	0	0	0	0
Chum Salmon	<i>Oncorhynchus keta</i>	0	0	1	0	0	0	0	0	0	0	0	0
Coastrange Sculpin	<i>Cottus aleuticus</i>	0	1	9	1	0	0	0	0	0	0	0	0
Crappie ^a	<i>Pomoxis</i> spp.	2	0	2	2	1	3	2	2	0	3	0	0
Fathead Minnow ^a	<i>Pimphales promelas</i>	0	9	3	8	1	3	2	0	1	6	4	2
Golden Shiner ^a	<i>Notemigonus crysoleucas</i>	99	11	22	14	8	21	28	12	8	12	12	1
Klamath River Lamprey	<i>Entosphenus similis</i>	--	--	--	--	120	159	241	131	156	106	278	262
Largemouth Bass ^a	<i>Micropterus salmoides</i>	0	0	1	0	7	2	0	0	0	0	0	0
Marbled Sculpin	<i>Cottus klamathensis</i>	21	15	26	36	9	24	67	4	14	1	3	2
Miller Lake Lamprey	<i>Entosphenus minimus</i>	--	--	--	--	0	1	0	0	0	0	0	0
Pacific Lamprey	<i>Entosphenus tridentatus</i>	--	--	--	--	36	1,443	363	599	568	125	96	26
Prickly Sculpin	<i>Cottus asper</i>	0	0	11	10	5	3	1	3	0	0	1	0
Smelt ^b	Osmeridae	0	0	0	0	0	1	0	1	0	0	0	0
Speckled Dace	<i>Rhinichthys osculus</i>	1,511	331	236	438	384	1,701	3,865	692	423	262	470	441
Sucker	<i>Catostomus</i> spp.	106	233	434	20	72	388	285	75	62	52	24	22
Sunfish ^a	<i>Lepomis</i> spp.	8	16	18	2	3	13	8	1	0	1	3	0
Unidentified Lamprey		2,441	984	1,260	1,283	116	1	0	1	0	0	0	2
Yellow Perch ^a	<i>Perca flavescens</i>	1	0	3	0	7	2	8	0	1	4	3	1

^a non-native^b not identified to species, therefore unknown if native

Figures

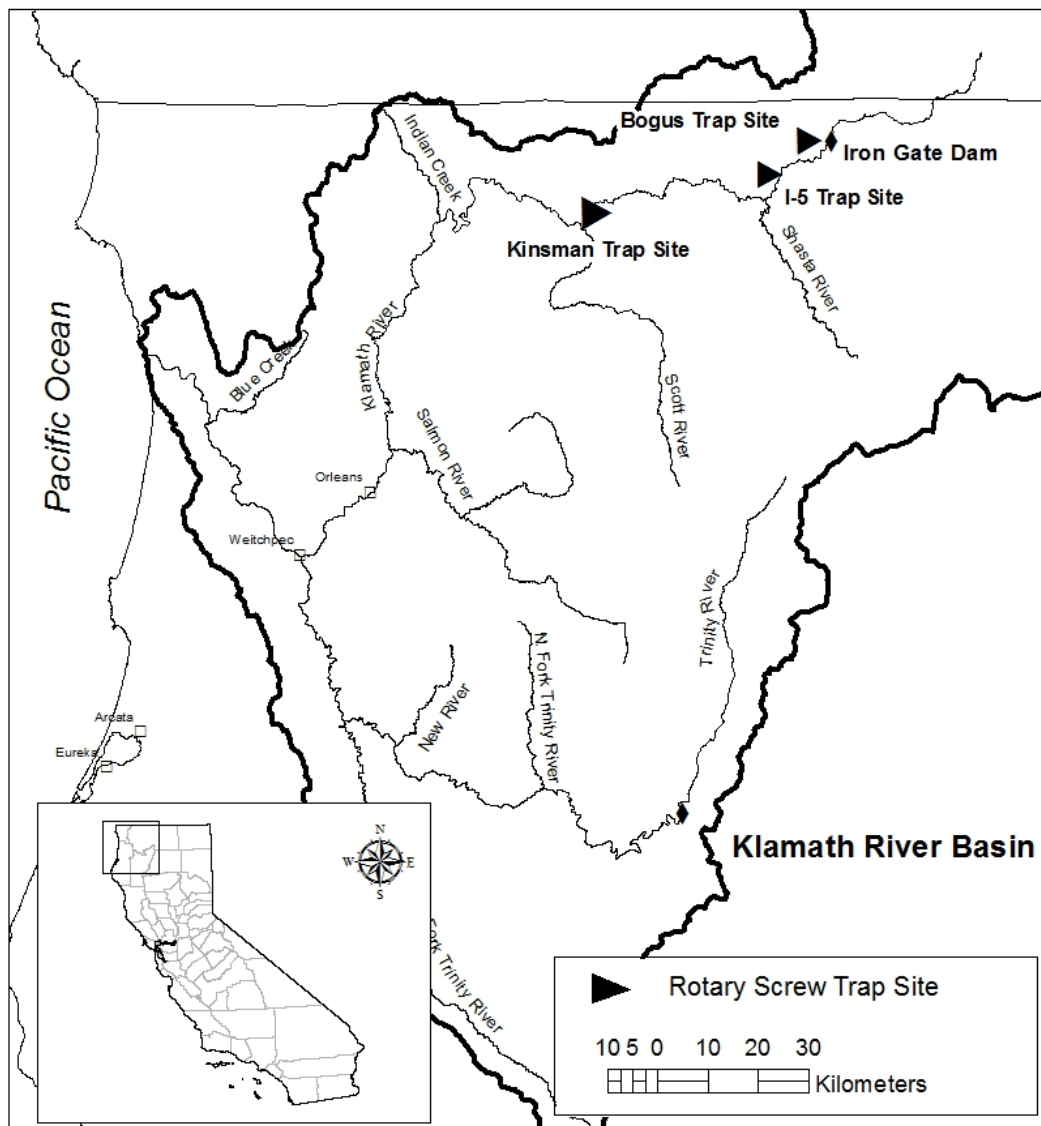


Figure 1. The Klamath River basin with the trap sites identified.

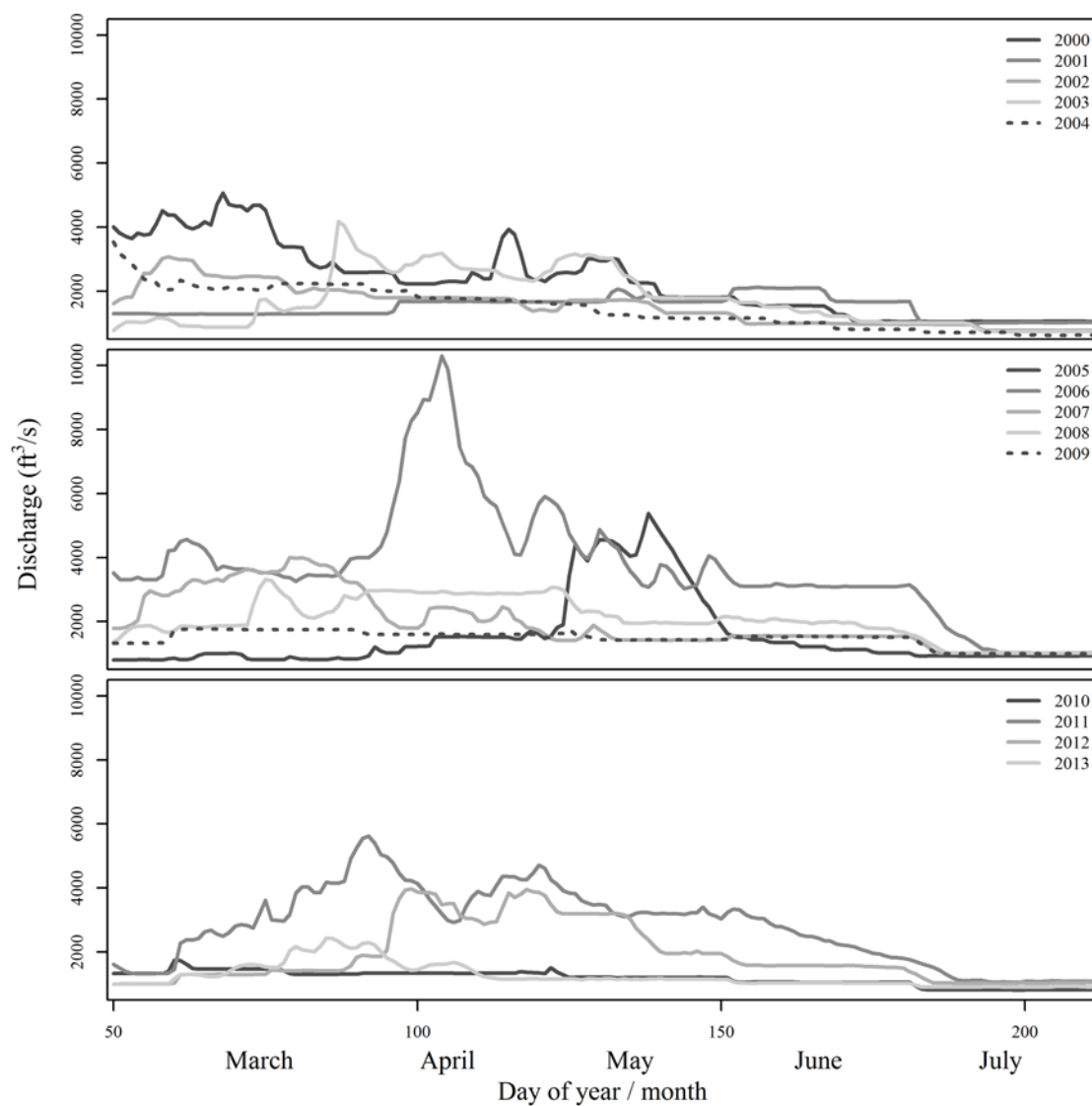


Figure 2. Klamath River mean daily discharge (ft³/s) as recorded below Iron Gate Dam, California (USGS gauging station 11516530), for mid-February through the end of July, 2000-2013.

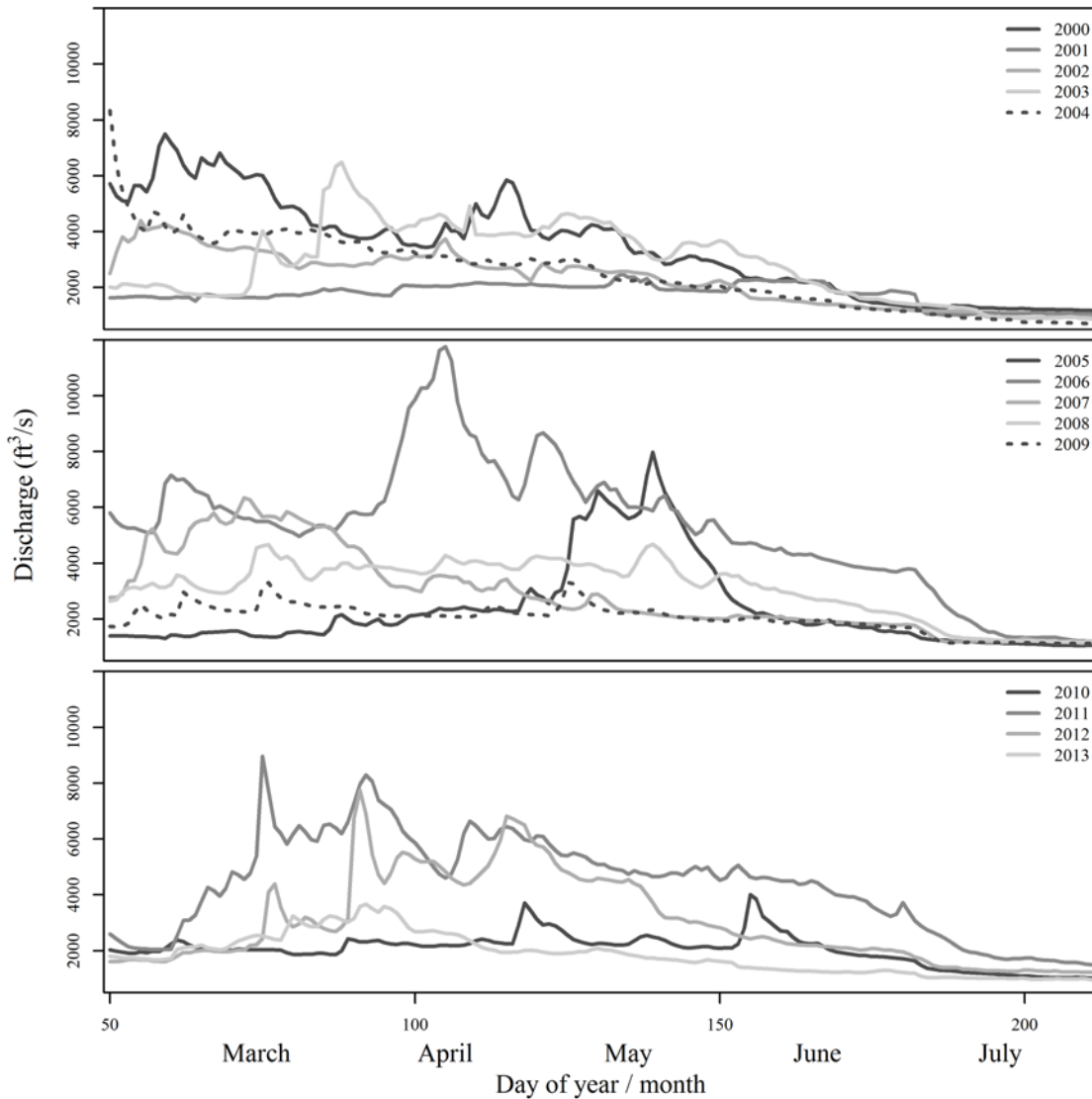


Figure 3. Klamath River mean daily discharge (ft^3/s) as estimated at the Kinsman outmigrant trap site, California, for mid-February through the end of July, 2000-2013. Discharge at the Kinsman trap site was estimated by subtracting the discharge of the Scott River near Fort Jones, CA (USGS gauging station 11511950) from the discharge of the Klamath River near Seiad Valley, CA (USGS gauging station 11520500).

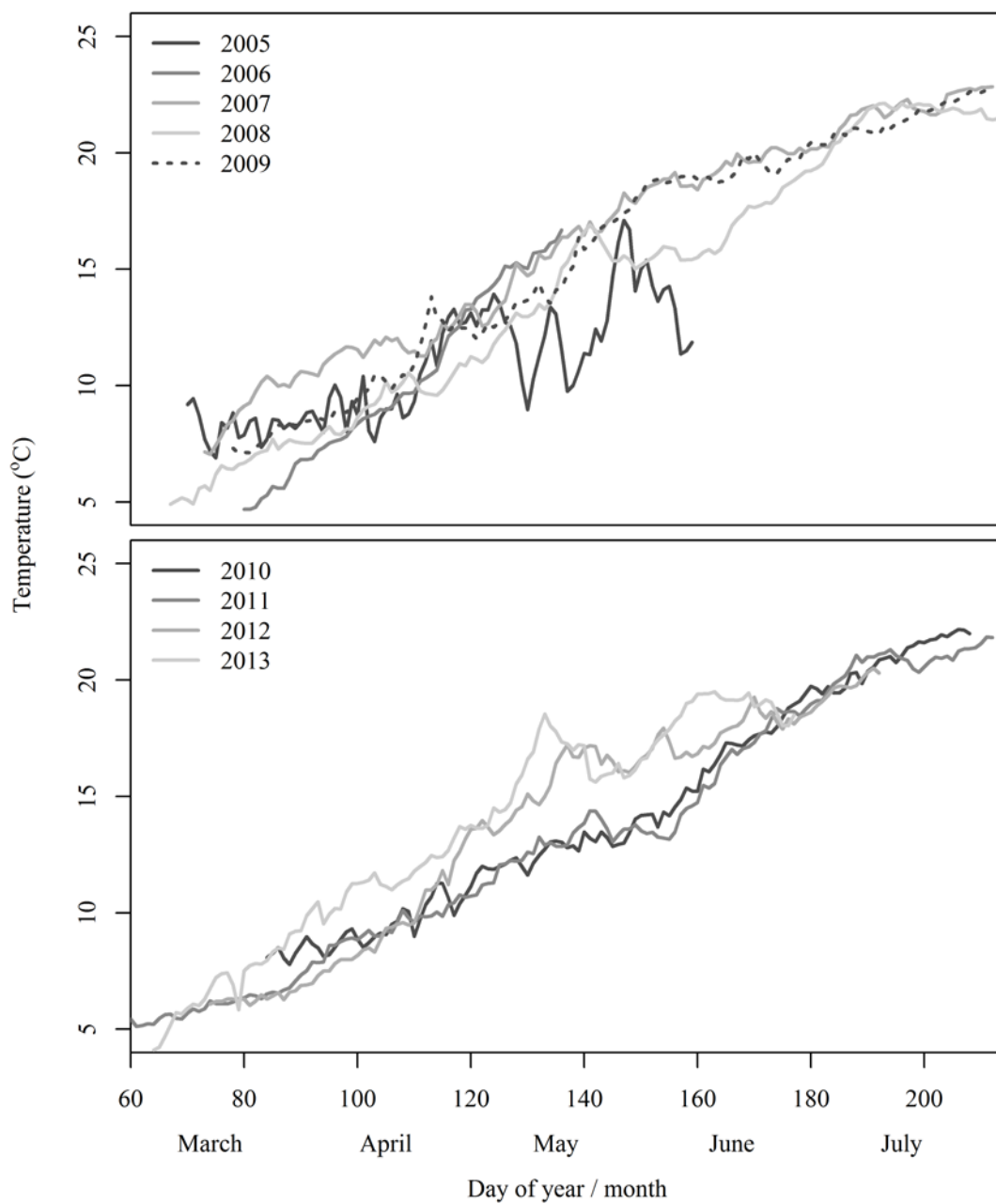


Figure 4. Mean daily water temperature at the Bogus trap site during the outmigrant trapping season, 2005-2013.

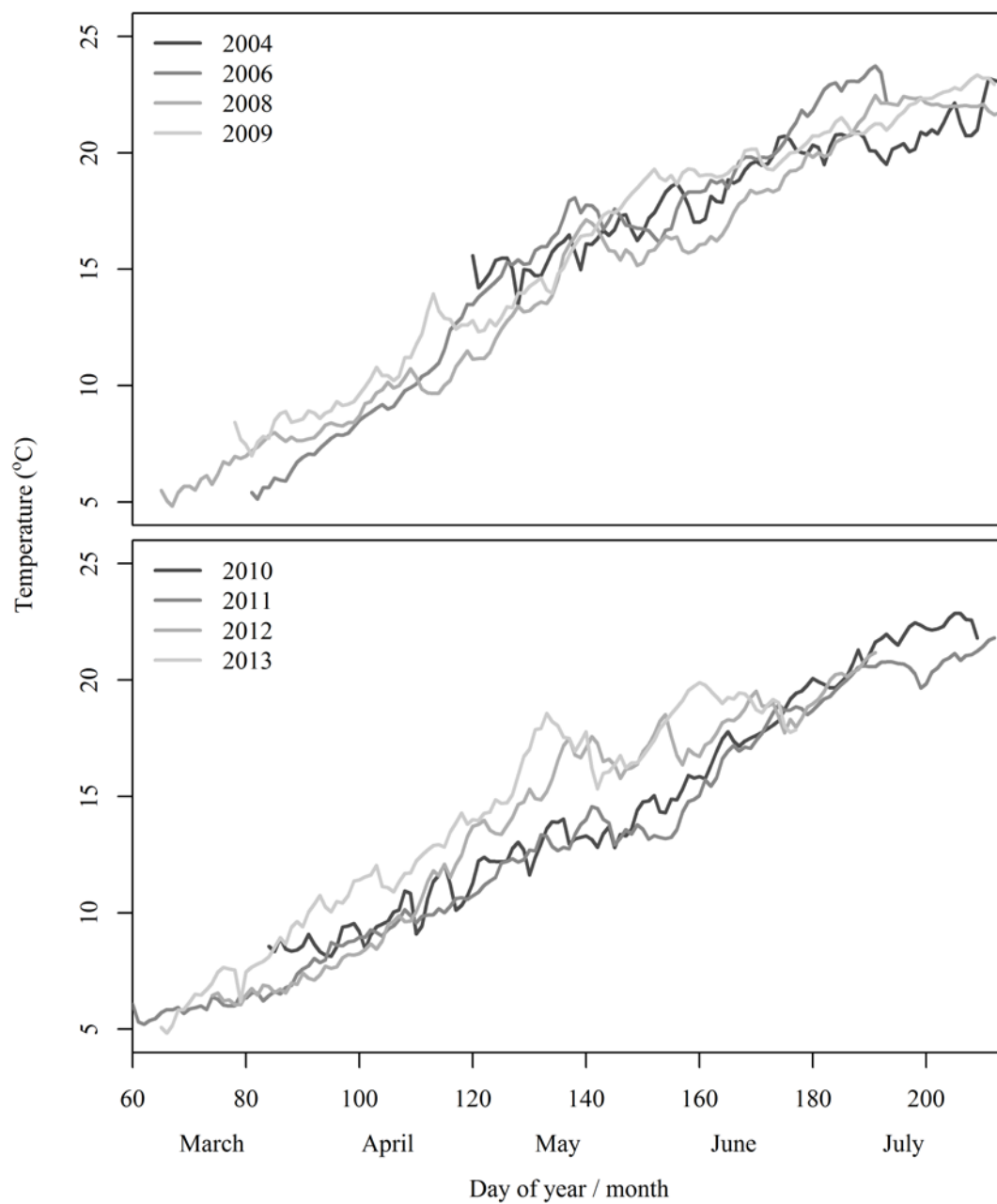


Figure 5. Mean daily water temperature at the I-5 trap site during the outmigrant trapping season, 2004, 2006, and 2008-2013.

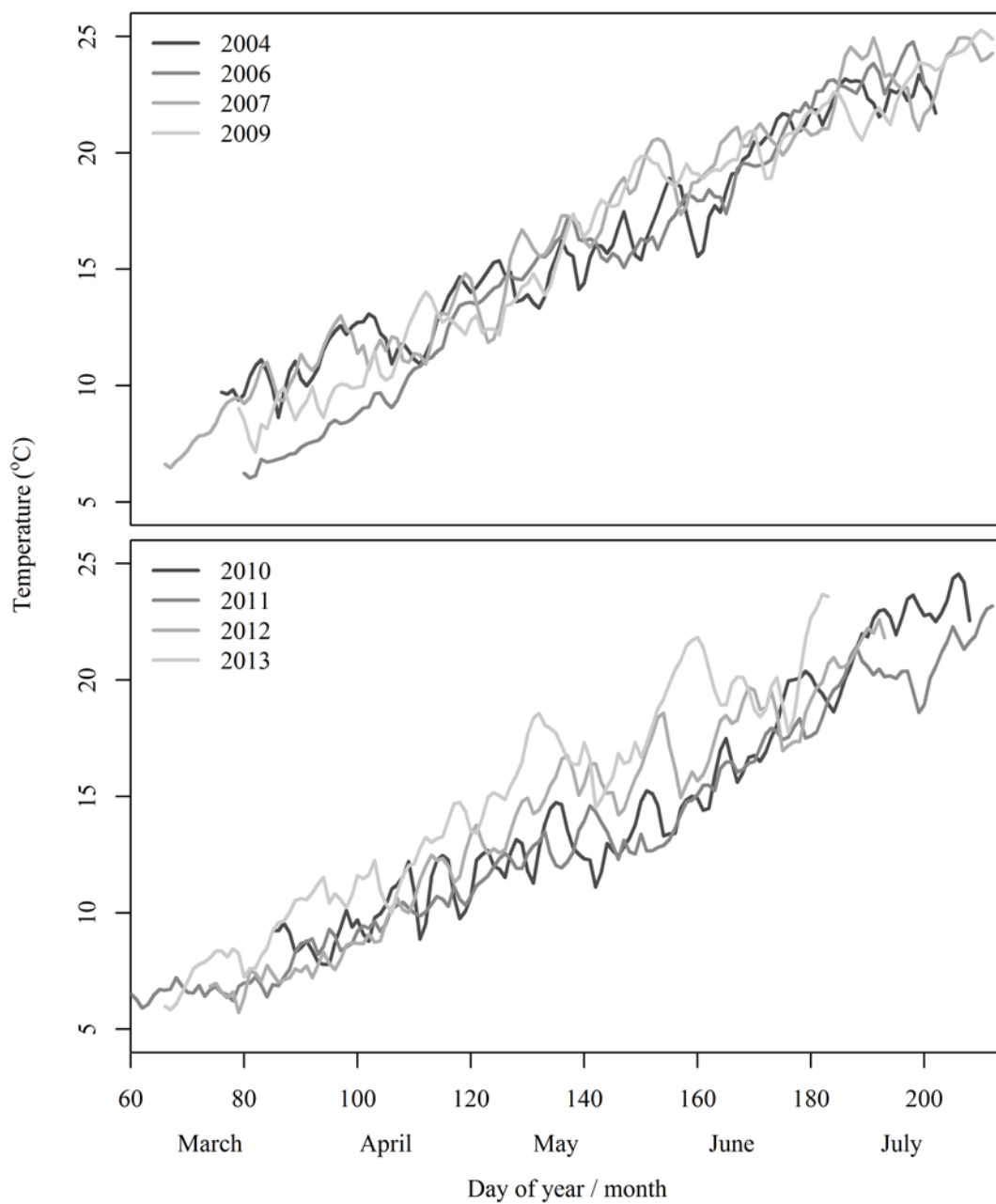


Figure 6. Mean daily water temperature at the Kinsman trap site during the outmigrant trapping season, 2004, 2006, 2007, and 2009-2013.

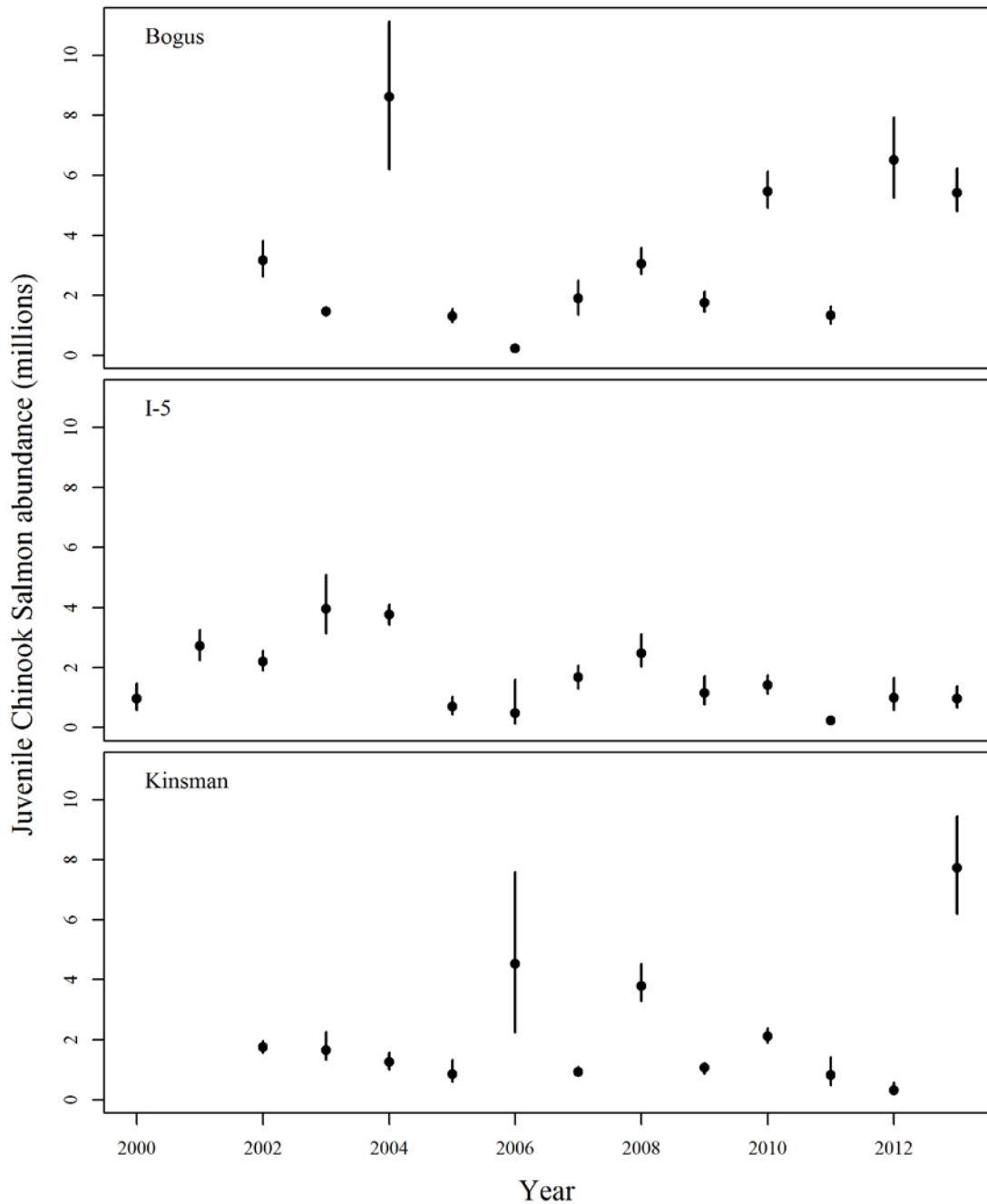


Figure 7. Mainstem Klamath River mean and lower (2.5% credible interval) and upper (97.5% credible interval) bound estimates for natural-origin, age-0 juvenile Chinook Salmon seasonal outmigrant abundance past the three trap sites. Note: High flows throughout the 2006 sampling season resulted in small catches and poor trap efficiency at all three trap sites. Thus, the abundance estimates for 2006 are highly uncertain and should not be used for statistical analysis or inference.

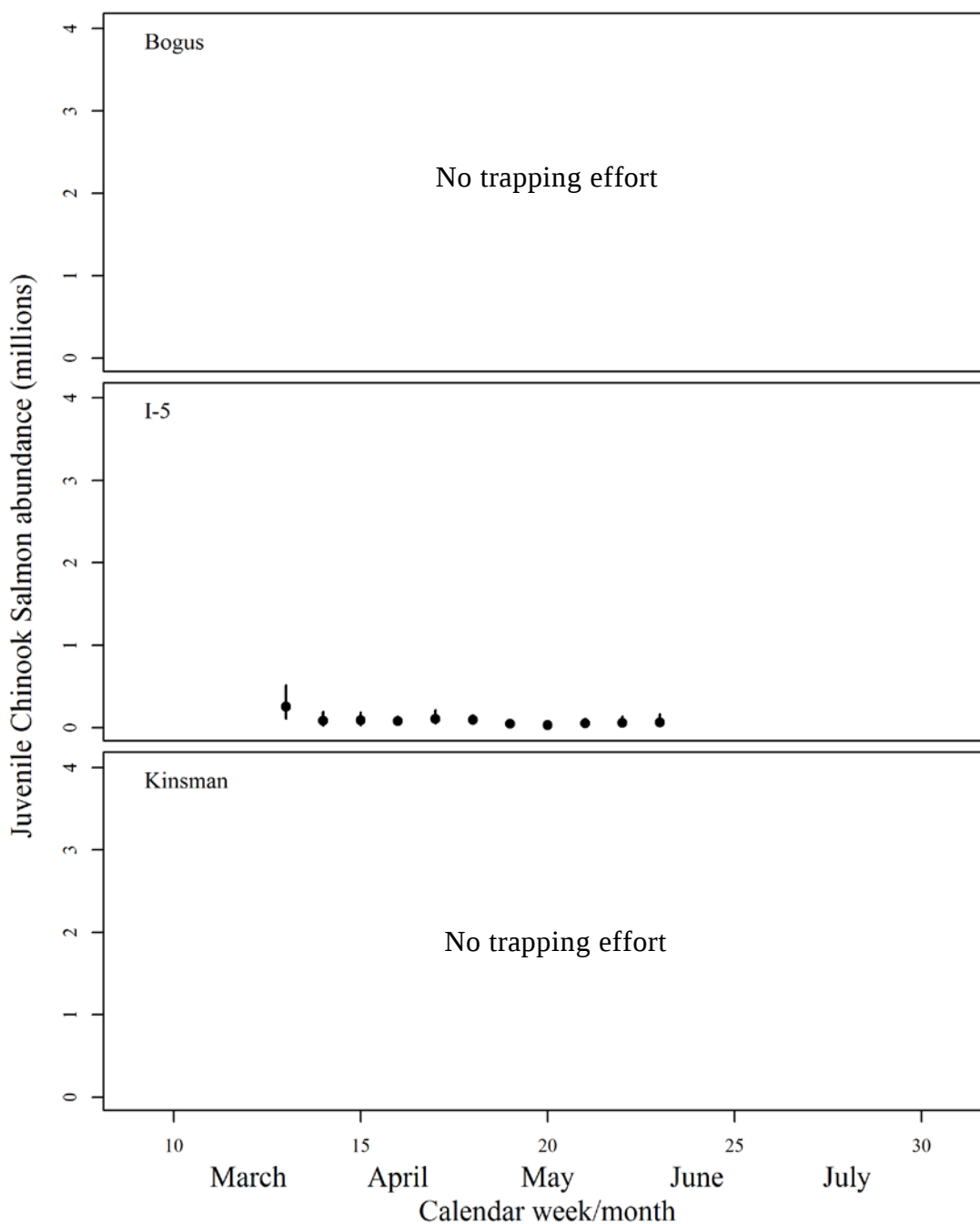


Figure 8. Weekly mean and lower (2.5% credible interval) and upper (97.5% credible interval) bound estimates for natural-origin, age-0 juvenile Chinook Salmon outmigrant abundance past the I-5 trap site, 2000.

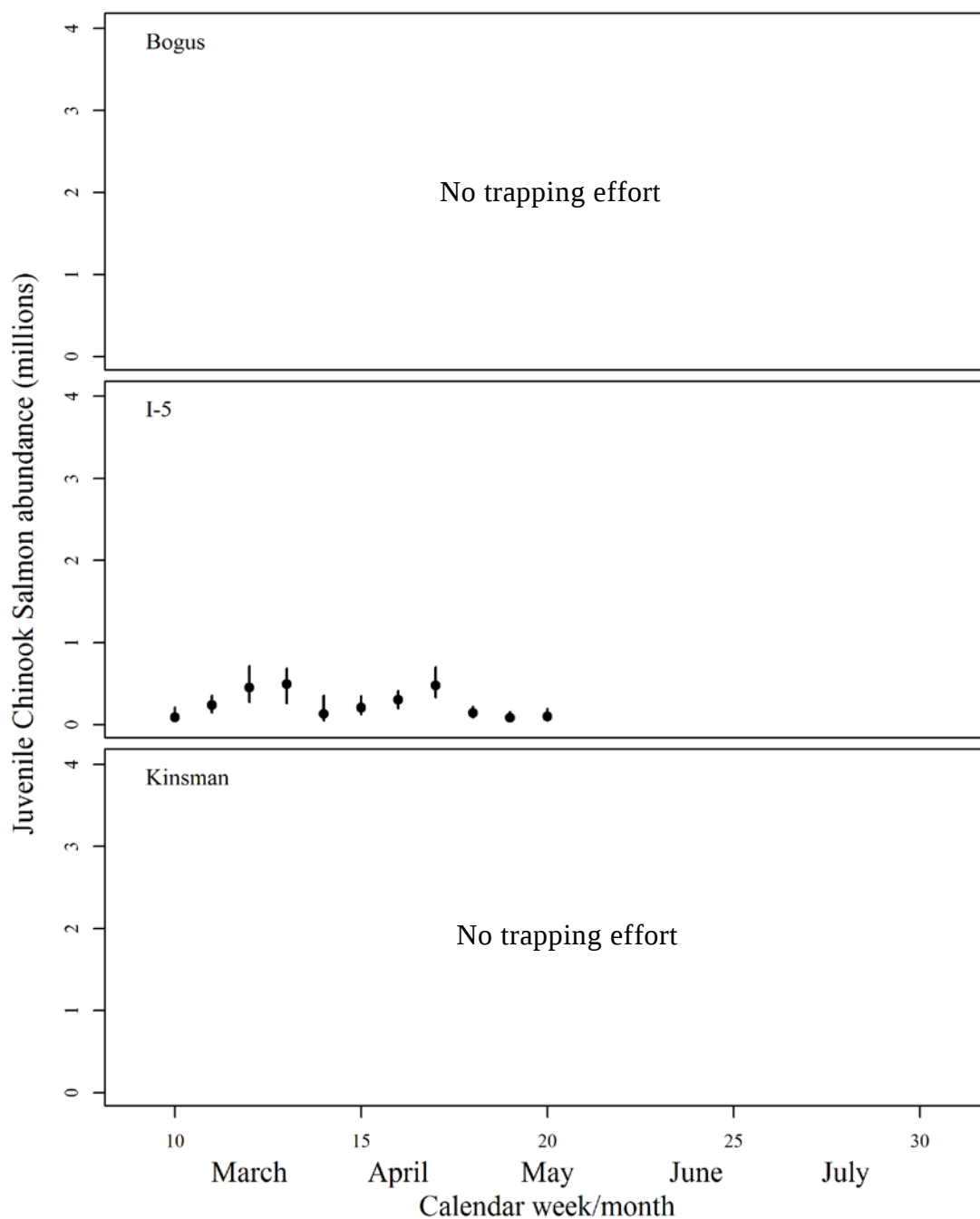


Figure 9. Weekly mean and lower (2.5% credible interval) and upper (97.5% credible interval) bound estimates for natural-origin, age-0 juvenile Chinook Salmon outmigrant abundance past the I-5 trap site, 2001.

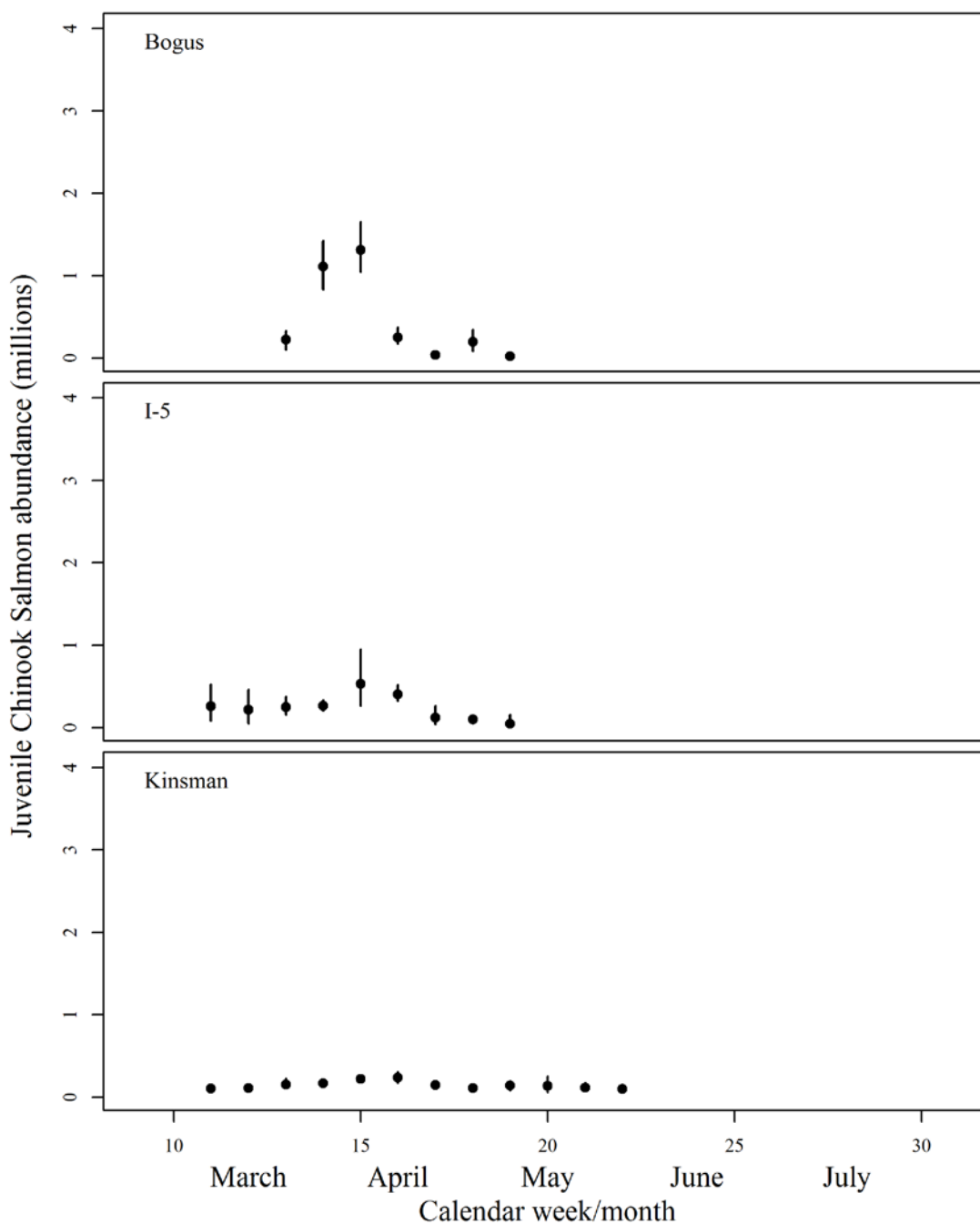


Figure 10. Weekly mean and lower (2.5% credible interval) and upper (97.5% credible interval) bound estimates for natural-origin, age-0 juvenile Chinook Salmon outmigrant abundance past the three trap sites, 2002.

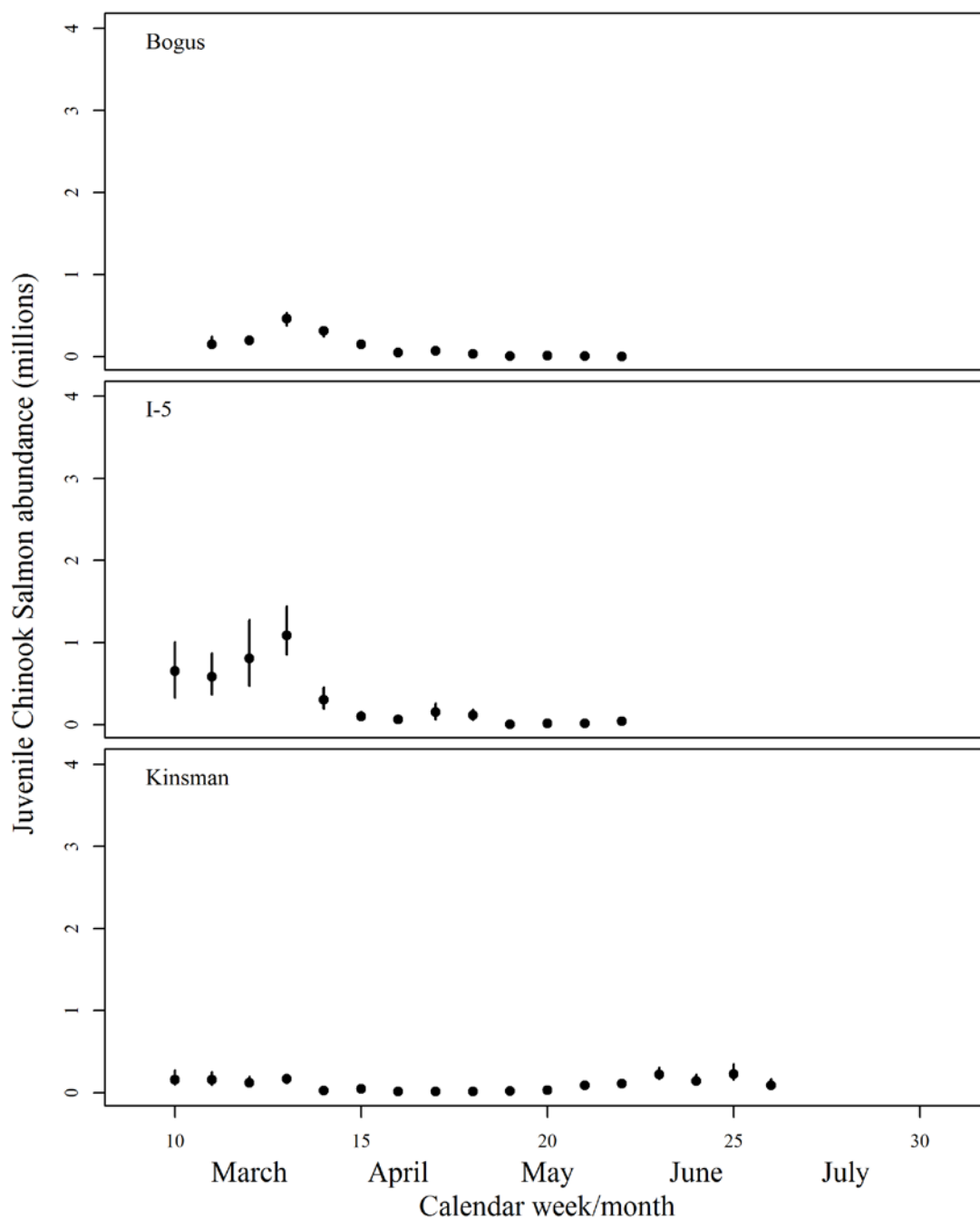


Figure 11. Weekly mean and lower (2.5% credible interval) and upper (97.5% credible interval) bound estimates for natural-origin, age-0 juvenile Chinook Salmon outmigrant abundance past the three trap sites, 2003.

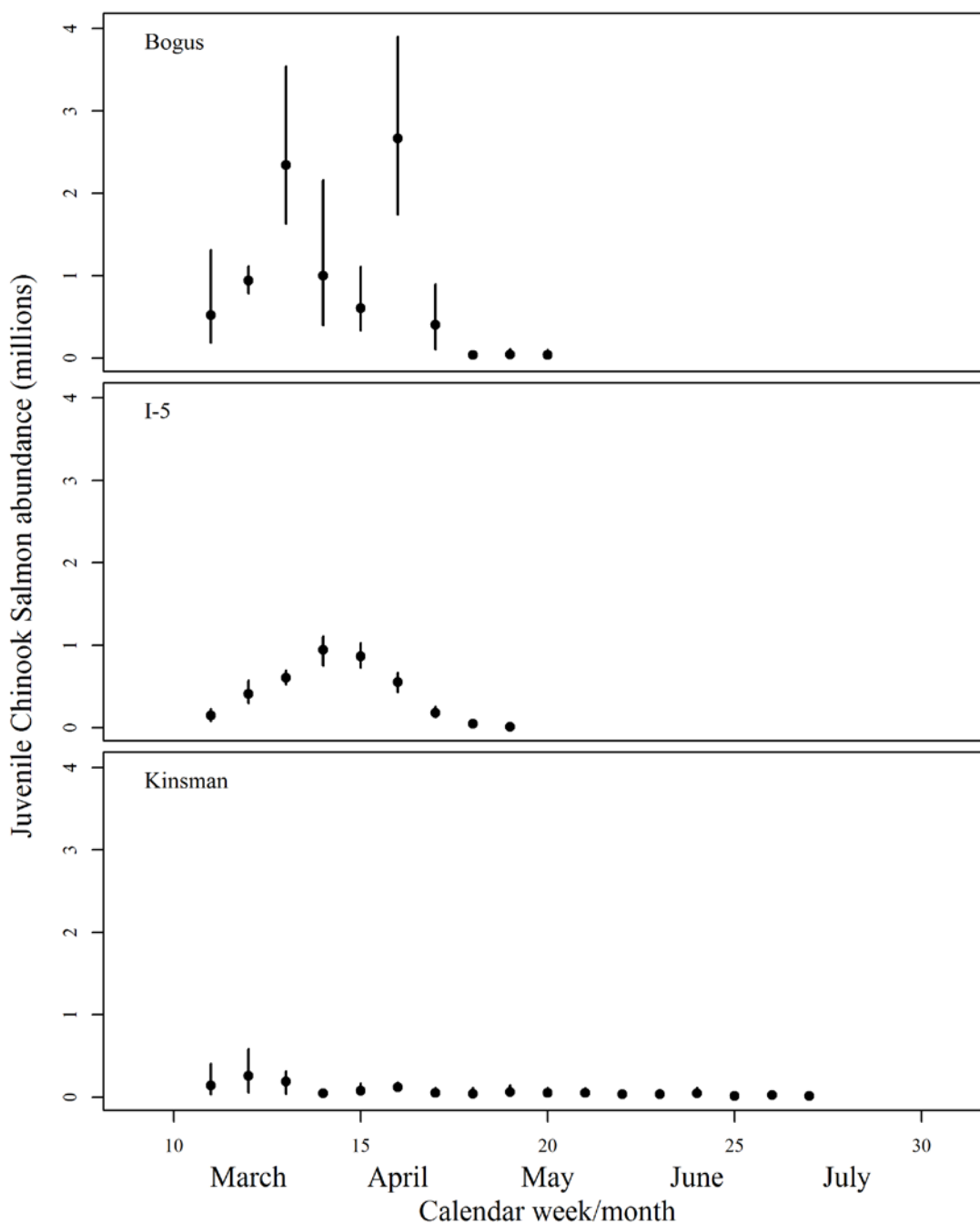


Figure 12. Weekly mean and lower (2.5% credible interval) and upper (97.5% credible interval) bound estimates for natural-origin, age-0 juvenile Chinook Salmon outmigrant abundance past the three trap sites, 2004.

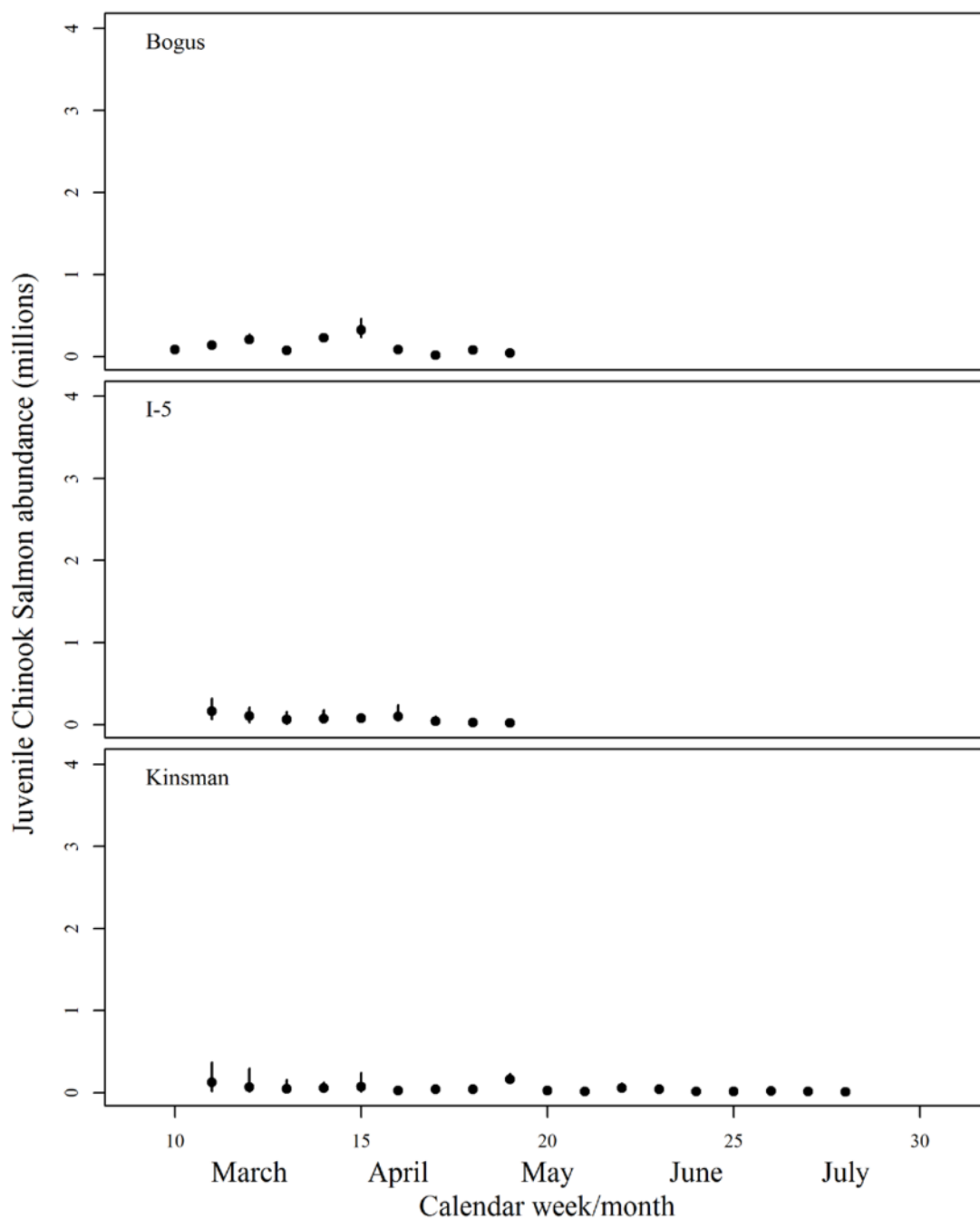


Figure 13. Weekly mean and lower (2.5% credible interval) and upper (97.5% credible interval) bound estimates for natural-origin, age-0 juvenile Chinook Salmon outmigrant abundance past the three trap sites, 2005.

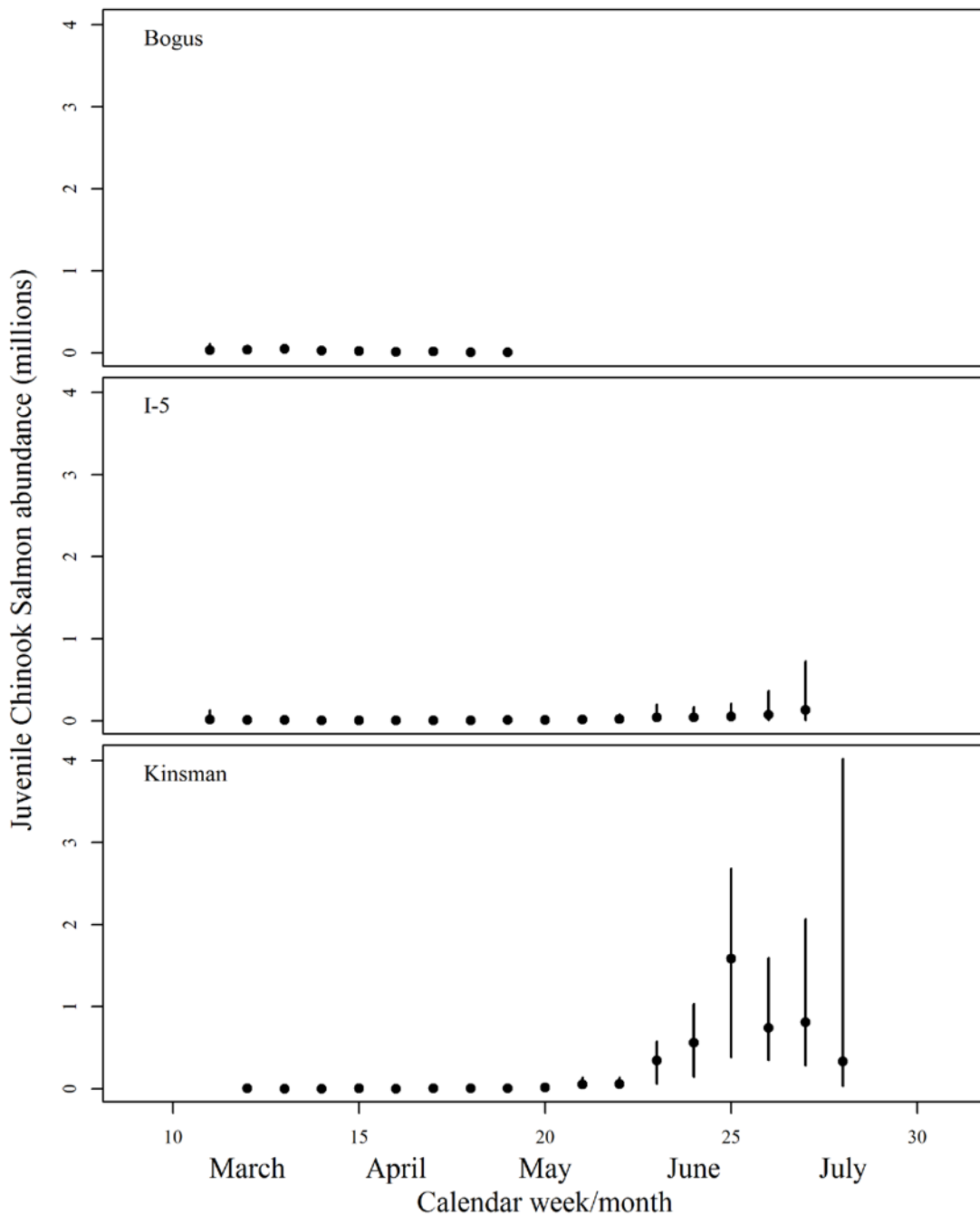


Figure 14. Weekly mean and lower (2.5% credible interval) and upper (97.5% credible interval) bound estimates for natural-origin, age-0 juvenile Chinook Salmon outmigrant abundance past the three trap sites, 2006. Note: High flows throughout the 2006 sampling season resulted in small catches and poor trap efficiency at all three trap sites. Thus, the abundance estimates for 2006 are highly uncertain and should not be used for statistical analysis or inference.

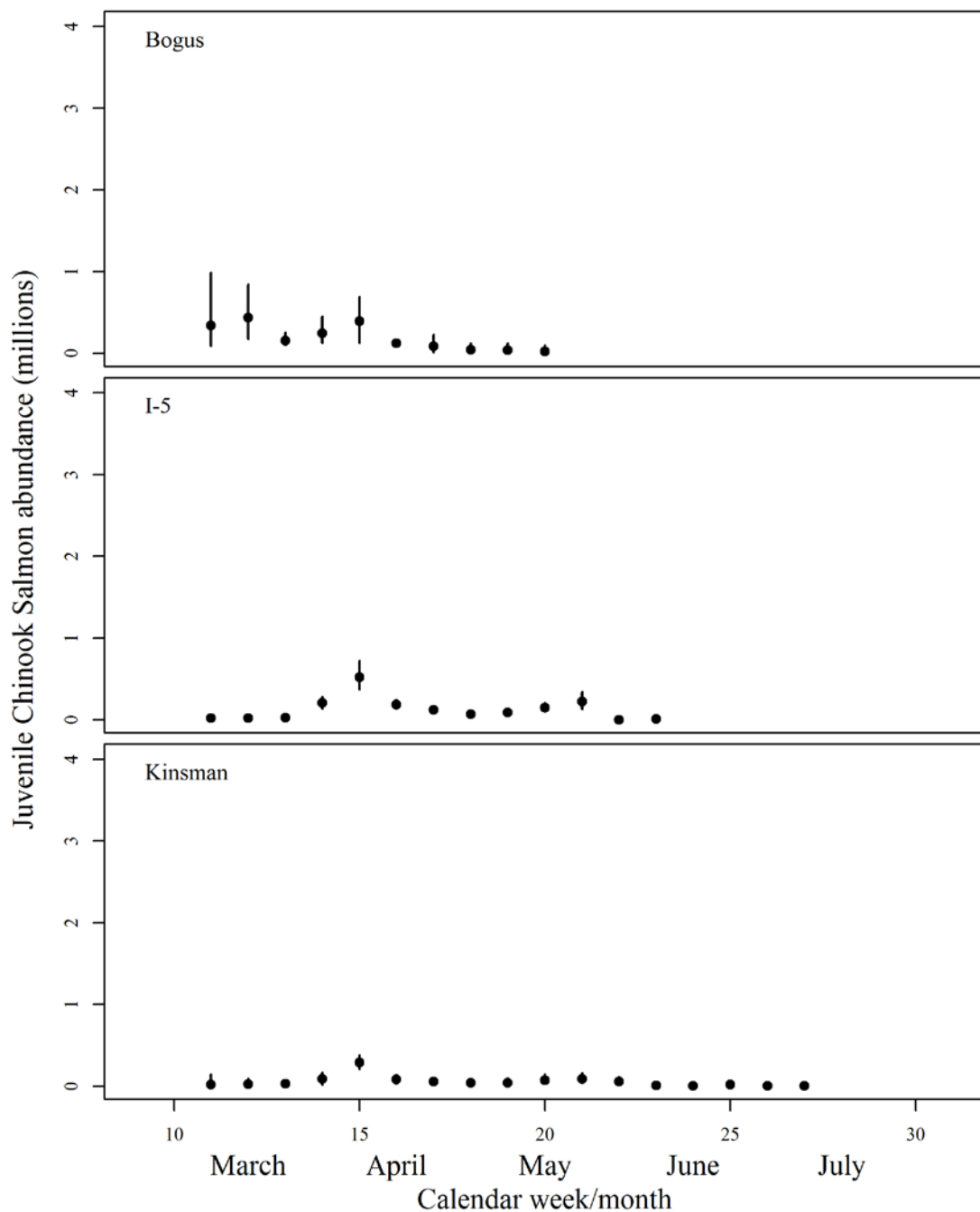


Figure 15. Weekly mean and lower (2.5% credible interval) and upper (97.5% credible interval) bound estimates for natural-origin, age-0 juvenile Chinook Salmon outmigrant abundance past the three trap sites, 2007.

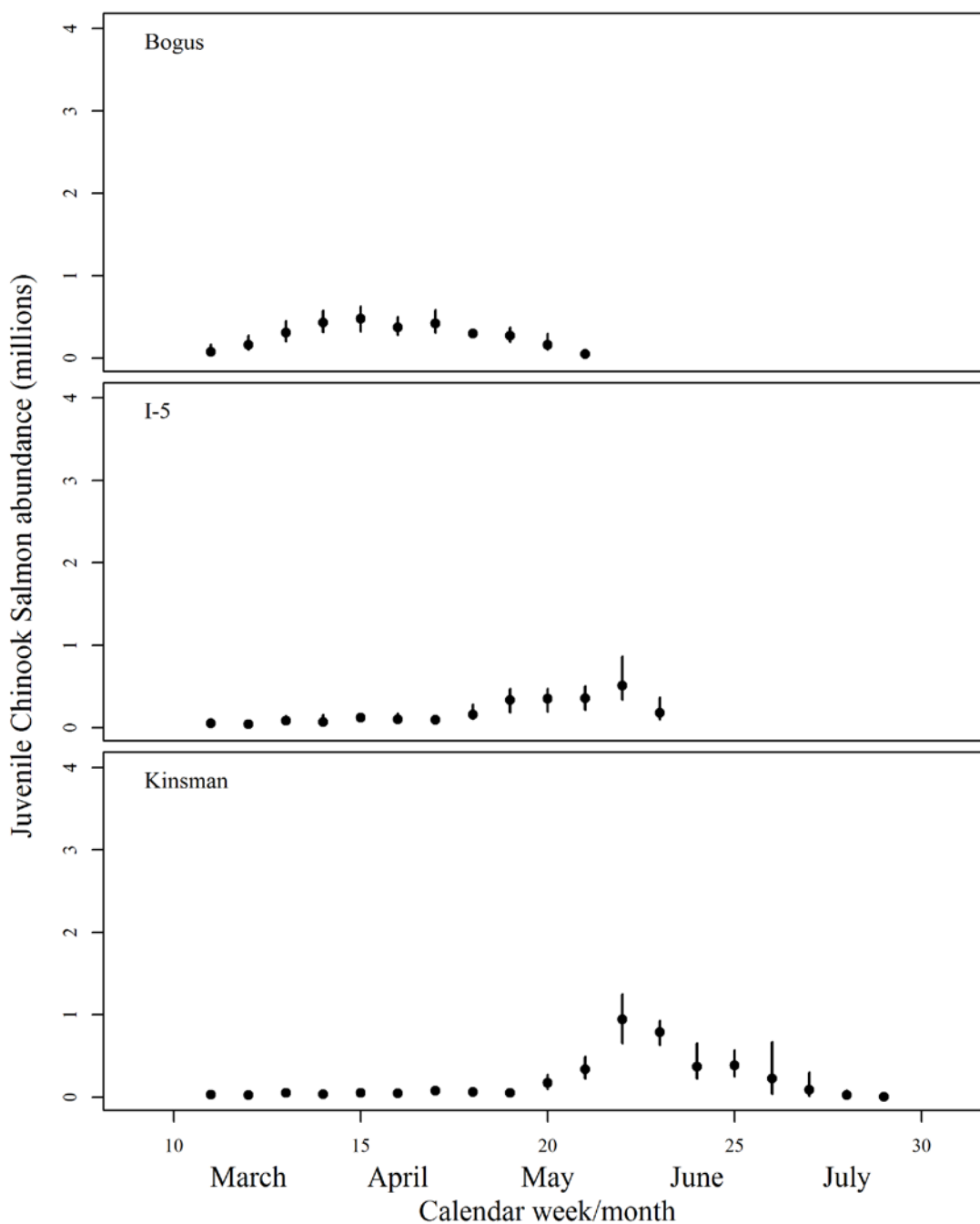


Figure 16. Weekly mean and lower (2.5% credible interval) and upper (97.5% credible interval) bound estimates for natural-origin, age-0 juvenile Chinook Salmon outmigrant abundance past the three trap sites, 2008.

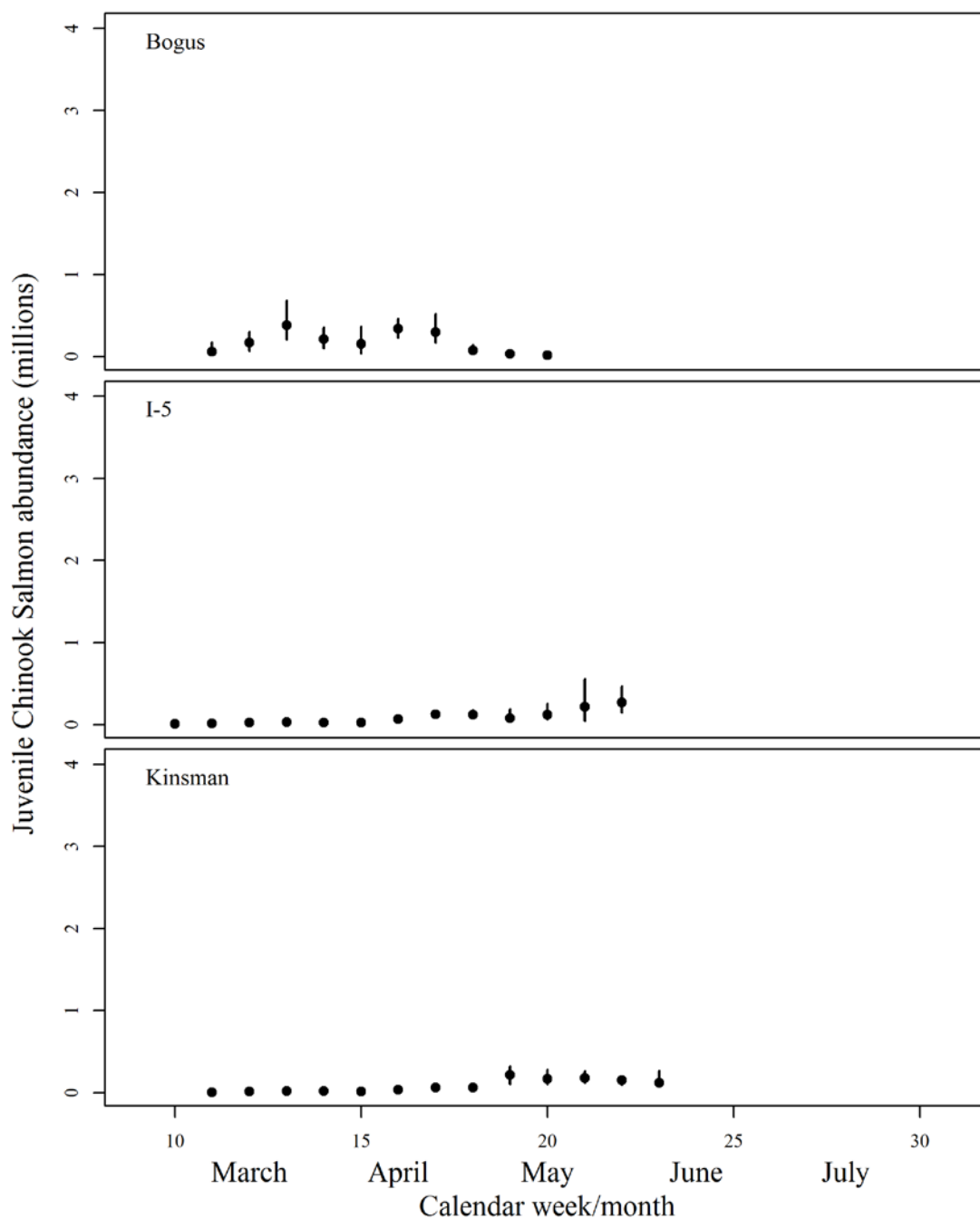


Figure 17. Weekly mean and lower (2.5% credible interval) and upper (97.5% credible interval) bound estimates for natural-origin, age-0 juvenile Chinook Salmon outmigrant abundance past the three trap sites, 2009.

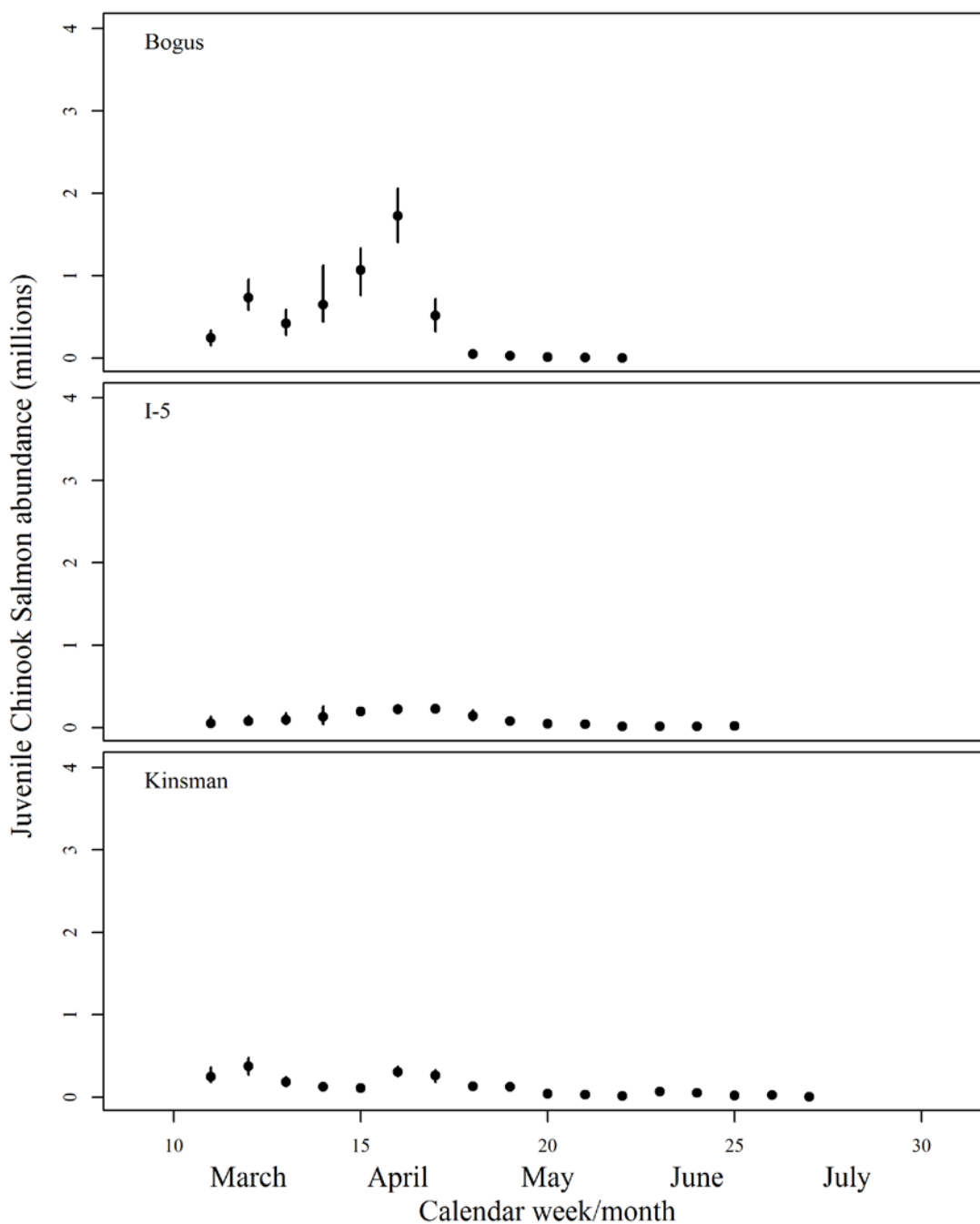


Figure 18. Weekly mean and lower (2.5% credible interval) and upper (97.5% credible interval) bound estimates for natural-origin, age-0 juvenile Chinook Salmon outmigrant abundance past the three trap sites, 2010.

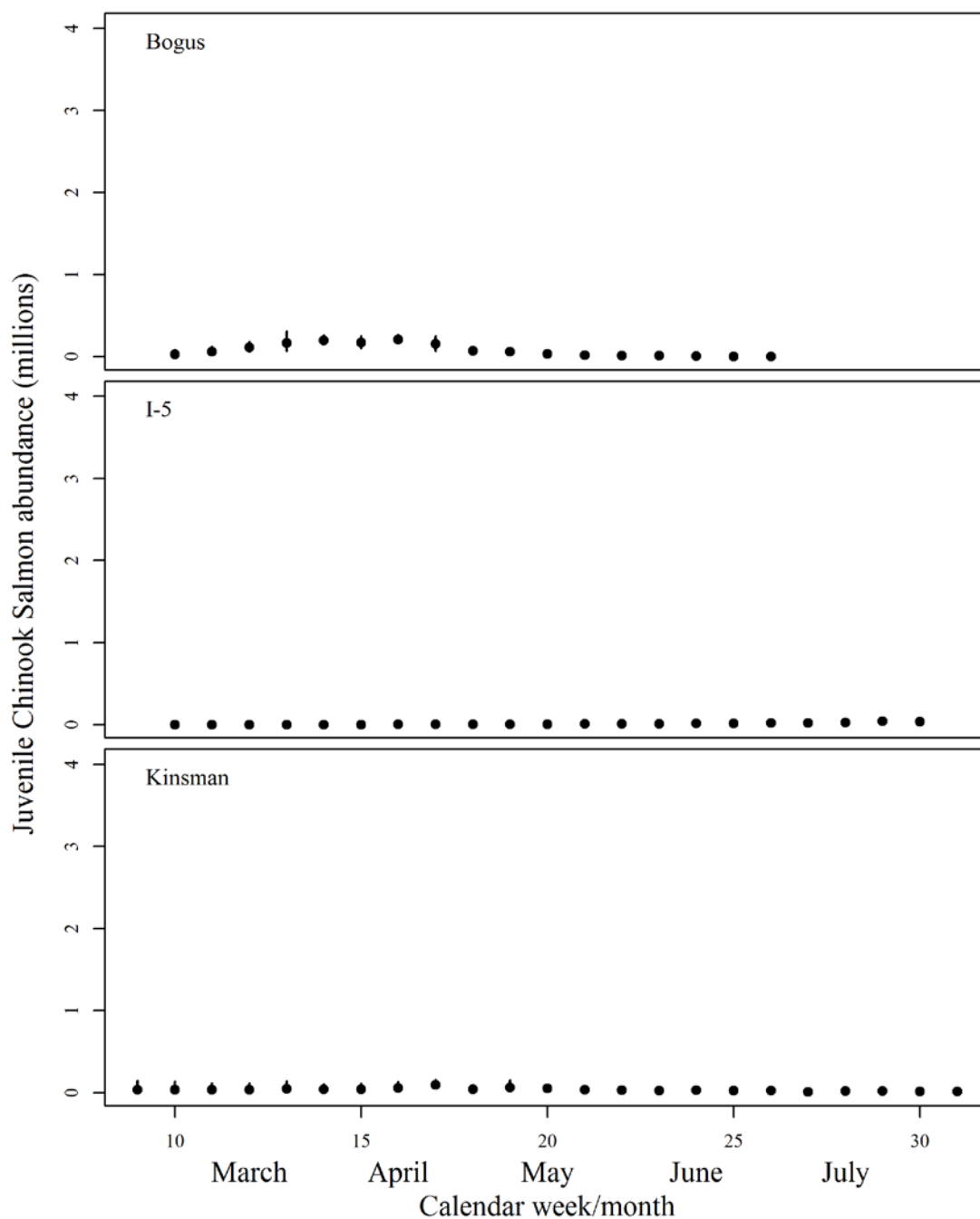


Figure 19. Weekly mean and lower (2.5% credible interval) and upper (97.5% credible interval) bound estimates for natural-origin, age-0 juvenile Chinook Salmon outmigrant abundance past the three trap sites, 2011.

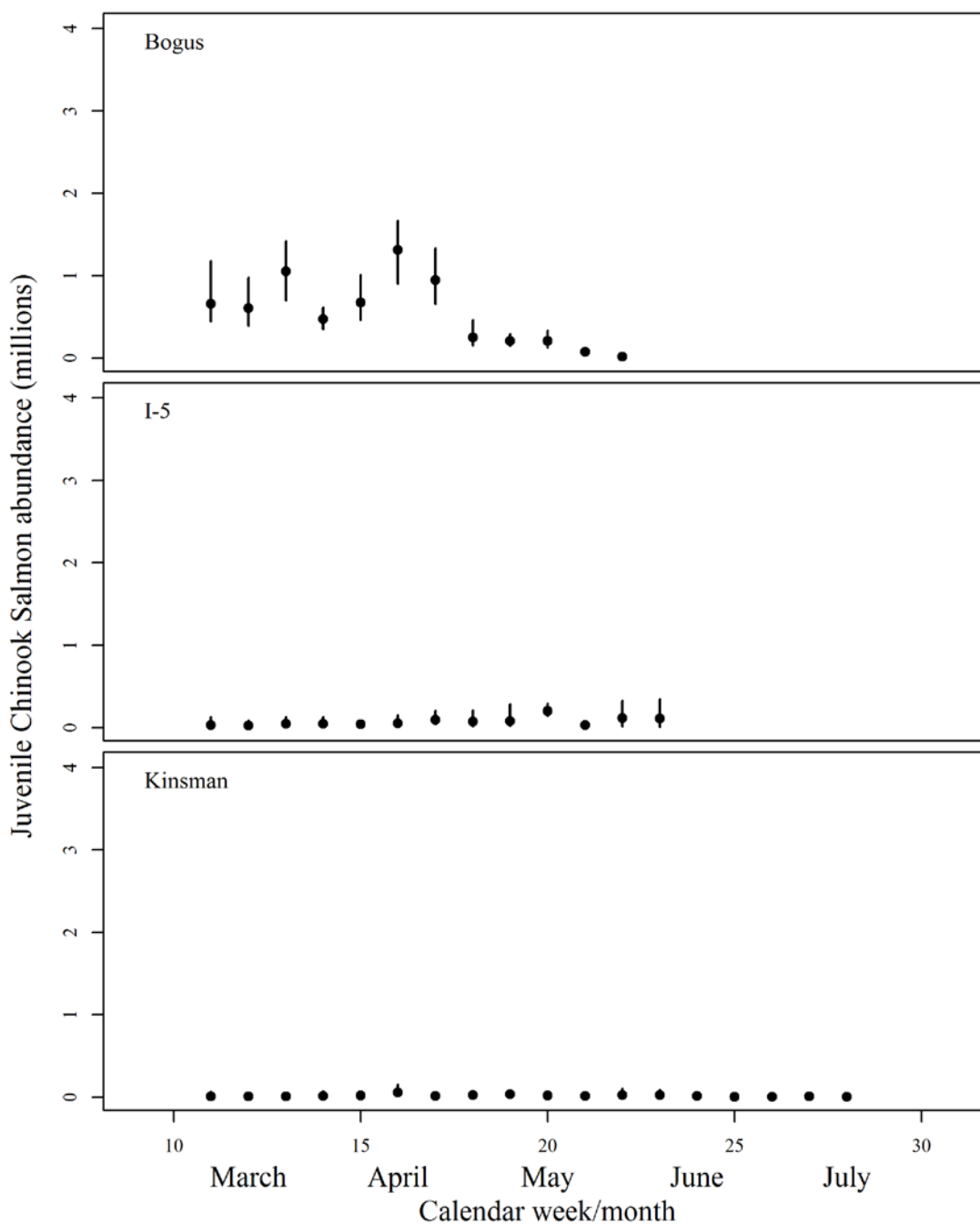


Figure 20. Weekly mean and lower (2.5% credible interval) and upper (97.5% credible interval) bound estimates for natural-origin, age-0 juvenile Chinook Salmon outmigrant abundance past the three trap sites, 2012.

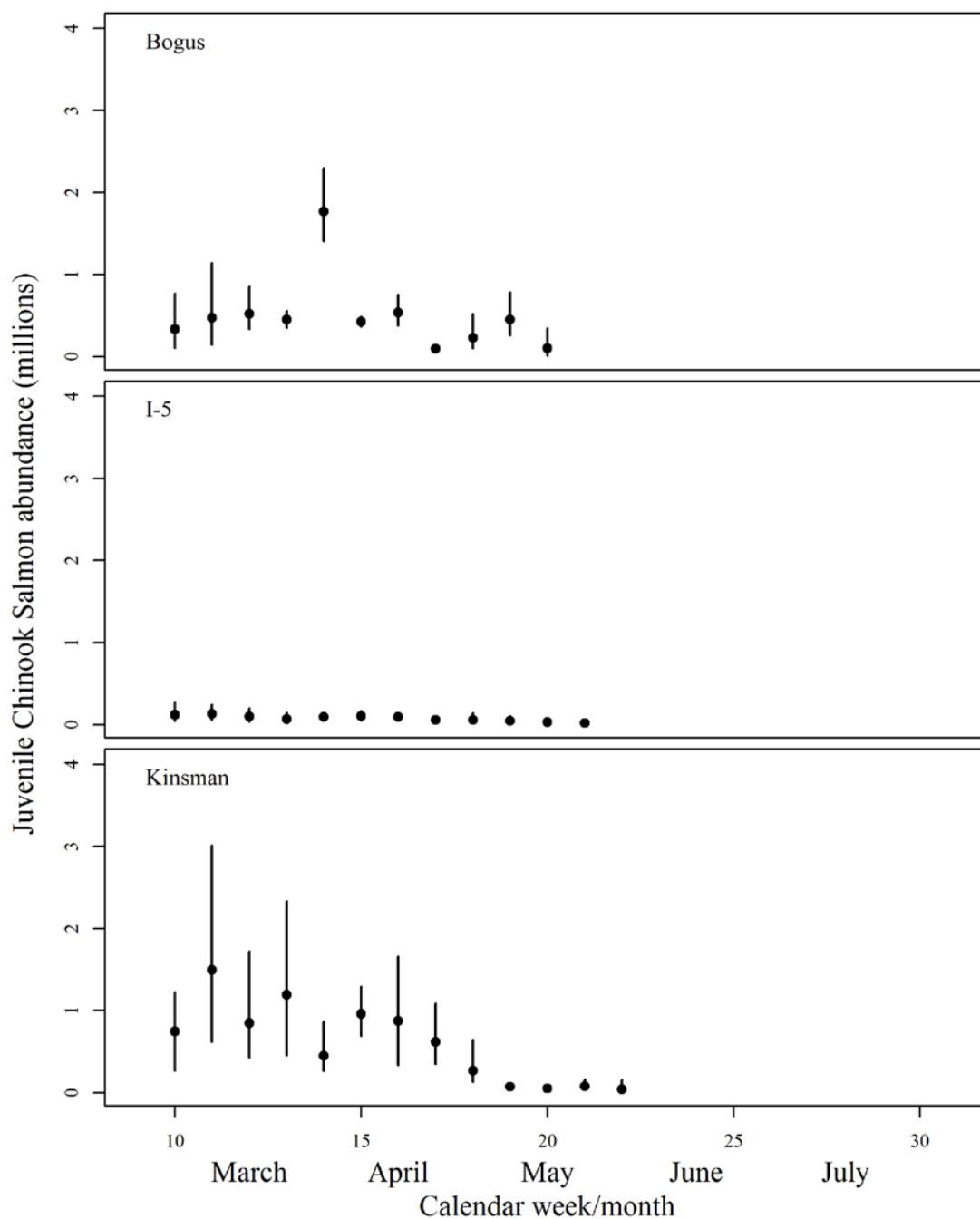


Figure 21. Weekly mean and lower (2.5% credible interval) and upper (97.5% credible interval) bound estimates for natural-origin, age-0 juvenile Chinook Salmon outmigrant abundance past the three trap sites, 2013.

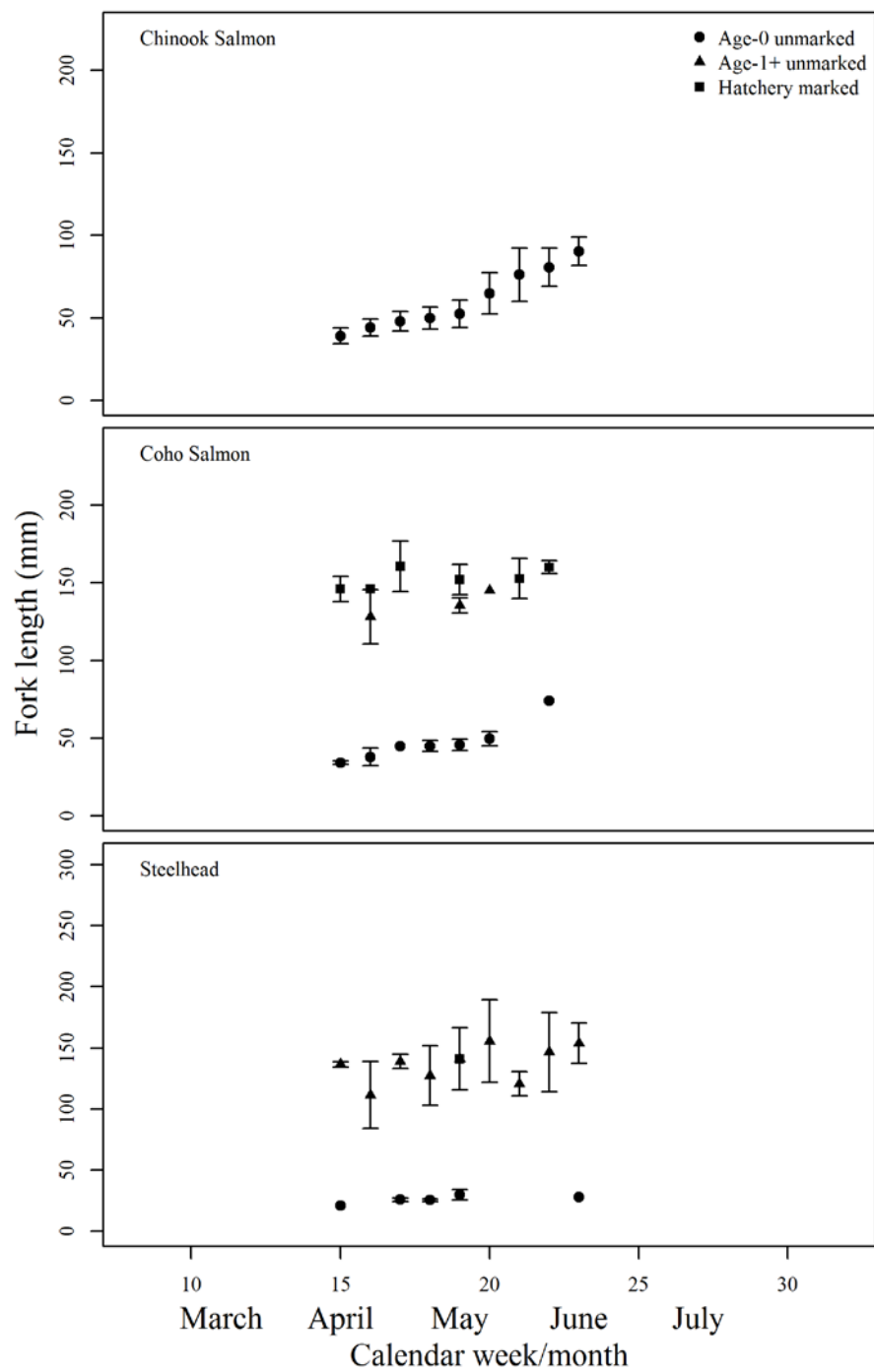


Figure 22. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River 1-5 frame net, 2000.

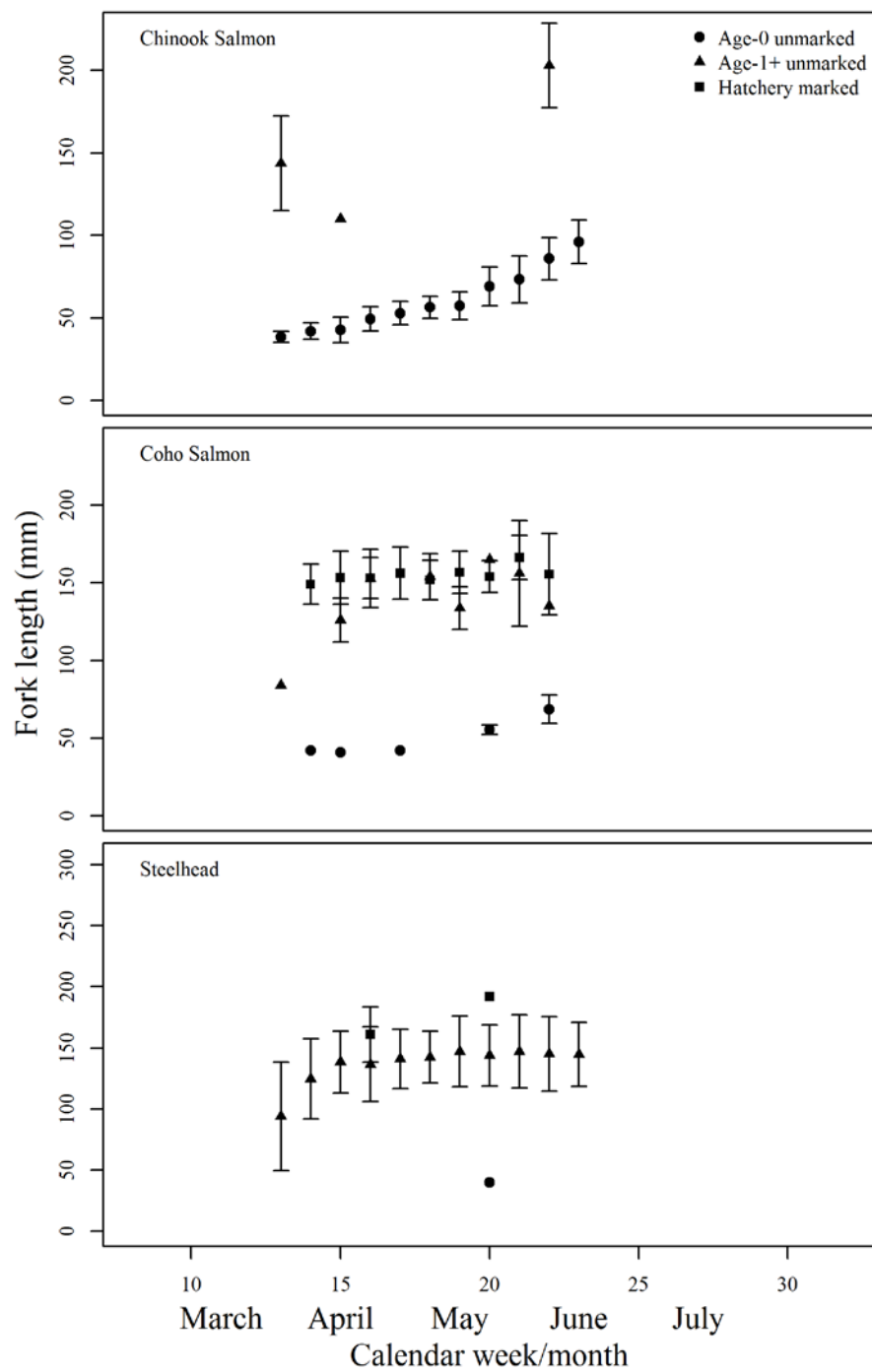


Figure 23. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River 1-5 RST, 2000.

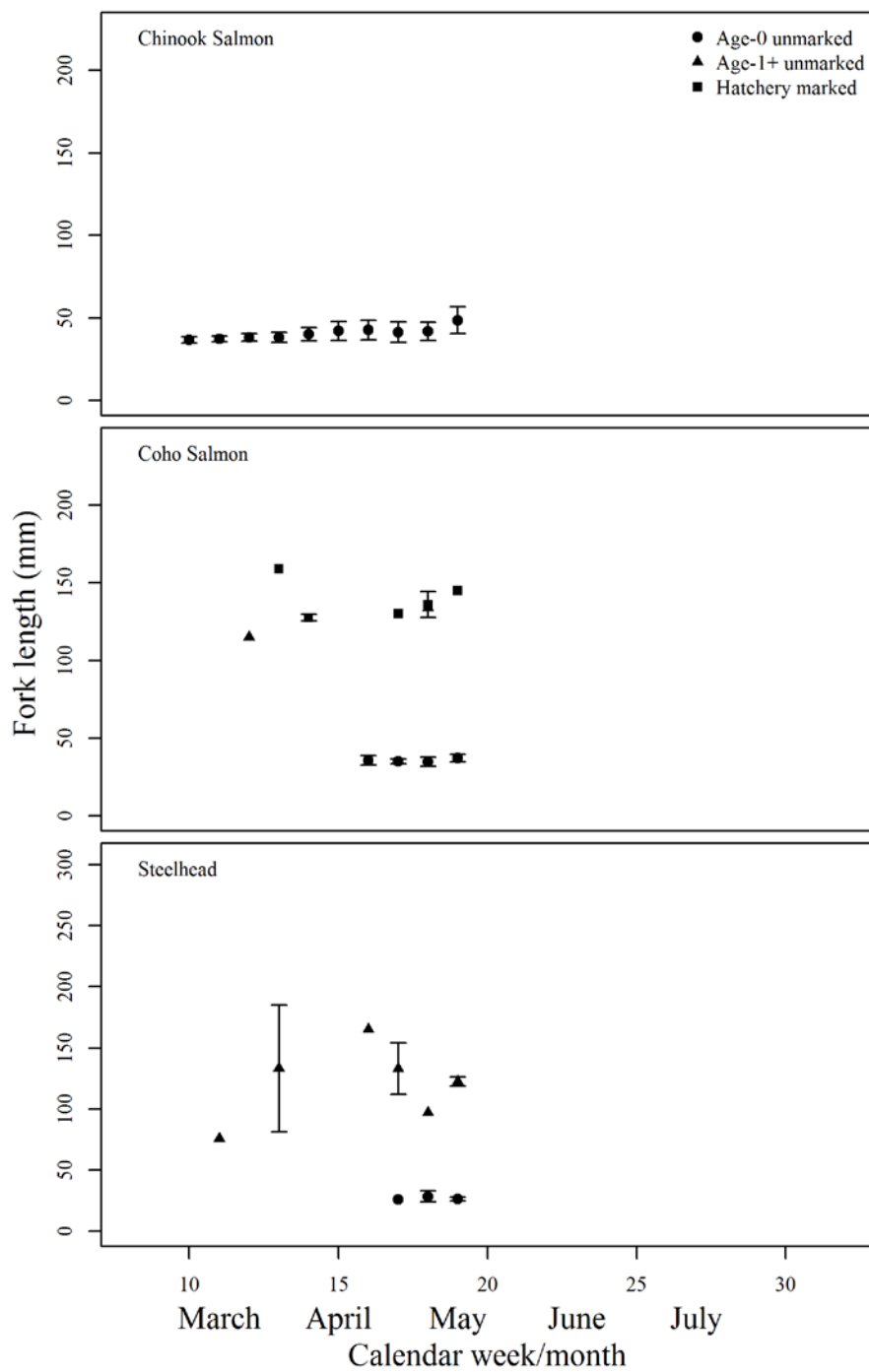


Figure 24. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River 1-5 frame net, 2001.

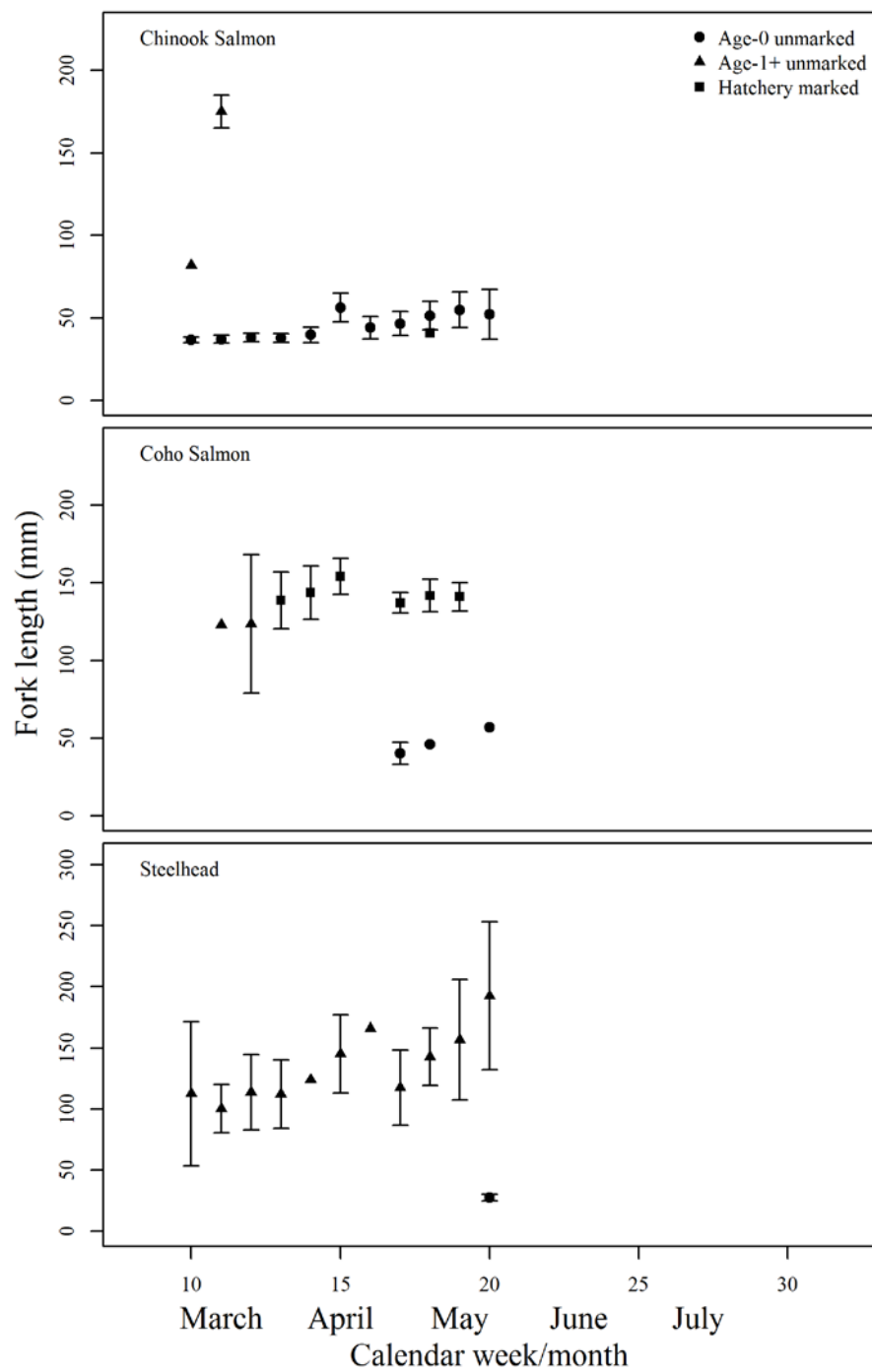


Figure 25. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River 1-5 RST, 2001.

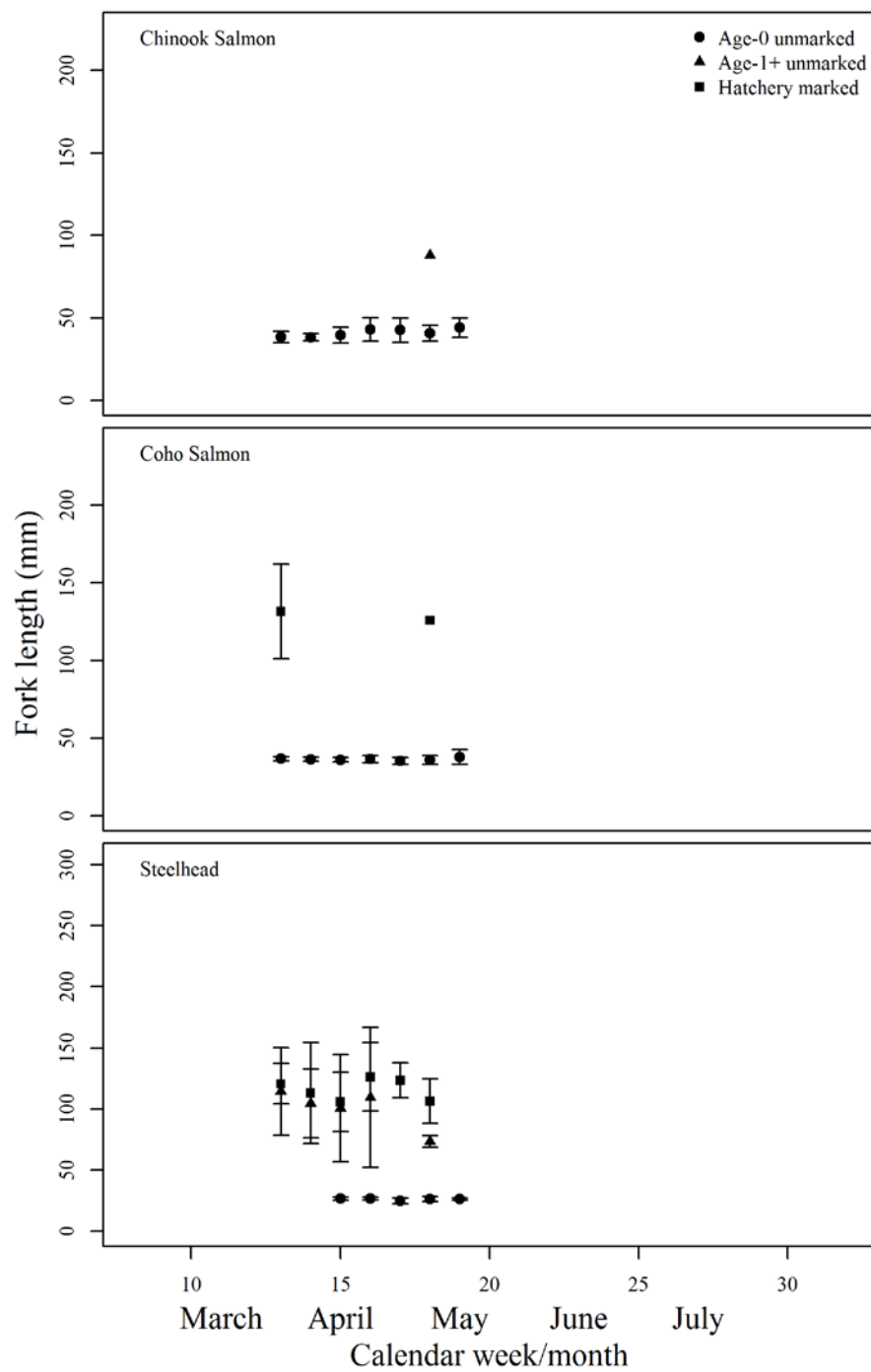


Figure 26. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River Bogus frame net, 2002.

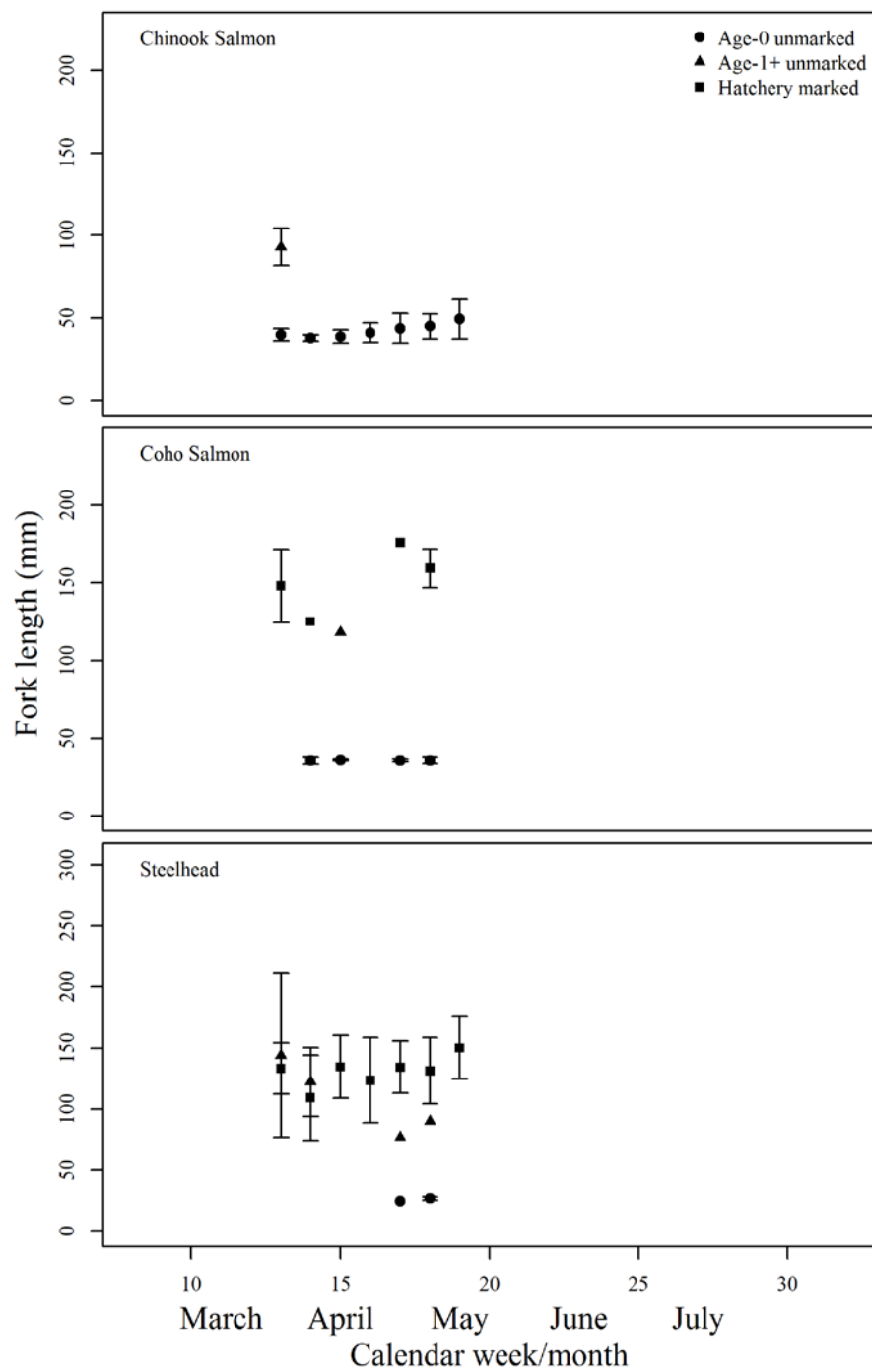


Figure 27. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River Bogus RST, 2002.

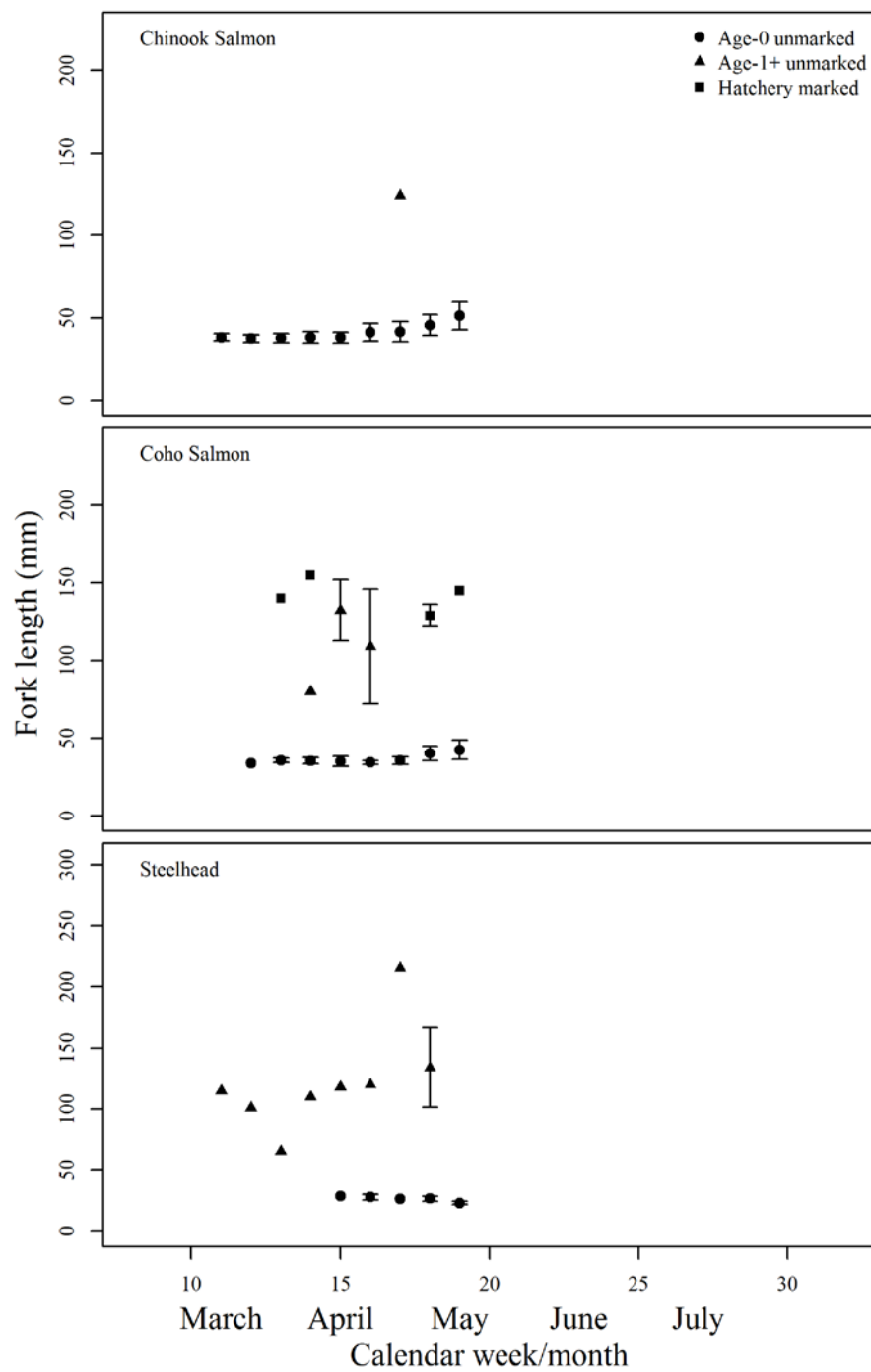


Figure 28. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River I-5 frame net, 2002.

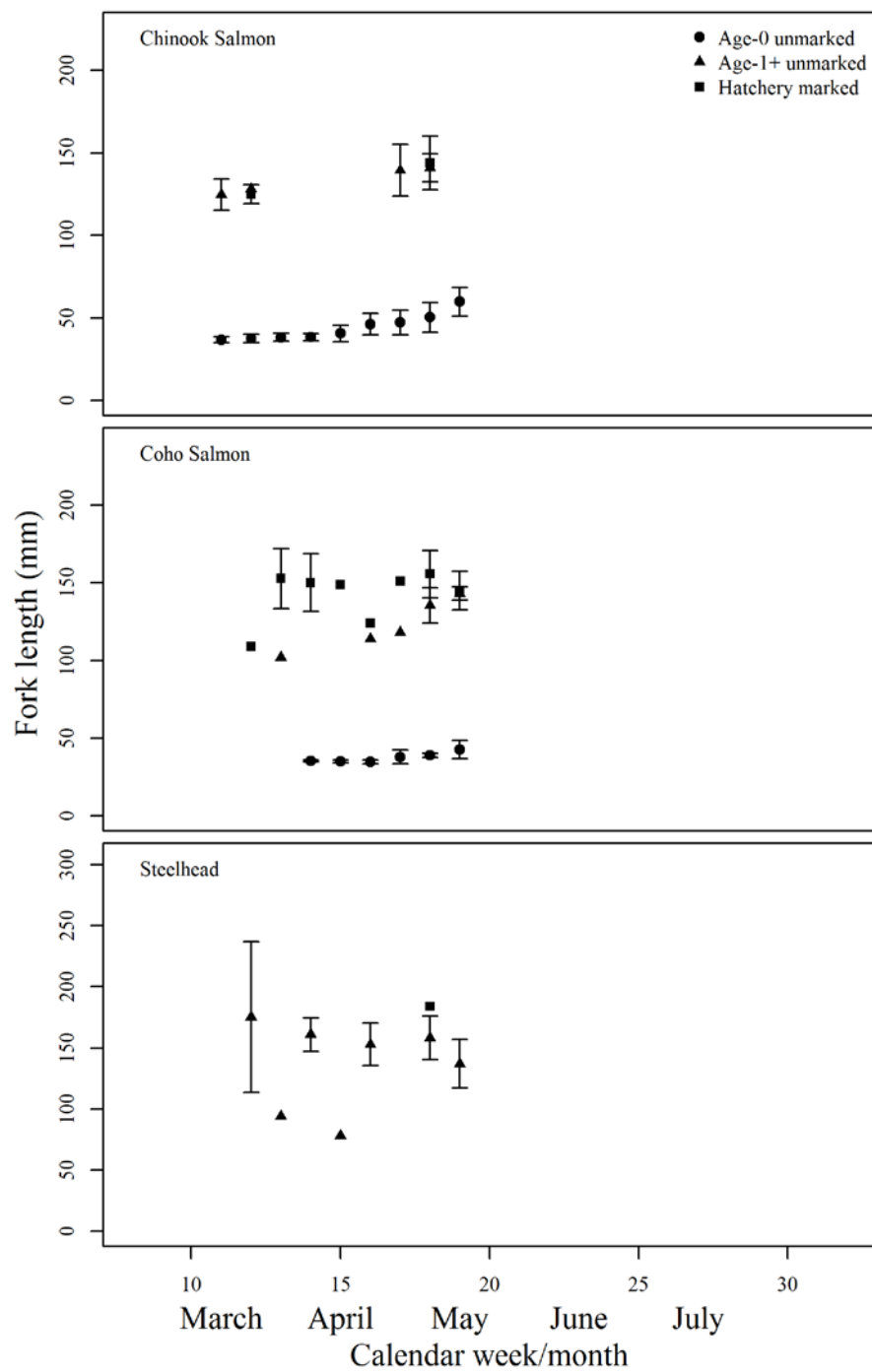


Figure 29. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River I-5 RST, 2002.

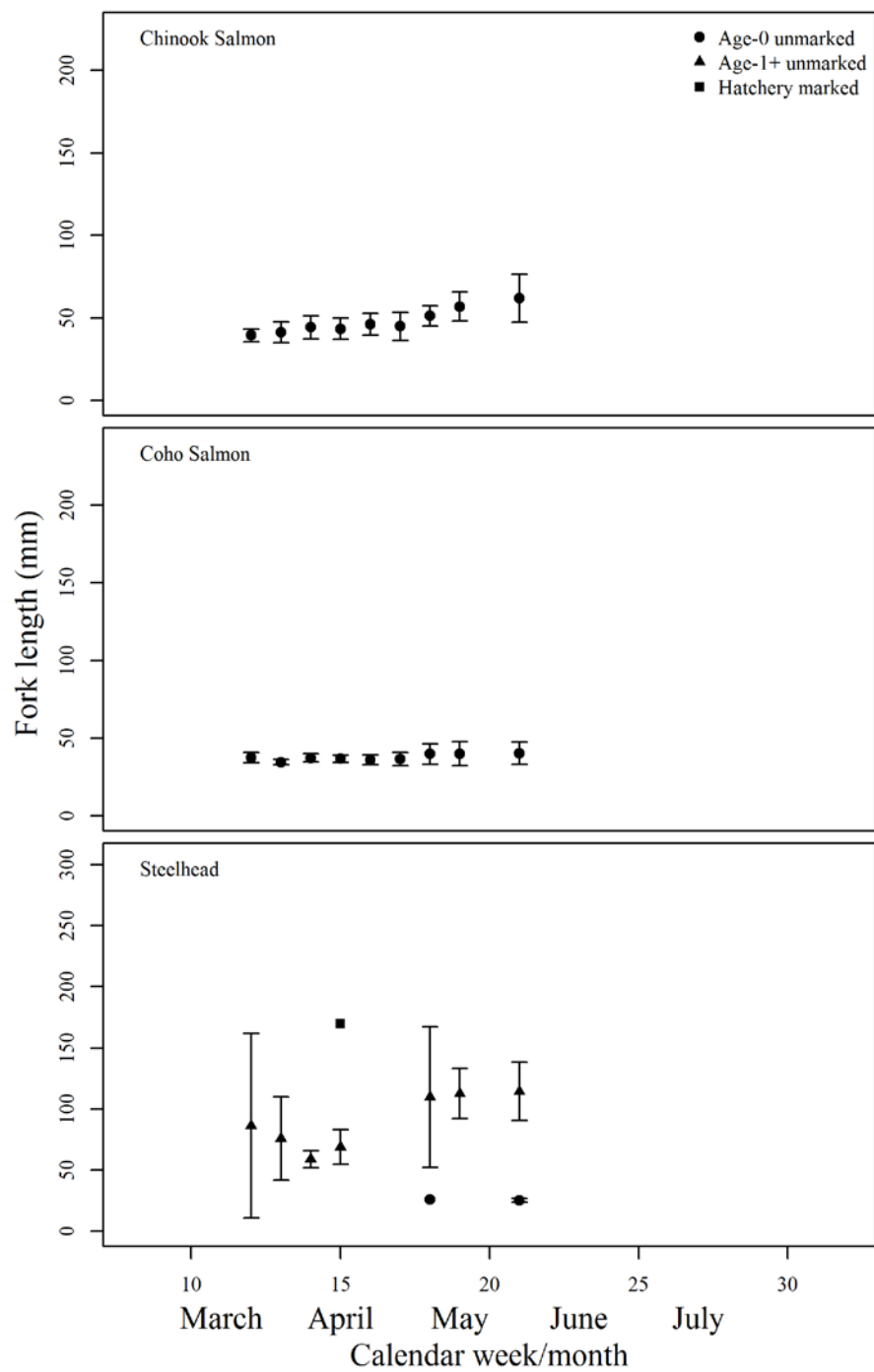


Figure 30. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River Kinsman frame net, 2002.

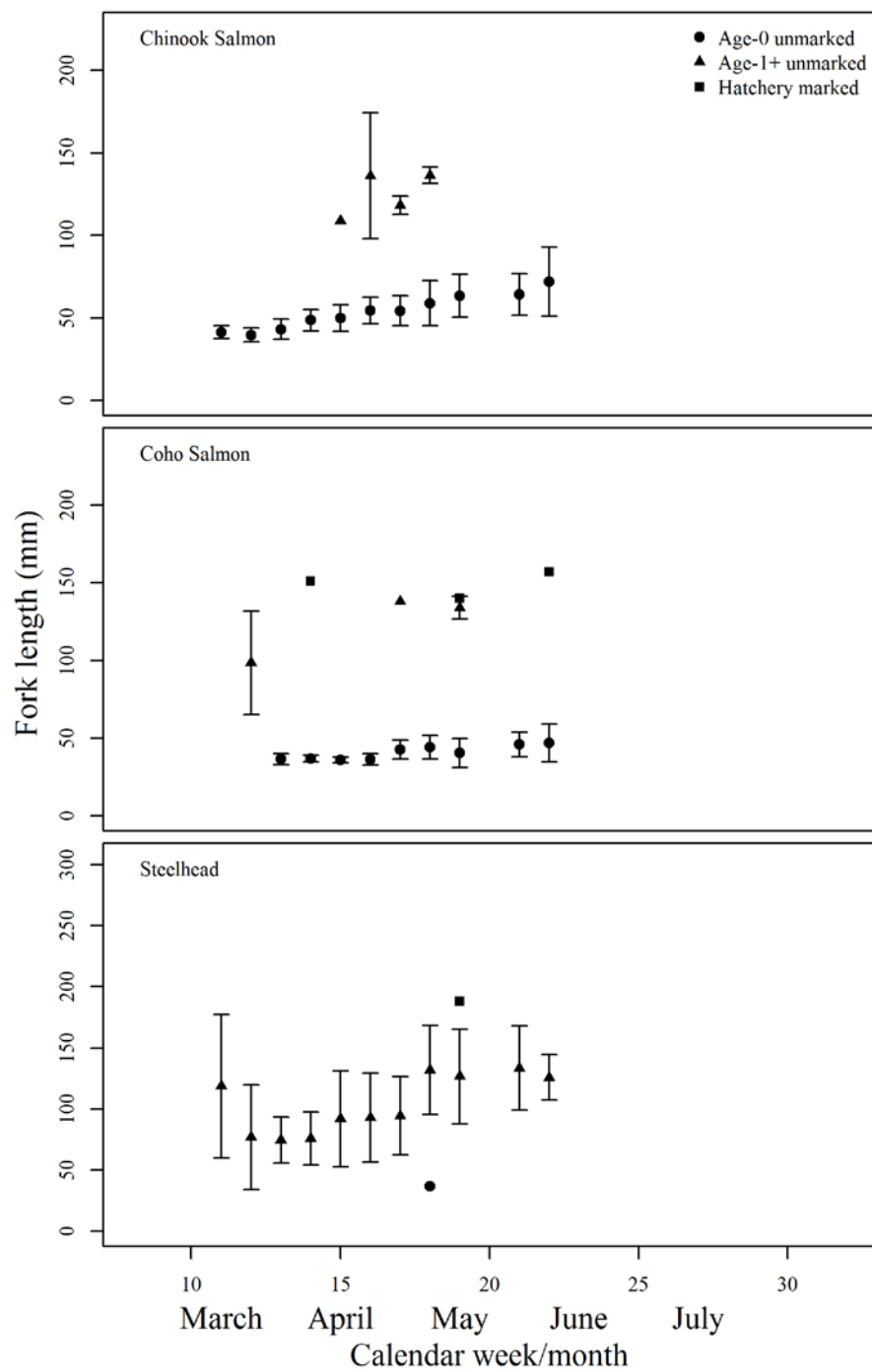


Figure 31. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River Kinsman RST, 2002.

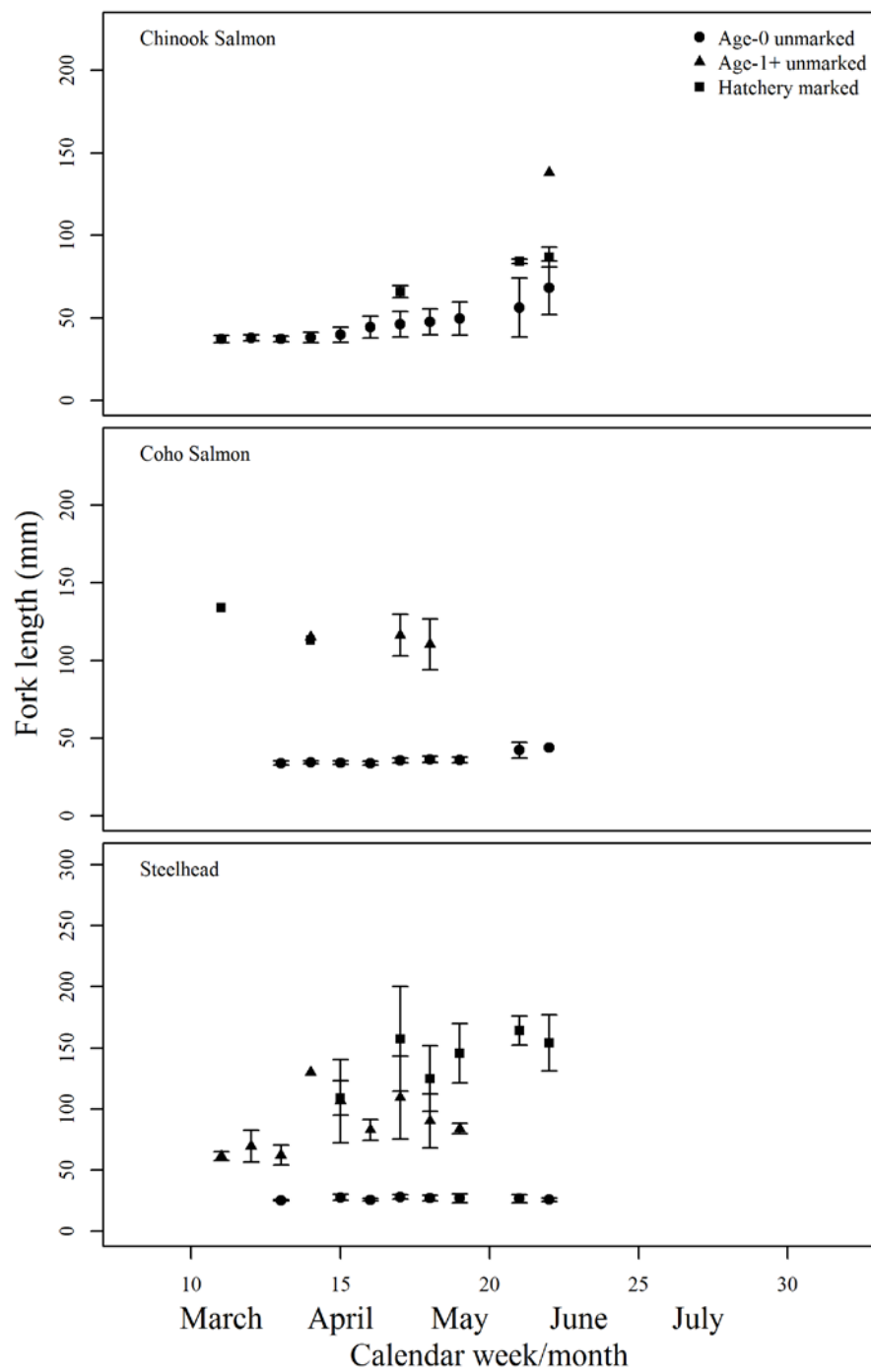


Figure 32. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River Bogus frame net, 2003.

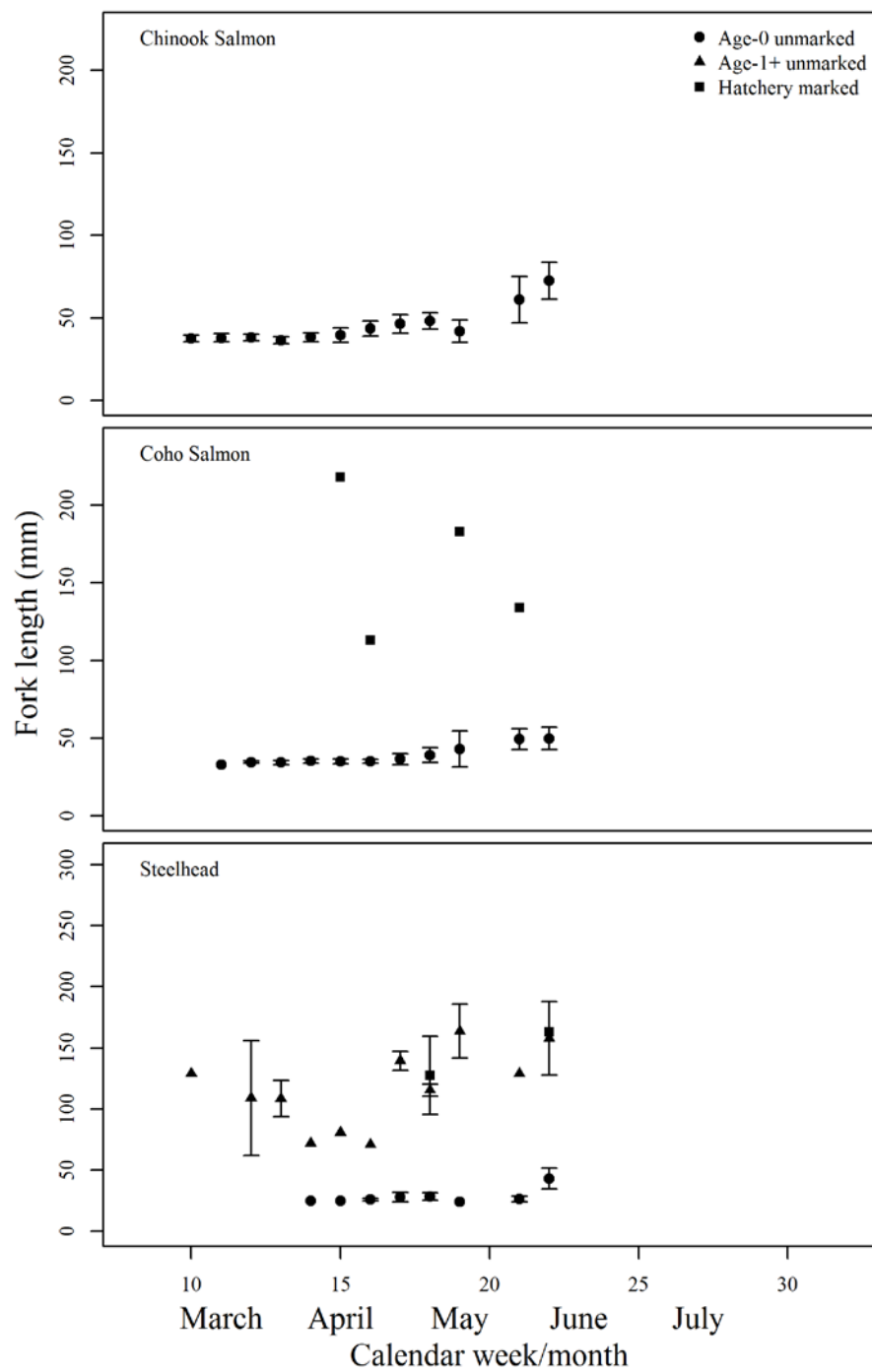


Figure 33. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River I-5 frame net, 2003.

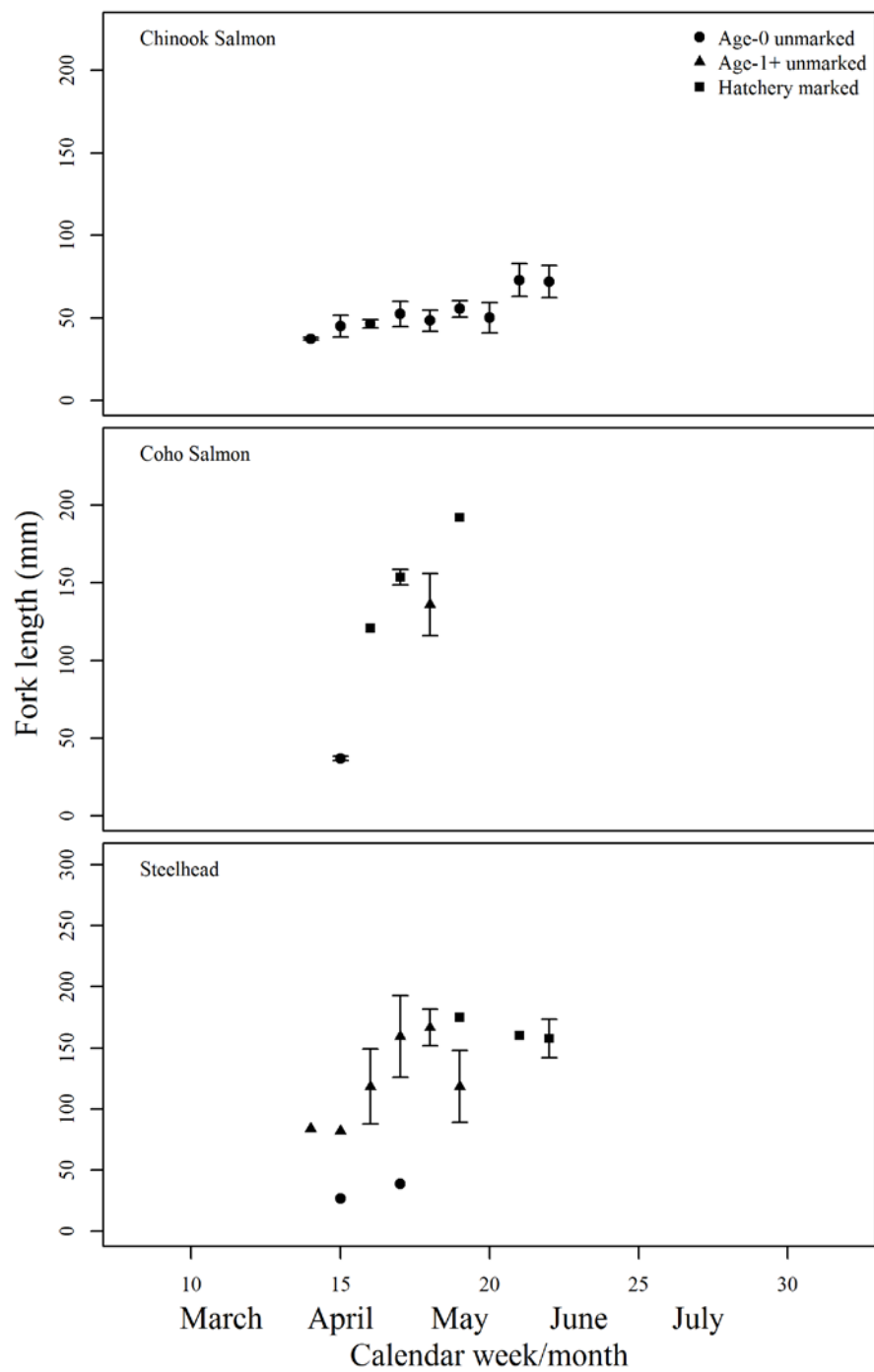


Figure 34. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River I-5 RST, 2003.

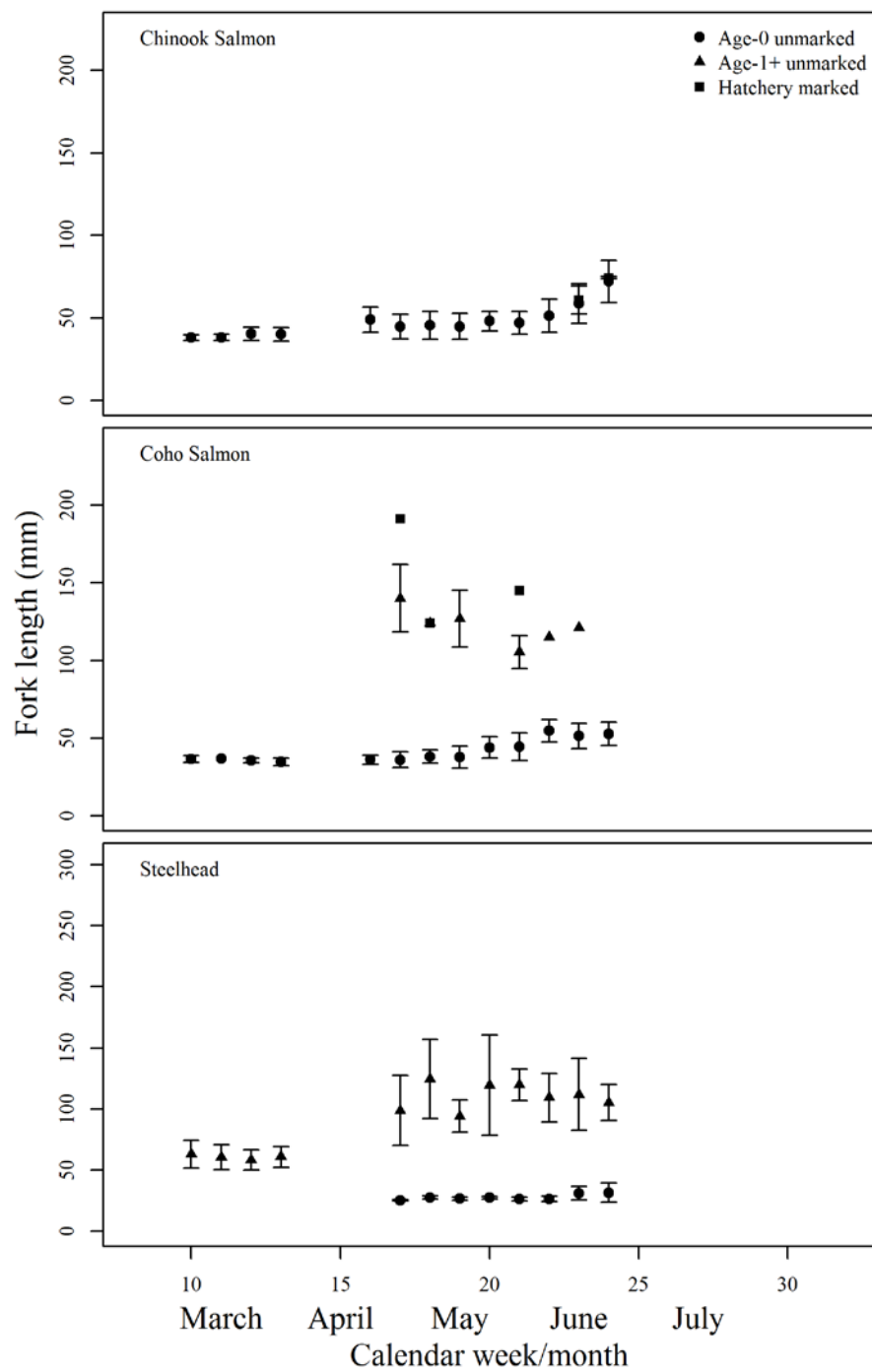


Figure 35. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River Kinsman frame net, 2003.

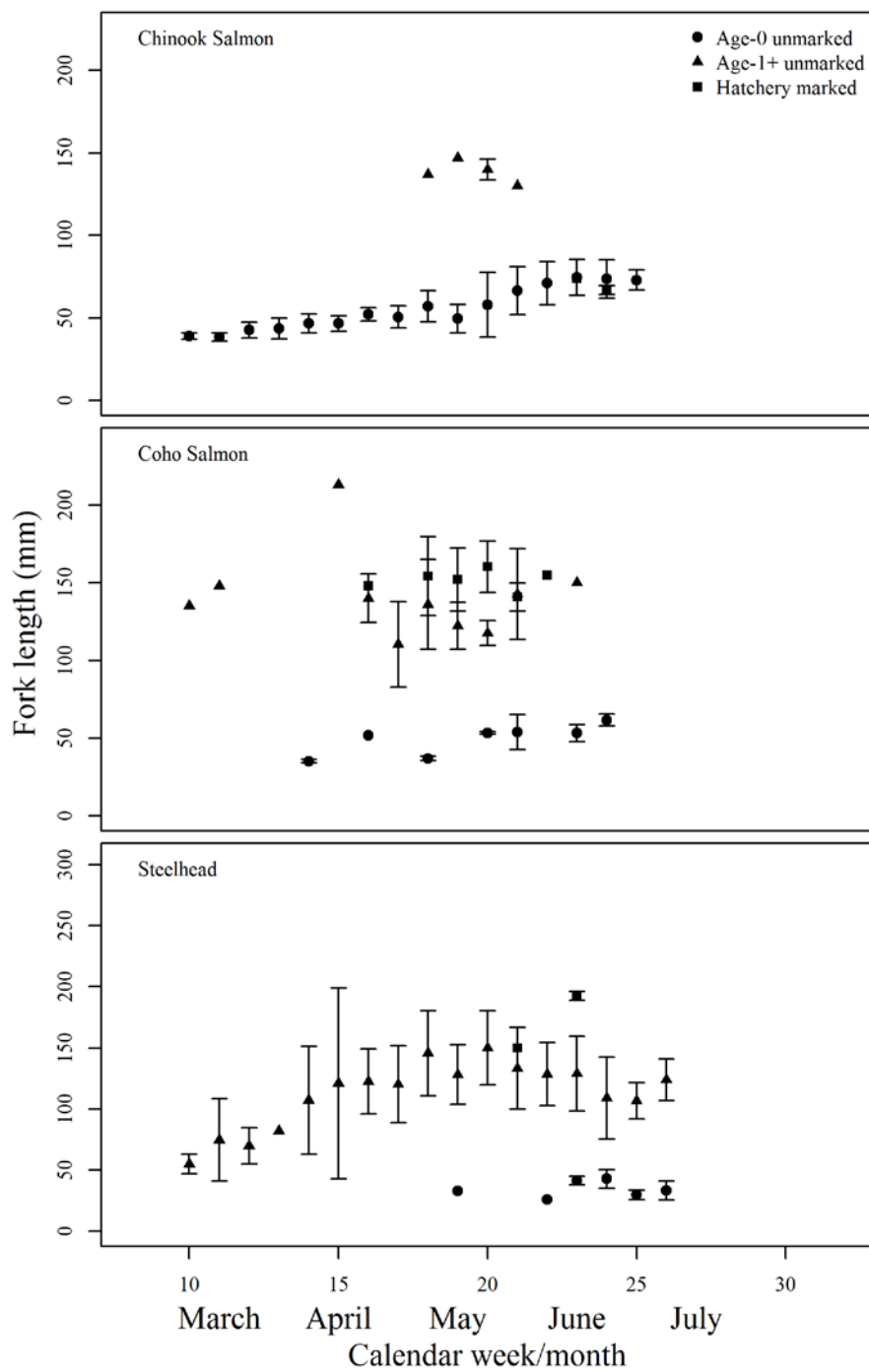


Figure 36. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River Kinsman RST, 2003.

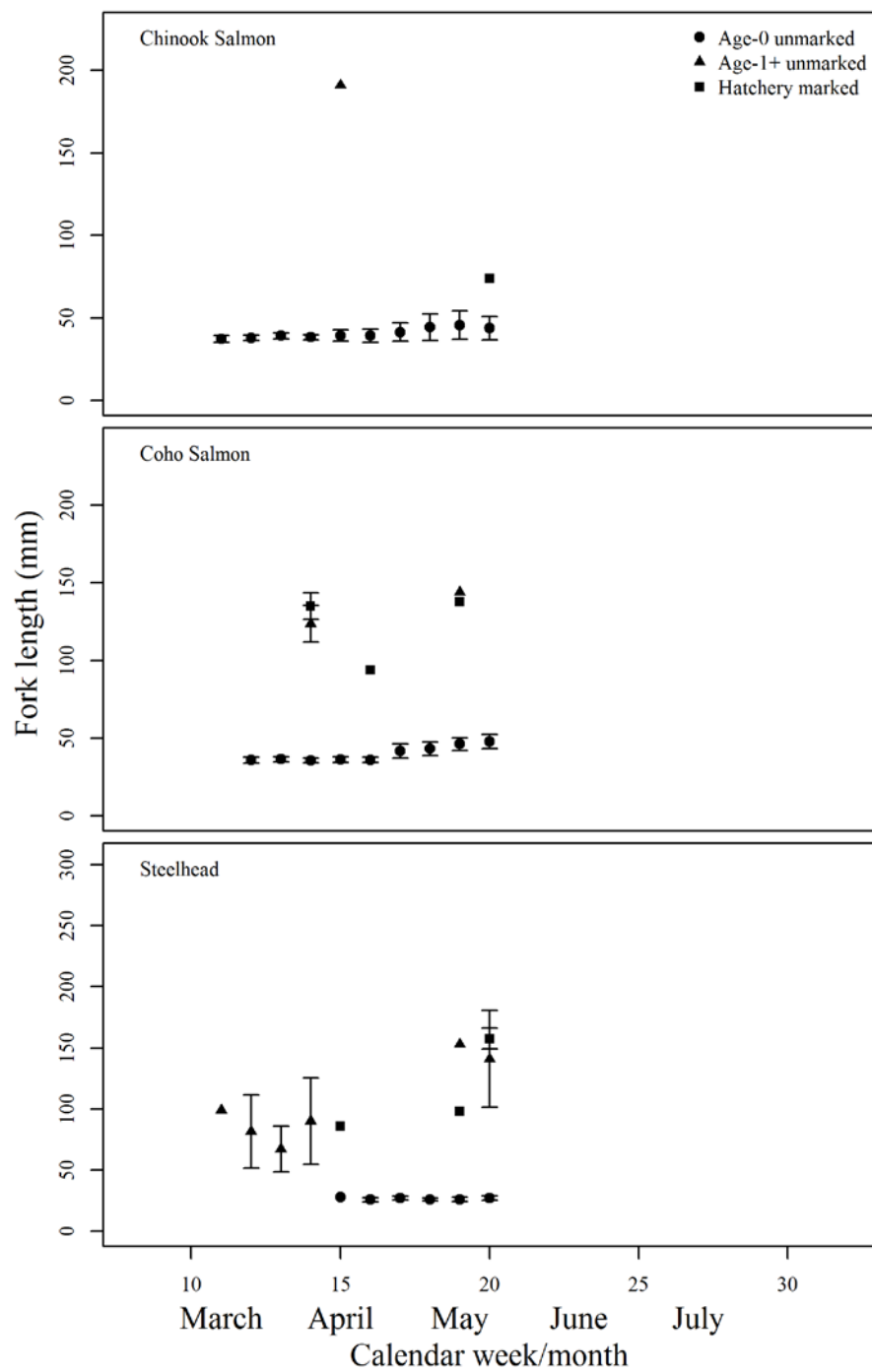


Figure 37. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River Bogus frame net, 2004.

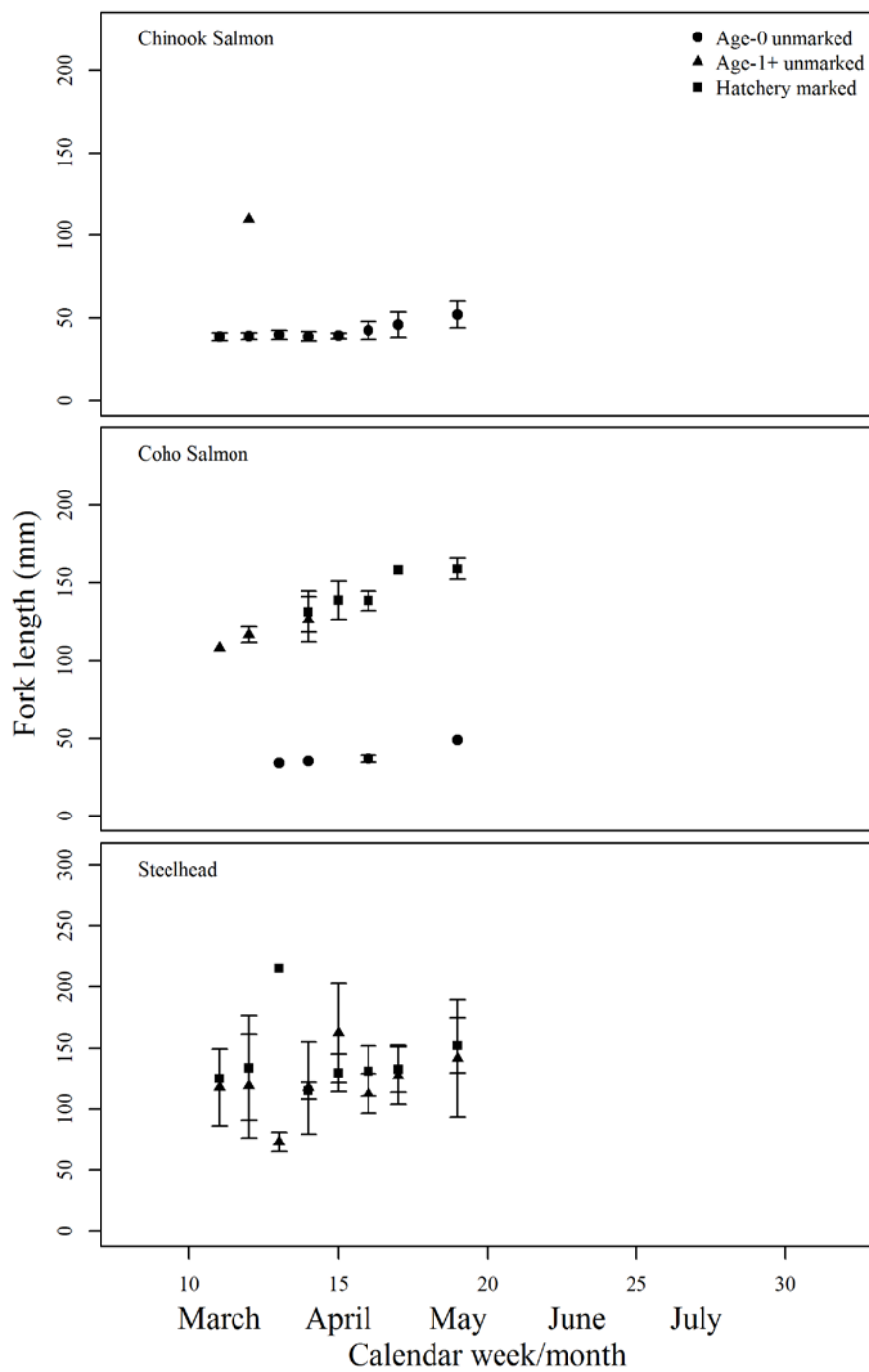


Figure 38. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River Bogus RST, 2004.

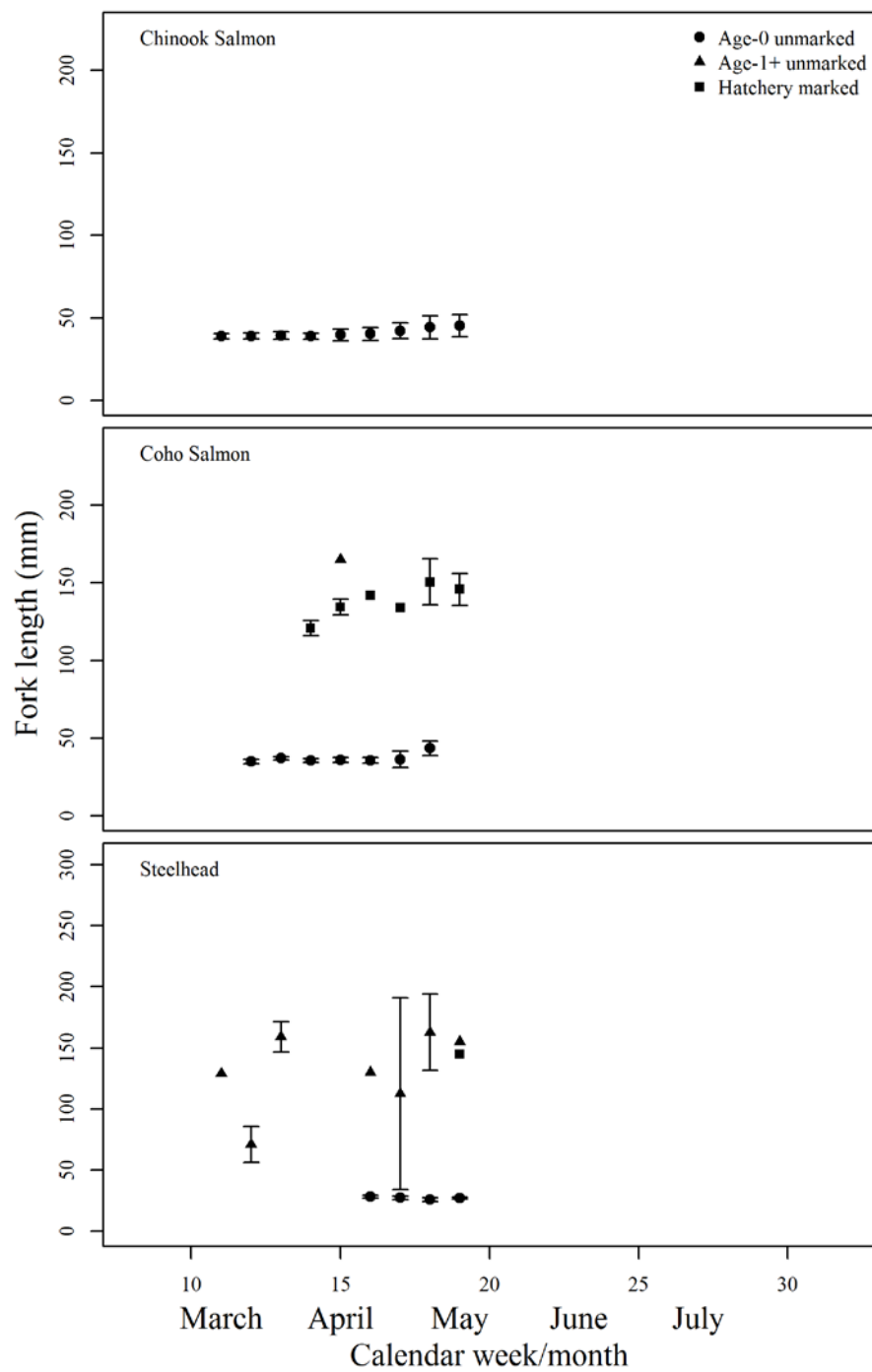


Figure 39. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River I-5 frame net, 2004.

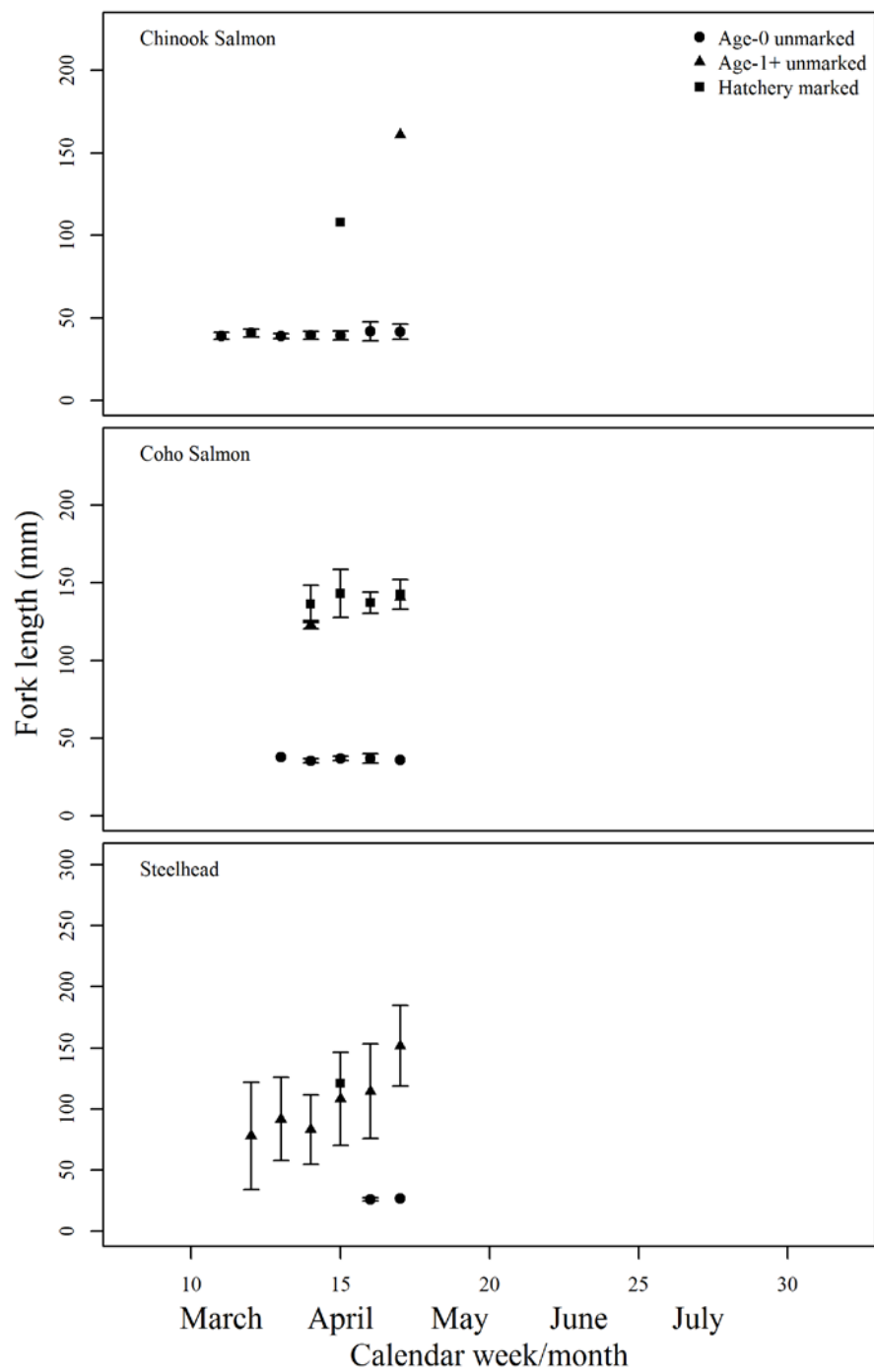


Figure 40. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River I-5 RST, 2004.

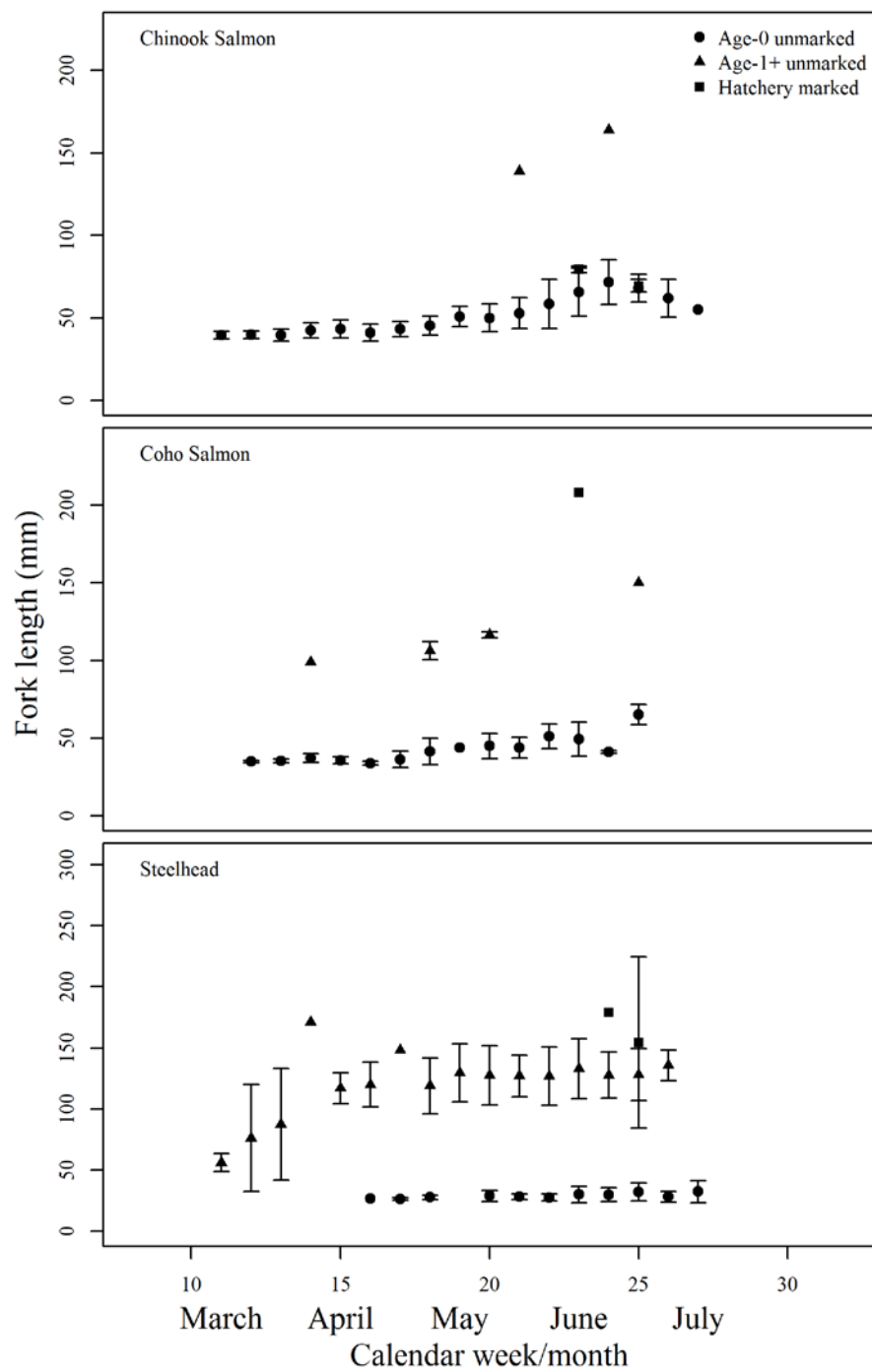


Figure 41. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River Kinsman frame net, 2004.

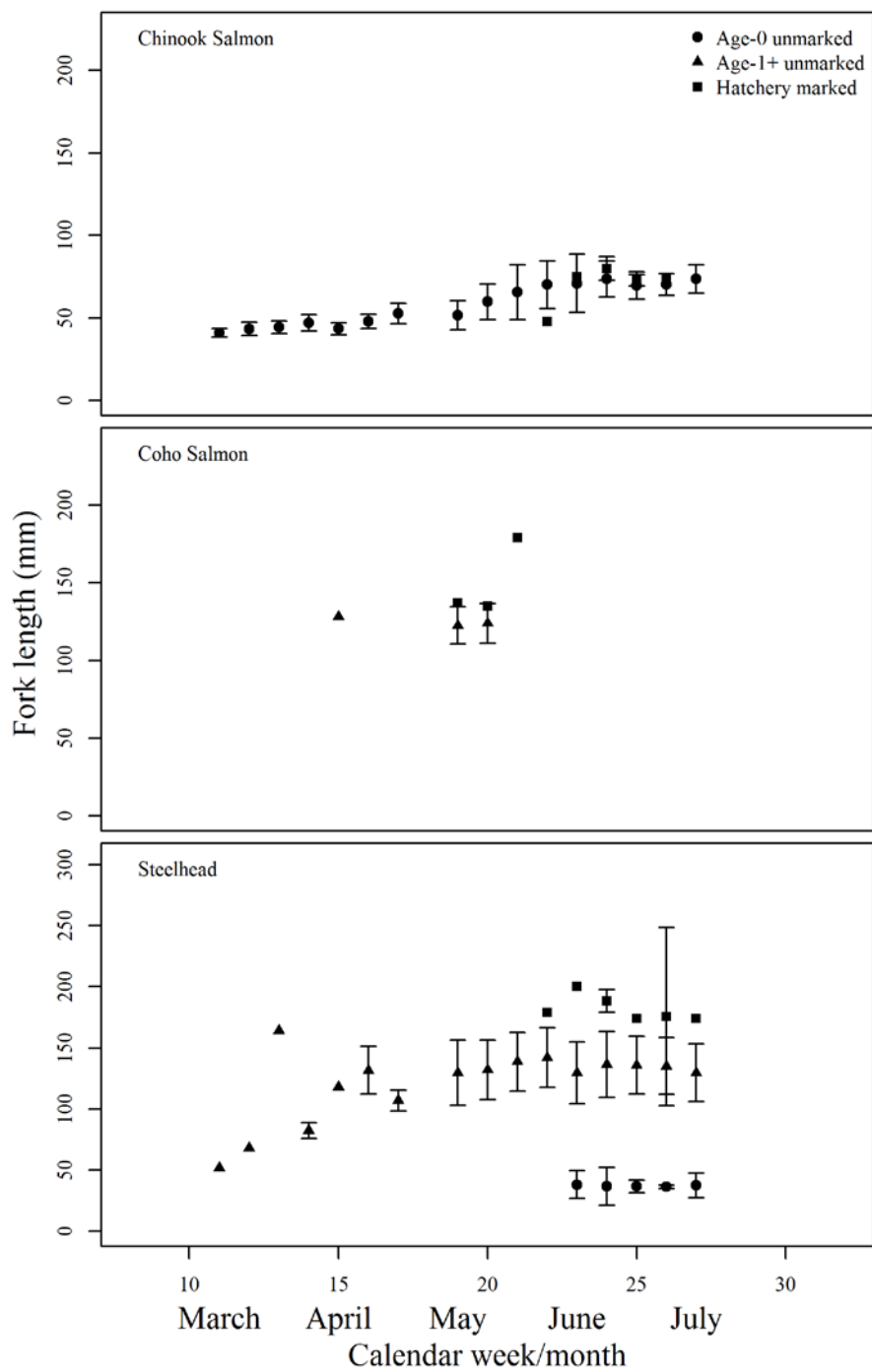


Figure 42. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River Kinsman RST, 2004.

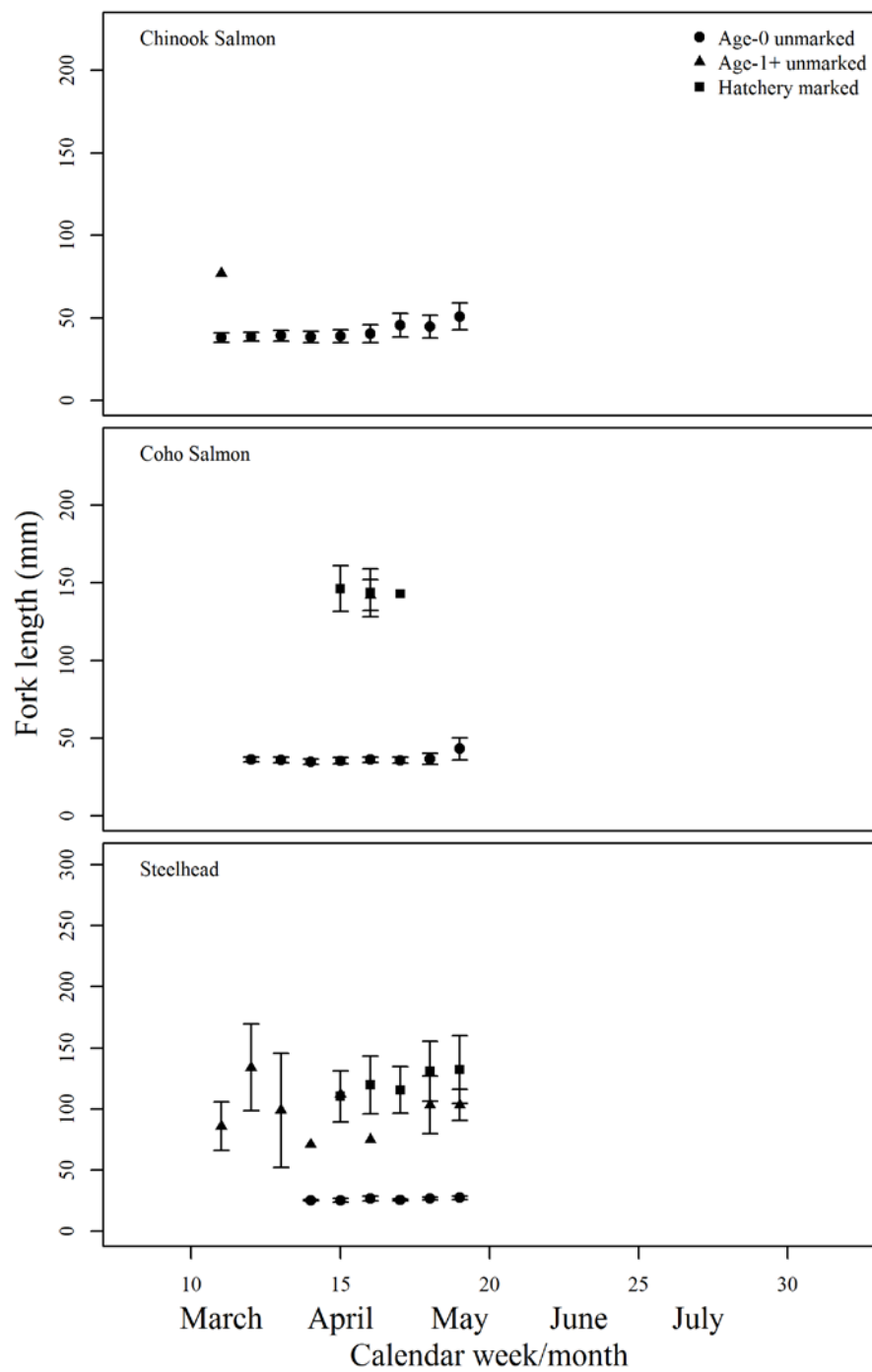


Figure 43. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River Bogus frame net, 2005.

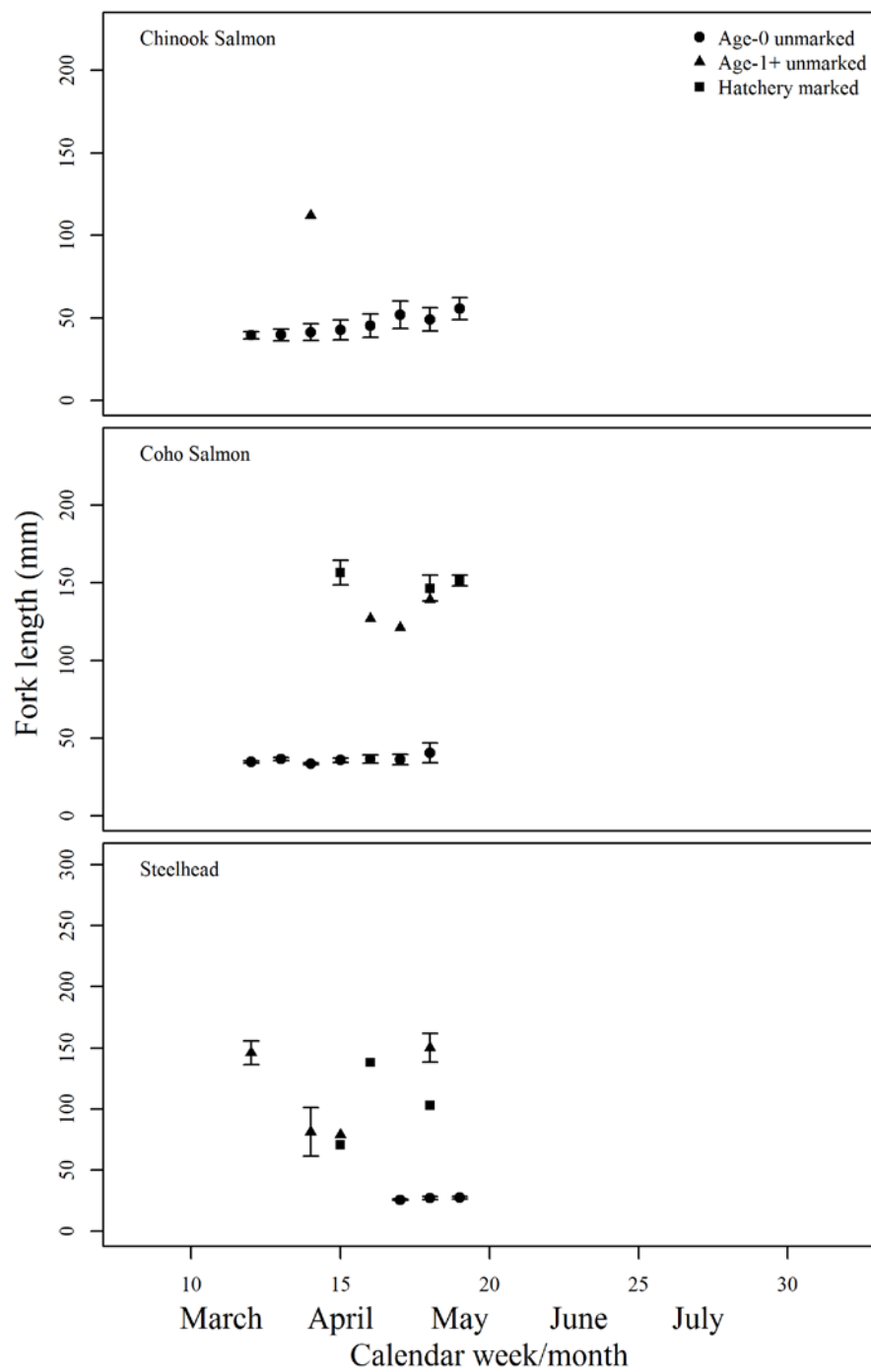


Figure 44. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River I-5 frame net, 2005.

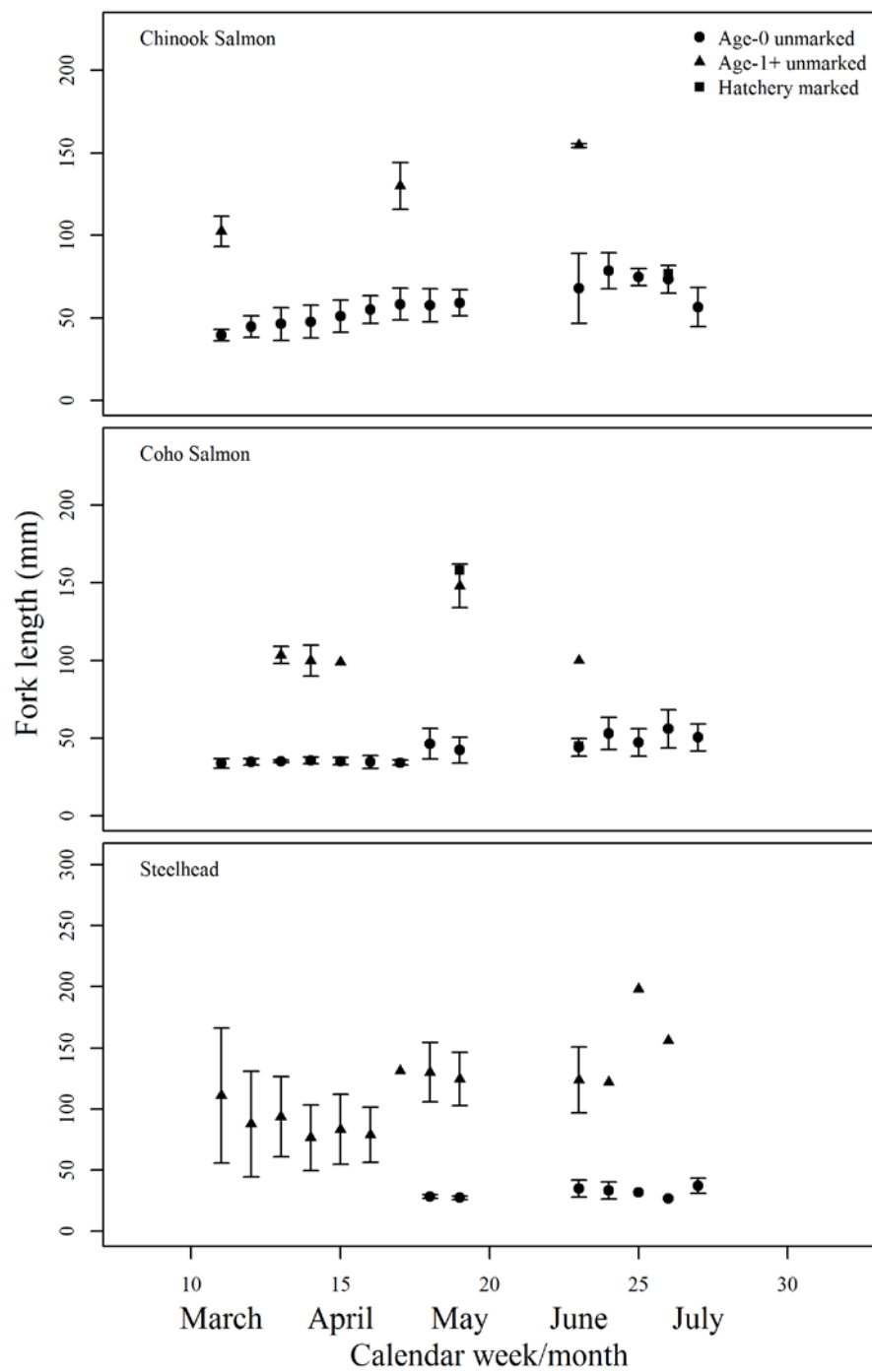


Figure 45. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River Kinsman frame net, 2005.

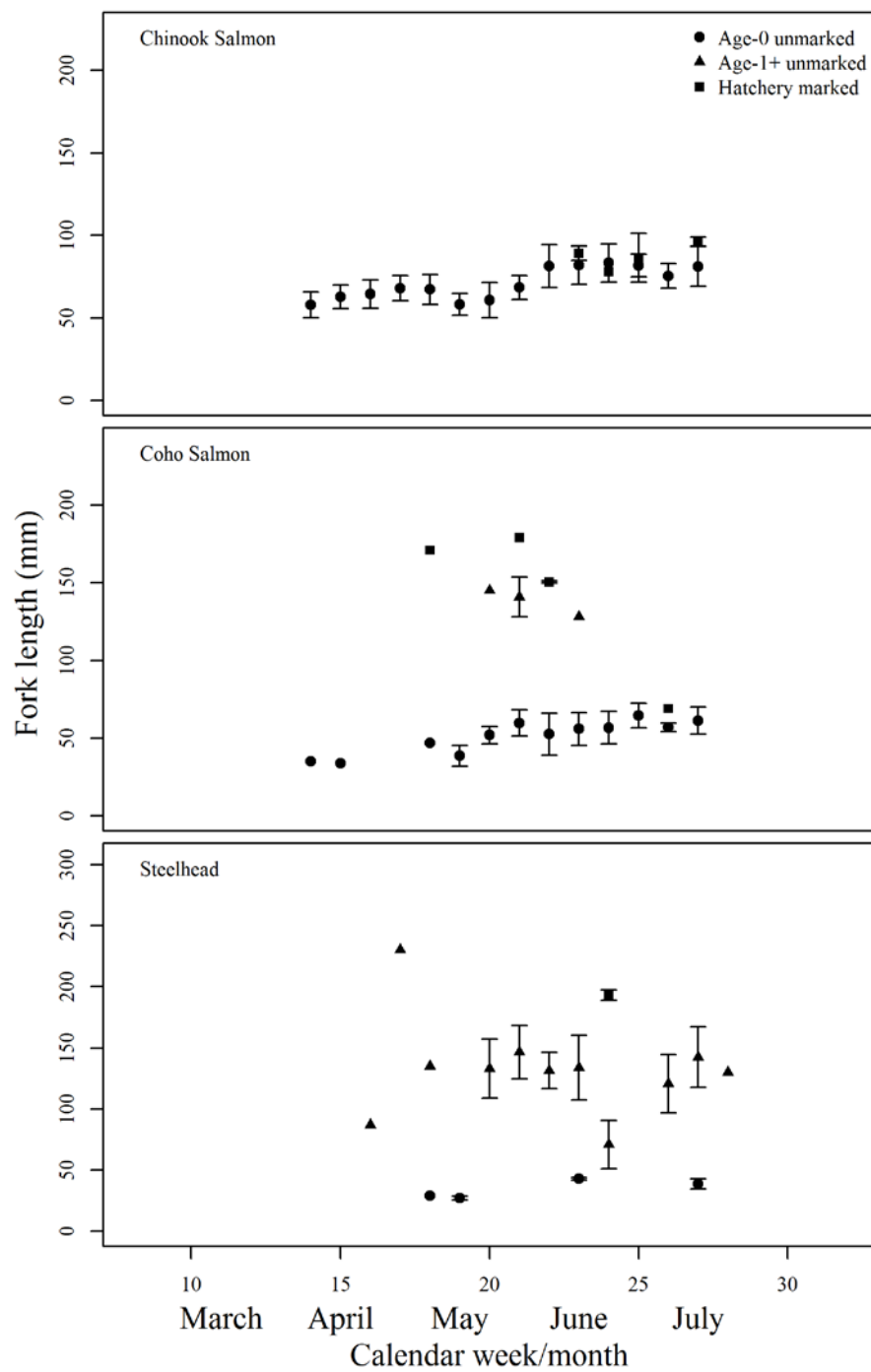


Figure 46. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River Kinsman RST, 2005.

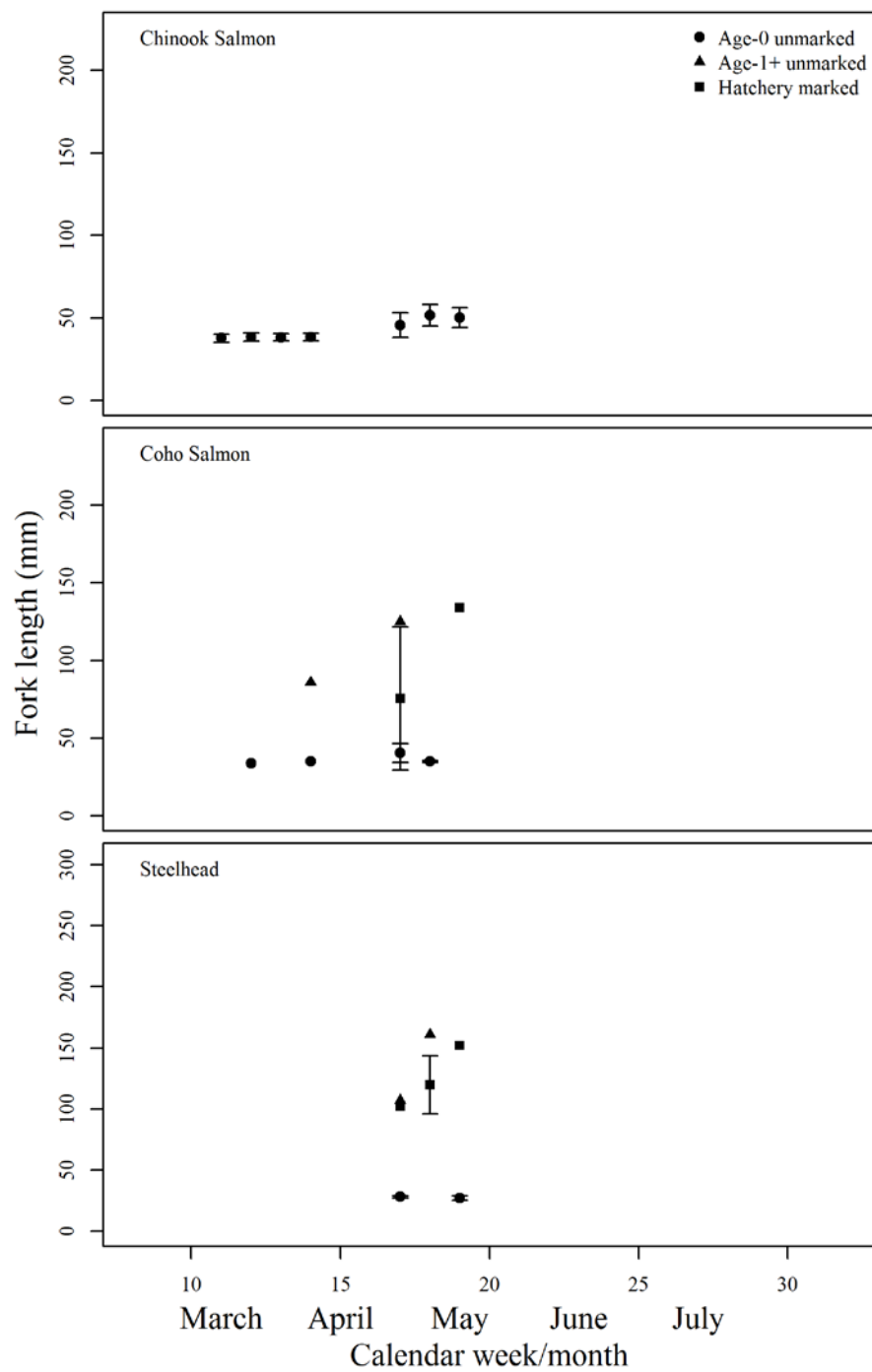


Figure 47. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River Bogus frame net, 2006.

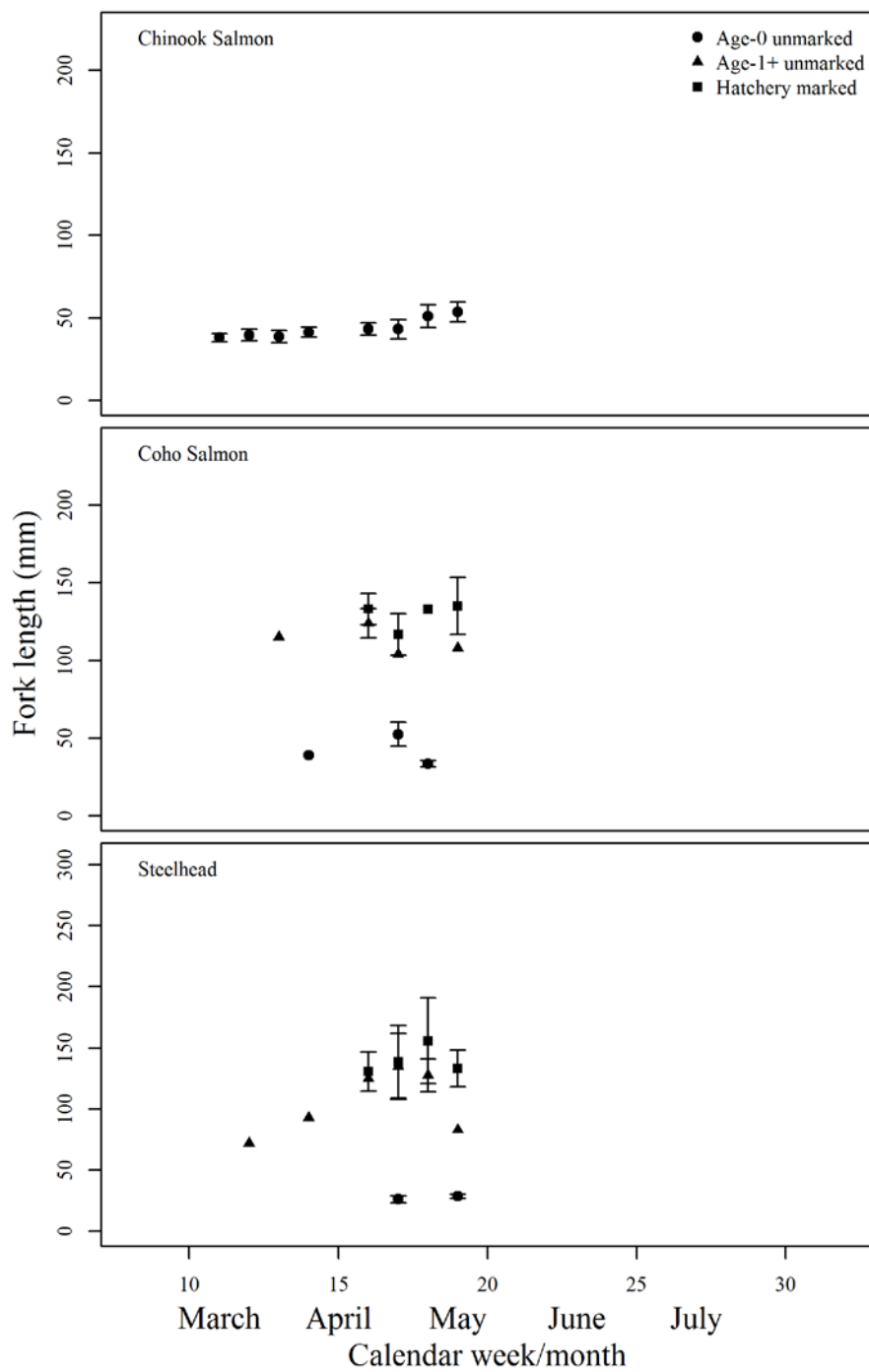


Figure 48. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River Bogus RST, 2006.

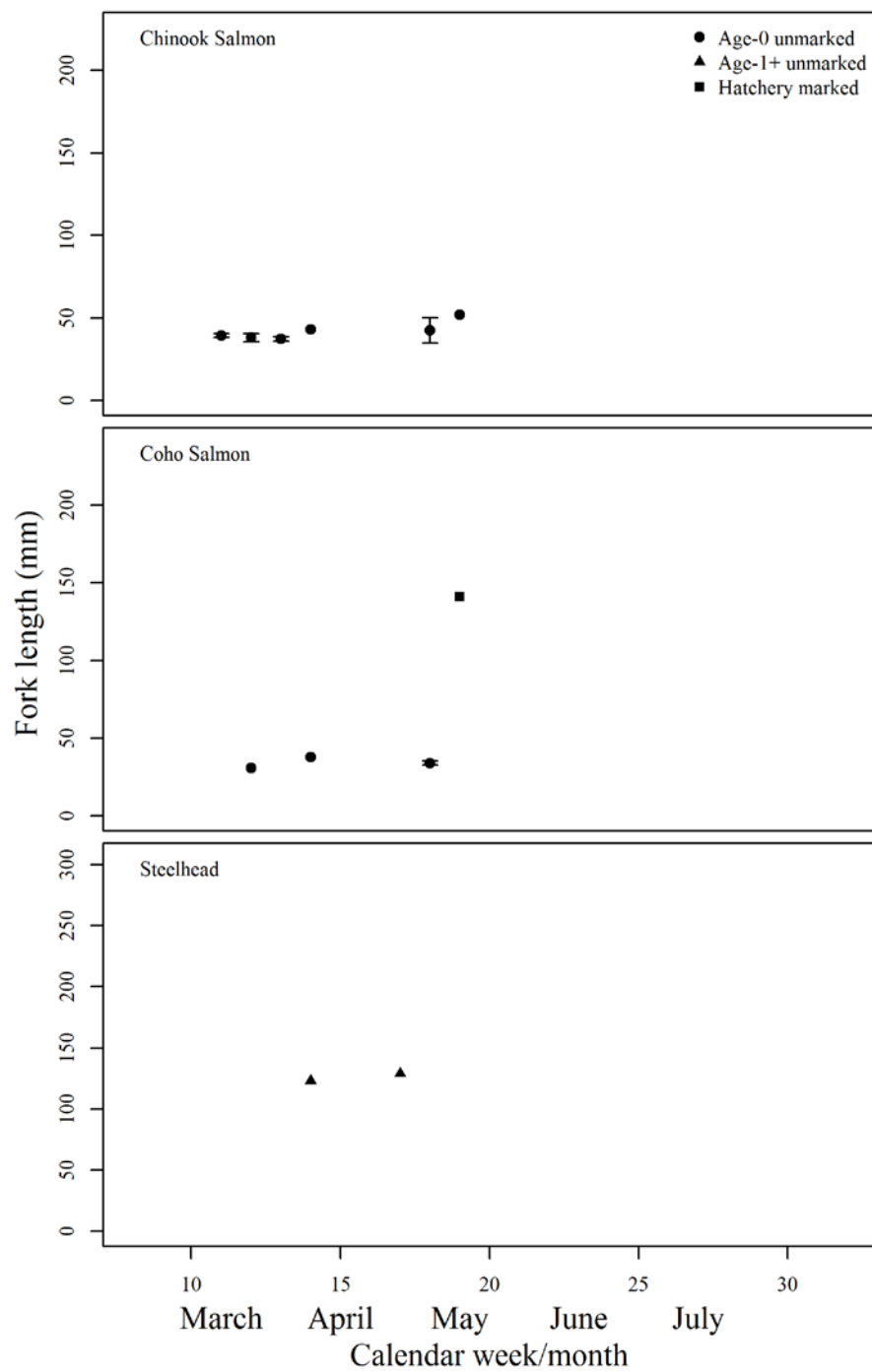


Figure 49. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River I-5 frame net, 2006.

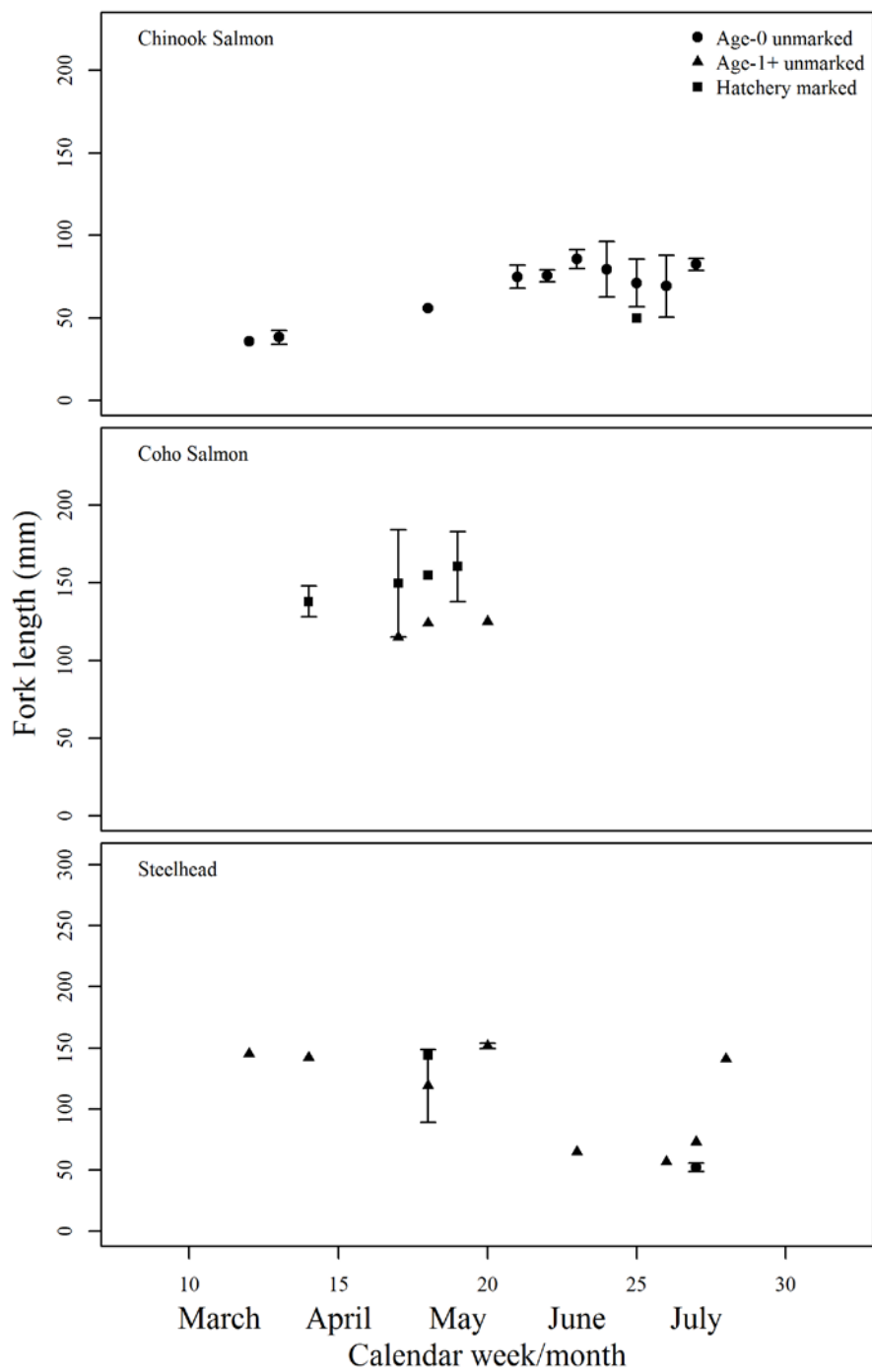


Figure 50. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River I-5 RST, 2006.

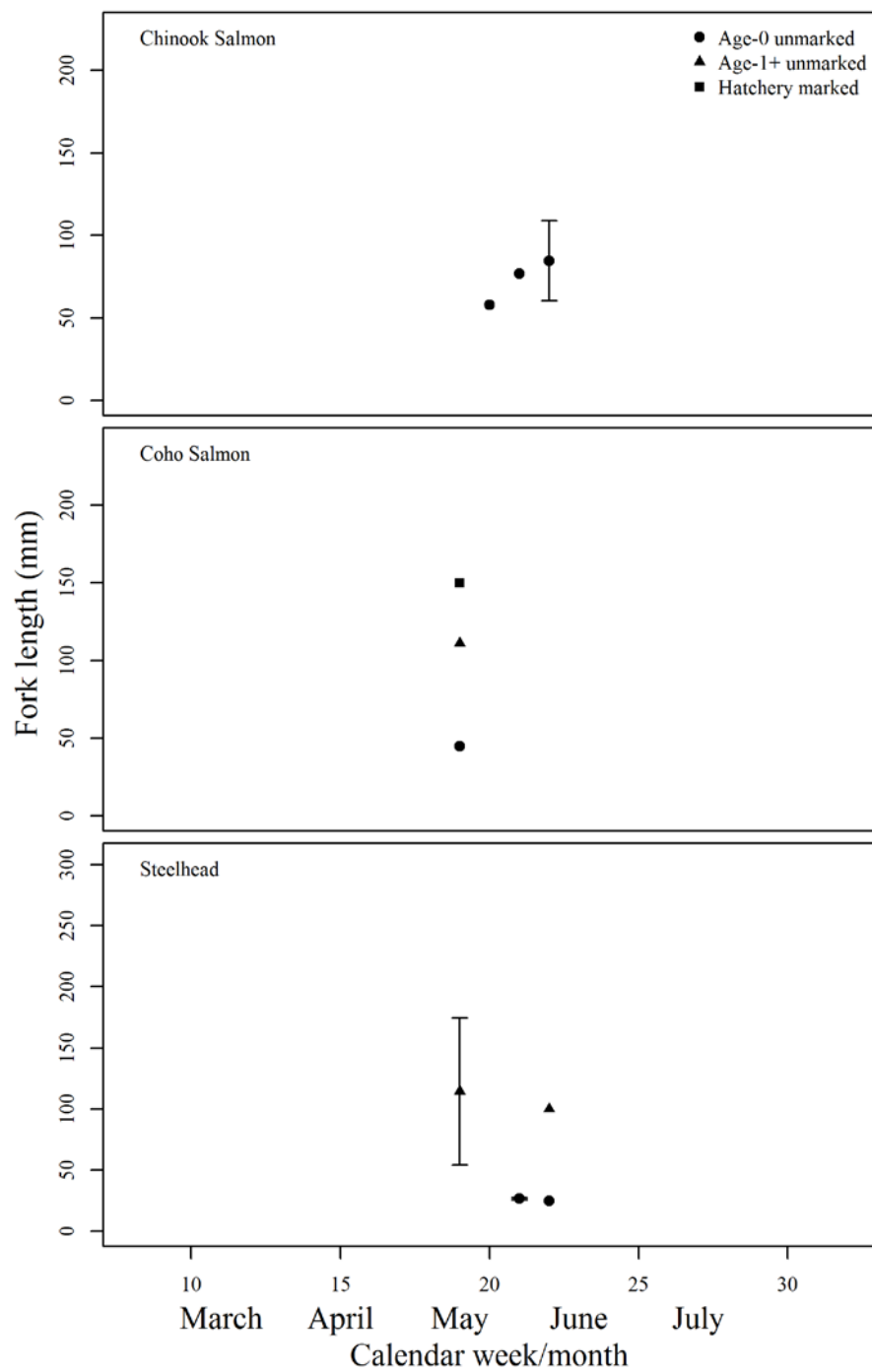


Figure 51. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River Kinsman frame net, 2006.

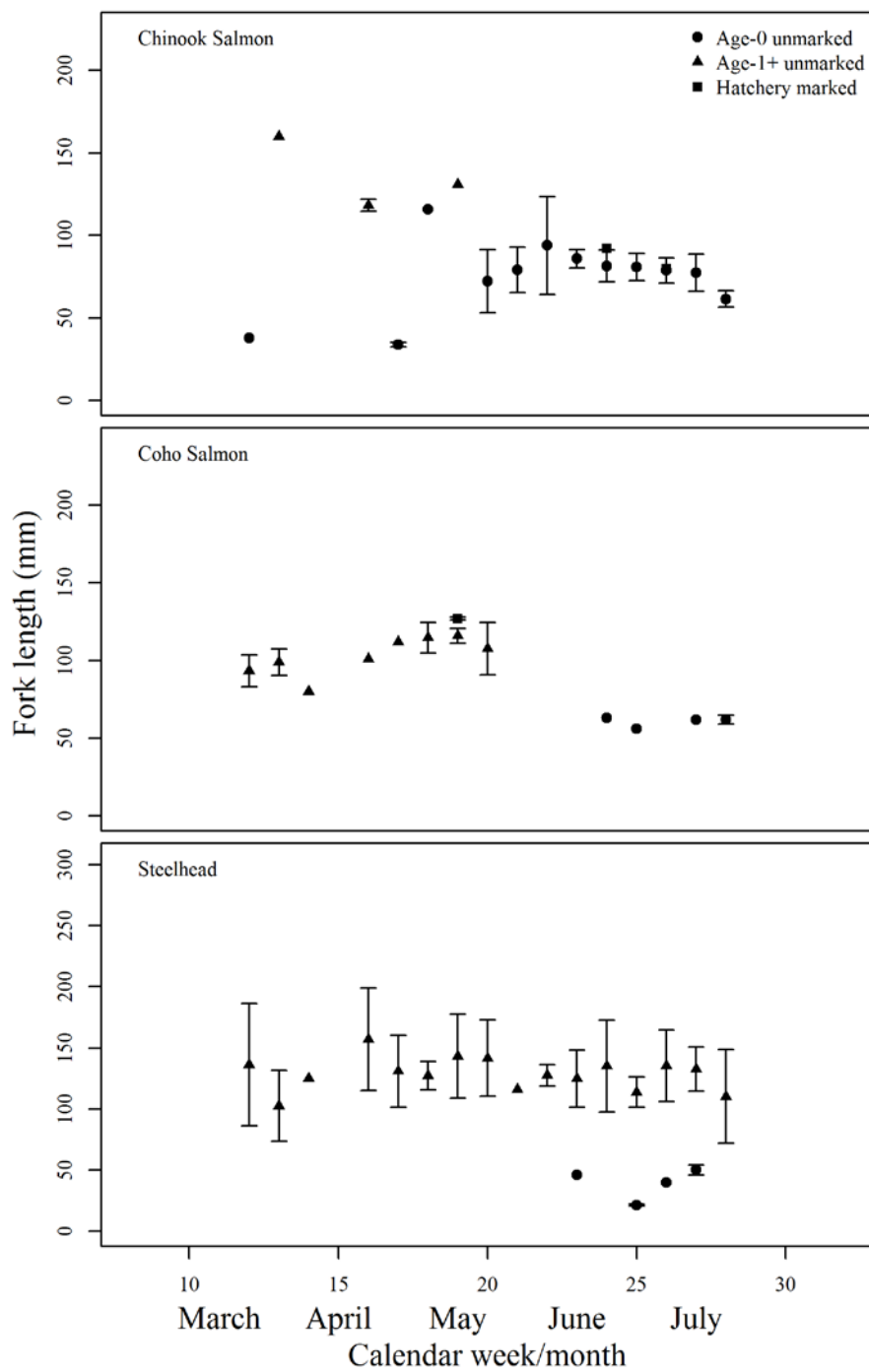


Figure 52. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River Kinsman RST, 2006.

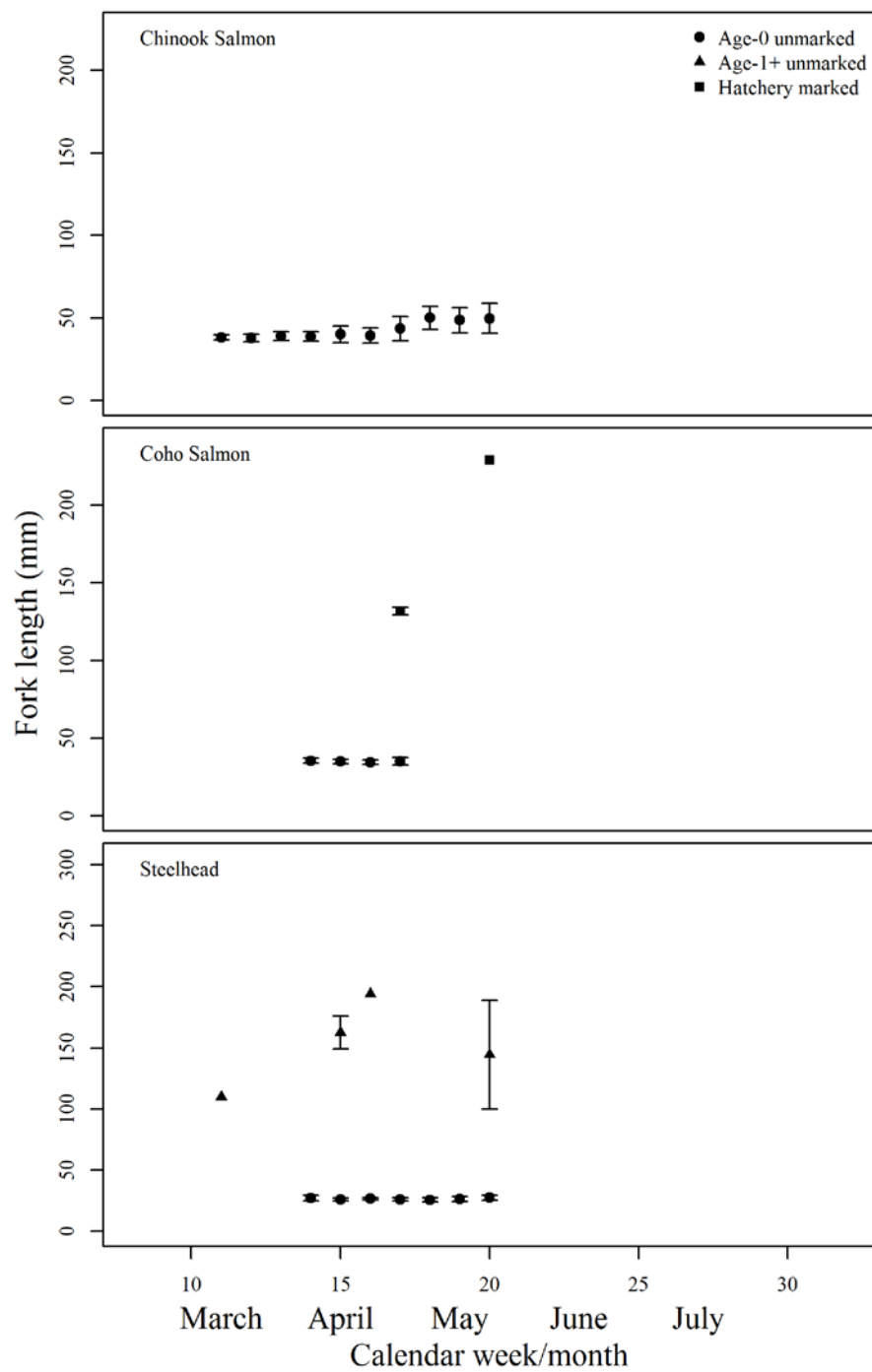


Figure 53. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River Bogus frame net, 2007.

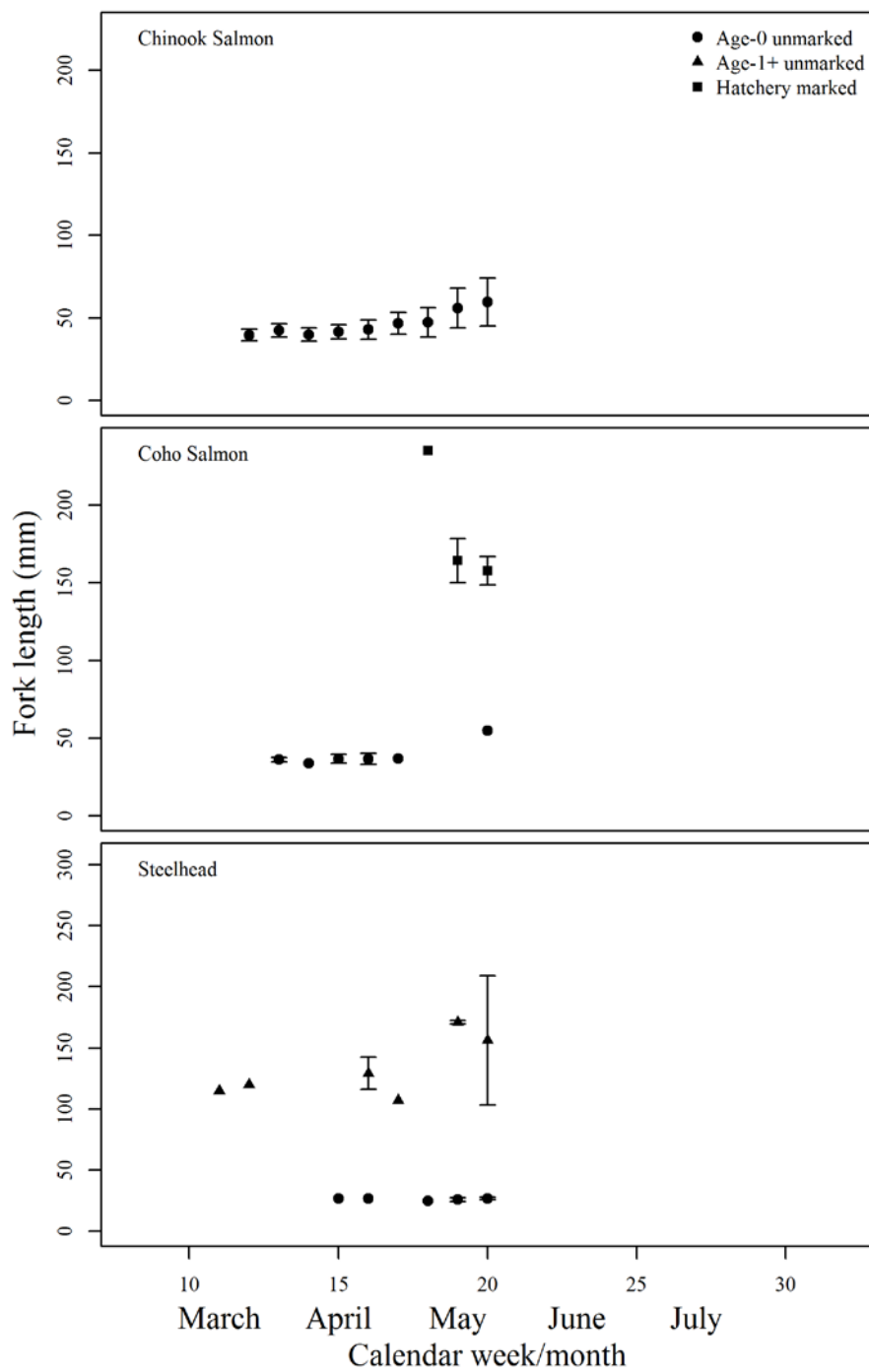


Figure 54. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River I-5 frame net, 2007.

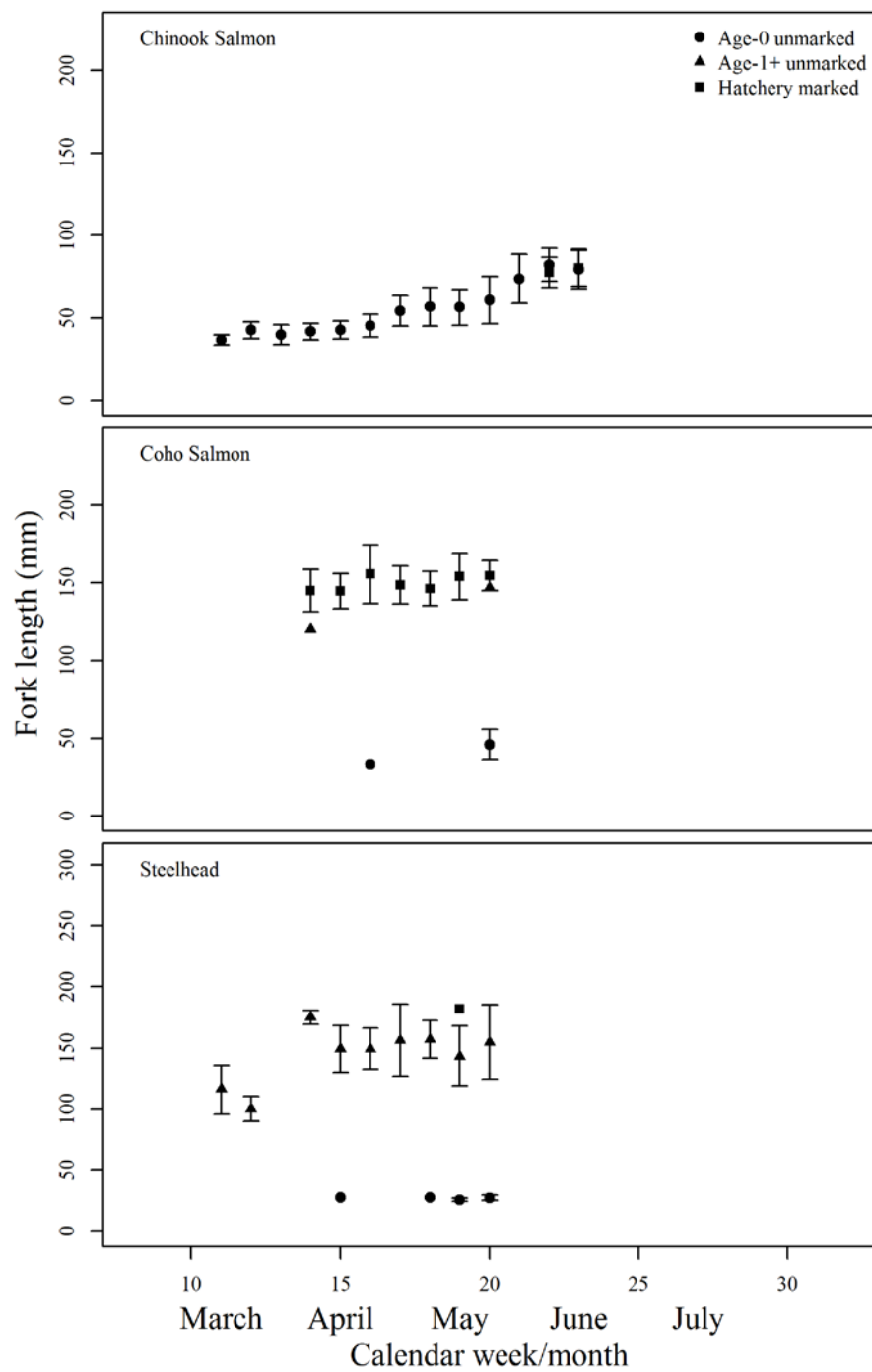


Figure 55. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River I-5 RST, 2007.

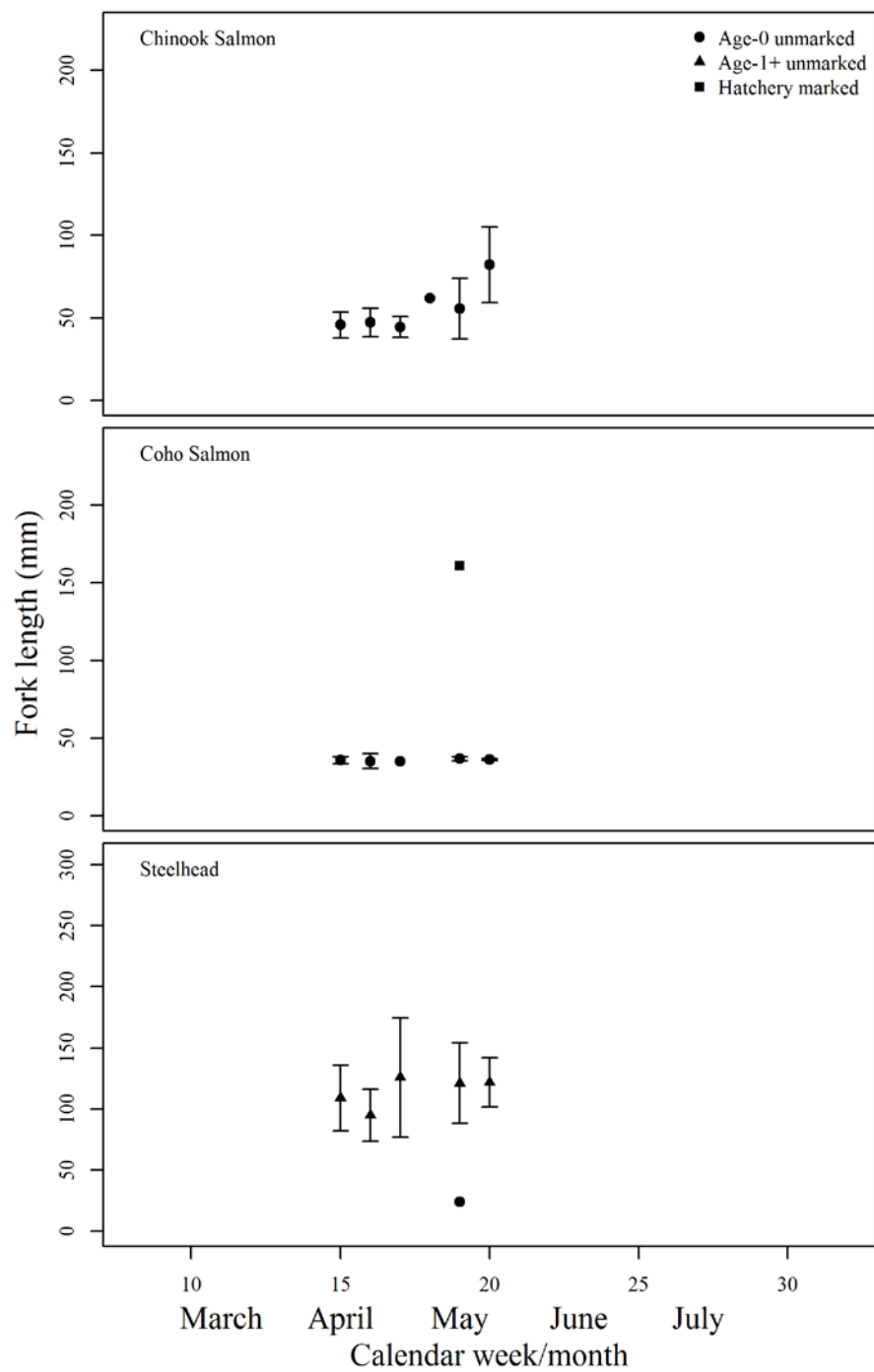


Figure 56. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River Kinsman frame net, 2007.

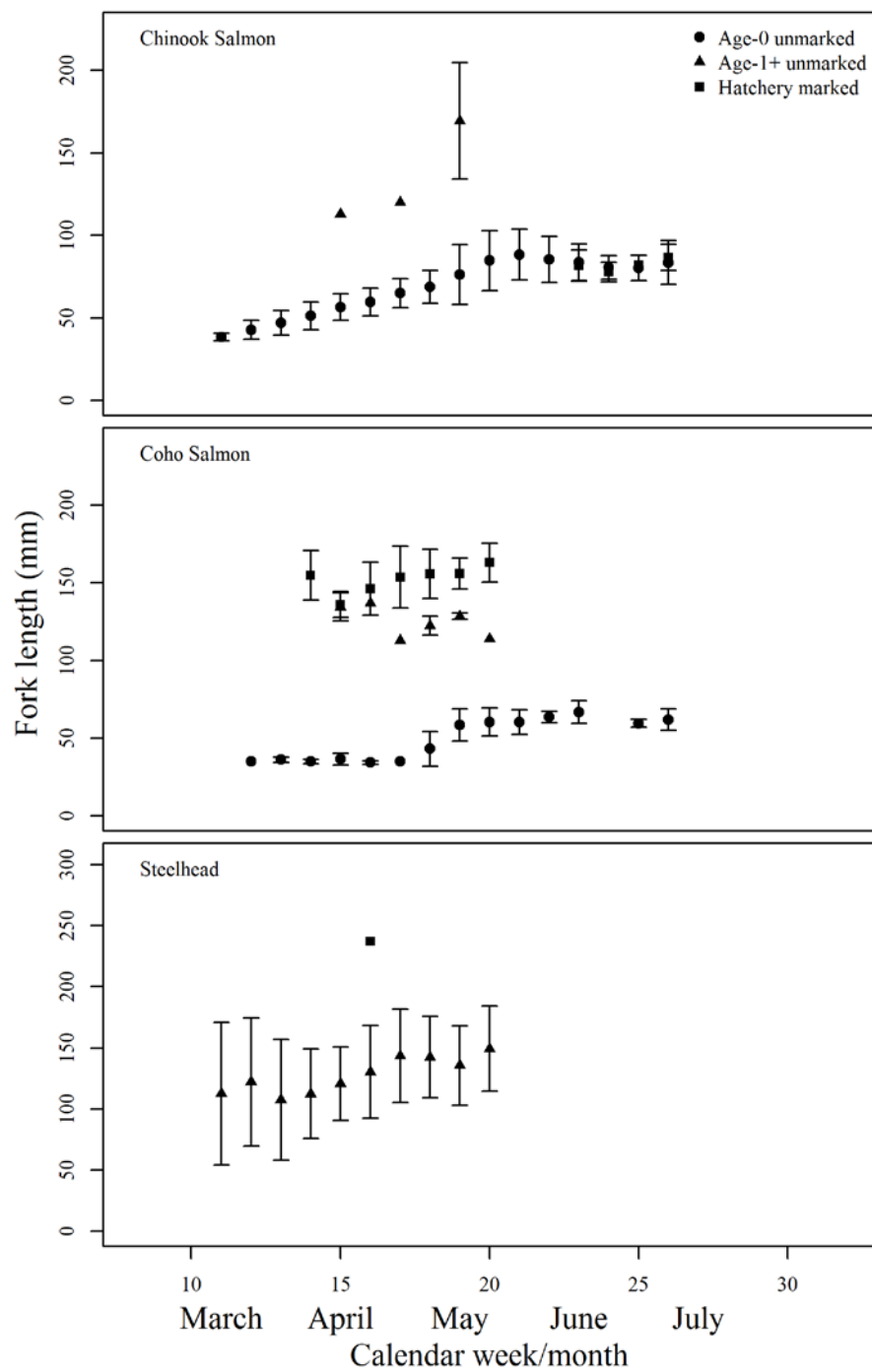


Figure 57. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River Kinsman RST, 2007.

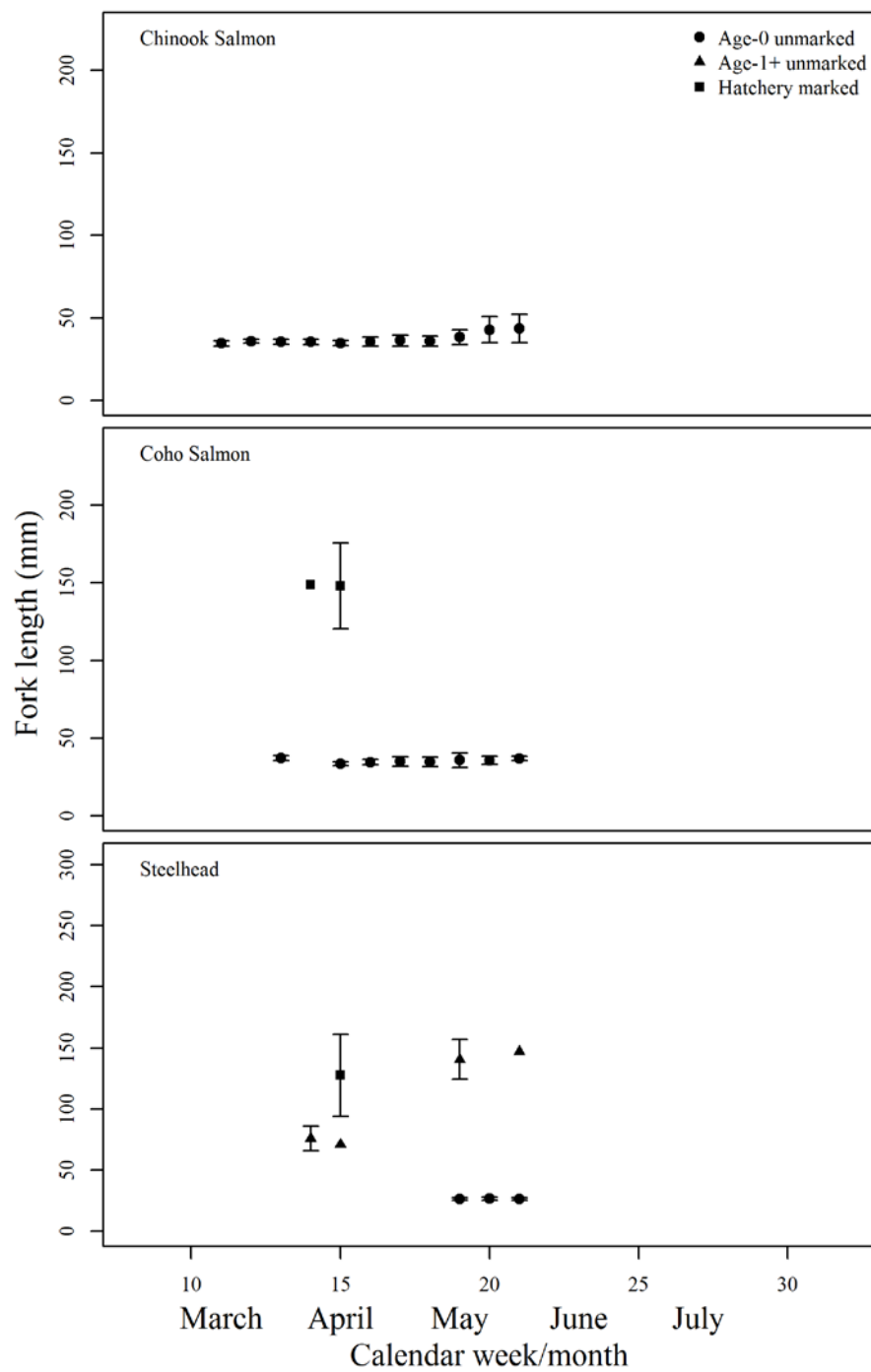


Figure 58. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River Bogus frame net, 2008.

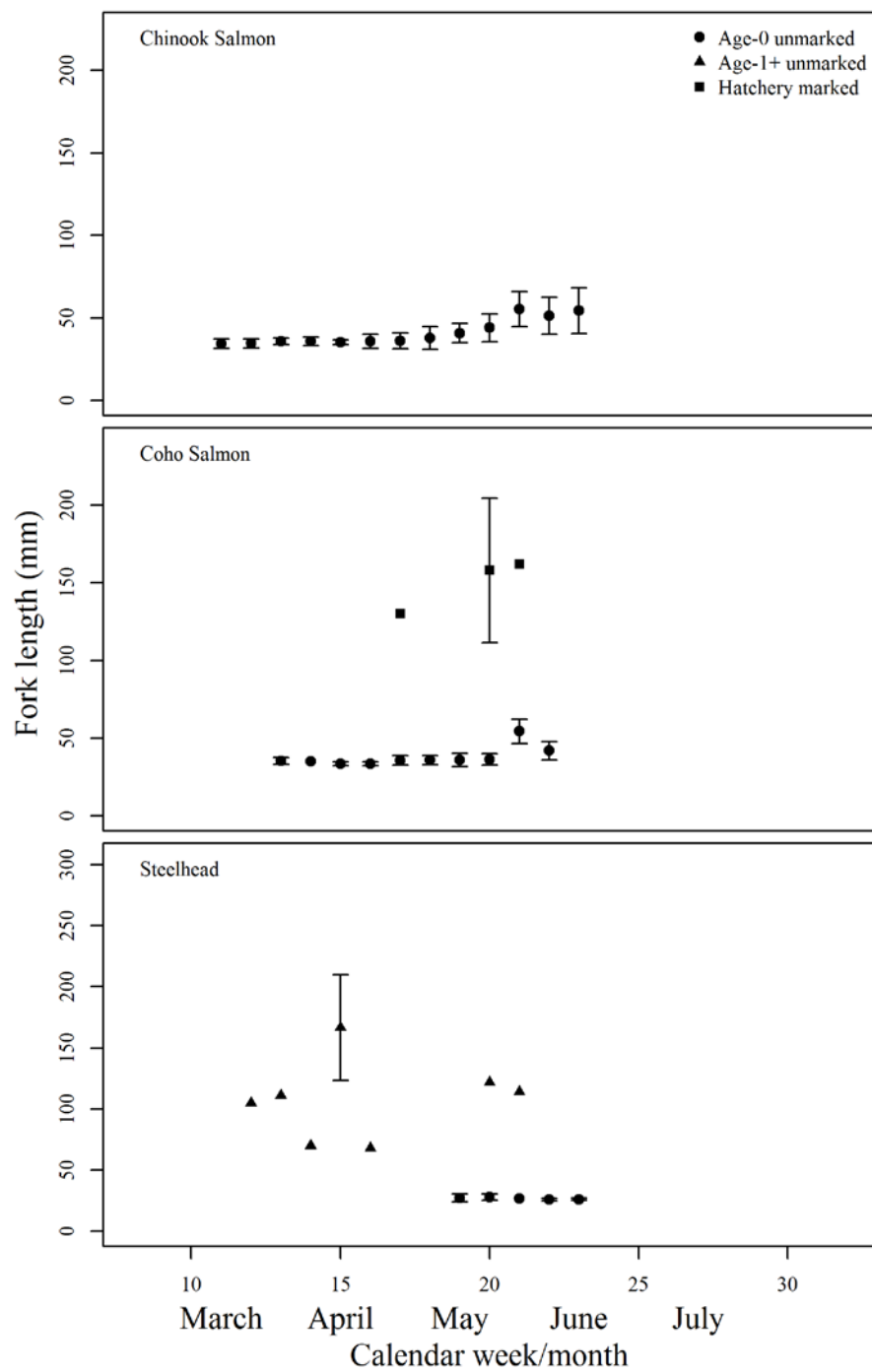


Figure 59. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River I-5 frame net, 2008.

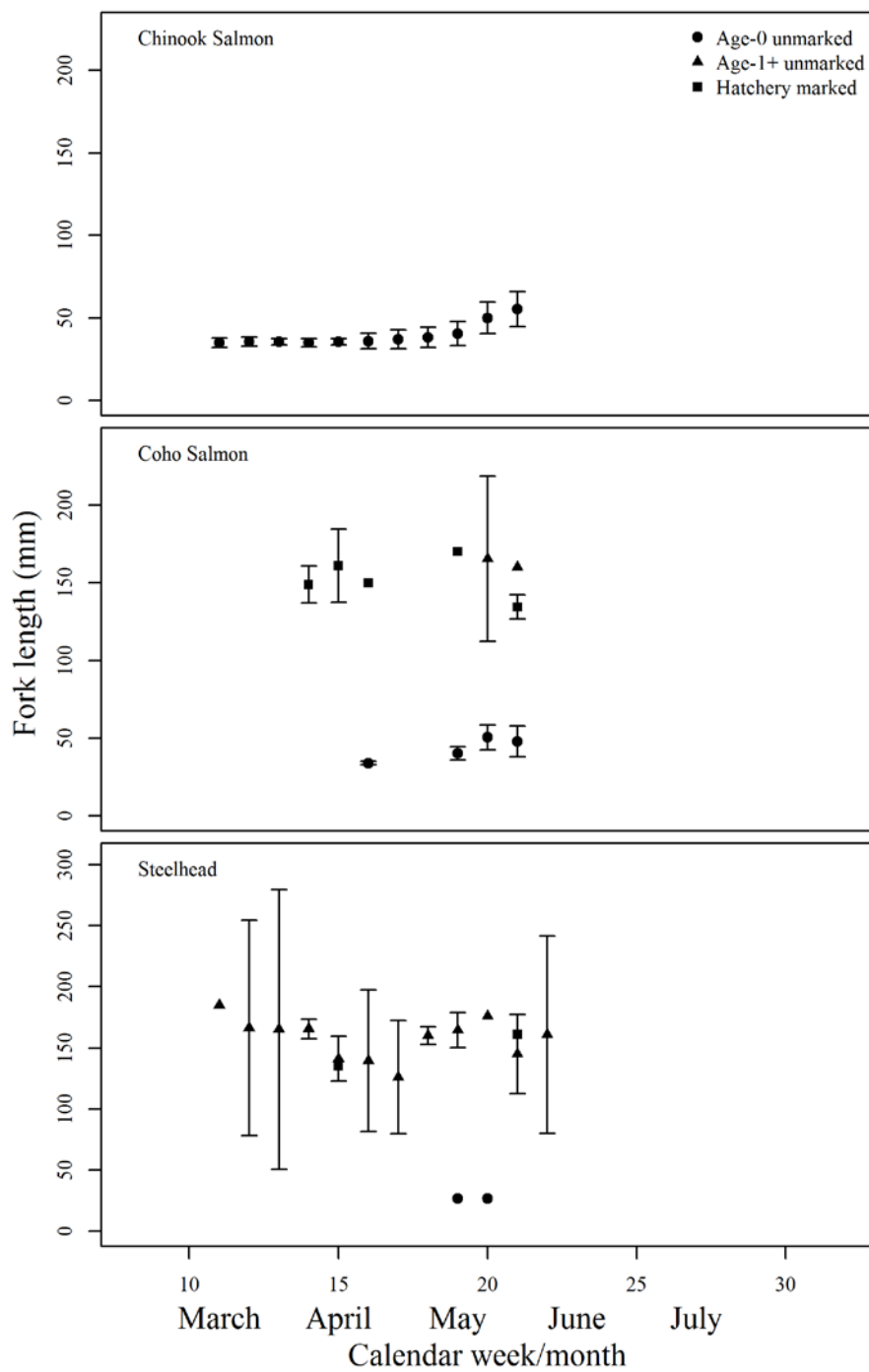


Figure 60. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River I-5 RST, 2008.

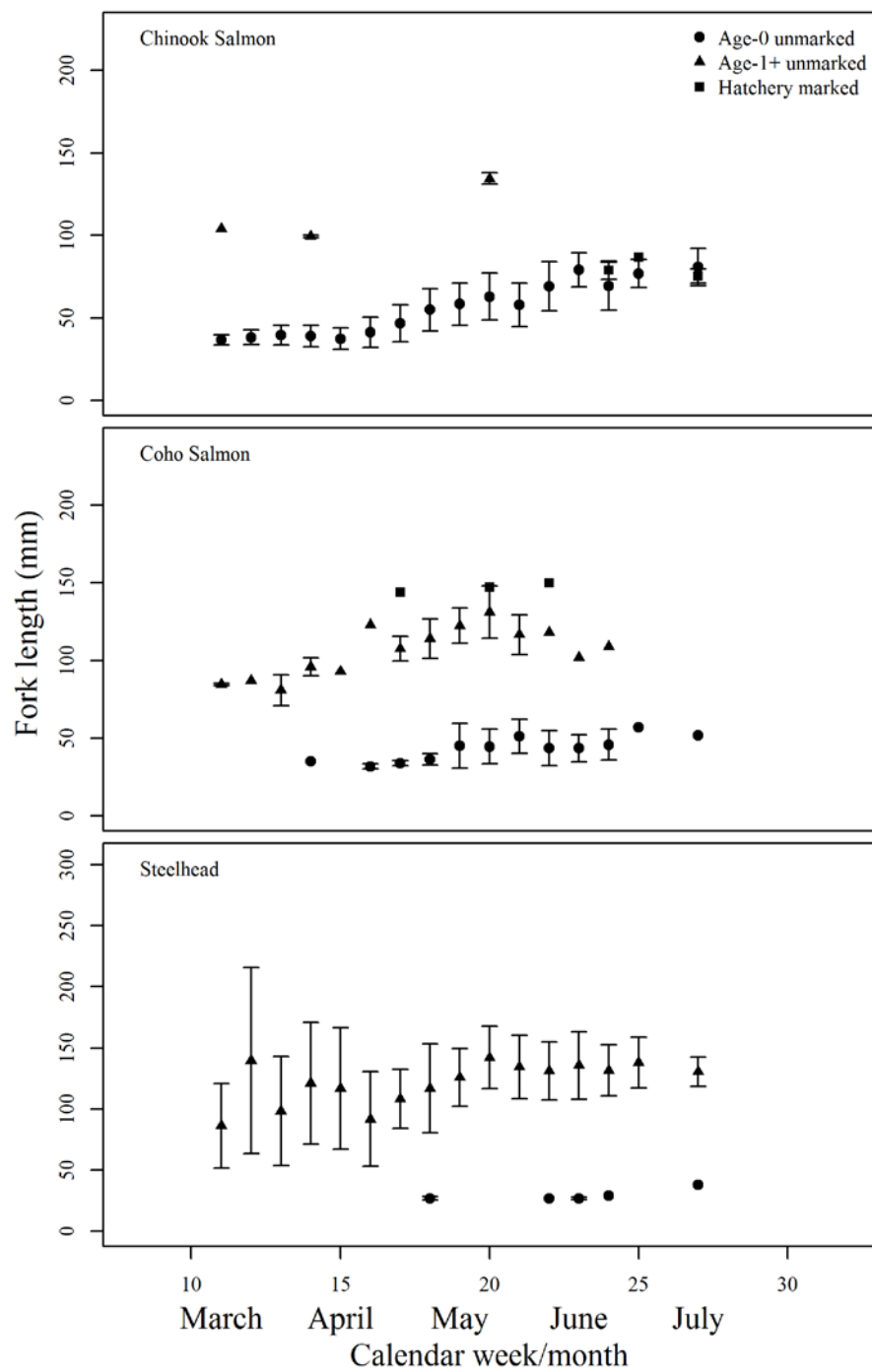


Figure 61. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River Kinsman RST, 2008.

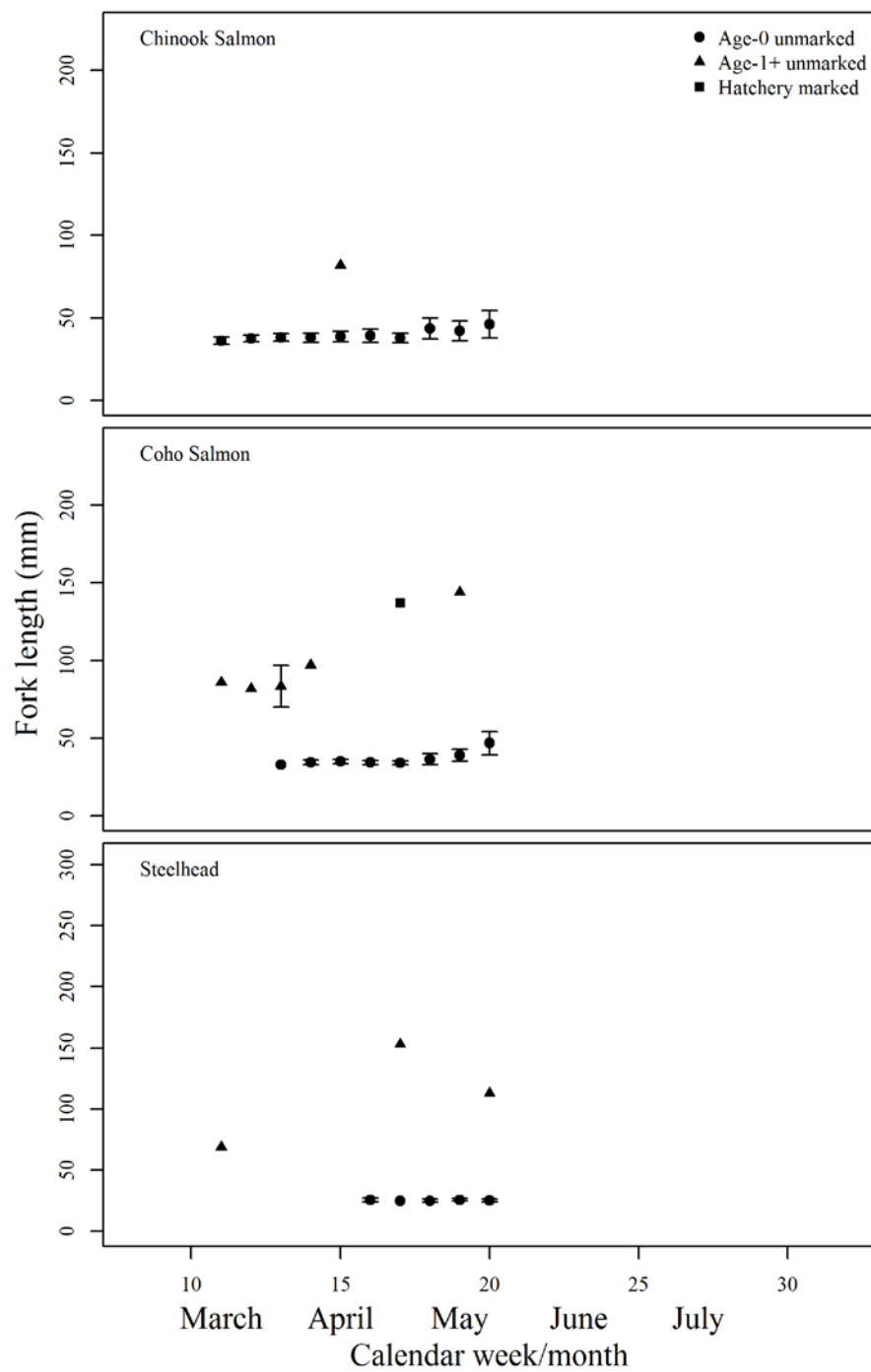


Figure 62. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River Bogus frame net, 2009.

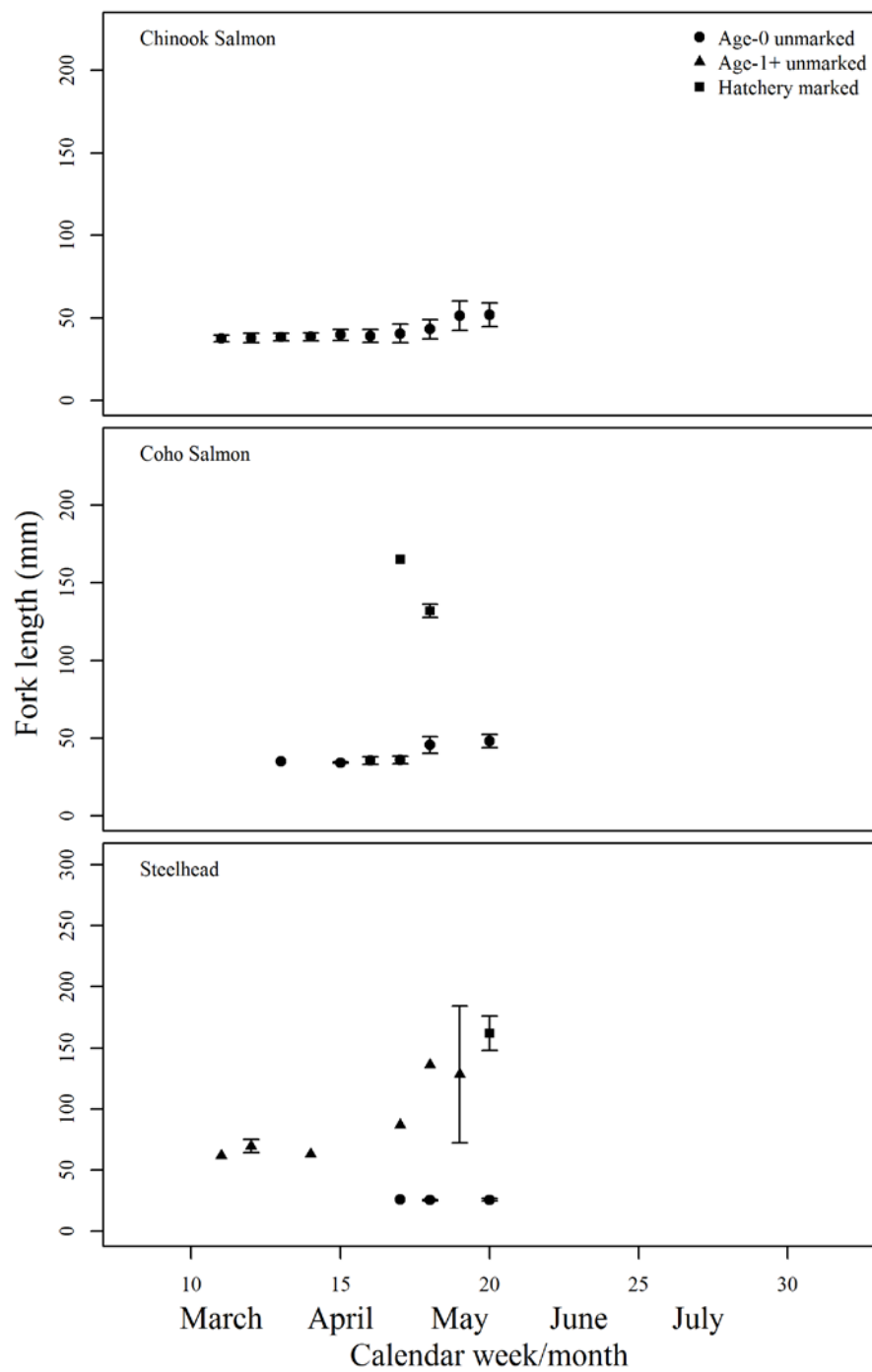


Figure 63. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River I-5 frame net, 2009.

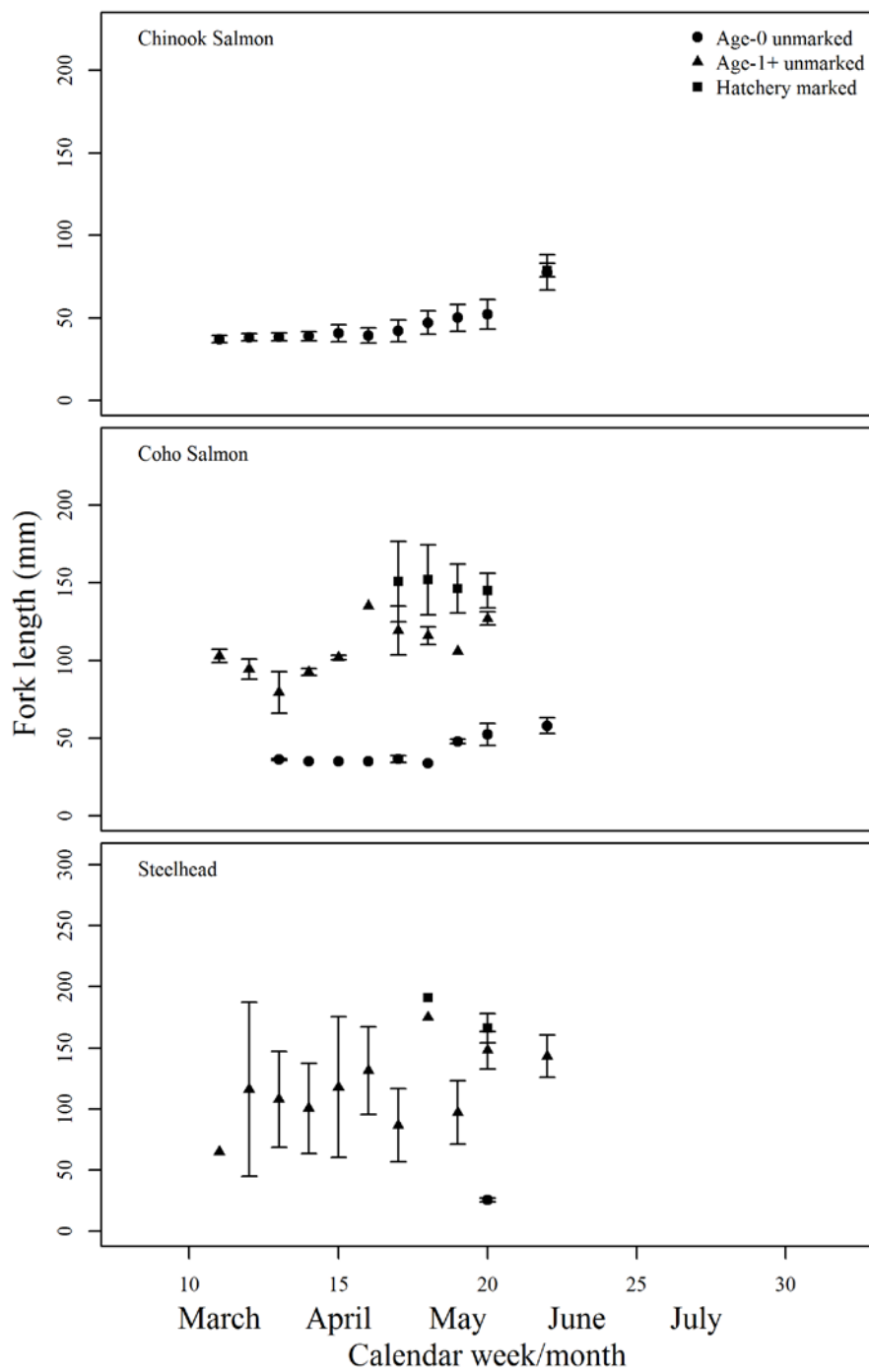


Figure 64. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River I-5 RST, 2009.

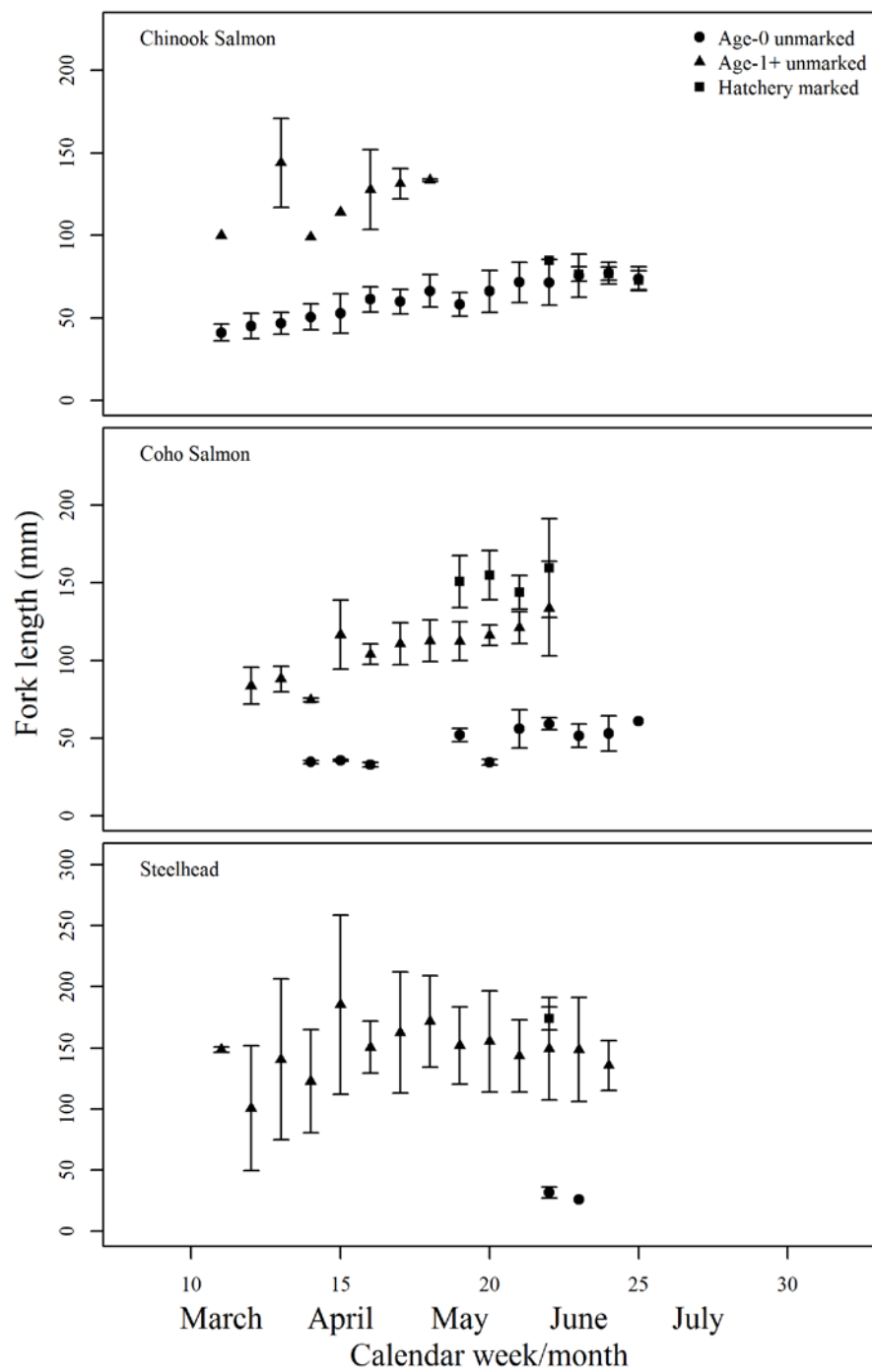


Figure 65. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River Kinsman RST, 2009.

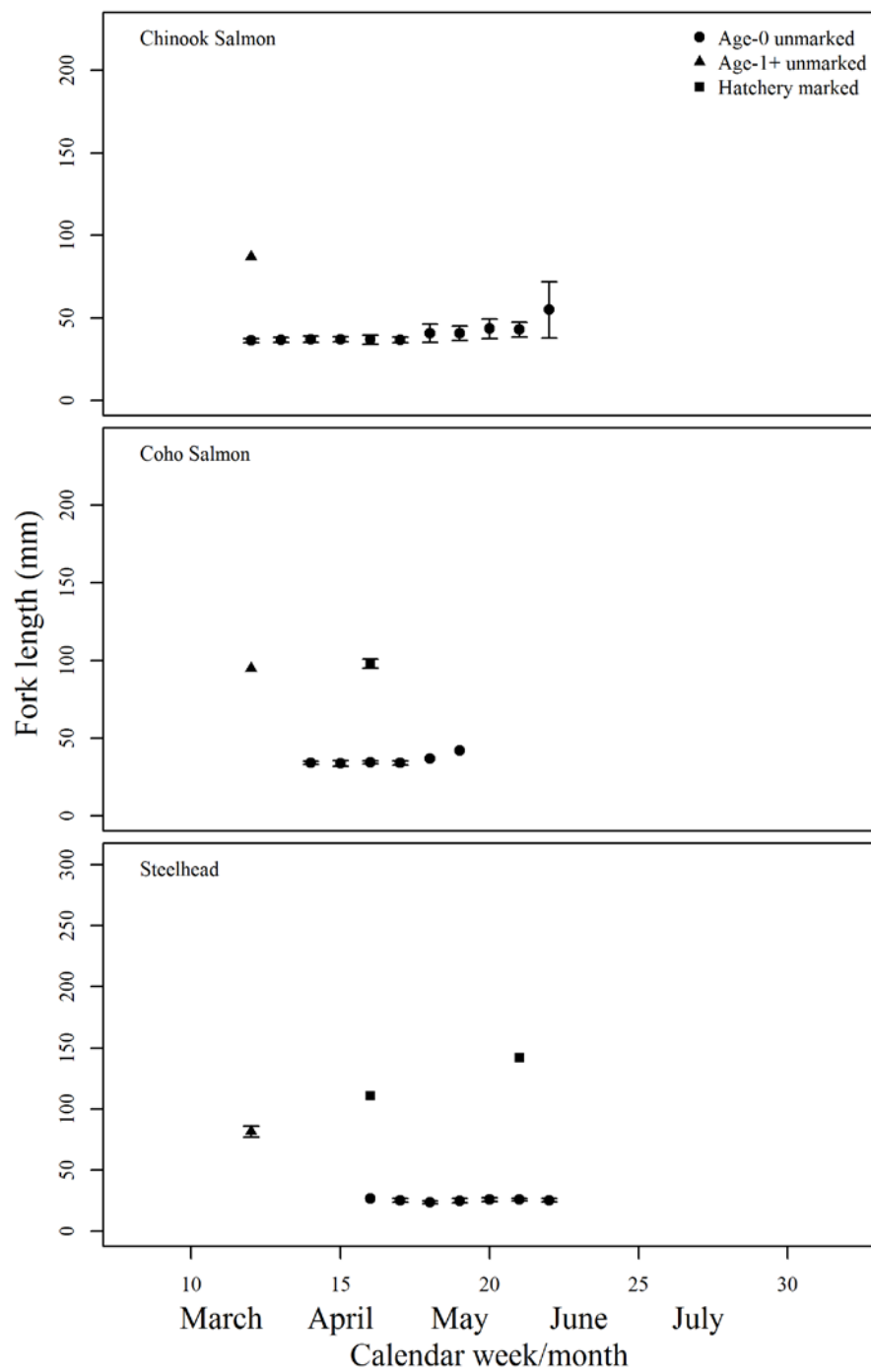


Figure 66. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River Bogus frame net, 2010.

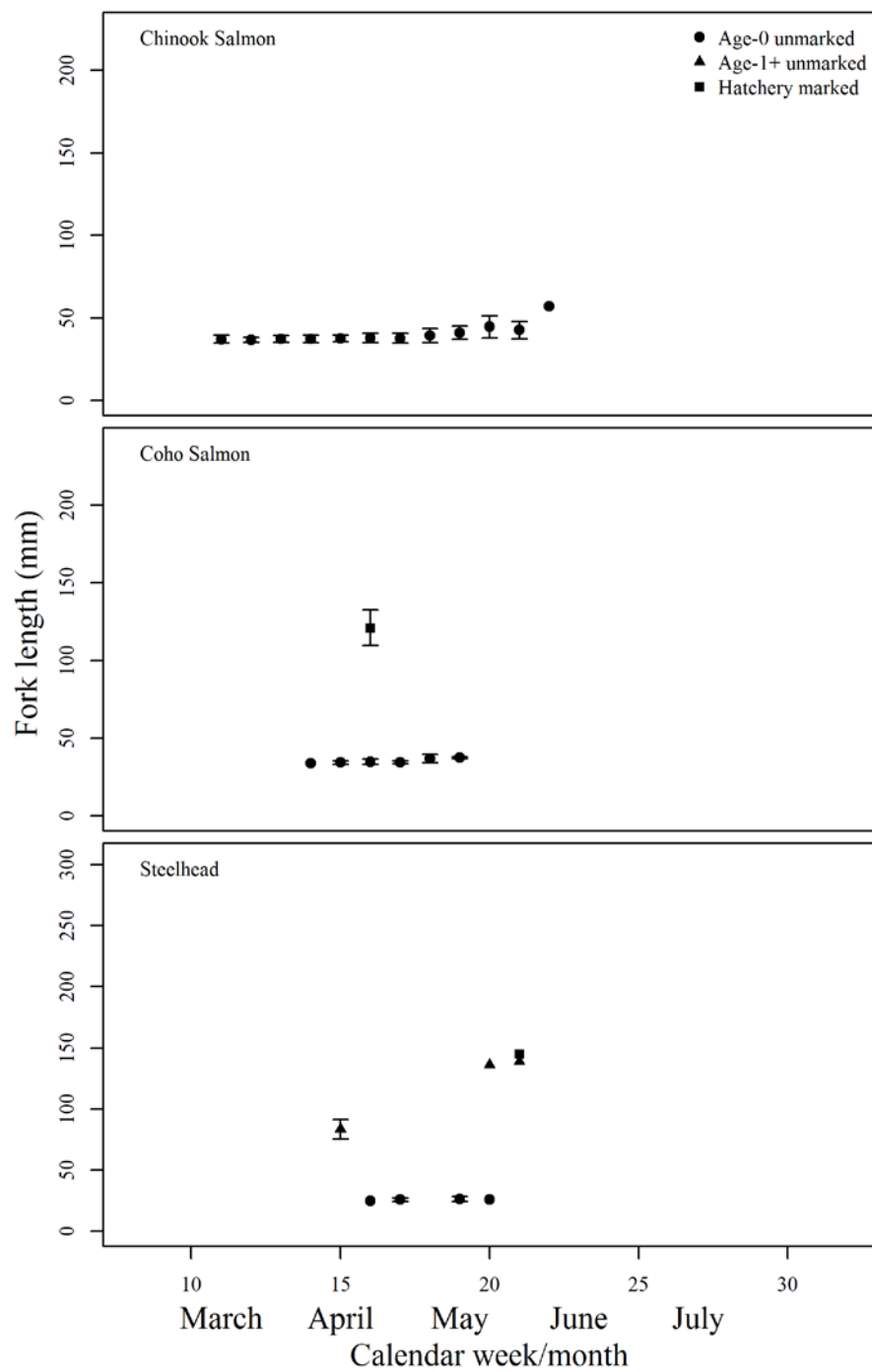


Figure 67. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River I-5 frame net, 2010.

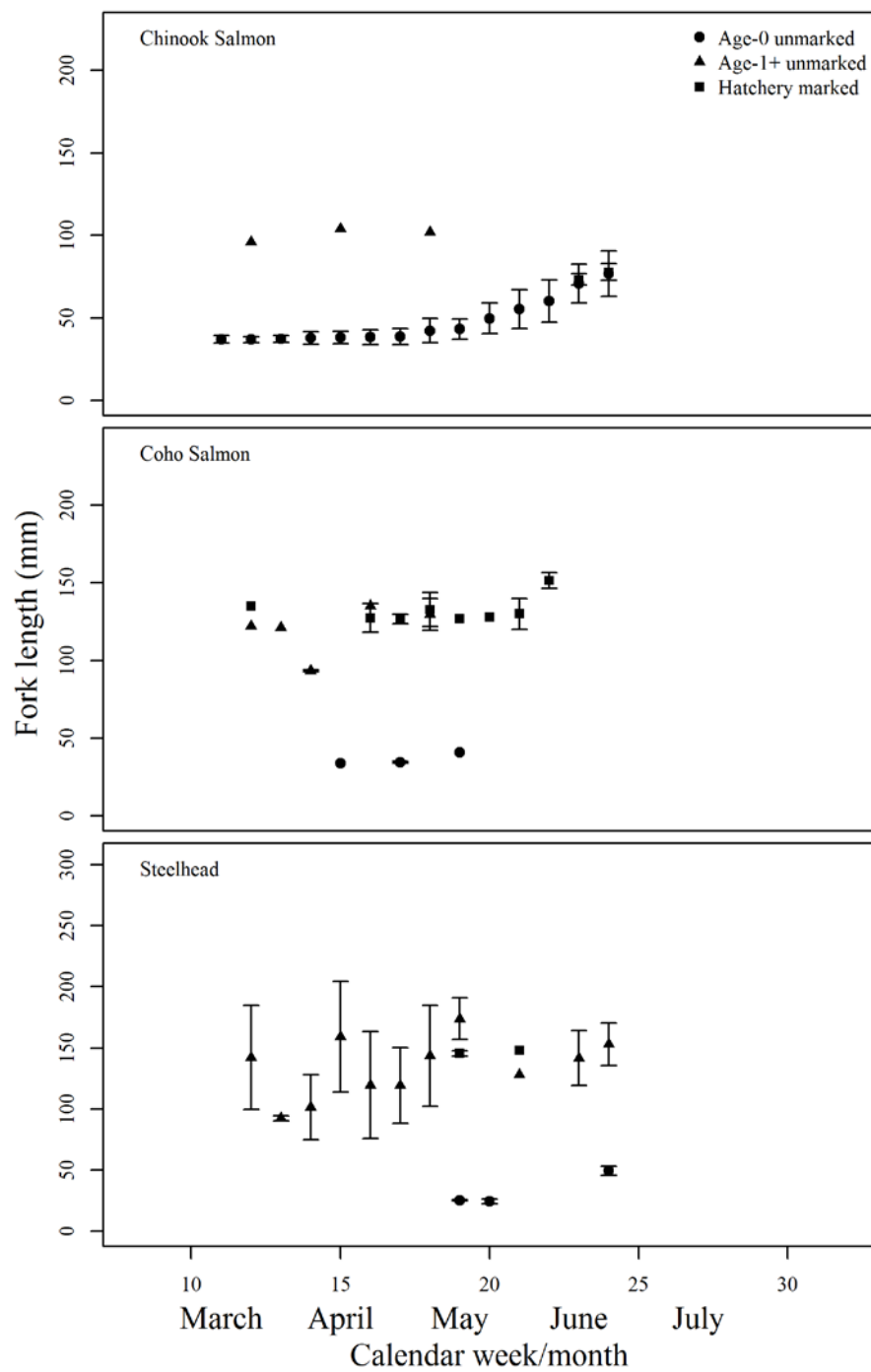


Figure 68. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River I-5 RST, 2010.

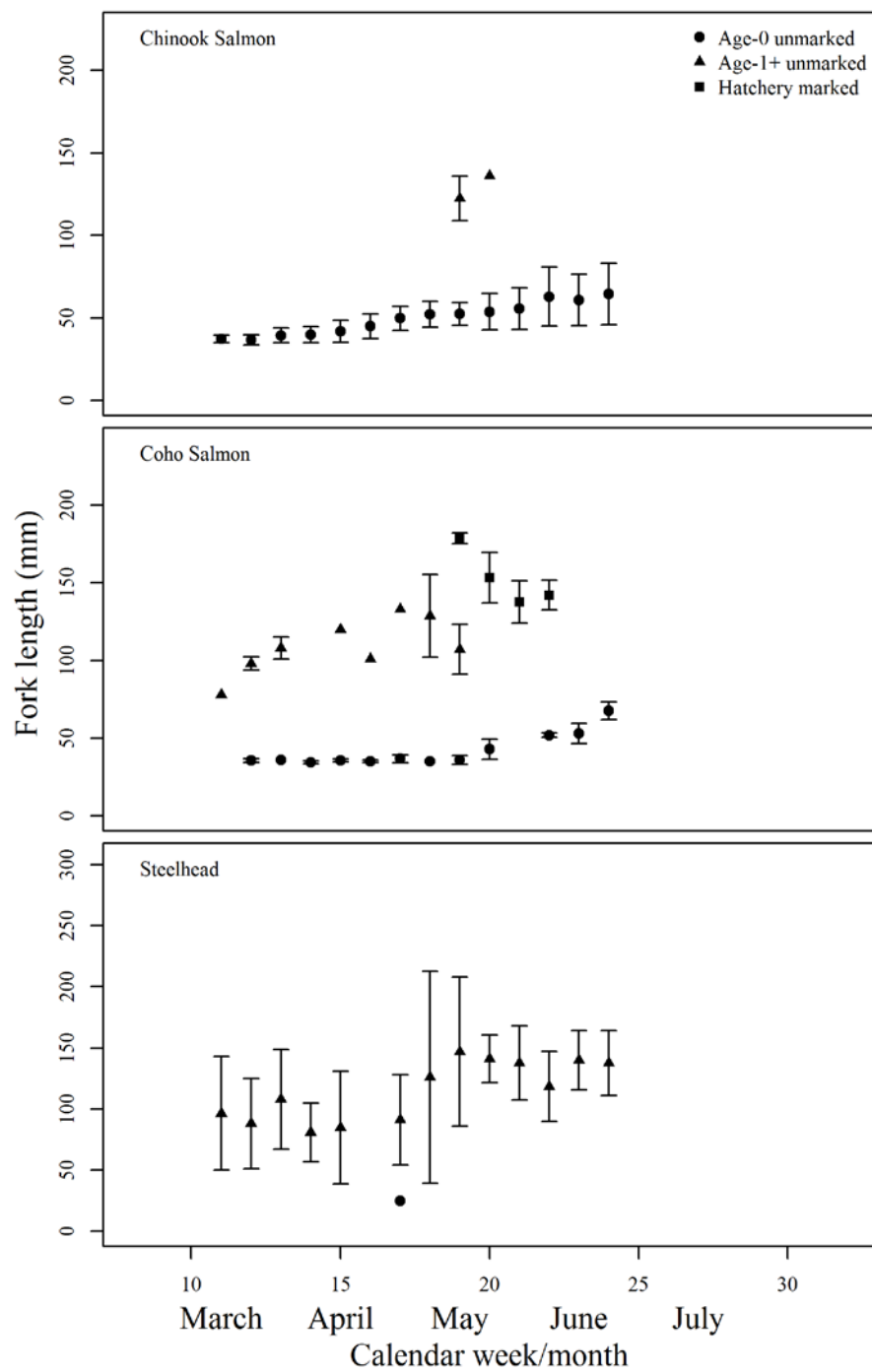


Figure 69. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River Kinsman RST, 2010.

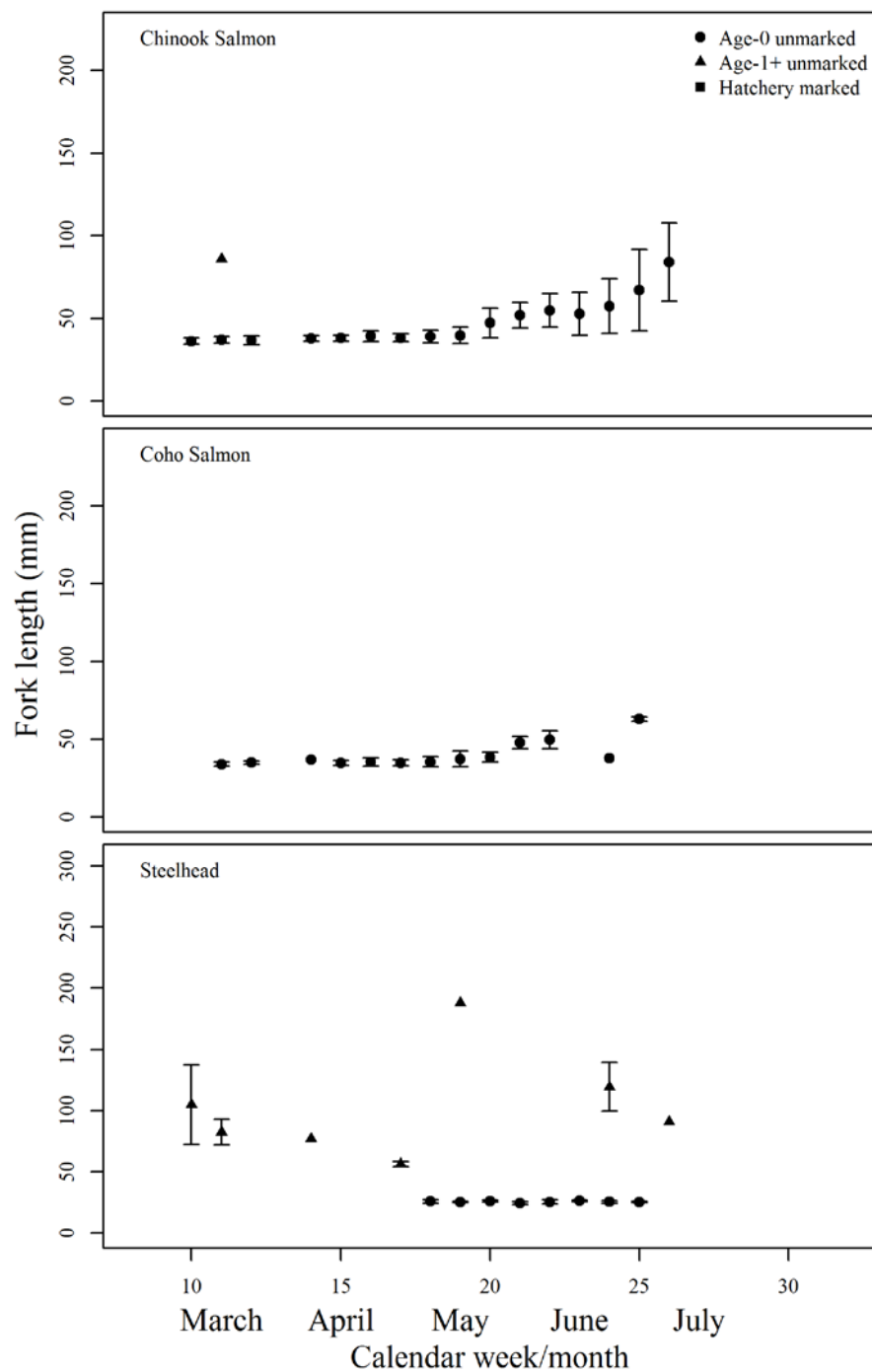


Figure 70. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River Bogus frame net, 2011.

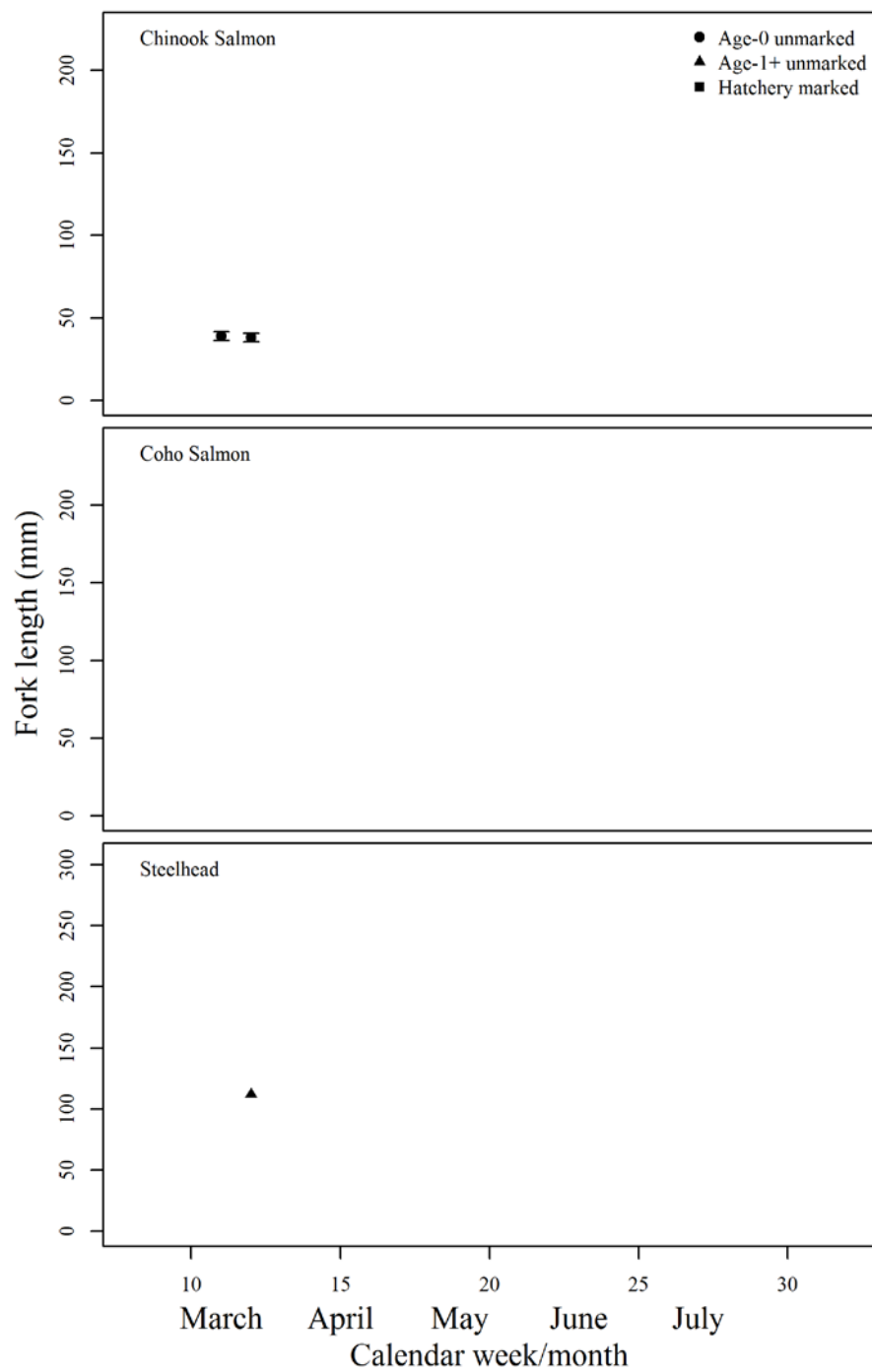


Figure 71. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, and Steelhead captured at the Klamath River I-5 frame net, 2011. No Coho Salmon were captured in the I-5 frame net in 2011.

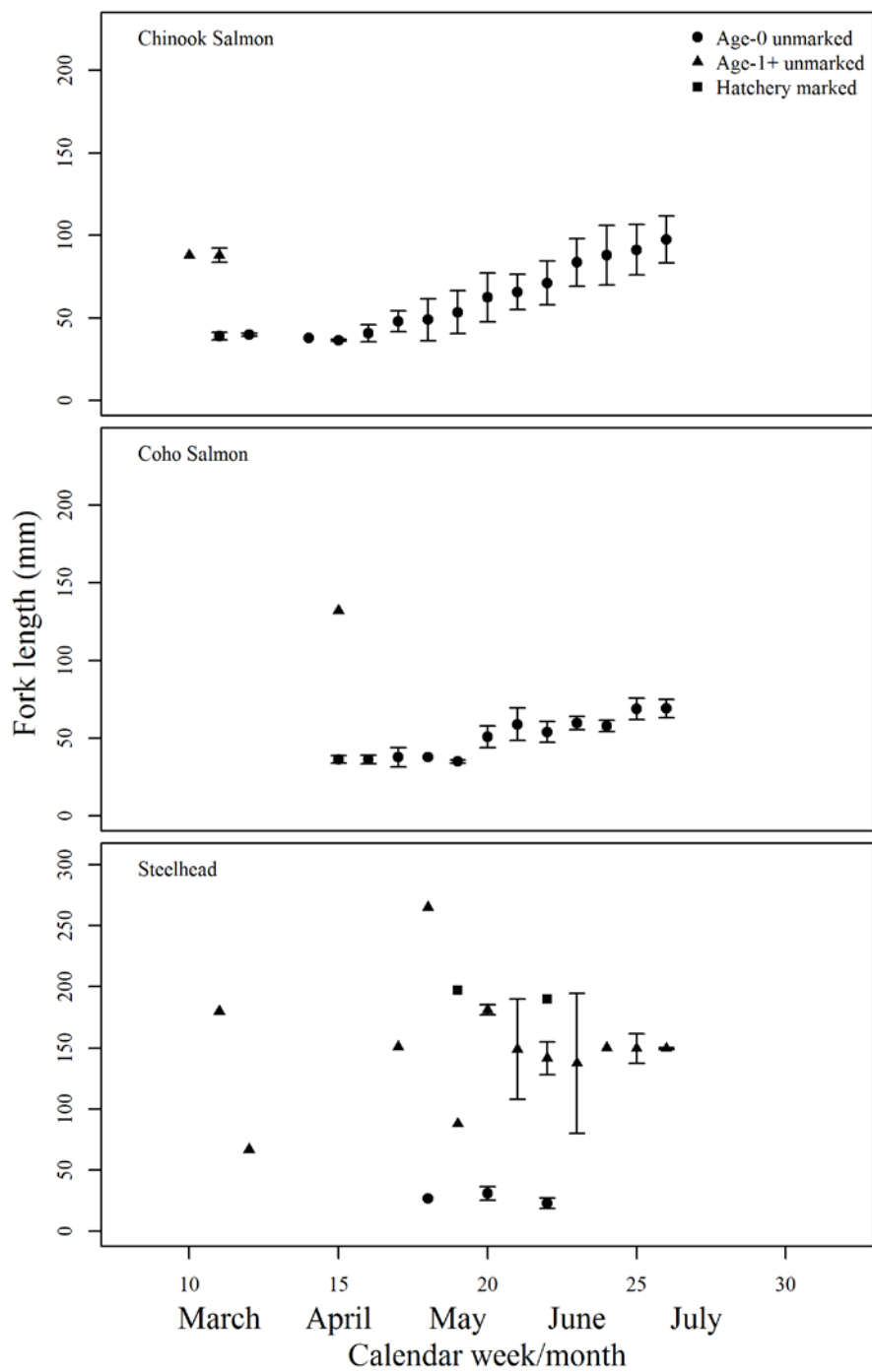


Figure 72. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River I-5 RST, 2011.

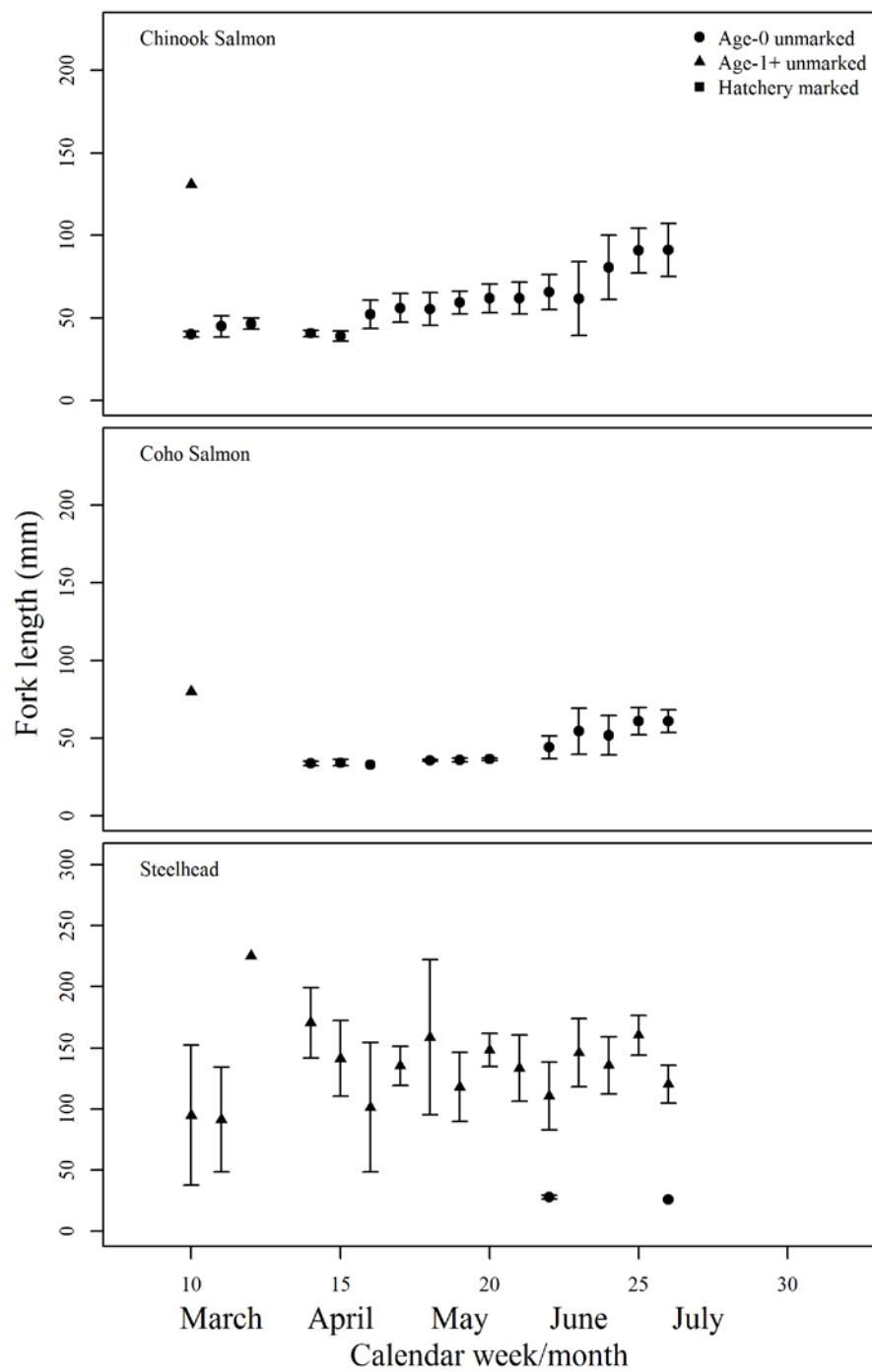


Figure 73. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River Kinsman RST, 2011.

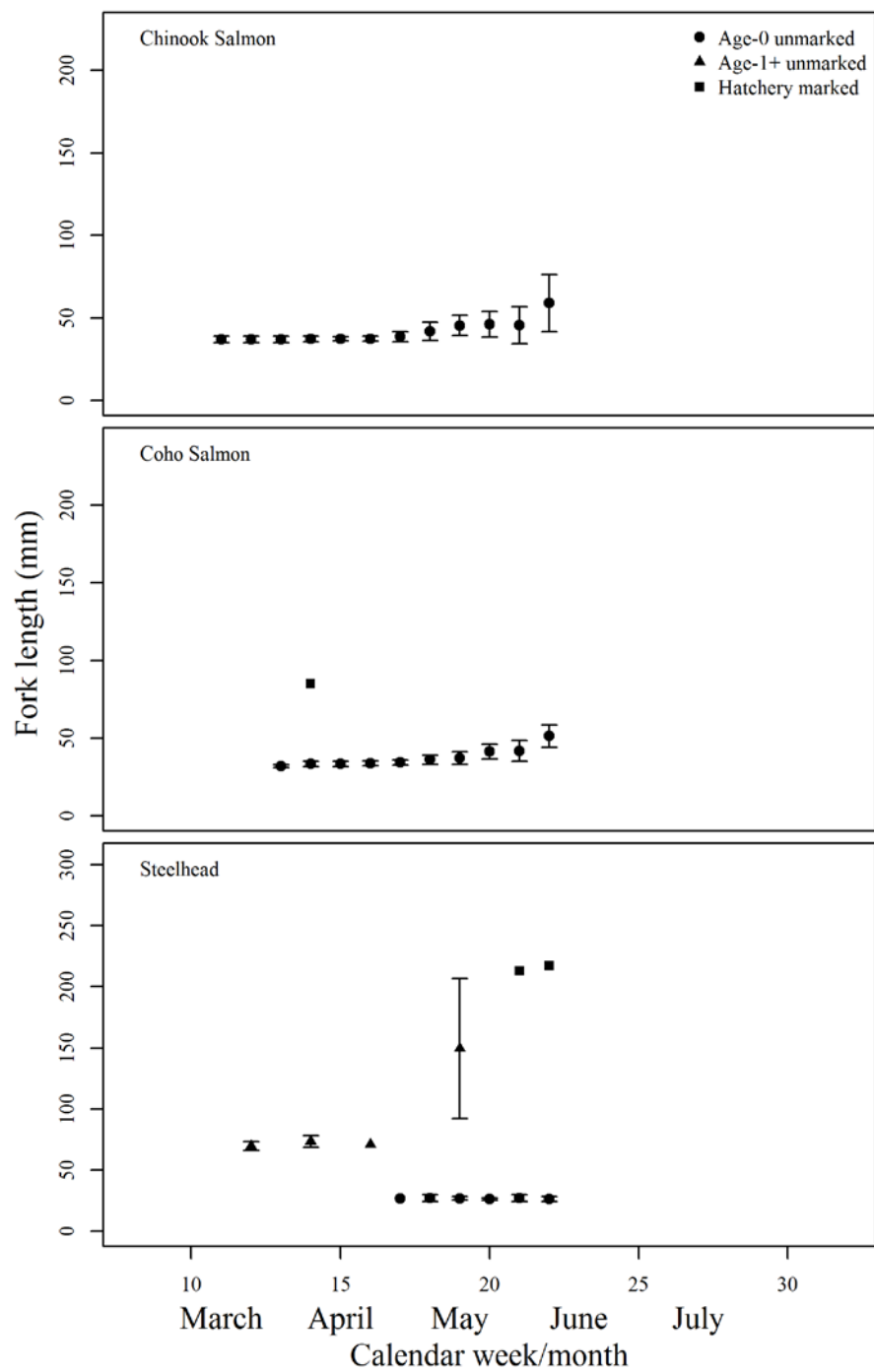


Figure 74. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River Bogus frame net, 2012.

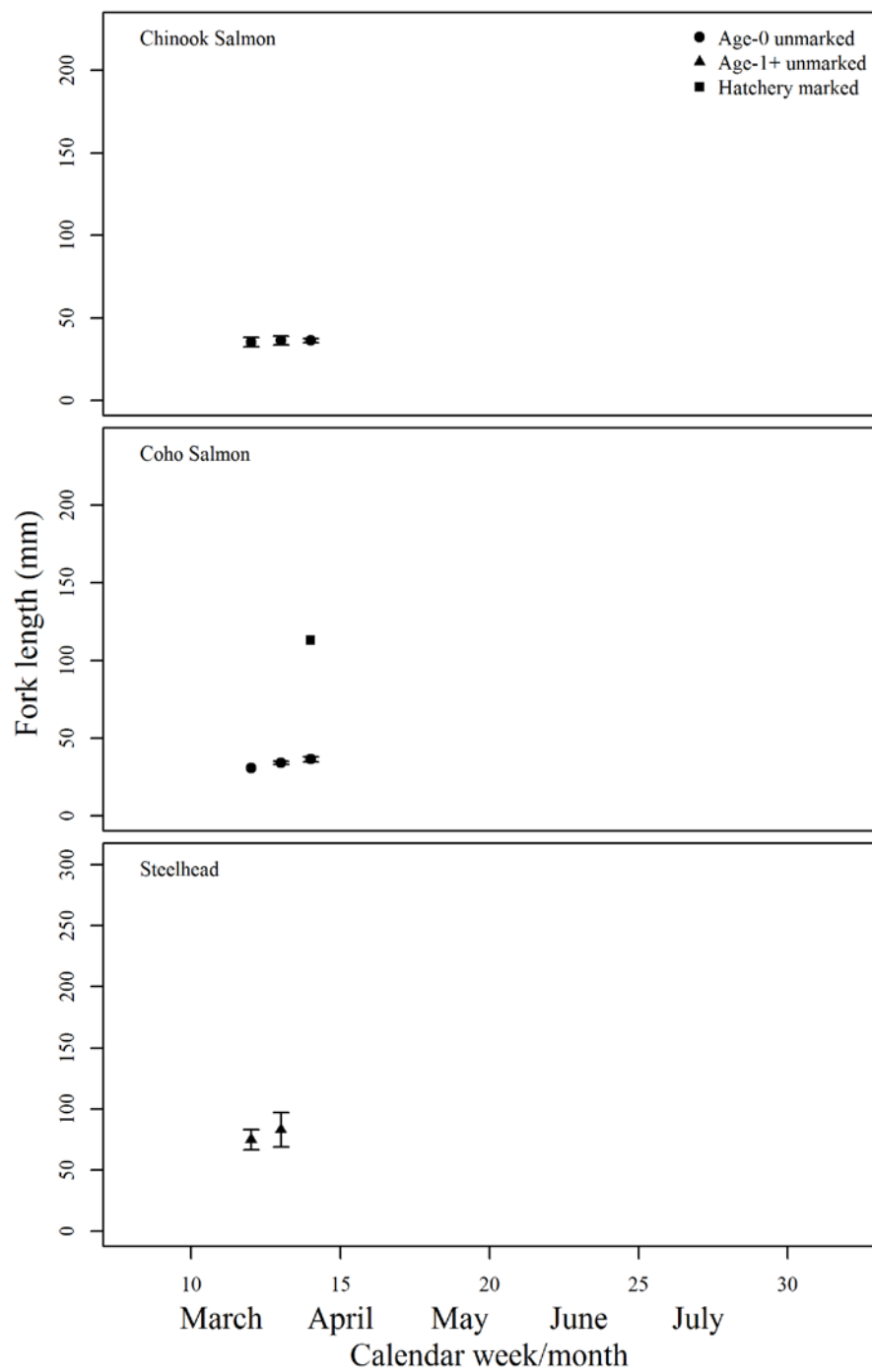


Figure 75. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River I-5 frame net, 2012.

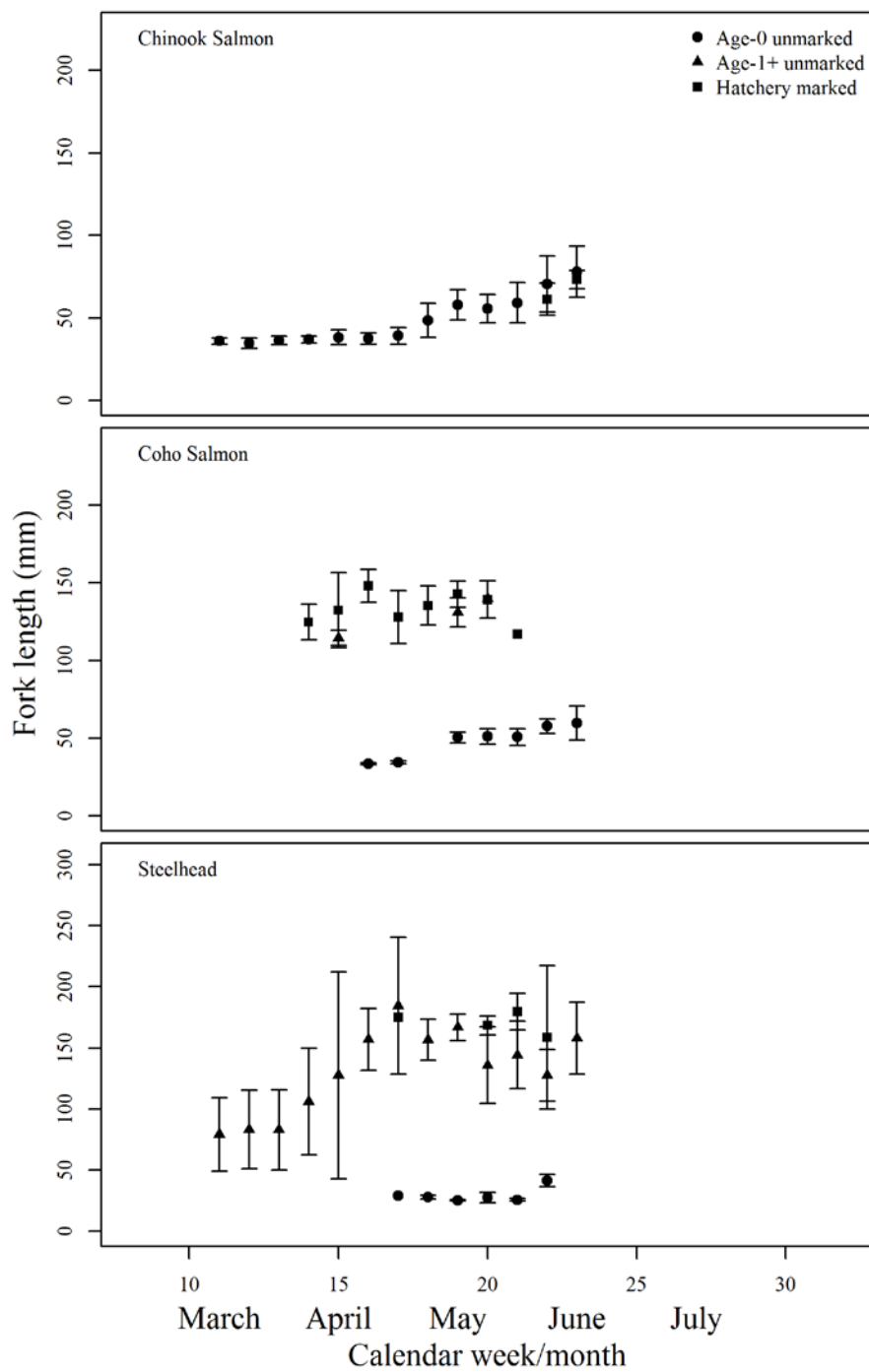


Figure 76. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River I-5 RST, 2012.

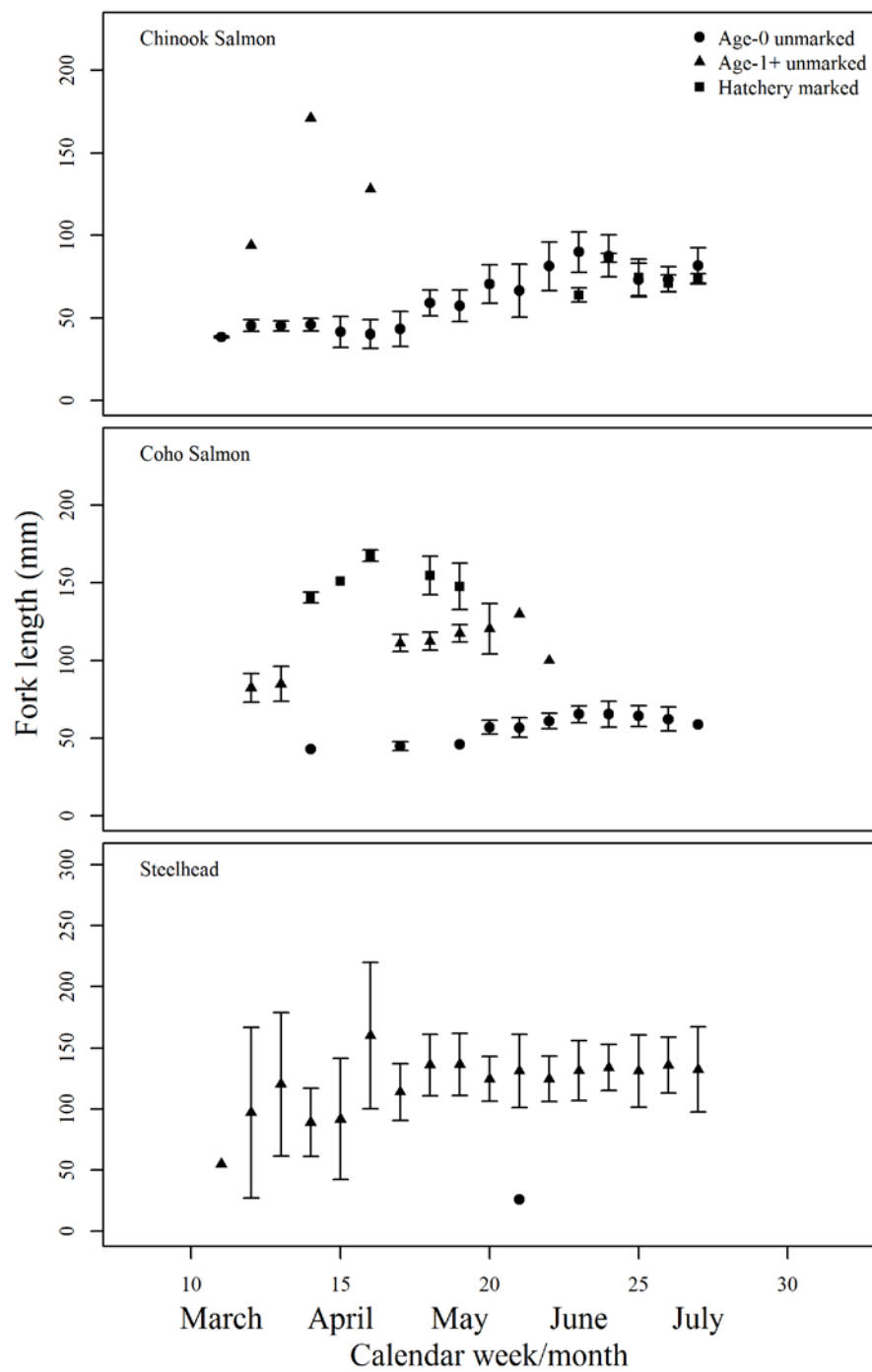


Figure 77. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River Kinsman RST, 2012.

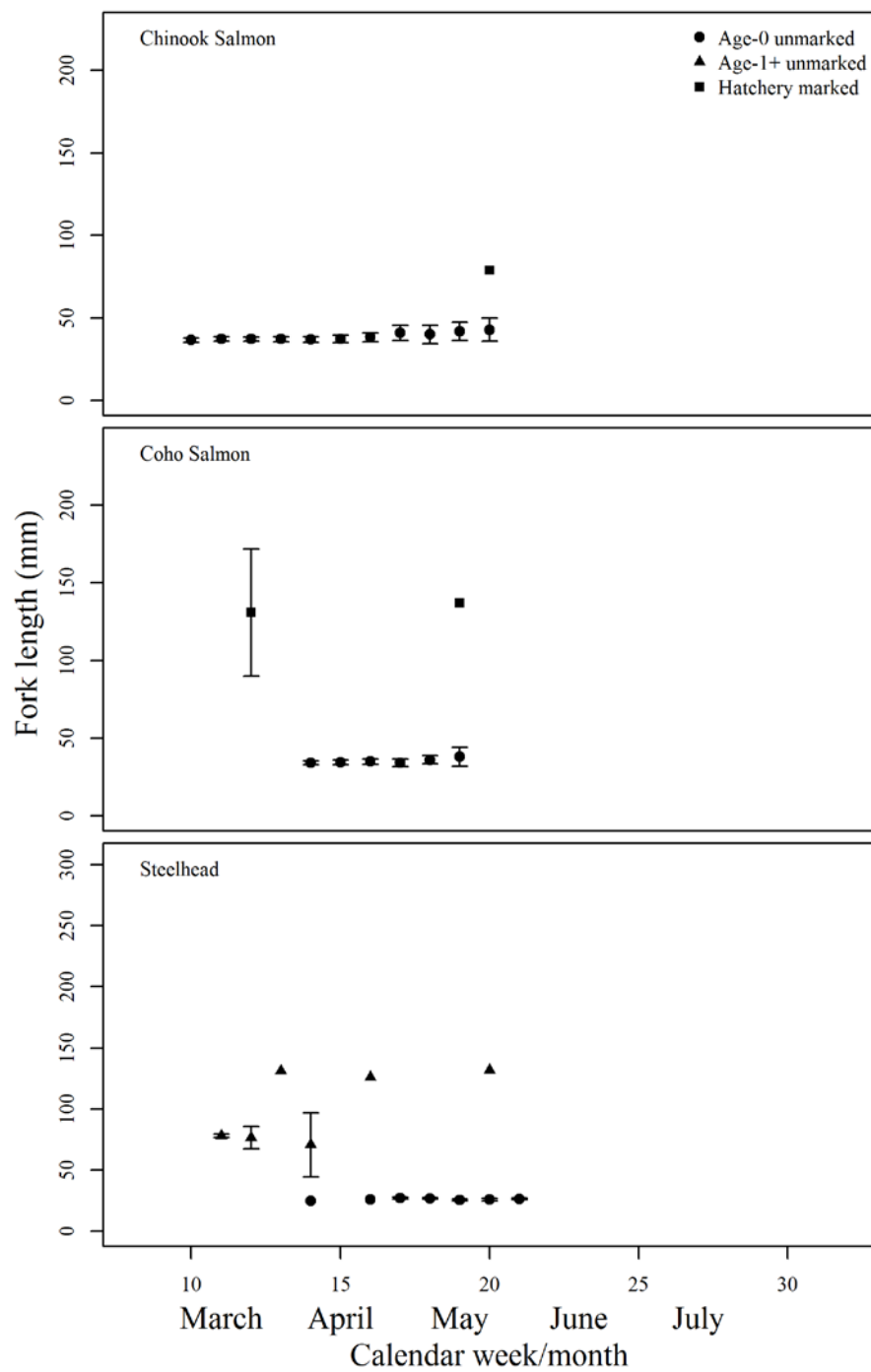


Figure 78. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River Bogus frame net, 2013.

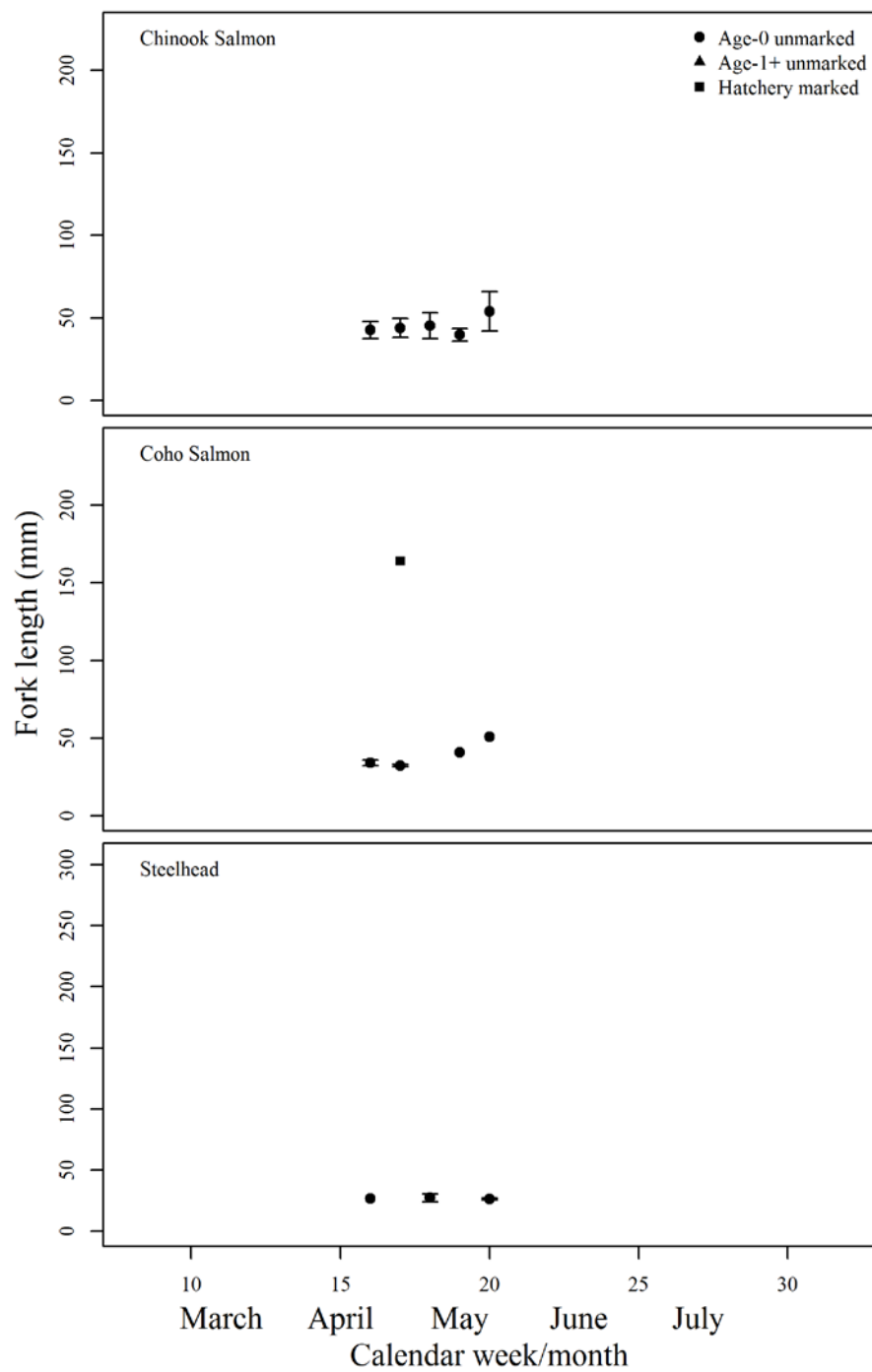


Figure 79. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River I-5 frame net, 2013.

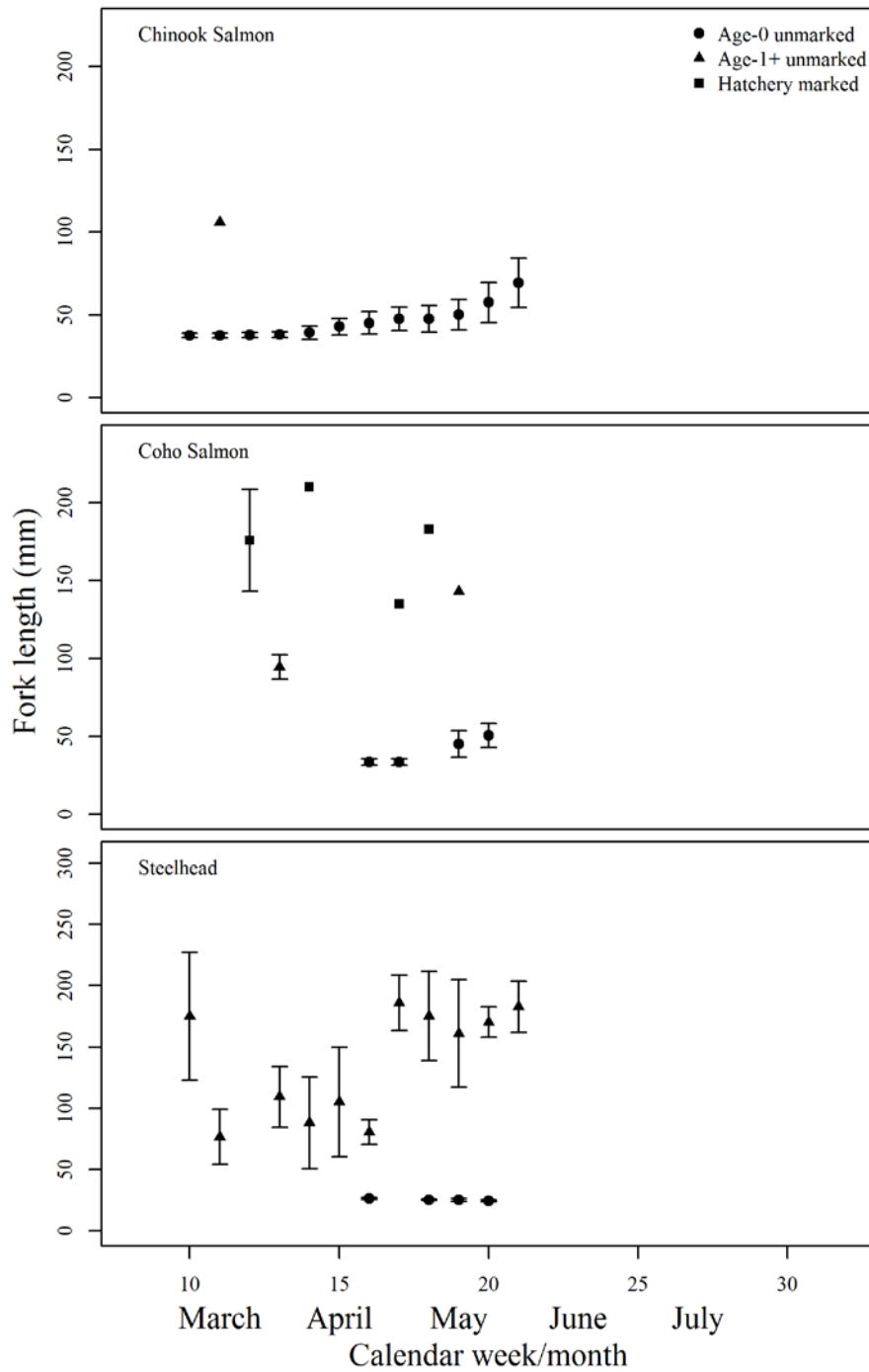


Figure 80. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River I-5 RST, 2013.

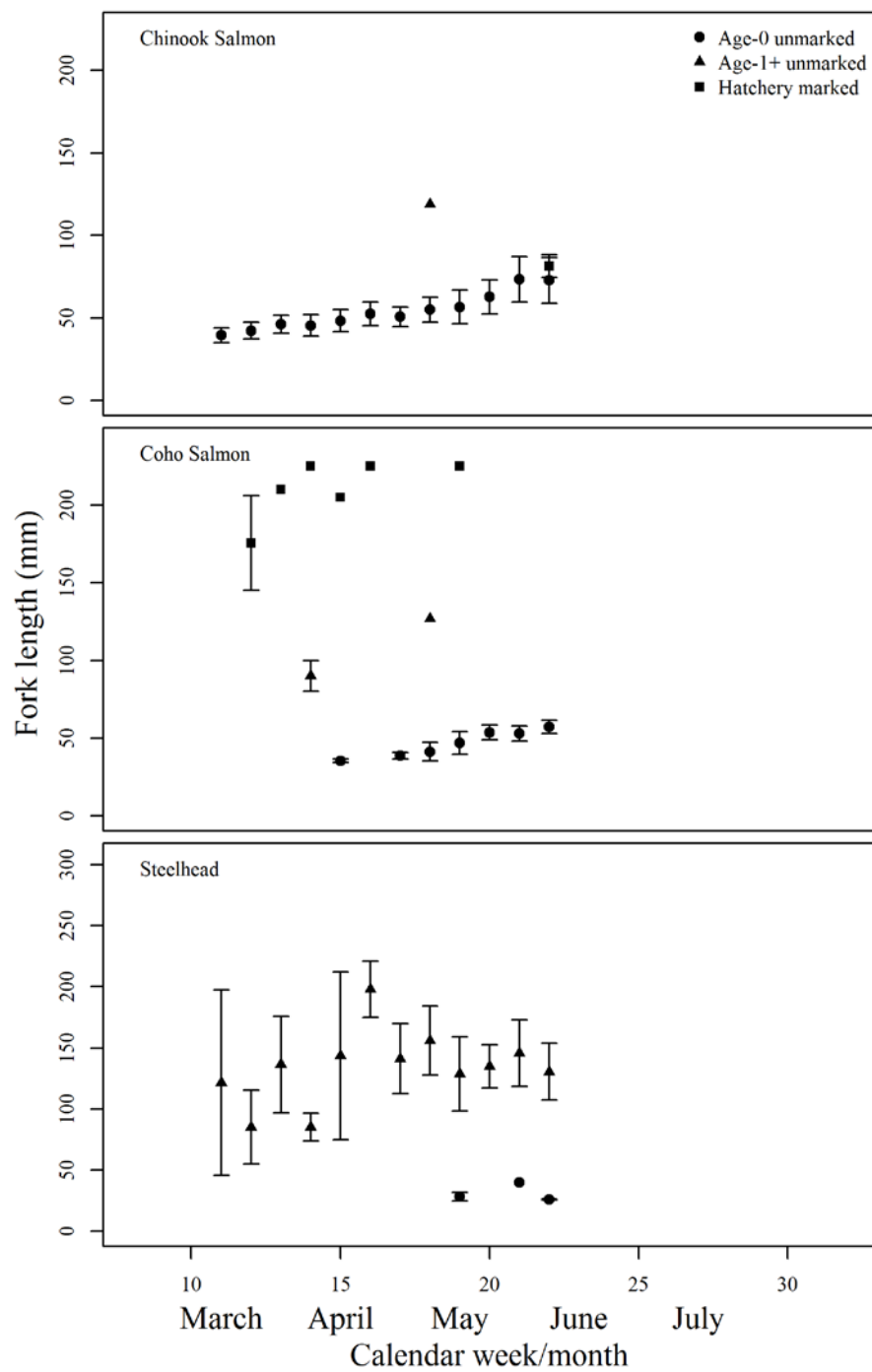


Figure 81. Weekly fork lengths (mean $\pm$ one standard deviation) of unmarked age-0, unmarked age-1, and hatchery-marked Chinook Salmon, Coho Salmon, and Steelhead captured at the Klamath River Kinsman RST, 2013

Appendices

Appendix A. Mainstem Klamath River weekly age-0 juvenile Chinook Salmon outmigrant abundance estimates and mark-recapture information, 2000-2013.

Appendix A1. Mainstem Klamath River weekly age-0 juvenile Chinook Salmon outmigrant abundance estimates and mark-recapture information, 2000.

Trap site	Week	Week starting	Raw catch	Marks released	Marks recovered	Weighted sample fraction	Mean population estimate	SD of population estimate	0.025 bound	0.975 bound
I-5	13	3/20/2000	409	0	--	0.0963	252,099	103,188	108,855	513,537
	14	3/27/2000	70	0	--	0.1960	84,273	44,601	25,117	196,398
	15	4/3/2000	324	0	--	0.4556	90,349	41,256	30,888	186,575
	16	4/10/2000	381	0	--	0.7046	79,747	29,553	36,527	140,449
	17	4/17/2000	1,129	248	98	0.6866	107,457	45,985	50,546	216,261
	18	4/24/2000	1,229	316	6	0.8131	92,928	29,393	47,508	155,047
	19	5/1/2000	435	500	9	0.7768	49,890	15,072	27,323	86,647
	20	5/8/2000	94	441	3	0.7194	33,533	17,155	10,226	75,970
	21	5/15/2000	259	488	2	0.8268	51,490	23,612	22,793	112,215
	22	5/22/2000	412	202	1	0.7003	57,802	28,804	18,495	137,926
	23	5/29/2000	104	0	--	0.1615	63,358	39,630	13,608	162,961
	Total						965,126	221,755	587,708	1,469,084

Appendix A2. Mainstem Klamath River weekly age-0 juvenile Chinook Salmon outmigrant abundance estimates and mark-recapture information, 2001.

Trap site	Week	Week starting	Raw catch	Marks released	Marks recovered	Weighted sample fraction	Mean population estimate	SD of population estimate	0.025 bound	0.975 bound
I-5	10	3/5/2001	235	0	--	0.5087	90,871	47,123	42,268	214,674
	11	3/12/2001	1,058	0	--	0.5714	237,155	54,286	149,285	354,936
	12	3/19/2001	2,201	0	--	0.6318	453,150	124,708	276,802	718,225
	13	3/26/2001	2,497	510	3	0.5714	492,662	102,165	258,344	685,500
	14	4/2/2001	376	0	--	0.5714	130,788	78,238	53,006	353,804
	15	4/9/2001	666	1,265	6	0.5213	206,424	58,546	126,618	348,950
	16	4/16/2001	1,276	1,685	17	0.4622	301,359	57,623	200,135	411,894
	17	4/23/2001	3,556	1,784	25	0.6238	476,207	92,692	334,914	698,766
	18	4/30/2001	721	1,504	14	0.6130	144,906	34,146	91,421	225,017
	19	5/7/2001	152	854	4	0.3087	86,327	32,299	42,426	158,602
	20	5/14/2001	134	366	2	0.2337	98,904	37,924	53,867	198,045
	Total						2,726,726	269,049	2,233,083	3,250,673

Appendix A3. Mainstem Klamath River weekly age-0 juvenile Chinook Salmon outmigrant abundance estimates and mark-recapture information, 2002.

Trap site	Week	Week starting	Raw catch	Marks released	Marks recovered	Weighted sample fraction	Mean population estimate	SD of population estimate	0.025 bound	0.975 bound
Bogus	13	3/25/2002	1,159	0	--	0.3076	226,022	60,855	103,879	333,116
	14	4/1/2002	10,431	2,031	37	0.5714	1,112,391	146,429	835,382	1,425,666
	15	4/8/2002	9,732	2,000	23	0.5714	1,312,109	143,344	1,048,064	1,651,566
	16	4/15/2002	2,166	1,081	18	0.5714	250,993	51,753	178,575	375,164
	17	4/22/2002	384	625	16	0.5714	38,413	7,778	23,775	53,654
	18	4/29/2002	1,709	0	--	0.5714	198,193	62,605	88,855	344,443
	19	5/6/2002	85	0	--	0.2857	21,688	10,773	11,523	49,899
	Total						3,165,548	298,022	2,623,752	3,811,833
I-5	11	3/11/2002	260	0	--	0.1429	260,197	105,596	82,520	527,817
	12	3/18/2002	698	0	--	0.4608	214,923	118,986	50,578	459,642
	13	3/25/2002	992	1,337	10	0.5239	249,394	59,663	159,259	375,425
	14	4/1/2002	2,305	1,814	34	0.5048	267,718	32,588	206,072	335,481
	15	4/8/2002	3,839	0	--	0.5714	531,857	226,874	267,455	951,298
	16	4/15/2002	3,374	2,032	38	0.4541	401,923	50,944	326,081	519,229
	17	4/22/2002	293	0	--	0.3797	124,551	51,941	44,486	263,180
	18	4/29/2002	702	449	7	0.5714	98,186	26,584	54,697	151,856
	19	5/6/2002	75	0	--	0.2857	48,059	39,982	14,712	159,390
	Total						2,202,445	170,844	1,899,029	2,554,716
Kinsman	11	3/11/2002	266	0	--	0.0867	103,583	17,868	74,874	144,579
	12	3/18/2002	1,365	0	--	0.5133	109,428	16,670	84,893	151,381
	13	3/25/2002	1,766	945	19	0.5714	152,944	28,800	108,626	227,446
	14	4/1/2002	3,983	0	--	0.4825	167,583	19,032	133,511	212,245
	15	4/8/2002	5,553	2,181	90	0.5714	223,081	22,873	184,863	267,795
	16	4/15/2002	4,358	0	--	0.5714	235,920	37,069	173,370	306,144
	17	4/22/2002	1,505	1,619	30	0.5714	147,174	22,507	109,718	191,587
	18	4/29/2002	6,108	704	78	0.5714	112,312	11,091	90,864	130,642
	19	5/6/2002	2,710	0	--	0.4286	141,837	31,918	82,502	194,704
	20	5/13/2002	0	0	--	0.0000	137,349	48,543	62,370	252,255
	21	5/20/2002	556	0	--	0.2857	116,297	25,441	70,617	173,056
	22	5/27/2002	234	0	--	0.1268	101,256	26,232	62,337	150,938
	Total						1,754,222	104,943	1,565,274	1,958,002

Appendix A4. Mainstem Klamath River weekly age-0 juvenile Chinook Salmon outmigrant abundance estimates and mark-recapture information, 2003.

Trap site	Week	Week starting	Raw catch	Marks released	Marks recovered	Weighted sample fraction	Mean population estimate	SD of population estimate	0.025 bound	0.975 bound
Bogus	11	3/10/2003	2,176	0	--	0.5714	148,567	30,989	115,572	245,858
	12	3/17/2003	3,238	885	29	0.5714	199,564	15,948	171,958	230,985
	13	3/24/2003	1,935	0	--	0.1429	464,863	42,244	378,645	538,129
	14	3/31/2003	2,587	0	--	0.2857	313,230	29,923	245,369	364,533
	15	4/7/2003	2,582	0	--	0.5714	150,300	19,364	106,961	183,347
	16	4/14/2003	567	0	--	0.4286	49,020	8,571	36,373	70,985
	17	4/21/2003	1,173	0	--	0.5714	72,432	11,334	53,480	105,406
	18	4/28/2003	562	458	12	0.5714	35,406	4,455	27,210	45,484
	19	5/5/2003	66	0	--	0.2857	8,927	3,106	6,274	17,527
	20	5/12/2003	0	0	--	0.0000	11,406	35,321	1,203	42,365
	21	5/19/2003	140	0	--	0.5714	6,509	1,374	2,391	8,693
	22	5/26/2003	65	0	--	0.2857	324	142	139	633
Total							1,461,900	93,504	1,318,051	1,610,497
I-5	10	3/3/2003	874	0	--	0.2733	651,675	191,664	328,027	1,006,988
	11	3/10/2003	871	828	1	0.3982	583,747	134,882	367,068	869,140
	12	3/17/2003	1,722	0	--	0.5166	807,551	219,426	470,809	1,279,480
	13	3/24/2003	1,807	719	0	0.3776	1,087,735	150,683	852,699	1,444,735
	14	3/31/2003	548	1,258	4	0.4286	303,101	65,973	195,616	453,876
	15	4/7/2003	262	951	5	0.6126	98,486	26,444	59,104	158,079
	16	4/14/2003	157	0	--	0.5714	64,488	20,174	35,090	118,001
	17	4/21/2003	477	360	5	0.5714	155,087	50,565	65,945	261,606
	18	4/28/2003	321	0	--	0.5714	118,601	31,312	57,093	183,793
	19	5/5/2003	13	442	5	0.4952	6,275	2,240	2,963	11,163
	20	5/12/2003	4	0	--	0.0625	15,510	5,604	7,714	28,760
	21	5/19/2003	28	1,970	10	0.4528	13,870	3,339	8,397	21,346
	22	5/26/2003	44	0	--	0.2193	40,752	12,221	18,066	66,998
Total							3,953,412	526,421	3,146,879	5,087,905
Kinsman	10	3/3/2003	827	0	--	0.4286	157,365	39,561	97,733	273,304
	11	3/10/2003	1,060	0	--	0.5714	156,229	36,054	91,759	250,976
	12	3/17/2003	791	0	--	0.5714	119,259	29,456	78,520	196,749
	13	3/24/2003	635	1,340	21	0.2692	167,742	27,400	114,705	223,891
	14	3/31/2003	9	0	--	0.0375	24,253	9,689	14,857	51,881
	15	4/7/2003	77	0	--	0.1287	46,820	10,503	29,305	73,977
	16	4/14/2003	53	0	--	0.2857	16,862	4,922	11,112	27,967
	17	4/21/2003	105	0	--	0.5714	16,637	5,550	10,805	29,275
	18	4/28/2003	117	557	9	0.5714	16,734	3,161	11,674	24,406
	19	5/5/2003	101	0	--	0.4731	19,300	5,471	12,771	33,680
	20	5/12/2003	199	0	--	0.5714	31,260	8,447	21,023	51,700
	21	5/19/2003	647	0	--	0.5714	90,850	17,792	57,778	132,012
	22	5/26/2003	598	0	--	0.4286	107,946	21,253	66,837	154,774
	23	6/2/2003	2,235	1,997	19	0.5714	223,387	36,197	170,522	304,158
	24	6/9/2003	1,616	0	--	0.4973	143,065	31,996	103,143	219,141
	25	6/16/2003	311	0	--	0.0966	223,983	47,701	156,245	351,156
	26	6/23/2003	98	0	--	0.1020	90,799	27,974	59,501	167,460
Total							1,656,399	212,235	1,334,847	2,265,347

Appendix A5. Mainstem Klamath River weekly age-0 juvenile Chinook Salmon outmigrant abundance estimates and mark-recapture information, 2004.

Trap site	Week	Week starting	Raw catch	Marks released	Marks recovered	Weighted sample fraction	Mean population estimate	SD of population estimate	0.025 bound	0.975 bound
Bogus	11	3/8/2004	2,892	0	--	0.4286	522,808	315,495	188,917	1,310,471
	12	3/15/2004	11,429	2,077	50	0.5714	941,764	89,399	788,409	1,114,267
	13	3/22/2004	12,094	0	--	0.4286	2,341,826	512,691	1,630,572	3,544,179
	14	3/29/2004	6,078	0	--	0.5714	998,529	464,140	399,753	2,160,000
	15	4/5/2004	6,658	0	--	0.5714	607,097	235,842	335,331	1,108,383
	16	4/12/2004	6,651	3,342	14	0.5352	2,666,334	661,124	1,745,016	3,901,080
	17	4/19/2004	1,369	0	--	0.4785	406,615	229,380	108,210	899,287
	18	4/26/2004	255	1,433	25	0.4428	36,855	7,517	25,080	54,415
	19	5/3/2004	230	0	--	0.5665	44,112	26,472	10,348	115,036
	20	5/10/2004	172	0	--	0.3546	40,087	25,568	8,374	101,414
Total							8,612,885	1,569,926	6,209,338	11,134,548
I-5	11	3/8/2004	798	0	--	0.2811	147,276	41,693	80,609	229,637
	12	3/15/2004	4,529	0	--	0.4671	408,763	77,262	295,853	572,334
	13	3/22/2004	8,767	2,100	70	0.5203	603,442	47,202	525,049	694,194
	14	3/29/2004	10,716	0	--	0.5714	942,101	94,411	752,662	1,111,853
	15	4/5/2004	11,056	4,381	99	0.5714	863,852	78,683	726,201	1,027,090
	16	4/12/2004	6,150	0	--	0.4928	549,989	59,852	430,876	669,572
	17	4/19/2004	959	2,838	35	0.4145	181,826	33,356	129,645	254,807
	18	4/26/2004	84	0	--	0.1382	45,491	15,323	23,128	83,610
	19	5/3/2004	15	0	--	0.0745	9,484	3,792	4,185	19,091
Total							3,761,549	178,403	3,435,559	4,103,991
Kinsman	11	3/8/2004	473	0	--	0.4286	139,717	103,485	34,942	407,448
	12	3/15/2004	688	0	--	0.5695	260,353	160,905	59,354	587,104
	13	3/22/2004	985	0	--	0.5714	186,843	80,879	39,772	318,567
	14	3/29/2004	485	2,106	42	0.5714	46,571	7,810	33,049	64,359
	15	4/5/2004	237	0	--	0.5714	77,777	34,857	32,316	167,164
	16	4/12/2004	425	3,483	22	0.5409	118,408	24,864	80,533	177,621
	17	4/19/2004	151	0	--	0.5136	49,099	26,818	14,114	117,325
	18	4/26/2004	74	0	--	0.4541	41,801	28,115	8,458	114,646
	19	5/3/2004	423	0	--	0.4584	60,924	32,238	18,392	146,475
	20	5/10/2004	1,064	0	--	1.0000	48,947	31,161	11,913	114,943
	21	5/17/2004	526	0	--	0.7277	52,706	25,350	18,045	110,974
	22	5/24/2004	389	0	--	1.0000	35,706	16,211	14,042	78,495
	23	5/31/2004	498	0	--	1.0000	35,610	22,631	4,790	90,382
	24	6/7/2004	806	0	--	1.0000	47,708	30,236	4,954	112,857
	25	6/14/2004	1,429	0	--	1.0000	16,148	9,159	3,954	34,009
	26	6/21/2004	213	0	--	0.8134	25,173	17,317	4,497	71,585
	27	6/28/2004	24	0	--	0.5714	14,390	16,704	1,174	64,083
Total							1,257,882	156,675	1,009,679	1,574,147

Appendix A6. Mainstem Klamath River weekly age-0 juvenile Chinook Salmon outmigrant abundance estimates and mark-recapture information, 2005.

Trap site	Week	Week starting	Raw catch	Marks released	Marks recovered	Weighted sample fraction	Mean population estimate	SD of population estimate	0.025 bound	0.975 bound
Bogus	10	2/28/2005	173	0	--	0.0646	89,096	15,812	60,612	126,553
	11	3/7/2005	1,492	0	--	0.3621	137,308	19,455	106,348	180,373
	12	3/14/2005	3,373	1,898	46	0.5714	209,841	28,568	168,681	273,923
	13	3/21/2005	1,299	0	--	0.5714	78,292	13,183	59,102	113,401
	14	3/28/2005	4,471	1,560	64	0.5714	227,766	22,054	185,746	274,225
	15	4/4/2005	5,425	0	--	0.5714	325,193	53,147	238,883	465,310
	16	4/11/2005	1,493	0	--	0.5714	86,062	12,671	63,684	118,001
	17	4/18/2005	296	2,247	74	0.5714	16,615	1,726	13,592	20,388
	18	4/25/2005	1,248	0	--	0.5145	79,334	16,495	48,113	121,013
	19	5/2/2005	356	0	--	0.2857	42,392	8,399	30,893	65,623
Total							1,297,611	109,176	1,094,213	1,548,241
I-5	11	3/7/2005	31	0	--	0.0325	166,676	63,949	66,741	316,730
	12	3/14/2005	314	0	--	0.4689	106,155	49,812	31,904	209,933
	13	3/21/2005	55	0	--	0.4860	63,604	40,555	12,679	158,627
	14	3/28/2005	186	0	--	0.5714	76,837	37,803	31,470	177,970
	15	4/4/2005	257	2,142	11	0.5714	82,097	20,911	51,140	134,109
	16	4/11/2005	174	2,154	4	0.5047	102,921	49,516	53,322	238,719
	17	4/18/2005	77	0	--	0.3385	45,045	21,704	14,438	100,545
	18	4/25/2005	139	4,113	56	0.4286	26,092	3,751	19,449	34,122
	19	5/2/2005	12	0	--	0.2017	19,973	11,587	5,567	50,101
Total							697,814	161,442	439,226	1,037,030
Kinsman	11	3/7/2005	103	0	--	0.1513	127,564	95,171	21,554	371,279
	12	3/14/2005	82	0	--	0.2096	66,897	64,802	15,539	296,369
	13	3/21/2005	40	0	--	0.2515	43,676	43,328	8,168	159,027
	14	3/28/2005	204	0	--	0.4148	58,763	30,165	10,715	125,246
	15	4/4/2005	280	0	--	0.4839	71,373	54,658	16,777	242,107
	16	4/11/2005	267	2,030	45	0.5341	24,928	4,117	18,383	34,611
	17	4/18/2005	94	1,614	6	0.5714	41,148	23,268	21,160	76,620
	18	4/25/2005	135	4,145	30	0.4801	39,534	7,285	27,255	55,741
	19	5/2/2005	316	4,019	24	0.2857	163,880	30,021	116,185	231,620
	20	5/9/2005	14	0	--	0.1250	24,036	18,572	4,257	73,773
	21	5/16/2005	8	0	--	0.1218	16,290	11,418	3,663	46,975
	22	5/23/2005	131	0	--	0.1189	56,614	25,300	28,728	117,629
	23	5/30/2005	245	0	--	0.4286	38,637	20,889	6,989	86,892
	24	6/6/2005	74	0	--	0.0985	16,028	11,698	1,896	44,693
	25	6/13/2005	155	0	--	0.0984	11,840	8,290	1,017	31,629
	26	6/20/2005	100	0	--	0.1528	20,940	13,742	3,265	56,086
	27	6/27/2005	70	0	--	0.1967	14,877	12,580	1,684	55,869
	28	7/4/2005	5	0	--	0.1048	7,818	6,212	894	23,597
Total							844,844	198,436	599,725	1,336,495

Appendix A7. Mainstem Klamath River weekly age-0 juvenile Chinook Salmon outmigrant abundance estimates and mark-recapture information, 2006. Note: While these estimates are included for completeness, high flows throughout the 2006 sampling season resulted in small catches and poor trap efficiency at all three trap sites. Thus, the weekly and whole-season abundance estimates are highly uncertain and should not be used for statistical analysis or any sort of inference.

Trap site	Week	Week starting	Raw catch	Marks released	Marks recovered	Weighted sample fraction	Mean population estimate	SD of population estimate	0.025 bound	0.975 bound
Bogus	11	3/13/2006	46	0	--	0.2857	30,838	29,076	8,422	114,586
	12	3/20/2006	135	0	--	0.4286	36,146	19,847	13,037	90,623
	13	3/27/2006	261	3,868	31	0.5714	50,863	8,891	36,033	70,435
	14	4/3/2006	114	0	--	0.4286	25,716	10,935	10,745	52,978
	15	4/10/2006	0	0	--	0.0000	22,490	19,504	4,665	63,146
	16	4/17/2006	10	0	--	0.0817	14,307	7,820	6,053	32,472
	17	4/24/2006	135	5,992	70	0.5714	19,558	2,559	15,088	25,118
	18	5/1/2006	56	4,995	109	0.5714	4,949	702	3,699	6,467
	19	5/8/2006	40	0	--	0.5714	6,543	3,216	2,443	14,114
	Total						226,270	63,470	149,933	380,361
I-5	11	3/13/2006	5	0	--	0.0000	15,812	37,978	279	135,088
	12	3/20/2006	10	0	--	0.4082	9,416	14,765	479	60,505
	13	3/27/2006	18	0	--	0.5714	7,916	12,582	746	32,316
	14	4/3/2006	1	0	--	0.4286	5,479	4,459	905	15,992
	15	4/10/2006	0	0	--	0.0000	6,450	14,496	982	18,432
	16	4/17/2006	0	0	--	0.0000	5,581	4,547	817	15,479
	17	4/24/2006	0	0	--	0.0000	6,132	4,328	898	15,778
	18	5/1/2006	3	4,969	5	0.5714	7,001	3,672	2,055	16,093
	19	5/8/2006	1	4,987	2	0.4286	8,355	4,626	2,351	20,370
	20	5/15/2006	0	0	--	0.0000	10,093	6,395	2,107	25,525
	21	5/22/2006	3	0	--	0.0000	15,913	12,027	4,522	46,786
	22	5/29/2006	3	0	--	0.0000	22,501	21,555	5,780	79,430
	23	6/5/2006	6	0	--	0.0000	40,671	78,264	7,617	199,661
	24	6/12/2006	5	0	--	0.0000	41,194	42,079	8,238	168,798
	25	6/19/2006	8	0	--	0.0000	53,762	54,225	10,469	212,091
	26	6/26/2006	3	0	--	0.0000	76,714	112,263	9,767	365,528
	27	7/3/2006	2	0	--	0.0000	131,669	323,524	10,552	725,722
	Total						474,631	510,544	132,764	1,598,335
Kinsman	12	3/20/2006	1	0	--	0.4286	1,119	1,205	61	4,211
	13	3/27/2006	0	0	--	0.5714	378	490	6	1,614
	14	4/3/2006	0	0	--	0.2857	405	516	11	1,671
	15	4/10/2006	0	0	--	0.0000	3,611	61,916	25	14,028
	16	4/17/2006	0	0	--	0.2857	774	1,115	24	3,420
	17	4/24/2006	2	5,989	4	0.5714	3,305	2,579	636	10,234
	18	5/1/2006	1	0	--	0.4286	2,745	2,979	451	10,717
	19	5/8/2006	0	4,990	7	0.5649	2,184	2,283	81	7,879
	20	5/15/2006	4	0	--	0.2286	16,549	9,037	4,638	38,755
	21	5/22/2006	8	0	--	0.1429	51,046	30,642	11,432	138,095
	22	5/29/2006	6	0	--	0.1429	57,893	54,942	17,048	136,689
	23	6/5/2006	39	0	--	0.0841	344,180	153,093	59,944	576,929
	24	6/12/2006	40	0	--	0.0314	561,088	240,078	146,824	1,031,289
	25	6/19/2006	51	0	--	0.0234	1,586,141	659,097	386,930	2,682,426
	26	6/26/2006	29	0	--	0.0174	742,416	317,267	351,183	1,597,655
	27	7/3/2006	20	0	--	0.0260	808,518	411,722	286,842	2,067,248
	28	7/10/2006	2	0	--	0.0290	333,830	1,025,087	33,587	4,021,980
	Total						4,527,176	1,336,868	2,246,506	7,599,336

Appendix A8. Mainstem Klamath River weekly age-0 juvenile Chinook Salmon outmigrant abundance estimates and mark-recapture information, 2007.

Trap site	Week	Week starting	Raw catch	Marks released	Marks recovered	Weighted sample fraction	Mean population estimate	SD of population estimate	0.025 bound	0.975 bound
Bogus	11	3/12/2007	436	0	--	0.2857	339,108	218,062	89,721	990,189
	12	3/19/2007	1,293	0	--	0.5714	437,863	180,663	175,673	843,512
	13	3/26/2007	526	3,917	26	0.5714	156,837	40,874	100,170	257,498
	14	4/2/2007	3,517	0	--	0.5714	246,547	93,864	131,043	451,732
	15	4/9/2007	3,908	0	--	0.5714	396,176	180,488	129,291	693,996
	16	4/16/2007	1,318	3,696	71	0.5714	124,241	14,535	98,390	154,381
	17	4/23/2007	230	0	--	0.5714	86,577	58,082	9,994	229,429
	18	4/30/2007	131	0	--	0.5714	46,100	29,056	11,288	122,200
	19	5/7/2007	146	0	--	0.5714	39,130	27,738	11,415	123,849
	20	5/14/2007	66	0	--	0.5714	21,953	22,911	2,885	94,484
Total							1,902,153	307,053	1,358,172	2,493,130
I-5	11	3/12/2007	16	0	--	0.2177	22,766	5,677	14,060	35,272
	12	3/19/2007	33	0	--	0.4714	21,752	5,384	13,571	34,222
	13	3/26/2007	53	0	--	0.5714	28,706	6,843	18,338	45,093
	14	4/2/2007	414	3,924	15	0.5714	208,851	33,007	139,228	278,827
	15	4/9/2007	993	0	--	0.5714	520,999	91,693	370,971	721,280
	16	4/16/2007	357	4,971	18	0.5714	183,990	28,142	136,004	243,880
	17	4/23/2007	232	7,872	29	0.5516	123,272	16,960	92,725	158,289
	18	4/30/2007	120	5,209	13	0.5714	67,041	11,814	48,514	95,258
	19	5/7/2007	175	0	--	0.5714	92,023	18,722	59,120	133,543
	20	5/14/2007	279	0	--	0.5714	147,089	27,603	98,792	208,129
	21	5/21/2007	104	0	--	0.1429	221,783	49,115	134,659	339,428
	22	5/28/2007	70	0	--	0.1373	501	453	27	1,709
	23	6/4/2007	386	0	--	0.1429	12,773	3,534	7,363	20,301
Total							1,673,530	190,908	1,291,549	2,071,508
Kinsman	11	3/12/2007	14	0	0	0.2028	19,834	35,467	4,022	145,428
	12	3/19/2007	25	0	0	0.1970	26,220	20,757	9,030	93,679
	13	3/26/2007	83	0	--	0.4723	29,161	15,376	9,400	69,326
	14	4/2/2007	282	0	--	0.5576	86,013	36,330	19,875	167,248
	15	4/9/2007	1,174	3,915	29	0.5082	289,583	46,288	210,214	383,018
	16	4/16/2007	411	0	--	0.5714	82,290	28,576	31,768	143,001
	17	4/23/2007	239	5,185	39	0.5714	57,079	8,842	41,706	76,206
	18	4/30/2007	133	0	--	0.5714	38,182	19,552	7,645	87,573
	19	5/7/2007	156	0	--	0.5714	42,328	21,942	13,827	99,841
	20	5/14/2007	284	0	--	0.5714	73,460	30,225	33,881	149,448
	21	5/21/2007	137	0	--	0.1339	89,781	35,274	40,442	162,848
	22	5/28/2007	190	0	--	0.2668	55,848	24,494	19,224	113,158
	23	6/4/2007	250	0	--	0.1330	9,312	8,750	527	34,249
	24	6/11/2007	200	0	--	0.2652	2,591	2,321	158	8,704
	25	6/18/2007	53	0	--	0.1322	17,065	15,570	7	55,250
	26	6/25/2007	93	0	--	0.2640	3,954	4,561	0	16,686
	27	7/2/2007	2	0	--	0.1318	1,279	1,687	0	6,082
Total							923,980	75,492	795,367	1,094,315

Appendix A9. Mainstem Klamath River weekly age-0 juvenile Chinook Salmon outmigrant abundance estimates and mark-recapture information, 2008.

Trap site	Week	Week starting	Raw catch	Marks released	Marks recovered	Weighted sample fraction	Mean population estimate	SD of population estimate	0.025 bound	0.975 bound
Bogus	11	3/10/2008	81	0	--	0.1429	75,691	36,843	35,726	167,767
	12	3/17/2008	590	0	--	0.4286	160,478	46,658	99,965	277,789
	13	3/24/2008	2,431	0	--	0.5714	310,839	58,665	203,299	454,559
	14	3/31/2008	2,266	3,975	33	0.5714	428,850	68,661	315,198	580,992
	15	4/7/2008	4,110	0	--	0.5714	481,693	79,076	327,039	629,899
	16	4/14/2008	1,751	4,047	37	0.5714	374,843	54,530	283,951	502,209
	17	4/21/2008	2,548	0	--	0.5714	422,241	70,848	307,753	587,988
	18	4/28/2008	3,132	4,978	100	0.5714	300,497	23,172	258,357	346,412
	19	5/4/2008	2,218	0	--	0.5714	272,340	42,542	199,547	375,233
	20	5/12/2008	1,100	0	--	0.5714	160,970	49,364	100,227	299,189
	21	5/19/2008	238	0	--	0.5714	50,137	18,734	24,047	101,941
Total							3,051,588	239,208	2,712,995	3,591,705
I-5	11	3/10/2008	102	0	--	0.2125	51,149	20,205	19,228	107,343
	12	3/17/2008	168	0	--	0.4698	42,910	12,984	26,285	78,925
	13	3/24/2008	463	0	--	0.5714	87,428	24,163	46,268	141,590
	14	3/31/2008	320	0	--	0.5714	70,172	27,943	40,537	158,883
	15	4/7/2008	606	5,946	48	0.5714	122,648	15,170	98,256	157,449
	16	4/14/2008	481	0	--	0.5714	102,254	29,081	63,063	173,787
	17	4/21/2008	568	6,261	59	0.6584	95,795	11,198	77,287	120,459
	18	4/28/2008	883	0	--	0.6451	161,545	45,065	107,650	282,352
	19	5/4/2008	1,995	0	--	0.5714	331,818	75,022	183,205	471,089
	20	5/12/2008	2,668	0	--	0.6988	348,306	65,957	197,483	473,353
	21	5/19/2008	2,829	0	--	0.7016	355,045	81,661	219,277	501,971
	22	5/26/2008	821	0	--	0.1656	512,024	115,426	338,770	862,850
	23	6/2/2008	36	0	--	0.0296	182,130	73,389	100,850	368,727
Total							2,475,442	267,209	2,029,615	3,113,429
Kinsman	11	3/10/2008	159	0	--	0.3872	28,995	10,721	11,861	53,324
	12	3/17/2008	153	0	--	0.5714	24,730	8,091	12,092	42,968
	13	3/24/2008	483	0	--	0.5714	52,531	20,875	22,554	97,187
	14	3/31/2008	241	0	--	0.5714	36,122	11,907	17,603	65,289
	15	4/7/2008	275	5,854	53	0.5714	51,336	7,252	38,954	67,506
	16	4/14/2008	283	0	--	0.5714	48,539	17,729	24,761	93,426
	17	4/21/2008	519	5,989	68	0.5714	77,918	9,191	62,004	97,313
	18	4/28/2008	290	0	--	0.4672	63,033	18,379	33,953	105,446
	19	5/4/2008	588	5,863	128	0.5714	50,728	4,726	42,204	60,783
	20	5/12/2008	849	0	--	0.5492	173,443	47,153	97,715	272,804
	21	5/19/2008	4,917	0	--	0.5714	337,196	66,161	229,190	492,724
	22	5/26/2008	5,784	0	--	0.4021	941,485	159,005	655,063	1,249,172
	23	6/2/2008	3,747	0	--	0.4286	790,820	83,704	637,645	924,894
	24	6/9/2008	2,008	0	--	0.3899	371,946	111,608	227,712	654,690
	25	6/16/2008	1,484	0	--	0.2612	388,263	92,050	254,011	574,161
	26	6/23/2008	0	0	--	0.0000	224,521	191,478	41,423	674,826
	27	6/30/2008	176	0	--	0.1395	88,183	90,390	13,090	298,580
	28	7/7/2008	0	0	--	0.0000	23,336	28,928	2,889	85,315
	29	7/14/2008	3	0	--	0.1429	2,009	1,295	639	4,958
Total							3,792,857	331,616	3,296,587	4,524,825

Appendix A10. Mainstem Klamath River weekly age-0 juvenile Chinook Salmon outmigrant abundance estimates and mark-recapture information, 2009.

Trap site	Week	Week starting	Raw catch	Marks released	Marks recovered	Weighted sample fraction	Mean population estimate	SD of population estimate	0.025 bound	0.975 bound
Bogus	11	3/9/2009	195	0	--	0.4286	61,241	40,300	22,805	175,718
	12	3/16/2009	1,195	0	--	0.5714	169,257	66,025	68,797	302,412
	13	3/23/2009	2,477	0	--	0.5714	384,837	124,315	205,924	685,630
	14	3/30/2009	1,380	0	--	0.5714	215,632	66,970	99,798	356,383
	15	4/6/2009	591	0	--	0.5714	158,101	99,460	37,429	370,318
	16	4/13/2009	2,550	1,472	22	0.5714	341,476	62,817	228,920	462,602
	17	4/20/2009	2,077	0	--	0.5714	300,121	91,656	172,771	519,802
	18	4/27/2009	377	0	--	0.5714	73,392	28,938	30,809	145,776
	19	5/4/2009	141	0	--	0.5714	33,641	17,148	14,572	79,631
	20	5/11/2009	115	0	--	0.5714	19,726	10,639	6,559	49,444
Total							1,758,969	175,757	1,446,023	2,130,985
I-5	10	3/2/2009	3	0	--	0.0194	10,606	5,195	4,674	24,510
	11	3/9/2009	118	0	--	0.4286	17,330	5,815	9,561	32,930
	12	3/16/2009	283	0	--	0.5361	27,641	8,499	14,130	46,382
	13	3/23/2009	355	0	--	0.5714	33,562	8,308	18,407	52,553
	14	3/30/2009	224	0	--	0.5714	28,412	10,920	13,933	54,720
	15	4/6/2009	102	0	--	0.5714	24,807	17,431	7,999	66,192
	16	4/13/2009	718	0	--	0.5714	67,975	15,790	35,442	99,017
	17	4/20/2009	1,422	1,899	35	0.5714	127,399	17,306	97,137	168,380
	18	4/27/2009	1,521	0	--	0.5507	122,425	29,021	77,359	182,984
	19	5/4/2009	392	0	--	0.4286	81,963	37,211	39,738	192,223
	20	5/11/2009	722	0	--	0.4971	123,551	51,575	65,354	255,752
	21	5/18/2009	0	0	--	0.0000	216,890	164,399	46,143	554,906
	22	5/25/2009	178	0	--	0.0545	268,684	90,770	150,634	468,371
Total							1,153,217	261,260	765,812	1,720,988
Kinsman	11	3/9/2009	17	0	--	0.4778	3,170	1,482	1,663	7,229
	12	3/16/2009	124	0	--	0.5714	12,930	3,158	6,234	18,912
	13	3/23/2009	145	0	--	0.4503	20,141	4,725	10,897	30,294
	14	3/30/2009	169	0	--	0.5714	20,904	4,810	12,853	33,628
	15	4/6/2009	45	0	--	0.3297	14,213	7,548	7,449	34,356
	16	4/13/2009	295	0	--	0.5714	36,902	8,329	24,004	58,831
	17	4/20/2009	509	0	--	0.5714	60,461	12,221	37,931	94,049
	18	4/27/2009	508	1,683	26	0.5608	62,342	8,313	47,917	82,141
	19	5/4/2009	164	0	--	0.0401	214,300	70,048	105,899	323,927
	20	5/11/2009	1,513	0	--	0.5714	170,605	40,964	105,688	279,632
	21	5/18/2009	1,476	0	--	0.5714	180,048	34,558	122,093	263,567
	22	5/25/2009	1,115	0	--	0.4286	151,604	25,862	94,524	194,428
	23	6/1/2009	410	0	--	0.1429	121,905	53,730	74,657	270,584
Total							1,071,320	87,054	866,552	1,231,569

Appendix A11. Mainstem Klamath River weekly age-0 juvenile Chinook Salmon outmigrant abundance estimates and mark-recapture information, 2010. (Appendix continued on following page)

Trap site	Week	Week starting	Raw catch	Marks released	Marks recovered	Weighted sample fraction	Mean population estimate	SD of population estimate	0.025 bound	0.975 bound
Bogus	11	3/8/2010	441	0	--	0.1429	245,839	46,353	153,920	340,221
	12	3/15/2010	5,457	0	--	0.5714	733,340	91,422	587,445	955,955
	13	3/22/2010	3,167	0	--	0.5714	419,859	72,702	280,481	590,102
	14	3/29/2010	4,268	0	--	0.5714	647,155	164,711	439,918	1,127,817
	15	4/5/2010	8,473	0	--	0.5714	1,068,083	166,893	767,157	1,332,799
	16	4/12/2010	10,254	5,178	46	0.5714	1,724,650	172,995	1,409,660	2,059,915
	17	4/19/2010	3,938	0	--	0.5714	514,149	104,889	324,597	724,056
	18	4/26/2010	433	6,035	96	0.5714	51,809	5,381	42,096	62,646
	19	5/3/2010	186	0	--	0.5714	28,201	8,063	16,976	47,797
	20	5/10/2010	81	0	--	0.5714	11,791	3,135	7,157	19,735
	21	5/17/2010	27	0	--	0.4286	4,981	1,359	2,824	8,267
	22	5/24/2010	5	0	--	0.4286	973	389	421	1,909
	Total						5,462,052	312,024	4,918,377	6,128,206
I-5	11	3/8/2010	171	0	--	0.2857	55,226	30,454	11,662	135,302
	12	3/15/2010	587	0	--	0.5714	79,072	30,058	35,987	143,867
	13	3/22/2010	381	0	--	0.5354	95,047	37,515	41,232	181,551
	14	3/29/2010	444	0	--	0.5714	130,303	57,381	44,387	261,160
	15	4/5/2010	1,480	5,938	79	0.5714	197,297	22,031	158,832	240,948
	16	4/12/2010	2,308	0	--	0.5714	222,913	28,345	174,281	278,032
	17	4/19/2010	2,092	6,123	97	0.5714	226,440	20,696	187,089	267,869
	18	4/26/2010	1,669	0	--	0.5714	143,233	31,613	91,749	215,341
	19	5/3/2010	995	6,262	157	0.5240	79,651	6,709	67,795	93,929
	20	5/10/2010	256	0	--	0.5714	49,663	17,562	20,136	88,760
	21	5/17/2010	238	5,686	56	0.5714	40,280	5,563	30,855	52,527
	22	5/24/2010	47	0	--	0.4768	17,880	8,443	5,844	37,318
	23	5/31/2010	227	0	--	0.3985	17,096	5,469	8,713	31,003
	24	6/7/2010	135	0	--	0.4157	13,220	6,000	4,887	28,453
	25	6/14/2010	147	0	--	0.1443	18,701	10,302	5,282	47,537
	Total						1,410,043	153,557	1,122,191	1,744,526
Kinsman	11	3/8/2010	974	0	--	0.3811	249,752	43,576	183,945	365,595
	12	3/15/2010	2,457	0	--	0.5557	373,966	52,737	272,413	480,139
	13	3/22/2010	1,197	0	--	0.5714	183,161	29,560	133,429	249,137
	14	3/29/2010	803	0	--	0.5714	123,821	20,086	89,711	172,010
	15	4/5/2010	688	0	--	0.5714	109,171	17,322	78,239	150,314
	16	4/12/2010	1,742	6,063	52	0.5714	303,597	32,285	251,325	374,380
	17	4/19/2010	1,844	0	--	0.5654	266,279	37,413	181,839	334,803
	18	4/26/2010	658	0	--	0.4286	129,896	21,698	88,283	176,069
	19	5/3/2010	814	4,976	55	0.5714	126,297	11,893	105,431	151,452
	20	5/10/2010	296	4,989	80	0.5663	38,515	4,965	29,711	48,658
	21	5/17/2010	179	0	--	0.5662	28,919	5,062	19,908	40,853
	22	5/24/2010	103	5,141	68	0.5553	15,511	1,896	12,016	19,427
	23	5/31/2010	334	5,017	57	0.4286	67,568	7,500	54,173	84,052
	24	6/7/2010	271	0	--	0.4254	53,813	9,660	34,073	72,853
	25	6/14/2010	85	0	--	0.2796	20,585	3,904	12,923	28,666
	26	6/21/2010	151	0	--	0.2792	25,926	5,428	15,247	36,928
	27	6/28/2010	45	0	--	0.2805	4,105	1,686	1,285	7,807
	Total						2,120,883	117,094	1,902,066	2,389,156

Appendix A12. Mainstem Klamath River weekly age-0 juvenile Chinook Salmon outmigrant abundance estimates and mark-recapture information, 2011. (Appendix continued on following page)

Trap site	Week	Week started	Raw catch	Marks released	Marks recovered	Weighted sample fraction	Mean population estimate	SD of population estimate	0.025 bound	0.975 bound
Bogus	10	2/28/2011	94	0	--	0.4286	27,798	17,571	10,598	85,991
	11	3/7/2011	231	0	--	0.5714	58,038	24,633	27,871	123,549
	12	3/14/2011	538	0	--	0.5714	110,593	31,589	58,411	180,395
	13	3/21/2011	0	0	--	0.0000	165,327	61,481	73,167	310,631
	14	3/28/2011	533	7,153	40	0.4286	200,363	28,678	151,836	261,518
	15	4/4/2011	646	0	--	0.4286	173,364	39,453	104,568	251,921
	16	4/11/2011	964	4,946	50	0.4286	209,022	25,703	163,399	266,343
	17	4/18/2011	1,553	0	--	0.5714	155,797	48,527	72,734	250,659
	18	4/25/2011	508	4,928	71	0.5714	68,746	8,572	53,030	86,618
	19	5/2/2011	379	0	--	0.5714	59,215	16,670	30,728	97,239
	20	5/9/2011	211	0	--	0.5714	35,737	11,231	18,018	61,186
	21	5/16/2011	64	0	--	0.5714	18,571	7,100	9,059	36,017
	22	5/23/2011	67	0	--	0.5714	13,792	5,055	6,472	26,497
	23	5/30/2011	55	0	--	0.4286	10,765	4,057	4,935	21,074
	24	6/6/2011	39	0	--	0.5714	6,495	2,600	2,980	12,776
	25	6/13/2011	19	0	--	0.5714	3,638	1,460	1,672	7,235
	26	6/20/2011	5	0	--	0.2857	2,019	970	765	4,548
	Total						1,336,319	152,165	1,050,619	1,631,811
I-5	10	2/28/2011	0	0	--	0.2189	557	376	121	1,468
	11	3/7/2011	35	0	--	0.5357	1,114	782	359	2,740
	12	3/14/2011	4	0	--	0.2857	1,262	610	483	2,675
	13	3/21/2011	0	0	--	0.0000	1,622	780	617	3,466
	14	3/28/2011	1	0	--	0.2857	1,851	739	748	3,566
	15	4/4/2011	2	4,105	19	0.4286	1,989	605	958	3,316
	16	4/11/2011	17	0	--	0.4286	3,234	1,249	1,527	6,127
	17	4/18/2011	23	5,009	42	0.5714	4,316	820	2,967	6,161
	18	4/25/2011	9	0	--	0.5714	4,327	1,472	1,981	7,666
	19	5/2/2011	26	4,693	35	0.5714	5,912	1,122	4,045	8,491
	20	5/9/2011	25	0	--	0.5714	6,554	2,214	3,164	11,796
	21	5/16/2011	56	0	--	0.5714	8,500	3,269	3,958	16,133
	22	5/23/2011	73	0	--	0.5714	10,070	3,847	4,991	18,315
	23	5/30/2011	46	0	--	0.4286	11,708	4,513	5,636	22,282
	24	6/6/2011	67	0	--	0.5714	13,442	4,611	6,355	24,768
	25	6/13/2011	63	0	--	0.5714	15,797	6,133	7,358	29,682
	26	6/20/2011	727	0	--	0.5714	18,655	4,125	10,891	27,064
	27	6/27/2011	532	0	--	0.2857	20,206	4,155	13,772	31,225
	28	7/4/2011	554	0	--	0.2857	24,465	4,566	16,764	34,594
	29	7/11/2011	31	0	--	0.1429	43,997	14,081	23,681	77,893
	30	7/18/2011	26	0	--	0.1429	36,393	13,085	16,514	66,809
	Total						235,970	32,953	181,570	307,440
Kinsman	9	2/21/2011	7	0	--	0.1429	35,858	40,893	4,350	146,142
	10	2/28/2011	17	0	--	0.4286	36,032	33,901	7,878	136,366
	11	3/7/2011	12	0	--	0.5714	33,910	35,261	5,971	117,614
	12	3/14/2011	5	0	--	0.1429	36,636	27,380	8,993	117,501
	13	3/21/2011	0	0	--	0.0000	46,154	37,254	8,646	139,349
	14	3/28/2011	13	0	--	0.2857	41,821	24,952	9,983	105,256
	15	4/4/2011	21	3,969	0	0.5714	40,944	25,364	8,293	107,834

Trap site	Week	Week started	Raw catch	Marks released	Marks recovered	Weighted sample fraction	Mean population estimate	SD of population estimate	0.025 bound	0.975 bound
	16	4/11/2011	67	0	--	0.2857	56,565	29,182	16,221	129,154
	17	4/18/2011	109	5,603	9	0.5714	91,632	27,723	51,700	154,991
	18	4/25/2011	19	0	--	0.5714	38,654	21,646	9,041	91,952
	19	5/2/2011	64	0	--	0.4286	60,679	31,714	25,533	150,798
	20	5/9/2011	87	0	--	0.4286	49,445	20,731	19,372	99,568
	21	5/16/2011	31	0	--	0.5714	34,358	15,815	11,554	73,526
	22	5/23/2011	29	0	--	0.5714	31,639	15,570	9,432	69,050
	23	5/30/2011	6	0	--	0.4286	24,256	13,681	6,418	58,588
	24	6/6/2011	32	0	--	0.5714	31,660	17,219	10,452	73,869
	25	6/13/2011	31	0	--	0.5714	27,453	17,018	8,633	67,384
	26	6/20/2011	28	0	--	0.4286	26,232	15,683	8,187	67,354
	27	6/27/2011	246	0	--	0.1429	9,457	3,825	2,772	17,338
	28	7/4/2011	168	0	--	0.2857	21,247	7,596	8,507	39,007
	29	7/11/2011	26	0	--	0.2857	21,689	10,301	7,581	48,443
	30	7/18/2011	24	0	--	0.2857	13,654	6,253	5,014	30,274
	31	7/25/2011	3	0	--	0.1429	13,412	9,426	3,861	35,890
Total							823,386	234,683	492,902	1,417,252

Appendix A13. Mainstem Klamath River weekly age-0 juvenile Chinook Salmon outmigrant abundance estimates and mark-recapture information, 2012.

Trap site	Week	Week starting	Raw catch	Marks released	Marks recovered	Weighted sample fraction	Mean population estimate	SD of population estimate	0.025 bound	0.975 bound
Bogus	11	3/12/2012	759	0	--	0.2857	660,298	196,671	448,125	1,177,339
	12	3/19/2012	1,533	0	--	0.5714	605,895	145,330	394,177	977,081
	13	3/26/2012	3,193	0	--	0.5714	1,052,281	202,741	704,702	1,418,912
	14	4/2/2012	1,113	3,952	28	0.4286	476,567	70,466	353,010	617,849
	15	4/9/2012	2,019	0	--	0.5714	676,114	126,691	462,716	1,009,912
	16	4/16/2012	4,302	3,915	23	0.5714	1,313,878	205,615	904,412	1,667,124
	17	4/23/2012	2,282	0	--	0.4286	948,497	171,601	658,663	1,333,142
	18	4/30/2012	610	0	--	0.5714	250,310	77,252	155,427	465,865
	19	5/7/2012	546	5,188	22	0.5714	211,053	36,432	152,548	293,750
	20	5/14/2012	605	0	--	0.5714	210,763	49,542	129,592	335,601
	21	5/21/2012	200	0	--	0.5714	73,472	20,166	44,346	128,284
	22	5/28/2012	42	0	--	0.5714	17,459	7,370	9,785	36,835
	Total						6,509,651	656,715	5,253,707	7,933,029
I-5	11	3/12/2012	32	0	--	0.4286	34,134	38,167	4,615	135,188
	12	3/19/2012	34	0	--	0.5714	28,621	23,263	5,473	92,717
	13	3/26/2012	57	0	--	0.3173	48,530	34,421	10,128	133,402
	14	4/2/2012	38	0	--	0.3429	48,792	35,454	12,696	131,300
	15	4/9/2012	54	3,961	10	0.5714	40,668	12,732	21,792	71,498
	16	4/16/2012	72	0	--	0.5714	52,472	37,499	12,109	151,576
	17	4/23/2012	55	3,932	2	0.5357	95,736	42,805	42,834	207,150
	18	4/30/2012	123	0	--	0.5714	74,832	51,704	17,331	213,643
	19	5/7/2012	130	0	--	0.5714	80,053	65,076	22,007	285,546
	20	5/14/2012	660	3,969	26	0.4841	203,507	37,854	142,171	293,151
	21	5/21/2012	486	2,763	77	0.5714	33,229	4,340	25,734	42,928
	22	5/28/2012	221	0	--	0.5714	114,600	83,812	15,452	328,795
	23	6/4/2012	245	0	--	0.2857	113,400	82,770	13,129	346,777
	Total						983,207	267,182	580,512	1,656,867
Kinsman	11	3/12/2012	2	0	--	0.2857	8,692	23,391	167	65,908
	12	3/19/2012	4	0	--	0.4286	9,831	24,429	519	53,521
	13	3/26/2012	4	0	--	0.4286	11,332	20,663	670	58,818
	14	4/2/2012	11	0	--	0.2857	16,605	18,406	1,409	70,775
	15	4/9/2012	20	0	--	0.5714	18,261	18,442	2,227	68,446
	16	4/16/2012	31	3,953	2	0.5714	58,935	37,866	22,392	151,686
	17	4/23/2012	2	0	--	0.5714	14,451	16,489	778	56,747
	18	4/30/2012	32	0	--	0.5714	23,282	20,538	2,321	79,825
	19	5/7/2012	27	5,126	6	0.5714	35,493	13,767	17,121	69,315
	20	5/14/2012	28	2,935	10	0.4286	20,116	6,532	10,811	36,071
	21	5/21/2012	92	5,054	61	0.5714	13,717	2,043	10,199	18,124
	22	5/28/2012	91	0	--	0.5714	23,338	27,217	3,133	102,857
	23	6/4/2012	144	0	--	0.5714	27,001	23,080	3,789	86,639
	24	6/11/2012	186	0	--	0.5714	12,554	6,033	3,531	26,833
	25	6/18/2012	761	0	--	0.4286	3,156	1,110	1,235	5,470
	26	6/25/2012	184	0	--	0.2857	1,360	1,176	161	4,625
	27	7/2/2012	14	0	--	0.1429	8,503	9,822	137	37,046
	28	7/9/2012	5	0	--	0.1429	1,637	2,197	12	7,755
	Total						308,262	104,507	180,742	570,472

Appendix A14. Mainstem Klamath River weekly age-0 juvenile Chinook Salmon outmigrant abundance estimates and mark-recapture information, 2013.

Trap site	Week	Week starting	Raw catch	Marks released	Marks recovered	Weighted sample fraction	Mean population estimate	SD of population estimate	0.025 bound	0.975 bound
Bogus	10	3/4/2013	938	0	--	0.4286	336,407	200,951	105,665	772,751
	11	3/11/2013	3,305	0	--	0.5714	475,648	254,955	146,036	1,140,516
	12	3/18/2013	3,039	0	--	0.5714	519,597	143,107	333,512	855,105
	13	3/25/2013	3,396	5,094	71	0.5714	450,146	53,429	352,067	556,655
	14	4/1/2013	13,433	0	--	0.4286	1,770,809	244,359	1,408,005	2,301,603
	15	4/8/2013	10,653	4,515	200	0.5714	426,949	33,486	368,958	492,351
	16	4/15/2013	5,883	0	--	0.5714	535,466	98,308	376,728	753,726
	17	4/22/2013	450	5,003	44	0.5714	96,444	15,606	70,678	130,947
	18	4/29/2013	821	0	--	0.5714	227,477	103,596	101,015	523,945
	19	5/6/2013	683	4,972	11	0.5714	455,071	141,221	261,544	789,028
	20	5/13/2013	88	0	--	0.5714	103,820	84,009	14,040	344,955
	Total						5,417,426	382,581	4,800,541	6,238,289
I-5	10	3/4/2013	322	0	--	0.2857	122,017	59,476	45,371	271,367
	11	3/11/2013	915	0	--	0.3654	133,545	46,491	59,246	246,260
	12	3/18/2013	303	0	--	0.3519	99,379	46,018	35,024	199,889
	13	3/25/2013	207	0	--	0.5714	70,444	38,788	15,079	146,051
	14	4/1/2013	617	6,042	67	0.5714	96,492	11,475	76,256	121,325
	15	4/8/2013	1,299	0	--	0.5714	104,287	29,849	51,417	171,890
	16	4/15/2013	1,423	4,497	114	0.5714	97,657	8,896	81,614	116,676
	17	4/22/2013	356	0	--	0.5714	59,075	18,139	29,462	97,280
	18	4/29/2013	477	0	--	0.5714	59,902	26,694	21,185	141,948
	19	5/6/2013	293	0	--	0.5714	46,634	19,744	20,637	103,729
	20	5/13/2013	260	5,945	81	0.5714	33,903	4,019	26,927	42,876
	21	5/20/2013	64	0	--	0.2857	23,049	10,909	9,053	49,227
	Total						962,877	195,121	668,401	1,389,094
Kinsman	10	3/4/2013	662	0	--	0.1429	744,309	301,949	269,284	1,221,954
	11	3/11/2013	2,562	0	--	0.5714	1,497,672	728,723	620,495	3,012,813
	12	3/18/2013	1,074	0	--	0.5714	849,111	343,179	428,308	1,722,945
	13	3/25/2013	417	4,970	1	0.5714	1,194,143	496,477	453,326	2,335,924
	14	4/1/2013	2,225	0	--	0.5714	446,991	142,607	264,463	867,377
	15	4/8/2013	4,050	4,965	35	0.5714	957,116	177,676	695,105	1,293,574
	16	4/15/2013	3,377	0	--	0.5714	874,660	472,896	337,467	1,658,173
	17	4/22/2013	556	4,902	6	0.5714	617,053	189,708	350,365	1,086,476
	18	4/29/2013	485	0	--	0.5714	266,397	129,990	131,265	647,591
	19	5/6/2013	405	5,286	56	0.5714	72,421	10,809	53,775	97,160
	20	5/13/2013	206	4,941	37	0.5714	52,442	8,899	37,578	72,953
	21	5/20/2013	65	3,701	4	0.5714	79,368	32,594	36,612	161,479
	22	5/27/2013	70	0	--	0.4286	41,573	37,743	9,543	156,156
	Total						7,722,028	840,942	6,193,855	9,451,412

Appendix B. Regression equations used to predict age-0 Chinook Salmon weekly catch proportions (p) in relation to calendar week (t) at each trap site in the mainstem Klamath River, 2000 to 2013, for weeks when traps were not in operation.

Year	Trap site	Trap type	Applicable calendar weeks	Equation	R ²
2004	Bogus	Right bank frame	18, 20	$p = -0.0617t + 1.7305$	0.878
2005	Bogus	Right bank frame	10	$p = 0.0115t + 0.337$	0.315
2006	Bogus	Left bank RST	16	$p = 0.0229t - 0.0804$	0.353
2000	I-5	Right bank RST	13, 14	$p = 1.4288\ln(t) - 3.4963$	0.620
2001	I-5	Right bank RST	20	$p = 0.0123t + 0.2992$	0.037
2003	I-5	Right bank frame	10-13	$p = -0.287\ln(t) + 1.6173$	0.124
2003	I-5	Right bank RST	20	$p = .00012t^{1.7378}$	0.201
2004	I-5	Right bank frame	18, 19	$p = -1.259\ln(t) + 3.8809$	0.747
2005	I-5	Right bank frame	11	$p = 0.0373t - 0.1831$	0.616
2007	I-5	Right bank RST	22, 23	$p = 0.0576t - 0.306$	0.719
2008	I-5	Frame	11, 23	$p = 3.419e^{-0.152t}$	0.500
2008	I-5	Upstream RST	11	$p = 0.0378t - 0.3143$	0.635
2009	I-5	Upstream RST	10, 22	$p = 0.0385e^{0.1262t}$	0.622
2009	I-5	Downstream RST	22	$p = 0.1327\ln(t) + 0.0166$	0.117
2010	I-5	Downstream RST	23-25, 27	$p = 0.002t + 0.314$	0.027
2010	I-5	Upstream RST	23-25, 27	$p = 0.001t^{2.047}$	0.795
2011	I-5	Downstream RST	10	$p = 0.0008t + 0.4883$	0.001
2011	I-5	Upstream RST	10	$p = 0.0443\ln(t) + 0.3658$	0.004
2002	Kinsman	Right bank RST	11, 22	$p = 0.1633t^{0.5477}$	0.372
2003	Kinsman	Right bank RST	14, 15, 25, 26	$p = 0.0376t - 0.2636$	0.530
2004	Kinsman	Right bank frame	18	$p = -0.0333t + 1.394$	0.641
2005	Kinsman	Left bank frame	11-13, 24-27	$p = 0.0388t^{0.6349}$	0.153
2005	Kinsman	Left bank RST	20-22, 24-28	$p = 2.0961t^{-0.523}$	0.059
2005	Kinsman	Right bank frame	11-13	$p = 0.004t + 0.1904$	0.006
2006	Kinsman	Right bank RST	12-14, 16-19, 23-28	$p = 254.52e^{-0.294t}$	0.492
2006	Kinsman	Right bank frame	19	$p = 1 - 254.52e^{-0.294t}$	-
2007	Kinsman	Right bank RST	11-14, 21-27	$p = 0.9763e^{-0.029t}$	0.159
2007	Kinsman	Downstream RST	13, 14, 21-27	$p = 0.0116t + 0.1629$	0.132
2008	Kinsman	Upstream RST	25, 27, 29	$p = 0.8133\ln(t) - 1.7038$	0.852
2009	Kinsman	Downstream RST	19	$p = 1627.5t^{-3.316}$	0.706
2010	Kinsman	Upstream RST	11, 27	$p = 0.6825t^{0.1103}$	0.743

* Catch proportion was calculated by subtracting the estimated catch proportion of the other trap at the site from 100%.

Appendix C. Mainstem Klamath River weekly juvenile salmonid outmigrant trap catch summaries, 2000-2013.

Appendix C1. Mainstem Klamath River weekly juvenile salmonid outmigrant trap catch summary, 2000.

Trap	Calendar week	Sample dates	Mean Q (ft³/s)	Water temperature (F)			Trap days	Chinook Salmon			Coho Salmon			Steelhead			
								Age-0		Age 1+	Age 1 +		Age-0	LM clip	Age-0	Age 1 +	
				Min	Max	Mean		No clip	AD clip		No clip	AD clip				No clip	AD clip
I-5 RST	13	3/21-3/24	3,056	NA	NA	NA	4	409	0	7	0	1	0	0	27	0	
	14	3/27-3/31	2,650	NA	NA	NA	5	70	0	0	1	0	28	0	21	0	
	15	4/3-4/7	2,436	NA	NA	NA	5	48	0	1	1	2	41	0	35	0	
	16	4/10-4/15	2,254	NA	NA	NA	6	216	0	0	0	9	80	0	39	2	
	17	4/17-4/21	2,497	NA	NA	NA	5	947	0	0	1	0	82	0	30	0	
	18	4/24-4/29	3,114	NA	NA	NA	6	1,096	0	0	0	40	49	0	72	0	
	19	5/1-5/6	2,526	NA	NA	NA	6	345	0	0	0	4	47	0	89	0	
	20	5/8-5/13	2,939	NA	NA	NA	6	76	0	0	4	1	17	1	47	1	
	21	5/15-5/20	2,136	NA	NA	NA	6	240	0	0	0	3	15	0	58	0	
	22	5/22-5/26	1,803	NA	NA	NA	5	379	0	2	2	1	2	0	102	0	
	23	5/31-6/1	1,719	NA	NA	NA	1	80	0	0	0	0	0	0	17	0	
I-5 Frame	15	4/5-4/7	2,436	NA	NA	NA	3	276	0	0	3	0	3	1	2	0	
	16	4/11-4/14	2,254	NA	NA	NA	4	165	0	0	2	5	1	0	7	0	
	17	4/18-4/21	2,497	NA	NA	NA	4	182	0	0	1	0	2	2	2	0	
	18	4/25-4/28	3,114	NA	NA	NA	4	133	0	0	4	0	1	5	5	0	
	19	5/2-5/5	2,526	NA	NA	NA	4	90	0	0	5	2	4	7	7	1	
	20	5/9-5/12	2,939	NA	NA	NA	3	18	0	0	3	1	0	0	4	0	
	21	5/16-5/19	2,136	NA	NA	NA	4	19	0	0	0	0	3	0	4	0	
	22	5/23-5/26	1,803	NA	NA	NA	4	33	0	0	1	0	2	0	16	0	
	23	5/31-6/1	1,719	NA	NA	NA	2	24	0	0	0	0	0	1	4	0	

Appendix C2. Mainstem Klamath River weekly juvenile salmonid outmigrant trap catch summary, 2001.

Trap	Calendar week	Sample dates	Mean Q (ft ³ /s)	Water Temperature (F)			Trap days	Chinook Salmon			Coho Salmon			Steelhead			
				Min	Max	Mean		Age-0		Age 1+	Age-0	Age 1 +		Age-0	Age 1 +		
								No clip	AD clip			No clip	LM clip		No clip	AD clip	
I-5 RST	10	3/6-3/9	1,283	NA	NA	NA	4	148	0	1	0	0	0	0	0	4	0
	11	3/13-3/16	1,284	NA	NA	NA	4	527	0	2	0	1	0	0	6	0	
	12	3/19-3/23	1,290	NA	NA	NA	5	1,051	0	0	0	2	0	0	16	0	
	13	3/27-3/30	1,300	NA	NA	NA	4	1,347	0	0	0	0	36	0	14	0	
	14	4/3-4/6	1,363	NA	NA	NA	4	185	0	0	0	0	42	0	1	0	
	15	4/10-4/11	1,671	NA	NA	NA	3	64	0	0	0	0	3	0	4	0	
	16	4/17-4/20	1,674	NA	NA	NA	4	371	0	0	0	0	0	0	1	0	
	17	4/23-4/27	1,664	NA	NA	NA	5	1,493	0	0	4	0	9	0	10	0	
	18	4/30-5/4	1,660	NA	NA	NA	5	542	1	0	1	0	25	0	11	0	
	19	5/8-5/11	1,710	NA	NA	NA	2	118	0	0	0	0	5	0	13	0	
20	5/14-5/16	1,884	NA	NA	NA	3	134	0	0	1	0	0	5	5	0		
I-5 Frame	10	3/7-3/9	1,283	NA	NA	NA	3	87	0	0	0	0	0	0	0	0	0
	11	3/13-3/16	1,284	NA	NA	NA	4	531	0	0	0	0	0	0	1	0	
	12	3/20-3/23	1,290	NA	NA	NA	4	1,150	0	0	0	1	0	0	0	0	
	13	3/27-3/30	1,300	NA	NA	NA	4	1,150	0	0	0	0	1	0	4	0	
	14	4/3-4/6	1,363	NA	NA	NA	4	191	0	0	0	0	2	0	0	0	
	15	4/10-4/13	1,671	NA	NA	NA	4	602	0	0	0	0	0	0	0	0	
	16	4/18-4/20	1,674	NA	NA	NA	3	905	0	0	17	0	0	0	1	0	
	17	4/24-4/27	1,664	NA	NA	NA	4	2,063	0	0	92	0	1	1	2	0	
	18	5/1-5/4	1,660	NA	NA	NA	3	179	0	0	17	1	1	3	2	0	
	19	5/8-5/10	1,710	NA	NA	NA	3	34	0	0	4	0	1	5	1	0	

Appendix C3. Mainstem Klamath River weekly juvenile salmonid outmigrant trap catch summary, 2002. (Appendix continued on following page)

Trap	Calendar week	Sample dates	Mean Q (ft ³ /s)	Water Temperature (F)			Trap days	Chinook Salmon			Coho Salmon			Steelhead		
				Min	Max	Mean		Age-0		Age 1+	Age-0	Age 1 +		Age-0	Age 1 +	
								No clip	AD clip			No clip	LM clip		No clip	AD clip
Bogus RST	13	3/26-3/29	2,039	NA	NA	NA	4	165	0	3	0	0	200	0	5	8
	14	4/2-4/5	1,849	NA	NA	NA	4	850	0	0	2	0	1	0	6	5
	15	4/9-4/12	1,789	NA	NA	NA	4	668	0	0	8	1	0	0	0	21
	16	4/16-4/19	1,786	NA	NA	NA	4	181	0	0	0	0	0	0	0	9
	17	4/23-4/26	1,741	NA	NA	NA	4	101	0	0	7	0	1	1	1	5
	18	4/30-5/3	1,431	NA	NA	NA	4	399	0	0	8	0	3	8	1	9
	19	5/7-5/8	1,714	NA	NA	NA	2	4	0	0	0	0	0	0	0	2
Bogus Frame	13	3/28-3/29	2,039	NA	NA	NA	2	994	0	0	34	0	5	0	3	6
	14	4/2-4/5	1,849	NA	NA	NA	4	9,581	0	0	198	0	0	0	10	7
	15	4/9-4/12	1,789	NA	NA	NA	4	9,064	0	0	523	0	0	19	4	18
	16	4/16-4/19	1,786	NA	NA	NA	4	1,985	0	0	93	0	0	13	2	3
	17	4/23-4/26	1,741	NA	NA	NA	4	283	0	0	71	0	0	6	0	7
	18	4/30-5/3	1,431	NA	NA	NA	4	1,310	0	1	450	0	1	148	2	10
	19	5/7-5/8	1,714	NA	NA	NA	2	81	0	0	11	0	0	78	0	0
I-5 RST	11	3/14-3/14	2,446	NA	NA	NA	1	29	0	4	0	0	0	0	0	0
	12	3/19-3/22	2,177	NA	NA	NA	4	195	0	1	0	0	1	0	6	0
	13	3/26-3/29	2,039	NA	NA	NA	3	270	0	0	0	1	89	0	1	0
	14	4/2-4/3	1,849	NA	NA	NA	2	304	0	0	1	0	10	0	3	0
	15	4/9-4/12	1,789	NA	NA	NA	4	1,097	0	0	8	0	1	0	1	0
	16	4/16-4/19	1,786	NA	NA	NA	4	760	0	0	6	1	1	0	5	0
	17	4/25-4/26	1,741	NA	NA	NA	2	148	0	5	6	1	0	0	0	0
	18	4/30-5/3	1,431	NA	NA	NA	4	243	1	2	3	3	16	0	6	1
	19	5/7-5/8	1,714	NA	NA	NA	2	40	0	0	3	2	12	0	2	0
I-5 Frame	11	3/15-3/15	2,446	NA	NA	NA	1	231	0	0	0	0	0	0	1	0
	12	3/20-3/22	2,177	NA	NA	NA	3	503	0	0	2	0	0	0	1	0
	13	3/26-3/29	2,039	NA	NA	NA	4	722	0	0	1	0	1	0	0	0
	14	4/2-4/5	1,849	NA	NA	NA	4	2,001	0	0	133	1	1	0	1	0
	15	4/9-4/12	1,789	NA	NA	NA	4	2,742	0	0	172	3	0	1	1	0
	16	4/16-4/19	1,786	NA	NA	NA	3	2,614	0	0	92	3	0	2	1	0
	17	4/23-4/26	1,741	NA	NA	NA	4	145	0	1	37	0	0	1	1	0
	18	4/30-5/3	1,431	NA	NA	NA	4	459	0	0	243	0	2	18	2	0
	19	5/7-5/8	1,714	NA	NA	NA	2	35	0	0	11	0	1	8	0	0
Kinsman RST	11	3/14-3/14	3,378	NA	NA	NA	1	266	0	0	0	0	0	0	5	0
	12	3/19-3/22	2,994	NA	NA	NA	4	901	0	0	0	2	2	0	38	0
	13	3/26-3/29	2,836	NA	NA	NA	4	1,327	0	0	2	0	0	0	26	0
	14	4/2-4/5	2,936	NA	NA	NA	3	2,201	0	0	4	0	1	0	62	0
	15	4/9-4/12	3,093	NA	NA	NA	4	3,940	0	1	24	0	0	0	33	0
	16	4/16-4/19	3,204	NA	NA	NA	4	3,550	0	5	20	0	0	0	30	0

Trap	Calendar week	Sample dates	Mean Q (ft³/s)	Water Temperature (F)			Trap days	Chinook Salmon			Coho Salmon			Steelhead		
								Age-0		Age 1+	Age 1 +		Age-0	Age 1 +		Age-0
				Min	Max	No clip		AD clip	No clip		LM clip	No clip		AD clip		
															Mean	
Kinsman Frame	17	4/23-4/26	2,681	NA	NA	NA	4	1,437	0	3	21	1	0	0	24	0
	18	4/30-5/3	2,568	NA	NA	NA	4	3,966	0	2	34	0	0	1	27	0
	19	5/7-5/9	2,687	NA	NA	NA	3	2,046	0	0	14	3	1	0	16	1
	21	5/22-5/23	2,151	NA	NA	NA	2	507	0	0	17	0	0	0	6	0
	22	5/29-5/29	2,131	NA	NA	NA	1	234	0	0	9	0	1	0	10	0
	12	3/20-3/22	2,994	NA	NA	NA	3	464	0	0	5	0	0	0	5	0
	13	3/26-3/29	2,836	NA	NA	NA	4	439	0	0	15	0	0	0	4	0
	14	4/2-4/5	2,936	NA	NA	NA	4	1,782	0	0	174	0	0	0	4	0
	15	4/9-4/12	3,093	NA	NA	NA	4	1,613	0	0	378	0	0	0	4	1
	16	4/16-4/19	3,204	NA	NA	NA	4	808	0	0	312	2	0	0	0	0
	17	4/23-4/26	2,681	NA	NA	NA	4	68	0	0	91	0	0	0	0	0
	18	4/30-5/3	2,568	NA	NA	NA	4	2,142	0	0	941	0	0	1	4	0
	19	5/7-5/9	2,687	NA	NA	NA	3	664	0	0	295	0	0	0	3	0
	21	5/22-5/23	2,151	NA	NA	NA	2	49	0	0	19	0	0	3	3	0

Appendix C4. Mainstem Klamath River weekly juvenile salmonid outmigrant trap catch summary, 2003. (Appendix continued on following page)

Trap	Calendar week	Sample dates	Mean Q (ft³/s)	Water Temperature (F)			Trap days	Chinook Salmon			Coho Salmon			Steelhead			
				Min	Max	Mean		Age-0		Age 1+	Age-0	Age 1 +		Age-0	Age 1 +		
								No clip	AD clip			No clip	LM clip		No clip	AD clip	
Bogus Frame	11	3/11-3/14	1,016	NA	NA	NA	4	2,176	0	0	0	0	0	1	0	2	0
	12	3/18-3/21	1,504	NA	NA	NA	4	3,238	0	0	0	0	0	0	8	0	
	13	3/25-3/25	2,494	NA	NA	NA	1	1,935	0	0	0	0	0	0	1	0	
	14	4/3-4/4	3,110	NA	NA	NA	2	2,587	0	0	9	1	1	0	1	0	
	15	4/8-4/11	2,850	NA	NA	NA	4	2,582	0	0	45	0	0	8	6	2	
	16	4/16-4/18	2,896	NA	NA	NA	3	567	0	0	17	0	0	17	1	0	
	17	4/22-4/25	2,561	NA	NA	NA	4	1,173	3	0	61	3	0	152	5	3	
	18	4/29-5/2	2,520	NA	NA	NA	4	562	0	0	29	2	0	163	3	24	
	19	5/7-5/8	3,101	NA	NA	NA	2	66	0	0	3	0	0	54	2	12	
I-5 RST	21	5/20-5/23	1,799	NA	NA	NA	4	140	3	0	11	0	0	123	0	6	
	22	5/28-5/29	1,780	NA	NA	NA	2	65	7	1	1	0	0	39	0	4	
	14	4/2-4/4	3,110	NA	NA	NA	3	38	0	0	1	0	0	0	2	0	
	15	4/8-4/11	2,850	NA	NA	NA	5	88	0	0	4	0	0	1	1	0	
	16	4/15-4/18	2,896	NA	NA	NA	4	24	0	0	0	0	1	0	2	0	
	17	4/22-4/25	2,561	NA	NA	NA	4	66	0	0	0	0	4	1	3	0	
	18	4/29-5/2	2,520	NA	NA	NA	4	32	0	0	0	2	0	0	2	0	
	19	5/6-5/9	3,101	NA	NA	NA	4	7	0	0	0	0	1	0	4	1	
	20	5/13-5/14	2,581	NA	NA	NA	2	4	0	0	0	0	0	0	0	0	
	21	5/20-5/23	1,799	NA	NA	NA	4	6	0	0	0	0	0	0	0	1	
	22	5/28-5/30	1,780	NA	NA	NA	3	23	0	0	0	0	0	0	0	5	
	I-5 Frame	10	3/6-3/7	891	NA	NA	NA	2	874	0	0	0	0	0	0	1	0
11		3/11-3/13	1,016	NA	NA	NA	3	871	0	0	1	0	0	0	0	0	
12		3/18-3/21	1,504	NA	NA	NA	4	1,722	0	0	29	0	0	0	4	0	
13		3/25-3/27	2,494	NA	NA	NA	3	1,807	0	0	110	0	0	0	2	0	
14		4/2-4/4	3,110	NA	NA	NA	3	510	0	0	202	0	0	2	1	0	
15		4/8-4/11	2,850	NA	NA	NA	4	174	0	0	99	0	1	1	1	0	
16		4/15-4/18	2,896	NA	NA	NA	4	133	0	0	38	0	1	11	1	0	
17		4/22-4/25	2,561	NA	NA	NA	4	411	0	0	83	0	0	27	2	0	
18		4/29-5/2	2,520	NA	NA	NA	4	289	0	0	53	0	0	28	2	2	
19		5/7-5/9	3,101	NA	NA	NA	3	6	0	0	3	0	1	1	3	0	
21		5/20-5/22	1,799	NA	NA	NA	3	22	0	0	10	0	1	19	1	0	
22		5/30-5/30	1,780	NA	NA	NA	1	21	0	0	1	0	0	0	5	0	
Kinsman RST	10	3/5-3/7	1,758	NA	NA	NA	3	194	0	0	0	1	0	0	6	0	
	11	3/11-3/14	2,000	NA	NA	NA	4	245	0	0	0	1	0	0	20	0	
	12	3/18-3/21	3,191	NA	NA	NA	4	248	0	0	0	0	0	0	7	0	
	13	3/25-3/25	4,761	NA	NA	NA	1	39	0	0	0	0	0	0	1	0	
	14	4/4-4/4	5,116	NA	NA	NA	1	9	0	0	0	0	0	0	5	0	
	15	4/9-4/11	4,220	NA	NA	NA	3	77	0	0	0	1	0	0	2	0	
	16	4/17-4/18	4,429	NA	NA	NA	2	22	0	0	1	1	0	0	2	0	

Trap	Calendar week	Sample dates	Mean Q (ft ³ /s)	Water Temperature (F)			Trap days	Chinook Salmon			Coho Salmon			Steelhead		
				Min	Max	Mean		Age-0		Age 1+	Age-0	Age 1 +		Age-0	Age 1 +	
								No clip	AD clip			No clip	LM clip		No clip	AD clip
Kinsman Frame	18	4/29-5/2	4,041	NA	NA	NA	4	22	0	1	2	15	4	0	13	0
	19	5/6-5/9	4,531	NA	NA	NA	4	38	0	1	0	6	8	1	23	0
	20	5/13-5/16	3,964	NA	NA	NA	4	43	0	5	2	11	10	0	18	0
	21	5/20-5/23	3,187	NA	NA	NA	4	458	0	1	2	13	7	0	67	1
	22	5/28-5/30	3,583	NA	NA	NA	3	353	1	0	0	0	1	1	23	0
	23	6/3-6/6	3,123	NA	NA	NA	4	1,851	34	0	5	1	0	6	47	2
	24	6/10-6/13	2,506	NA	NA	NA	4	1,375	36	0	6	0	0	5	14	0
	25	6/17-6/17	1,900	NA	NA	NA	1	311	3	0	2	0	0	2	11	0
	26	6/26-6/26	1,552	NA	NA	NA	1	98	0	0	0	0	0	2	2	0
	10	3/5-3/7	1,758	NA	NA	NA	3	633	0	0	2	0	0	0	3	0
	11	3/11-3/14	2,000	NA	NA	NA	4	815	0	0	1	0	0	0	17	0
	12	3/18-3/21	3,191	NA	NA	NA	4	543	0	0	31	0	0	0	4	0
	13	3/25-3/26	4,761	NA	NA	NA	2	596	0	0	65	0	0	0	8	0
	16	4/17-4/18	4,429	NA	NA	NA	2	31	0	0	15	0	0	0	0	0
	17	4/22-4/25	3,901	NA	NA	NA	4	86	0	0	37	3	1	3	4	0
	18	4/29-5/2	4,041	NA	NA	NA	4	95	0	0	17	1	1	31	7	0
	19	5/7-5/9	4,531	NA	NA	NA	3	63	0	0	17	2	0	6	4	0
	20	5/13-5/16	3,964	NA	NA	NA	4	156	0	0	30	0	0	11	5	0
	21	5/20-5/23	3,187	NA	NA	NA	4	189	0	0	35	2	1	12	10	0
	22	5/28-5/30	3,583	NA	NA	NA	3	245	1	0	6	1	0	23	11	0
	23	6/3-6/6	3,123	NA	NA	NA	4	384	6	0	37	1	0	62	19	0
	24	6/10-6/11	2,506	NA	NA	NA	2	241	6	0	8	0	0	65	11	0

Appendix C5. Mainstem Klamath River weekly juvenile salmonid outmigrant trap catch summary, 2004. (Appendix continued on following page)

Trap	Calendar week	Sample dates	Mean Q (ft ³ /s)	Water Temperature (F)			Trap days	Chinook Salmon			Coho Salmon			Steelhead		
				Min	Max	Mean		Age-0		Age 1+	Age-0	Age 1 +		Age-0	Age 1 +	
								No clip	AD clip			No clip	LM clip		No clip	AD clip
Bogus RST	11	3/10-3/12	2,073	NA	NA	NA	3	76	0	1	0	1	0	0	21	1
	12	3/16-3/19	2,161	NA	NA	NA	4	275	0	1	0	2	0	0	22	3
	13	3/24-3/26	2,224	NA	NA	NA	3	472	0	0	1	0	0	0	5	1
	14	3/30-4/2	2,139	NA	NA	NA	4	740	0	0	3	28	642	0	12	4
	15	4/6-4/9	1,947	NA	NA	NA	4	502	0	0	1	0	7	8	4	163
	16	4/13-4/15	1,780	NA	NA	NA	3	1,351	0	0	4	0	10	0	3	80
	17	4/20-4/21	1,734	NA	NA	NA	2	266	0	0	0	0	1	1	5	78
	19	5/4-5/5	1,564	NA	NA	NA	2	59	0	0	1	0	7	0	4	12
	Bogus Frame	11	3/10-3/12	2,073	NA	NA	NA	3	2,816	0	0	0	0	0	0	1
12		3/16-3/19	2,161	NA	NA	NA	4	11,154	0	0	56	0	0	0	8	0
13		3/24-3/26	2,224	NA	NA	NA	3	11,622	0	0	106	0	0	0	5	0
14		3/30-4/2	2,139	NA	NA	NA	4	5,338	0	0	54	3	8	0	2	0
15		4/6-4/9	1,947	NA	NA	NA	4	6,156	0	1	95	0	0	3	0	2
16		4/13-4/16	1,780	NA	NA	NA	4	5,300	0	0	138	0	1	24	0	0
17		4/20-4/23	1,734	NA	NA	NA	4	1,103	0	0	90	0	0	20	0	1
18		4/27-5/1	1,666	NA	NA	NA	5	255	0	0	455	0	0	93	0	0
19		5/2-5/7	1,564	NA	NA	NA	6	171	0	0	122	1	1	146	1	1
I-5 RST	20	5/9-5/13	1,266	NA	NA	NA	5	172	2	0	162	0	0	321	2	5
	11	3/10-3/10	2,073	NA	NA	NA	1	13	0	0	0	0	0	0	0	0
	12	3/18-3/18	2,161	NA	NA	NA	1	337	0	0	0	0	0	0	2	0
	13	3/24-3/26	2,224	NA	NA	NA	3	2,586	0	0	1	0	1	3	9	0
	14	3/30-4/2	2,139	NA	NA	NA	4	6,521	0	0	8	2	164	3	9	0
	15	4/6-4/9	1,947	NA	NA	NA	4	7,294	0	0	2	0	18	0	12	1
	16	4/13-4/15	1,780	NA	NA	NA	3	2,942	0	0	6	0	9	4	8	0
	17	4/20-4/21	1,734	NA	NA	NA	2	363	0	1	1	1	13	16	9	0
	I-5 Frame	11	3/11-3/12	2,073	NA	NA	NA	2	785	0	0	0	0	0	0	1
12		3/16-3/19	2,161	NA	NA	NA	4	4,192	0	0	2	0	0	0	4	0
13		3/23-3/26	2,224	NA	NA	NA	4	6,181	0	0	34	0	0	0	5	0
14		3/30-4/2	2,139	NA	NA	NA	4	4,195	0	0	123	0	4	0	0	0
15		4/6-4/9	1,947	NA	NA	NA	4	3,762	0	0	47	1	2	3	0	0
16		4/13-4/16	1,780	NA	NA	NA	4	3,208	0	0	102	0	1	34	1	0
17		4/20-4/23	1,734	NA	NA	NA	4	596	0	0	17	0	2	32	2	0
18		4/27-4/30	1,666	54.4	62.7	58.2	4	84	0	0	6	0	6	13	3	0
19		5/4-5/6	1,564	52.9	64.1	58.9	3	15	0	0	0	0	5	6	1	1
Kinsman RST	11	3/10-3/12	3,895	NA	NA	NA	3	30	0	0	0	0	0	0	1	0
	12	3/16-3/19	4,003	46.7	50.9	49.3	3	7	0	0	0	0	0	0	1	0
	13	3/23-3/26	3,927	45.9	53.2	50.3	4	108	0	0	0	0	0	0	1	0
	14	3/30-4/2	3,514	48.4	54.3	51.2	4	101	0	0	0	0	0	0	2	0
	15	4/6-4/9	3,265	51.7	56.2	54.4	4	11	0	0	0	1	0	0	1	0
	16	4/13-4/13	3,065	50.9	56.2	53.7	1	8	0	0	0	0	0	0	3	0

Trap	Calendar week	Sample dates	Mean Q (ft ³ /s)	Water Temperature (F)			Trap days	Chinook Salmon			Coho Salmon			Steelhead			
				Min	Max	Mean		Age-0		Age 1+	Age-0	Age 1 +		Age-0	Age 1 +		
								No clip	AD clip			No clip	LM clip		No clip	AD clip	
Kinsman Frame	17	4/20-4/21	2,875	51.2	57.6	53.3	2	17	0	0	0	0	0	0	0	2	0
	19	5/4-5/7	2,914	54.5	61.3	58.4	4	110	0	0	0	2	1	6	8	1	
	20	5/9-5/15	2,340	54.5	63.0	58.0	7	92	0	0	0	2	1	0	50	0	
	21	5/16-5/22	2,199	56.2	63.0	59.6	6	58	0	0	0	0	1	2	35	0	
	22	5/23-5/29	2,055	57.6	66.8	61.2	7	47	1	0	0	0	0	0	38	1	
	23	5/30-6/5	1,910	59.0	68.6	64.2	7	186	1	0	0	0	0	4	14	1	
	24	6/6-6/12	1,685	57.9	66.8	62.3	7	347	4	0	0	0	0	2	41	2	
	25	6/13-6/19	1,464	61.9	72.5	67.2	7	929	21	0	0	0	0	5	58	2	
	26	6/20-6/26	1,225	65.6	74.3	70.1	7	176	2	0	0	0	0	4	59	2	
	27	6/27-7/3	1,133	66.8	76.5	71.4	7	21	0	0	0	0	0	7	12	1	
	11	3/10-3/12	3,895	NA	NA	NA	3	443	0	0	0	0	0	0	4	0	
	12	3/16-3/19	4,003	46.7	50.9	49.3	4	681	0	0	9	0	0	0	6	0	
	13	3/23-3/26	3,927	45.9	53.2	50.3	4	877	0	0	50	0	0	1	6	0	
	14	3/30-4/2	3,514	48.4	54.3	51.2	4	384	0	0	15	1	0	0	1	0	
	15	4/6-4/9	3,265	51.7	56.2	54.4	4	226	0	0	20	0	0	1	2	0	
	16	4/13-4/16	3,065	50.9	56.2	53.7	4	417	0	0	79	0	0	3	5	0	
	17	4/20-4/23	2,875	51.2	57.6	53.3	4	134	0	0	32	0	0	7	1	0	
	18	4/27-4/30	2,894	55.4	59.9	57.7	4	74	0	0	6	3	0	4	12	0	
	19	5/4-5/7	2,914	54.5	61.3	58.4	3	313	0	0	4	0	0	2	10	0	
	20	5/9-5/15	2,340	54.5	63.0	58.0	7	972	0	0	51	2	0	54	17	0	
	21	5/18-5/22	2,199	56.2	63.0	59.6	5	468	0	1	22	0	0	97	21	0	
	22	5/23-5/29	2,055	57.6	66.8	61.2	7	342	0	0	16	0	0	130	27	0	
	23	5/30-6/5	1,910	59.0	68.6	64.2	7	312	2	0	5	0	1	35	24	0	
	24	6/6-6/12	1,685	57.9	66.8	62.3	7	459	0	1	4	0	0	99	42	1	
	25	6/13-6/19	1,464	61.9	72.5	67.2	7	500	18	0	3	1	0	28	36	2	
	26	6/22-6/26	1,225	65.6	74.3	70.1	3	37	0	0	0	0	0	15	6	0	
	27	6/28-6/28	1,133	66.8	76.5	71.4	1	3	0	0	0	0	0	2	0	0	

Appendix C6. Mainstem Klamath River weekly juvenile salmonid outmigrant trap catch summary, 2005. (Appendix continued on following page)

Trap	Calendar week	Sample dates	Mean Q (ft ³ /s)	Water Temperature (F)			Trap days	Chinook Salmon			Coho Salmon			Steelhead		
				Min	Max	Mean		Age-0		Age 1+	Age-0	Age 1 +		Age-0	Age 1 +	
								No clip	AD clip			No clip	LM clip		No clip	AD clip
Bogus Frame	10	3/2-3/2	846	NA	NA	NA	1	173	0	0	0	0	0	3	0	0
	11	3/8-3/10	999	43.0	54.4	48.8	5	1,492	0	1	0	0	0	0	2	0
	12	3/15-3/18	812	39.1	52.2	46.4	8	3,373	0	0	155	0	0	0	3	0
	13	3/22-3/25	833	40.8	51.1	46.5	8	1,299	0	0	47	0	0	0	2	0
	14	3/29-4/1	858	40.8	53.6	47.3	8	4,471	0	0	710	0	0	4	1	0
	15	4/5-4/8	1,110	42.2	56.9	48.2	8	5,425	0	0	935	1	12	41	1	17
	16	4/12-4/15	1,396	41.4	55.8	47.8	8	1,493	0	0	526	4	52	77	1	12
	17	4/19-4/22	1,520	41.1	58.9	50.0	8	296	0	0	31	0	1	60	0	12
	18	4/26-4/29	1,559	47.2	61.4	54.6	7	1,248	0	0	408	0	0	678	11	8
19	5/3-5/4	2,669	50.5	61.1	55.6	4	356	0	0	106	0	2	232	55	31	
I-5 Frame	11	3/11-3/11	999	NA	NA	NA	1	31	0	0	0	0	0	0	0	0
	12	3/15-3/18	812	NA	NA	NA	7	314	0	0	19	0	0	0	4	0
	13	3/22-3/25	833	NA	NA	NA	7	55	0	0	4	0	0	0	1	0
	14	3/29-4/1	858	NA	NA	NA	8	186	0	1	21	0	0	1	10	0
	15	4/5-4/8	1,110	NA	NA	NA	8	257	0	0	69	0	2	4	1	1
	16	4/12-4/15	1,396	NA	NA	NA	7	174	0	0	17	2	2	1	1	1
	17	4/19-4/21	1,520	NA	NA	NA	5	77	0	0	24	1	0	10	0	0
	18	4/26-4/28	1,559	NA	NA	NA	6	139	0	0	75	1	9	50	3	1
	19	5/3-5/4	2,669	NA	NA	NA	3	12	0	0	5	0	3	15	0	0
Kinsman RST	14	3/31-4/1	1,907	NA	NA	NA	2	63	0	0	2	0	0	0	0	0
	15	4/5-4/8	1,912	NA	NA	NA	4	152	0	0	1	0	0	1	0	0
	16	4/12-4/15	2,263	NA	NA	NA	4	174	0	0	3	1	0	0	1	0
	17	4/19-4/22	2,350	NA	NA	NA	4	62	0	0	0	0	0	0	1	0
	18	4/26-4/29	2,572	NA	NA	NA	4	58	0	0	12	6	17	5	11	2
	19	5/3-5/4	3,766	NA	NA	NA	2	78	0	0	52	0	1	31	0	0
	20	5/10-5/11	6,046	NA	NA	NA	2	14	0	0	8	1	0	0	2	0
	21	5/17-5/18	6,559	NA	NA	NA	2	8	0	0	7	2	1	0	8	0
	22	5/24-5/25	5,006	NA	NA	NA	2	131	0	0	3	1	2	0	5	0
	23	6/1-6/3	2,874	NA	NA	NA	3	131	4	0	21	1	0	4	8	0
	24	6/8-6/8	2,090	NA	NA	NA	1	36	1	0	6	0	0	0	2	2
	25	6/14-6/14	1,854	NA	NA	NA	1	108	5	0	5	0	0	0	0	0
	26	6/21-6/22	1,723	NA	NA	NA	2	65	1	0	6	0	0	1	4	0
27	6/28-6/29	1,493	NA	NA	NA	2	56	2	0	16	0	0	2	2	0	

Trap	Calendar week	Sample dates	Mean Q (ft ³ /s)	Water Temperature (F)			Trap days	Chinook Salmon			Coho Salmon			Steelhead		
								Age-0		Age 1+	Age-0	Age 1 +		Age-0	Age 1 +	
				No clip	AD clip	No clip		LM clip	No clip			AD clip				
Kinsman Frame	28	7/6-7/7	1,239	NA	NA	NA	2	5	0	0	19	0	0	4	3	0
	11	3/9-3/11	1,549	NA	NA	NA	5	103	0	2	31	0	0	2	3	0
	12	3/15-3/18	1,396	NA	NA	NA	7	82	0	0	52	5	0	1	9	0
	13	3/22-3/25	1,508	NA	NA	NA	8	40	0	0	51	4	0	0	7	0
	14	3/29-4/1	1,907	NA	NA	NA	7	141	0	0	108	3	0	0	14	0
	15	4/5-4/8	1,912	NA	NA	NA	8	128	0	0	75	2	0	0	21	0
	16	4/12-4/15	2,263	NA	NA	NA	7	93	0	0	100	0	0	0	9	0
	17	4/19-4/22	2,350	NA	NA	NA	8	32	0	2	34	0	0	0	1	2
	18	4/26-4/28	2,572	NA	NA	NA	6	77	0	0	185	2	0	46	11	0
	19	5/3-5/4	3,766	NA	NA	NA	4	238	0	0	149	6	2	86	8	0
	23	6/1-6/3	2,874	NA	NA	NA	6	114	1	3	231	1	0	49	27	0
	24	6/8-6/8	2,090	NA	NA	NA	1	38	2	0	33	0	0	18	1	0
	25	6/14-6/14	1,854	NA	NA	NA	1	47	3	0	29	0	0	3	11	0
	26	6/21-6/21	1,723	NA	NA	NA	1	35	2	0	14	0	0	2	3	0
27	6/28-6/29	1,493	NA	NA	NA	2	14	0	0	27	0	0	7	12	0	

Appendix C7. Mainstem Klamath River weekly juvenile salmonid outmigrant trap catch summary, 2006. (Appendix continued on following page)

Trap	Calendar week	Sample dates	Mean Q (ft ³ /s)	Water Temperature (F)			Trap days	Chinook Salmon			Coho Salmon			Steelhead			
				Min	Max	Mean		Age-0		Age 1+	Age-0	Age 1 +		Age-0	Age 1 +		
								No clip	AD clip			No clip	LM clip		No clip	AD clip	
Bogus RST	11	3/16-3/17	3,563	40.2	42.0	40.9	2	23	0	0	0	0	0	0	0	0	0
	12	3/22-3/24	3,389	41.4	44.7	43.1	3	37	0	0	0	0	0	0	0	1	0
	13	3/28-3/31	3,707	44.1	46.5	45.4	4	64	0	0	0	1	0	0	0	0	0
	14	4/4-4/6	5,287	46.3	48.5	47.5	3	8	0	0	1	0	191	0	1	18	
	16	4/20-4/21	6,876	48.2	51.4	49.5	2	10	0	0	0	4	8	0	1	3	
	17	4/25-4/28	4,751	50.4	57.6	53.3	4	50	0	0	2	1	3	6	4	3	
	18	5/2-5/5	5,363	55.3	60.6	57.5	4	19	0	0	2	0	1	0	2	8	
	19	5/9-5/12	4,357	58.5	61.8	59.7	4	14	0	0	0	1	2	8	1	6	
Bogus Frame	11	3/16-3/17	3,563	40.2	42.0	40.9	2	23	0	0	0	0	0	0	0	0	0
	12	3/22-3/24	3,389	41.4	44.7	43.1	3	98	0	0	1	0	0	0	0	0	0
	13	3/28-3/31	3,707	44.1	46.5	45.4	4	197	0	0	0	0	0	0	0	0	0
	14	4/4-4/6	5,287	46.3	48.5	47.5	3	106	0	0	5	1	2	0	0	0	0
	17	4/25-4/28	4,751	50.4	57.6	53.3	4	85	0	0	6	1	2	6	1	1	
	18	5/2-5/5	5,363	55.3	60.6	57.5	4	37	0	0	7	0	0	0	1	4	
	19	5/9-5/12	4,357	58.5	61.8	59.7	4	26	0	0	0	0	1	13	0	1	
I-5 RST	12	3/23-3/24	3,389	40.2	44.2	41.8	2	1	0	0	0	0	0	0	0	1	0
	13	3/28-3/31	3,707	41.4	46.2	43.5	4	5	0	0	0	0	0	0	0	0	0
	14	4/4-4/6	5,287	44.1	47.4	45.7	3	0	0	0	0	0	2	0	1	0	
	16	4/18-4/21	6,876	47.9	52.5	49.8	4	0	0	0	0	0	0	1	0	0	
	17	4/25-4/28	4,751	50.2	58.7	53.8	4	0	0	0	0	1	3	0	0	0	
	18	5/2-5/5	5,363	55.0	61.1	57.7	4	1	0	0	0	1	0	0	2	1	
	19	5/9-5/11	4,357	57.9	62.8	60.0	3	0	0	0	0	0	4	0	0	0	
	20	5/17-5/18	3,441	59.6	67.0	63.2	2	0	0	0	0	1	0	0	2	0	
	21	5/23-5/23	3,343	61.0	65.8	63.1	1	3	0	0	0	0	0	0	0	0	
	22	5/31-5/31	3,506	59.4	64.7	61.9	1	3	0	0	0	0	0	0	0	0	
	23	6/7-6/7	3,126	60.1	67.2	64.3	1	6	0	0	0	0	0	0	1	0	
	24	6/14-6/14	3,114	63.8	69.8	66.3	1	5	0	0	0	0	0	0	0	0	
	25	6/21-6/21	3,091	65.4	70.9	67.9	1	8	1	0	0	0	0	0	0	0	
	26	6/28-6/28	3,094	67.8	75.2	71.2	1	3	0	0	0	0	0	0	1	0	
	27	7/6-7/7	2,126	70.5	78.0	73.4	2	2	0	0	0	0	0	2	1	0	
	28	7/11-7/12	1,223	70.9	78.7	74.1	2	0	0	0	0	0	0	0	1	0	
I-5 Frame	11	3/13-3/16	3,563	NA	NA	NA	2	5	0	0	0	0	0	0	0	0	0
	12	3/22-3/24	3,389	40.2	44.2	41.8	3	9	0	0	1	0	0	0	0	0	0
	13	3/28-3/31	3,707	41.4	46.2	43.5	4	13	0	0	0	0	0	0	0	0	0
	14	4/4-4/6	5,287	44.1	47.4	45.7	3	1	0	0	1	0	0	0	1	0	0
	17	4/25-4/28	4,751	50.2	58.7	53.8	4	0	0	0	0	0	0	0	1	0	0
	18	5/2-5/5	5,363	55.0	61.1	57.7	4	2	0	0	2	0	0	0	0	0	0
	19	5/9-5/11	4,357	57.9	62.8	60.0	3	1	0	0	0	0	1	0	0	0	0

Trap	Calendar week	Sample dates	Mean Q (ft ³ /s)	Water Temperature (F)			Trap days	Chinook Salmon			Coho Salmon			Steelhead		
				Min	Max	Mean		Age-0		Age 1+	Age-0	Age 1 +		Age-0	Age 1 +	
								No clip	AD clip			No clip	LM clip		No clip	AD clip
Kinsman RST	12	3/22-3/24	5,165	41.4	45.4	43.5	3	1	0	0	0	3	0	0	8	0
	13	3/28-3/31	5,521	42.3	46.8	44.7	4	0	0	1	0	2	0	0	3	0
	14	4/4-4/5	6,728	44.7	48.5	46.6	2	0	0	0	0	1	0	0	1	0
	16	4/20-4/21	8,953	47.4	53.4	50.4	2	0	0	3	0	1	0	0	3	0
	17	4/25-4/28	7,030	50.1	58.5	54.3	4	2	0	0	0	2	0	0	14	0
	18	5/2-5/5	8,014	54.2	60.2	57.2	3	1	0	0	0	6	0	0	6	0
	19	5/9-5/12	6,604	55.8	62.2	59.0	4	0	0	1	0	6	3	0	8	0
	20	5/17-5/18	6,057	57.6	65.1	61.6	2	3	0	0	0	3	0	0	9	0
	21	5/23-5/23	5,604	57.4	62.6	60.2	1	6	0	0	0	0	0	0	1	0
	22	5/31-5/31	5,061	58.2	63.7	61.0	1	2	0	0	0	0	0	0	4	0
	23	6/7-6/8	4,557	60.2	65.9	64.0	2	39	0	0	1	0	0	1	9	0
	24	6/14-6/14	4,251	62.5	68.8	65.2	1	40	1	0	1	0	0	0	5	0
	25	6/21-6/21	3,909	64.6	71.7	67.7	1	51	0	0	1	0	0	2	5	0
	26	6/28-6/28	3,758	67.7	74.7	71.7	1	29	1	0	0	0	0	1	9	0
27	7/6-7/7	2,777	70.8	75.2	73.2	2	20	0	0	1	0	0	4	11	0	
28	7/11-7/13	1,712	70.8	78.6	74.2	3	2	0	0	2	0	0	0	4	0	
Kinsman Frame	19	5/10-5/12	6,604	55.8	62.2	59.0	3	0	0	0	1	1	1	0	2	0
	20	5/18-5/18	6,057	57.6	65.1	61.6	1	1	0	0	0	0	0	0	0	0
	21	5/23-5/23	5,604	57.4	62.6	60.2	1	2	0	0	0	0	0	3	0	0
	22	5/31-5/31	5,061	58.2	63.7	61.0	1	4	0	0	0	0	0	1	1	0

Appendix C8. Mainstem Klamath River weekly juvenile salmonid outmigrant trap catch summary, 2007. (Appendix continued on following page)

Trap	Calendar week	Sample dates	Mean Q (ft³/s)	Water Temperature (F)			Trap days	Chinook Salmon			Coho Salmon			Steelhead			
				Min	Max	Mean		Age-0		Age 1+	Age-0	Age 1 +		Age-0	Age 1 +		
								No clip	AD clip			No clip	LM clip		No clip	AD clip	
Bogus Frame	11	3/15-3/16	3,560	44.3	46.9	45.3	2	436	0	0	0	0	0	0	0	1	0
	12	3/20-3/23	3,856	46.3	51.3	48.5	4	1,293	0	0	0	0	0	0	0	1	0
	13	3/27-3/30	3,484	49.3	51.8	50.4	4	526	0	0	0	0	0	0	0	0	0
	14	4/3-4/6	2,356	50.2	53.6	51.7	4	3,517	0	0	7	0	0	28	0	0	0
	15	4/10-4/13	2,090	50.8	54.8	52.9	4	3,908	0	0	74	0	1	17	3	0	0
	16	4/17-4/20	2,260	51.2	55.0	53.0	4	1,318	0	0	45	0	0	14	1	0	0
	17	4/24-4/27	2,137	51.2	57.0	54.1	4	230	0	0	4	0	4	23	0	0	0
	18	5/1-5/4	1,546	53.2	58.3	55.6	4	131	0	0	0	0	0	17	0	0	0
	19	5/8-5/11	1,620	55.1	63.0	58.6	4	146	0	0	0	0	0	44	0	0	0
	20	5/15-5/18	1,423	58.0	63.7	61.1	4	66	0	0	0	0	1	22	2	0	0
I-5 RST	11	3/15-3/16	3,560	NA	NA	NA	2	11	0	0	0	0	0	0	2	0	0
	12	3/20-3/23	3,856	NA	NA	NA	4	12	0	0	0	0	0	0	2	0	0
	13	3/27-3/30	3,484	NA	NA	NA	4	15	0	0	0	0	0	0	0	0	0
	14	4/3-4/6	2,356	NA	NA	NA	4	200	0	0	0	1	76	0	3	0	0
	15	4/10-4/13	2,090	NA	NA	NA	4	539	0	0	0	0	19	1	8	0	0
	16	4/17-4/20	2,260	NA	NA	NA	4	164	0	0	1	0	28	0	13	0	0
	17	4/24-4/27	2,137	NA	NA	NA	4	207	0	0	0	0	23	0	6	0	0
	18	5/1-5/4	1,546	NA	NA	NA	4	98	0	0	0	0	34	2	6	0	0
	19	5/8-5/11	1,620	NA	NA	NA	4	143	0	0	3	1	33	8	12	0	0
	20	5/15-5/18	1,423	NA	NA	NA	4	229	0	0	3	1	19	5	33	0	0
	21	5/22-5/22	1,419	NA	NA	NA	1	89	0	0	0	0	0	0	10	0	0
	22	5/30-5/30	1,466	NA	NA	NA	1	70	4	0	1	0	0	0	1	0	0
	23	6/5-6/5	1,551	NA	NA	NA	1	386	20	0	4	0	0	6	1	0	0
I-5 Frame	11	3/16-3/16	3,560	NA	NA	NA	1	5	0	0	0	0	0	0	1	0	0
	12	3/20-3/22	3,856	NA	NA	NA	3	21	0	0	0	0	0	0	1	0	0
	13	3/27-3/30	3,484	NA	NA	NA	4	38	0	0	9	0	0	0	0	0	0
	14	4/3-4/6	2,356	NA	NA	NA	4	214	0	0	2	0	0	0	0	0	0
	15	4/10-4/13	2,090	NA	NA	NA	4	454	0	0	20	0	0	1	1	0	0
	16	4/17-4/20	2,260	NA	NA	NA	4	193	0	0	18	0	0	1	3	0	0
	17	4/25-4/27	2,137	NA	NA	NA	3	25	0	0	1	0	2	0	1	0	0
	18	5/1-5/4	1,546	NA	NA	NA	4	22	0	0	0	0	2	3	0	0	0
	19	5/8-5/11	1,620	NA	NA	NA	4	32	0	0	0	0	6	12	4	0	0
	20	5/15-5/18	1,423	NA	NA	NA	4	50	0	0	2	0	9	11	10	0	0
	21	5/22-5/22	1,419	NA	NA	NA	1	15	0	0	2	0	0	0	1	0	0
Kinsman RST	11	3/15-3/16	5,901	43.3	49.7	46.4	2	14	0	0	0	0	0	0	5	0	0
	12	3/22-3/23	5,620	46.6	53.0	49.4	2	25	0	0	3	0	0	0	5	0	0
	13	3/27-3/30	5,002	47.0	53.6	50.5	6	83	0	0	39	0	0	0	17	0	0
	14	4/3-4/6	3,729	48.9	56.5	53.1	8	282	0	0	6	0	9	0	19	0	0

Trap	Calendar week	Sample dates	Mean Q (ft³/s)	Water Temperature (F)			Trap days	Chinook Salmon			Coho Salmon			Steelhead		
								Age-0		Age 1+	Age-0	Age 1 +		Age-0	Age 1 +	
				No clip	AD clip	No clip		LM clip	No clip			AD clip				
	15	4/10-4/13	3,256	49.8	55.5	53.1	7	1,135	0	1	8	3	3	0	28	0
	16	4/17-4/20	3,326	50.7	55.6	52.7	8	388	0	0	14	2	6	0	49	0
	17	4/24-4/27	3,141	50.4	59.4	55.2	8	237	0	1	1	4	20	0	38	0
	18	5/1-5/4	2,599	52.4	60.1	55.7	8	131	0	0	13	6	16	2	59	0
	19	5/8-5/11	2,623	55.2	63.0	60.3	8	147	0	3	17	3	25	0	150	0
	20	5/15-5/18	2,268	58.4	64.8	62.1	8	265	0	0	38	1	6	0	100	0
	21	5/22-5/22	2,089	58.9	67.7	62.8	2	137	0	0	8	0	1	1	24	0
	22	5/30-5/31	2,042	62.9	70.5	67.0	4	190	1	0	10	0	1	0	26	0
	23	6/5-6/5	2,083	61.7	69.9	65.8	2	250	14	0	5	0	0	0	27	1
	24	6/13-6/14	1,965	64.5	71.7	68.2	4	200	23	0	4	0	0	0	45	0
	25	6/19-6/19	1,870	66.8	71.6	69.2	2	53	1	0	6	0	0	1	36	0
	26	6/27-6/28	1,804	66.2	71.7	69.2	4	93	4	0	4	0	0	0	33	0
	27	7/3-7/3	1,418	68.1	79.3	73.2	2	2	0	0	2	0	0	0	13	0
Kinsman Frame	15	4/11-4/13	3,256	49.8	55.5	53.1	3	39	0	0	8	0	0	0	2	0
	16	4/17-4/20	3,326	50.7	55.6	52.7	4	23	0	0	6	0	0	0	2	0
	17	4/24-4/27	3,141	50.4	59.4	55.2	4	2	0	0	3	0	0	0	10	0
	18	5/1-5/4	2,599	52.4	60.1	55.7	4	2	0	0	3	0	0	0	0	0
	19	5/8-5/11	2,623	55.2	63.0	60.3	4	9	0	0	9	0	2	1	9	0
	20	5/15-5/18	2,268	58.4	64.8	62.1	4	19	0	0	4	0	0	0	10	0

Appendix C9. Mainstem Klamath River weekly juvenile salmonid outmigrant trap catch summary, 2008. (Appendix continued on following page)

Trap	Calendar week	Sample dates	Mean Q (ft³/s)	Water Temperature (F)			Trap days	Chinook Salmon			Coho Salmon			Steelhead			
				Min	Max	Mean		Age-0		Age 1+	Age-0	Age 1 +		Age-0	Age 1 +		
								No clip	AD clip			No clip	LM clip		No clip	AD clip	
Bogus Frame	11	3/13-3/13	2,340	40.1	44.0	41.8	1	81	0	0	0	0	0	0	0	0	0
	12	3/19-3/21	2,664	43.1	45.4	44.0	3	590	0	0	0	0	0	0	0	0	0
	13	3/25-3/28	2,417	44.1	46.8	45.4	4	2,431	0	0	3	0	0	0	1	0	0
	14	4/1-4/4	2,913	44.9	47.9	46.0	4	2,266	0	0	0	0	2	0	4	0	0
	15	4/8-4/11	2,924	45.7	49.8	47.5	4	4,110	0	0	12	0	8	0	3	7	0
	16	4/15-4/18	2,893	48.1	52.2	50.1	4	1,751	0	0	71	0	0	0	0	0	0
	17	4/22-4/25	2,870	48.7	51.8	49.8	4	2,548	0	0	86	0	0	0	0	0	0
	18	4/29-5/2	2,967	50.3	54.9	52.1	4	3,132	0	0	66	0	0	1	0	0	0
	19	5/6-5/9	2,370	52.7	56.7	55.0	4	2,218	0	0	142	0	0	54	2	0	0
	20	5/13-5/16	2,009	55.1	62.1	57.9	4	1,100	0	0	56	0	0	62	0	0	0
21	5/20-5/23	1,951	58.2	64.2	61.3	4	238	0	0	2	0	0	46	1	0	0	
I-5 RST	11	3/12-3/13	2,340	40.3	45.1	42.5	2	58	0	0	0	0	0	0	1	0	0
	12	3/18-3/21	2,664	42.9	47.5	44.5	7	134	0	0	0	0	0	0	4	0	0
	13	3/25-3/28	2,417	44.2	48.1	46.0	8	239	0	0	0	0	0	0	4	0	0
	14	4/1-4/4	2,913	44.7	48.8	46.4	8	179	0	0	0	0	18	0	3	0	0
	15	4/8-4/11	2,924	46.0	51.0	47.9	8	328	0	0	0	0	20	0	3	1	0
	16	4/15-4/18	2,893	48.3	53.0	50.3	8	299	0	0	6	0	4	0	4	0	0
	17	4/21-4/25	2,870	48.4	53.1	50.0	10	375	0	0	0	1	16	0	5	1	0
	18	4/28-5/2	2,967	50.6	55.6	52.5	10	504	0	0	0	0	1	0	3	0	0
	19	5/6-5/9	2,370	52.6	58.6	55.5	8	1,383	0	0	11	0	2	1	11	0	0
	20	5/12-5/16	2,009	54.7	65.0	58.6	10	2,432	0	0	17	2	4	2	2	0	0
	21	5/19-5/23	1,951	59.1	65.9	61.7	10	2,624	0	0	9	1	4	8	12	1	0
	22	5/27-5/27	2,030	58.2	63.3	60.0	2	652	0	0	2	0	0	2	7	0	0
I-5 Frame	11	3/12-3/13	2,340	40.3	45.1	42.5	2	44	0	0	0	0	0	0	0	0	0
	12	3/19-3/21	2,664	42.9	47.5	44.5	3	34	0	0	0	0	0	0	1	0	0
	13	3/25-3/28	2,417	44.2	48.1	46.0	4	224	0	0	2	0	0	0	1	0	0
	14	4/1-4/4	2,913	44.7	48.8	46.4	4	141	0	0	1	0	0	0	1	0	0
	15	4/8-4/11	2,924	46.0	51.0	47.9	4	278	0	0	6	0	0	0	2	0	0
	16	4/15-4/18	2,893	48.3	53.0	50.3	4	182	0	0	26	0	0	0	1	0	0
	17	4/22-4/25	2,870	48.4	53.1	50.0	4	193	0	0	27	0	1	0	0	0	0
	18	4/29-5/2	2,967	50.6	55.6	52.5	4	379	0	0	42	0	0	0	0	0	0
	19	5/6-5/9	2,370	52.6	58.6	55.5	4	612	0	0	57	0	0	4	0	0	0
	20	5/13-5/16	2,009	54.7	65.0	58.6	4	236	0	0	19	0	3	2	1	0	0
	21	5/20-5/23	1,951	59.1	65.9	61.7	4	205	0	0	4	0	1	2	1	0	0
	22	5/27-5/29	2,030	58.2	63.3	60.0	3	169	0	0	5	0	0	4	0	0	0
	23	6/3-6/4	2,051	58.5	64.2	61.0	2	36	0	0	0	0	0	6	0	0	0
Kinsman RST	11	3/12-3/14	3,637	NA	NA	NA	5	159	0	1	0	3	0	0	17	0	0
	12	3/18-3/21	4,106	NA	NA	NA	8	153	0	0	0	2	0	0	14	0	0

Trap	Calendar week	Sample dates	Mean Q (ft ³ /s)	Water Temperature (F)			Trap days	Chinook Salmon				Coho Salmon				Steelhead			
				Min	Max	Mean		Age-0		Age 1+	Age-0	Age 1 +		Age-0	Age 1 +				
								No clip	AD clip			No clip	LM clip		No clip	AD clip			
	13	3/25-3/28	3,765	NA	NA	NA	8	483	0	0	0	0	2	0	0	24	0		
	14	4/1-4/4	3,863	NA	NA	NA	8	241	0	2	1	2	1	1	24	0			
	15	4/8-4/11	3,708	NA	NA	NA	8	275	0	0	2	1	1	2	17	0			
	16	4/15-4/18	4,092	NA	NA	NA	8	283	0	0	18	2	0	0	32	0			
	17	4/22-4/25	3,906	NA	NA	NA	8	519	0	0	5	7	1	0	29	0			
	18	4/29-5/2	4,160	NA	NA	NA	7	290	0	0	4	16	1	2	50	0			
	19	5/6-5/9	3,931	NA	NA	NA	8	588	0	0	10	21	1	1	88	0			
	20	5/13-5/16	3,886	NA	NA	NA	7	849	0	2	4	13	2	0	59	0			
	21	5/20-5/23	4,001	NA	NA	NA	8	4,917	0	0	45	10	0	4	128	0			
	22	5/27-5/29	3,396	NA	NA	NA	5	5,784	0	0	25	1	2	4	65	0			
	23	6/3-6/5	3,247	NA	NA	NA	6	3,747	0	0	31	1	0	9	113	0			
	24	6/10-6/12	2,843	NA	NA	NA	4	2,008	27	0	18	1	0	4	53	0			
	25	6/17-6/18	2,594	NA	NA	NA	2	1,484	27	0	2	0	0	0	16	0			
	27	7/1-7/1	1,792	NA	NA	NA	1	176	14	0	1	0	0	2	14	0			
	29	7/15-7/15	1,231	NA	NA	NA	1	3	0	0	4	0	0	0	4	1			

Appendix C10. Mainstem Klamath River weekly juvenile salmonid outmigrant trap catch summary, 2009. (Appendix continued on following page)

Trap	Calendar week	Sample dates	Mean Q (ft³/s)	Water Temperature (F)			Trap days	Chinook Salmon			Coho Salmon			Steelhead		
				Min	Max	Mean		Age-0		Age 1+	Age-0	Age 1 +		Age-0	Age 1 +	
								No clip	AD clip			No clip	LM clip		No clip	AD clip
Bogus Frame	11	3/11-3/13	1,759	NA	NA	NA	3	195	0	0	0	1	0	0	1	0
	12	3/17-3/20	1,753	43.4	46.1	44.9	4	1,195	0	0	0	1	0	0	1	0
	13	3/24-3/27	1,753	43.7	48.0	46.0	4	2,477	0	0	2	3	0	0	0	0
	14	3/31-4/3	1,673	45.5	48.4	47.2	4	1,380	0	0	13	1	0	0	0	0
	15	4/7-4/10	1,603	46.5	50.1	48.3	4	591	0	1	19	0	0	0	0	0
	16	4/14-4/17	1,603	48.8	52.3	50.4	4	2,550	0	0	180	0	0	3	0	0
	17	4/21-4/24	1,597	49.6	58.8	53.9	4	2,077	0	0	296	0	1	2	1	0
	18	4/28-5/1	1,573	52.5	56.1	54.2	4	377	0	0	52	0	0	12	0	0
	19	5/5-5/8	1,604	53.4	58.1	55.4	4	141	0	0	24	1	0	15	0	0
	20	5/12-5/15	1,426	55.6	59.1	57.1	4	115	0	0	12	0	0	101	1	0
I-5 RST	10	3/4-3/4	1,767	NA	NA	NA	1	3	0	3	1	2	0	0	4	0
	11	3/11-3/13	1,759	NA	NA	NA	6	70	0	2	0	3	0	0	1	0
	12	3/17-3/20	1,753	43.5	49.4	45.9	7	100	0	0	0	3	0	0	6	0
	13	3/24-3/27	1,753	43.1	51.1	46.5	8	180	0	0	3	2	0	0	7	0
	14	3/31-4/3	1,673	44.9	51.9	47.6	8	134	0	0	1	2	0	0	4	0
	15	4/7-4/10	1,603	45.2	53.3	48.8	8	78	0	0	1	2	0	0	7	0
	16	4/14-4/17	1,603	47.7	56.3	51.0	8	433	0	0	2	1	0	0	11	0
	17	4/21-4/24	1,597	48.8	60.0	54.7	8	1,084	0	0	3	3	12	1	6	0
	18	4/28-5/1	1,573	51.6	58.9	54.6	8	1,349	0	0	1	2	13	0	1	0
	19	5/6-5/8	1,604	52.8	61.4	55.9	6	354	0	0	4	2	11	1	7	1
	20	5/12-5/15	1,426	54.2	63.7	58.0	8	686	0	0	6	3	17	12	13	0
	22	5/27-5/27	1,434	60.3	66.5	64.4	1	178	47	0	3	0	0	0	3	0
I-5 Frame	11	3/11-3/13	1,759	NA	NA	NA	3	48	0	0	0	0	0	0	1	0
	12	3/17-3/20	1,753	43.5	49.4	45.9	4	183	0	0	0	0	0	0	5	0
	13	3/24-3/27	1,753	43.1	51.1	46.5	4	175	0	0	10	0	0	0	1	0
	14	3/31-4/3	1,673	44.9	51.9	47.6	4	90	0	0	0	0	0	0	1	0
	15	4/7-4/10	1,603	45.2	53.3	48.8	4	24	0	0	6	0	0	0	0	0
	16	4/14-4/17	1,603	47.7	56.3	51.0	4	285	0	0	30	0	0	0	0	0
	17	4/21-4/24	1,597	48.8	60.0	54.7	4	338	0	0	19	0	1	1	2	0
	18	4/28-5/1	1,573	51.6	58.9	54.6	3	172	0	0	9	0	1	2	1	0
	19	5/6-5/8	1,604	52.8	61.4	55.9	3	38	0	0	1	0	0	0	1	0
	20	5/14-5/14	1,426	54.2	63.7	58.0	1	36	0	0	3	0	0	1	0	0
Kinsman RST	11	3/10-3/13	2,314	NA	NA	NA	7	17	0	3	0	3	0	0	7	0
	12	3/17-3/20	2,835	46.4	48.7	47.6	8	124	0	1	0	175	0	0	22	0
	13	3/24-3/27	2,479	43.8	50.9	47.4	6	145	0	1	0	5	0	0	10	0
	14	3/31-4/3	2,308	45.6	51.1	48.4	8	169	0	1	3	4	0	0	10	0
	15	4/7-4/9	2,124	47.9	51.6	49.8	5	45	0	1	3	3	0	0	6	0
	16	4/14-4/17	2,101	48.7	55.6	51.6	8	295	0	5	3	8	0	0	6	0

Trap	Calendar week	Sample dates	Mean Q (ft³/s)	Water Temperature (F)			Trap days	Chinook Salmon			Coho Salmon				Steelhead			
				Min	Max	Mean		Age-0		Age 1+	Age-0	Age 1 +		Age-0	Age 1 +			
								No clip	AD clip			No clip	LM clip		No clip	AD clip		
17	4/21-4/24	2,294	53.5	59.0	55.9	8	509	0	11	1	42	8	0	30	0			
18	4/28-5/1	2,171	52.1	57.2	54.7	7	508	0	4	0	64	8	0	24	1			
19	5/5-5/7	2,815	52.0	59.1	55.6	3	164	0	0	6	9	3	0	14	0			
20	5/12-5/15	2,282	56.2	62.7	58.4	8	1,513	0	5	33	28	10	4	42	0			
21	5/19-5/22	2,219	59.1	66.3	62.7	8	1,476	0	4	8	14	6	1	72	1			
22	5/27-5/29	1,989	61.9	69.6	65.4	6	1,115	22	0	39	3	2	6	42	0			
23	6/2-6/2	2,002	64.4	69.6	66.5	2	410	75	0	3	0	0	1	9	0			

Appendix C11. Mainstem Klamath River weekly juvenile salmonid outmigrant trap catch summary, 2010. (Appendix continued on following page)

Trap	Calendar week	Sample dates	Mean Q (ft³/s)	Water Temperature (F)			Trap days	Chinook Salmon			Coho Salmon			Steelhead			
				Min	Max	Mean		Age-0		Age 1+	Age-0	Age 1 +		Age-0	Age 1 +		
								No clip	AD clip			No clip	LM clip		No clip	AD clip	
Bogus Frame	11	3/12-3/12	1,470	NA	NA	NA	1	441	0	0	0	0	0	0	0	0	0
	12	3/16-3/19	1,443	NA	NA	NA	4	5,457	0	1	1	1	0	0	3	0	
	13	3/23-3/26	1,300	46.1	48.1	47.0	4	3,167	0	0	0	0	0	0	0	0	
	14	3/30-4/2	1,323	45.2	49.1	47.1	4	4,268	0	0	11	0	0	0	0	0	
	15	4/6-4/9	1,340	44.8	50.0	47.7	4	8,473	0	0	13	1	20	0	3	4	
	16	4/13-4/16	1,339	46.6	50.5	48.3	4	10,254	0	0	84	1	3	5	2	1	
	17	4/20-4/23	1,337	47.3	54.3	50.3	4	3,938	0	0	113	0	0	6	0	0	
	18	4/27-4/30	1,354	48.5	54.7	51.5	4	433	0	0	7	0	0	5	0	0	
	19	5/4-5/7	1,286	52.2	55.9	53.7	4	186	0	0	1	0	0	37	0	0	
	20	5/11-5/14	1,206	51.8	56.9	54.4	4	81	0	0	0	0	0	75	0	0	
	21	5/18-5/20	1,200	51.7	57.5	55.4	3	27	0	0	0	0	0	12	0	1	
	22	5/25-5/27	1,203	54.4	58.6	55.9	3	5	0	0	0	0	0	6	0	0	
I-5 RST	11	3/11-3/12	1,470	NA	NA	NA	4	79	0	0	0	0	0	0	0	0	
	12	3/16-3/19	1,443	NA	NA	NA	8	306	0	1	0	1	1	0	3	0	
	13	3/23-3/26	1,300	45.1	52.1	47.5	7	220	0	0	0	1	0	0	2	0	
	14	3/30-4/2	1,323	45.4	51.9	47.4	8	251	0	0	0	2	0	0	5	0	
	15	4/6-4/9	1,340	44.1	53.5	48.0	8	731	0	1	1	0	149	0	2	1	
	16	4/13-4/16	1,339	46.0	54.9	49.0	8	1,357	0	0	0	2	183	0	5	0	
	17	4/20-4/23	1,337	47.3	57.1	51.0	8	1,474	0	0	5	2	4	0	5	0	
	18	4/27-4/30	1,354	48.7	58.2	52.1	8	1,265	0	1	0	4	4	0	11	0	
	19	5/4-5/7	1,286	50.5	58.7	54.4	7	601	0	0	1	0	1	2	6	2	
	20	5/11-5/14	1,206	51.3	62.1	55.4	8	220	0	0	0	0	1	4	1	0	
	21	5/18-5/21	1,200	51.7	61.0	55.8	8	211	0	0	0	0	2	0	1	1	
	22	5/25-5/28	1,203	53.0	62.2	56.3	7	46	0	0	0	0	2	0	1	1	
	23	6/2-6/4	1,101	55.7	62.2	58.5	6	227	43	0	0	0	0	0	3	0	
	24	6/9-6/11	1,059	57.9	65.7	60.8	6	135	28	0	0	0	0	2	4	0	
	25	6/16-6/16	1,041	60.7	66.9	63.4	2	147	37	0	0	0	0	0	0	0	
I-5 Frame	11	3/11-3/12	1,470	NA	NA	NA	2	92	0	0	0	0	0	0	2	0	
	12	3/16-3/19	1,443	NA	NA	NA	4	281	0	0	0	0	0	0	0	0	
	13	3/23-3/26	1,300	45.1	52.1	47.5	4	161	0	0	0	0	0	0	0	0	
	14	3/30-4/2	1,323	45.4	51.9	47.4	4	193	0	0	2	0	0	0	0	0	
	15	4/6-4/9	1,340	44.1	53.5	48.0	4	749	0	0	19	1	1	0	2	0	
	16	4/13-4/16	1,339	46.0	54.9	49.0	4	951	0	0	34	0	9	1	0	0	
	17	4/20-4/23	1,337	47.3	57.1	51.0	4	618	0	0	36	0	0	2	0	0	
	18	4/27-4/30	1,354	48.7	58.2	52.1	4	404	0	0	8	0	0	0	0	0	
	19	5/4-5/7	1,286	50.5	58.7	54.4	4	394	0	0	4	0	0	16	2	1	
	20	5/11-5/14	1,206	51.3	62.1	55.4	4	36	0	0	0	0	0	1	1	0	
	21	5/18-5/21	1,200	51.7	61.0	55.8	4	27	0	0	0	0	0	0	1	1	
	22	5/25-5/28	1,203	53.0	62.2	56.3	4	1	0	0	0	0	0	0	0	0	

Trap	Calendar week	Sample dates	Mean Q (ft³/s)	Water Temperature (F)			Trap days	Chinook Salmon			Coho Salmon			Steelhead		
				Min	Max	Mean		Age-0		Age 1+	Age-0	Age 1 +		Age-0	Age 1 +	
								No clip	AD clip			No clip	LM clip		No clip	AD clip
Kinsman	11	3/10-3/12	2,040	NA	NA	NA	3	974	0	0	0	3	0	0	8	0
RST	12	3/16-3/19	2,014	NA	NA	NA	7	2,457	0	0	4	2	0	0	16	0
	13	3/23-3/26	1,882	47.2	50.0	48.6	8	1,197	0	0	4	3	0	0	9	0
	14	3/30-4/2	2,236	45.3	50.2	47.6	8	803	0	0	36	0	0	0	24	0
	15	4/6-4/9	2,267	45.2	51.3	48.2	8	688	0	0	22	2	0	0	9	0
	16	4/13-4/16	2,174	46.6	54.1	50.0	8	1,742	0	0	102	1	0	0	3	0
	17	4/20-4/23	2,313	46.4	56.0	51.8	7	1,844	0	0	8	1	1	2	13	0
	18	4/27-4/30	2,944	48.6	56.4	52.1	6	658	0	0	2	5	0	0	7	0
	19	5/4-5/7	2,593	50.4	57.0	54.2	8	814	0	4	9	4	2	0	7	0
	20	5/11-5/14	2,231	50.2	60.7	55.6	8	296	0	4	6	0	9	0	11	0
	21	5/18-5/21	2,427	51.2	60.5	54.9	8	179	0	0	0	1	3	0	14	0
	22	5/25-5/28	2,133	51.0	60.0	55.1	8	103	0	0	2	0	4	0	15	0
	23	6/2-6/4	2,744	55.0	61.0	57.7	6	334	0	0	6	0	0	0	27	0
	24	6/9-6/11	2,770	55.3	63.8	58.8	6	271	1	0	4	0	0	0	14	0
	25	6/16-6/17	2,126	57.5	66.1	61.8	3	85	6	0	5	0	0	0	5	0
	26	6/24-6/25	1,825	59.2	71.1	64.9	3	151	20	0	7	0	0	1	10	0
	27	6/29-6/30	1,626	62.3	72.0	67.3	2	45	12	0	14	0	0	0	5	0

Appendix C12. Mainstem Klamath River weekly juvenile salmonid outmigrant trap catch summary, 2011. (Appendix continued on following page)

Trap	Calendar week	Sample dates	Mean Q (ft ³ /s)	Water Temperature (F)			Trap days	Chinook Salmon			Coho Salmon			Steelhead			
				Min	Max	Mean		Age-0		Age 1+	Age-0	Age 1 +		Age-0	Age 1 +		
								No clip	AD clip			No clip	LM clip		No clip	AD clip	
Bogus Frame	10	3/2-3/4	1,940	40.9	47.6	41.4	3	94	0	0	0	0	0	0	0	2	0
	11	3/8-3/11	2,661	41.4	42.9	42.1	4	231	0	1	5	0	0	0	0	10	0
	12	3/15-3/18	3,050	41.9	43.5	42.9	4	538	0	0	23	0	0	0	0	2	0
	14	3/29-3/31	4,834	43.6	46.6	44.8	3	533	0	0	2	0	0	0	0	1	0
	15	4/5-4/7	4,731	45.6	48.6	47.3	3	646	0	0	13	0	0	0	0	1	0
	16	4/12-4/14	3,464	47.1	49.2	48.3	3	964	0	0	35	0	0	0	0	0	0
	17	4/19-4/22	3,666	48.5	51.6	49.6	4	1,553	0	0	148	0	0	0	0	2	0
	18	4/26-4/29	4,396	49.3	52.2	50.7	4	509	0	0	45	0	0	3	2	1	
	19	5/3-5/6	4,023	51.0	55.9	52.8	4	379	0	0	50	0	0	5	1	0	
	20	5/10-5/13	3,350	53.3	57.4	54.8	4	211	0	0	24	0	0	8	0	0	
	21	5/17-5/20	3,199	54.6	60.5	56.2	4	64	0	0	12	0	0	5	0	0	
	22	5/24-5/27	3,227	55.3	59.7	56.6	4	67	0	0	14	0	0	8	0	0	
	23	6/1-6/3	3,186	55.1	57.7	56.1	3	55	0	0	0	0	0	8	2	0	
	24	6/7-6/10	2,849	55.6	62.2	58.3	4	39	0	0	1	0	0	5	3	0	
	25	6/14-6/17	2,410	59.1	64.5	62.0	4	19	0	0	2	0	0	2	0	0	
	26	6/21-6/22	2,084	62.1	67.5	64.7	2	5	0	0	0	0	0	0	1	0	
I-5 RST	10	3/2-3/3	1,940	40.5	44.8	41.8	3	0	0	1	0	0	0	0	0	0	0
	11	3/8-3/11	2,661	41.4	45.1	42.5	7	35	0	2	0	0	0	0	0	2	0
	12	3/15-3/18	3,050	41.7	45.0	42.9	4	4	0	0	0	0	0	0	0	2	0
	14	3/29-3/30	4,834	43.1	47.8	45.1	4	1	0	0	0	0	0	0	0	0	0
	15	4/5-4/7	4,731	44.9	49.7	47.2	6	2	0	0	3	1	0	0	0	0	0
	16	4/12-4/14	3,464	46.8	51.0	48.5	6	17	0	0	10	0	0	0	0	0	0
	17	4/19-4/22	3,666	48.3	51.9	49.7	8	23	0	0	10	0	0	0	1	0	0
	18	4/26-4/29	4,396	48.7	53.2	50.8	8	9	0	0	1	0	0	1	2	0	0
	19	5/3-5/6	4,023	50.1	55.5	53.0	8	26	0	0	9	0	0	0	1	1	1
	20	5/10-5/13	3,350	52.5	58.8	55.0	8	25	0	0	12	0	0	2	4	0	0
	21	5/17-5/20	3,199	53.8	59.8	56.2	8	56	0	0	18	0	0	1	2	0	0
	22	5/24-5/27	3,227	54.8	59.7	56.5	8	73	0	0	23	0	0	3	2	1	1
	23	6/1-6/3	3,186	54.5	59.2	56.0	6	46	0	0	8	0	0	0	4	0	0
	24	6/7-6/10	2,849	55.1	62.9	58.7	8	67	0	0	11	0	0	0	1	0	0
	25	6/14-6/17	2,410	58.6	65.6	62.3	8	63	0	0	11	0	0	0	2	0	0
	26	6/21-6/24	2,084	61.5	69.0	65.0	8	727	145	0	27	0	0	1	2	0	0
	27	6/29-6/30	1,774	63.4	69.2	66.0	4	532	96	0	4	0	0	0	1	0	0
	28	7/6-7/7	1,321	65.5	71.0	68.4	4	554	80	0	14	0	0	3	3	1	1
	29	7/13-7/13	1,081	67.5	71.2	69.2	2	31	1	0	0	0	0	0	1	0	0
	30	7/20-7/20	1,073	66.5	71.8	68.6	2	26	2	0	0	0	0	0	4	0	0
I-5 Frame	11	3/9-3/11	2,661	41.4	45.1	42.5	3	35	0	0	0	0	0	0	0	0	0
	12	3/15-3/16	3,050	41.7	45.0	42.9	2	5	0	0	0	0	0	0	1	0	0

Trap	Calendar week	Sample dates	Mean Q (ft ³ /s)	Water Temperature (F)			Trap days	Chinook Salmon			Coho Salmon			Steelhead			
				Min	Max	Mean		Age-0		Age 1+	Age-0	Age 1 +		Age-0	Age 1 +		
								No clip	AD clip			No clip	LM clip		No clip	AD clip	
Kinsman	9	2/25-2/25	2,163	NA	NA	NA	2		7	0	0	0	1		0	1	0
RST	10	3/1-3/4	2,592	41.9	44.2	43.2	3	17	0	0	0	1	0	0	0	5	0
	11	3/8-3/11	4,276	42.3	45.9	44.2	4	12	0	0	0	0	0	0	9	0	
	12	3/15-3/15	6,290	42.3	44.9	43.9	1	5	0	0	0	0	0	0	1	0	
	14	3/29-3/30	7,037	43.5	49.5	46.5	2	13	0	0	5	0	0	0	2	0	
	15	4/5-4/8	6,976	44.9	50.3	47.6	4	21	0	1	18	0	0	0	3	0	
	16	4/14-4/15	5,130	46.6	51.5	49.1	2	67	0	0	3	0	0	0	5	0	
	17	4/19-4/22	6,120	48.0	52.4	50.3	4	109	0	0	0	0	0	0	3	0	
	18	4/26-4/29	6,193	48.1	53.6	51.1	4	19	0	0	8	0	0	0	6	0	
	19	5/3-5/6	5,609	49.7	56.3	53.4	3	64	0	0	10	0	0	0	3	0	
	20	5/10-5/13	5,066	51.5	57.7	54.7	3	87	0	0	7	0	0	0	7	0	
	21	5/17-5/20	4,733	51.7	60.1	55.4	4	31	0	0	1	0	0	1	8	0	
	22	5/24-5/27	4,864	52.8	58.8	55.8	4	29	0	0	16	0	0	4	3	0	
	23	6/1-6/3	4,755	52.9	57.1	55.2	3	6	0	0	6	0	0	0	11	0	
	24	6/7-6/10	4,551	54.6	61.4	58.6	4	32	0	0	6	0	0	0	16	0	
	25	6/14-6/17	4,306	57.1	63.0	61.1	4	31	0	0	9	0	0	0	3	0	
	26	6/21-6/24	3,787	59.4	65.5	63.4	3	28	0	0	11	0	0	3	16	0	
	27	6/29-6/29	3,279	62.1	68.0	64.6	1	246	57	0	4	0	0	0	2	0	
	28	7/6-7/7	2,406	66.0	72.4	68.9	2	168	23	0	58	0	0	2	4	0	
	29	7/13-7/14	1,823	65.8	71.5	68.5	2	26	1	0	12	0	0	1	3	0	
	30	7/20-7/21	1,702	63.3	73.9	68.1	2	24	1	0	32	0	0	0	6	0	
	31	7/27-7/27	1,570	67.6	76.6	71.8	1	3	0	0	3	0	0	0	4	0	

Appendix C13. Mainstem Klamath River weekly juvenile salmonid outmigrant trap catch summary, 2012. (Appendix continued on following page)

Trap	Calendar week	Sample dates	Mean Q (ft³/s)	Water Temperature (F)			Trap days	Chinook Salmon			Coho Salmon			Steelhead			
				Min	Max	Mean		Age-0		Age 1+	Age-0	Age 1 +		Age-0	Age 1 +		
								No clip	AD clip			No clip	LM clip		No clip	AD clip	
Bogus Frame	11	3/15-3/16	1,337	42.5	44.0	43.2	2	759	0	0	0	0	0	0	0	4	0
	12	3/20-3/23	1,417	42.2	44.5	43.3	4	1,533	0	0	0	0	0	0	4	0	
	13	3/27-3/30	1,569	42.9	45.1	43.9	4	3,193	0	0	16	0	78	0	0	0	
	14	4/3-4/5	2,639	44.0	47.2	45.7	3	1,113	0	0	12	0	1	0	2	0	
	15	4/10-4/13	3,761	45.8	49.9	47.3	4	2,019	0	0	21	0	0	0	0	0	
	16	4/17-4/20	3,076	48.4	53.3	49.7	4	4,302	0	0	221	0	0	0	3	6	
	17	4/24-4/27	3,644	48.7	57.2	53.4	3	2,282	0	0	96	0	0	2	0	0	
	18	5/1-5/4	3,417	55.6	58.3	56.6	4	610	0	0	69	0	0	35	1	0	
	19	5/8-5/11	3,191	56.3	60.9	58.4	4	546	0	0	53	0	1	97	2	0	
	20	5/15-5/18	2,580	59.4	65.9	61.9	4	605	0	0	53	0	0	65	0	0	
	21	5/22-5/25	1,966	60.0	63.8	61.9	4	200	0	0	9	0	0	44	0	1	
	22	5/29-6/1	1,810	60.3	66.6	62.4	4	42	0	0	10	0	0	28	0	1	
I-5 RST	11	3/14-3/16	1,337	41.2	46.2	43.4	6	32	0	0	0	0	0	0	11	0	
	12	3/20-3/23	1,417	41.5	47.6	43.7	8	34	0	0	0	0	0	0	17	0	
	13	3/27-3/29	1,569	42.8	47.2	44.4	6	57	0	0	0	0	0	0	5	0	
	14	4/3-4/4	2,639	43.4	48.3	45.8	5	38	0	0	0	0	122	0	4	0	
	15	4/10-4/13	3,761	45.6	51.2	47.5	8	54	0	1	1	2	3	0	4	0	
	16	4/18-4/20	3,076	48.0	55.7	50.2	8	72	0	0	3	0	4	1	2	4	
	17	4/24-4/27	3,644	49.2	57.8	53.8	7	55	0	0	6	0	2	2	5	2	
	18	5/1-5/4	3,417	54.7	59.1	56.6	8	123	0	0	0	0	8	3	6	0	
	19	5/10-5/11	3,191	55.2	62.2	58.7	8	130	0	0	5	9	14	12	10	2	
	20	5/16-5/18	2,580	58.6	65.7	62.2	7	660	0	0	18	1	4	27	10	2	
	21	5/22-5/25	1,966	59.3	67.1	61.9	8	486	0	0	37	0	1	14	13	4	
	22	5/29-6/1	1,810	59.1	68.9	63.1	8	221	3	0	37	0	0	2	18	2	
	23	6/5-6/7	1,573	58.9	66.7	62.5	4	245	52	0	3	0	0	0	7	0	
I-5 Frame	12	3/21-3/23	1,417	41.5	47.6	43.7	3	17	0	0	1	0	0	0	3	0	
	13	3/27-3/29	1,569	42.8	47.2	44.4	3	46	0	0	7	0	0	0	2	0	
	14	4/3-4/5	2,639	43.4	48.3	45.8	3	9	0	0	4	0	1	0	0	0	
Kinsman RST	11	3/15-3/16	4,276	42.7	44.9	44.0	2	2	0	2	0	1	0	0	9	0	
	12	3/20-3/23	6,290	41.7	46.7	44.4	3	4	0	1	0	13	0	0	13	0	
	13	3/27-3/29	6,159	43.9	46.7	45.2	3	4	0	0	0	2	0	0	4	0	
	14	4/3-4/5	7,037	44.1	49.0	46.2	2	11	0	1	1	0	2	0	8	0	
	15	4/10-4/13	6,976	45.7	51.2	48.0	4	20	0	0	0	0	1	0	6	0	
	16	4/17-4/20	5,130	48.7	55.7	51.3	4	31	0	1	0	0	2	0	10	1	
	17	4/24-4/27	6,120	49.4	56.9	53.7	4	2	0	0	2	8	0	0	25	0	
	18	5/1-5/4	6,193	52.6	58.2	55.3	4	32	0	0	0	7	5	0	18	0	
	19	5/8-5/11	5,609	54.0	61.0	58.0	4	27	0	0	1	19	4	0	32	0	
	20	5/15-5/18	5,066	56.8	63.9	60.6	3	28	0	0	17	3	0	2	22	0	

Trap	Calendar week	Sample dates	Mean Q (ft³/s)	Water Temperature (F)			Trap days	Chinook Salmon			Coho Salmon			Steelhead		
				Min	Max	Mean		Age-0		Age 1+	Age-0	Age 1 +		Age-0	Age 1 +	
								No clip	AD clip			No clip	LM clip		No clip	AD clip
	21	5/22-5/25	4,733	56.5	63.3	59.6	4	92	0	0	29	2	0	2	30	0
	22	5/29-6/1	4,864	58.1	66.8	62.5	4	91	0	0	48	1	0	0	21	0
	23	6/5-6/8	4,755	57.8	64.1	60.7	4	144	3	0	42	0	0	0	15	1
	24	6/12-6/15	4,551	59.8	68.4	64.4	4	186	14	0	104	0	0	0	33	0
	25	6/19-6/21	4,306	61.5	69.4	65.9	3	761	207	0	46	0	0	2	44	0
	26	6/27-6/28	3,787	61.5	69.4	65.2	2	184	72	0	9	0	0	0	11	0
	27	7/3-7/3	3,279	66.1	72.4	69.2	1	14	2	0	1	0	0	0	6	0
	28	7/11-7/11					1	5	2	0	1	0	0	0	2	0

Appendix C14. Mainstem Klamath River weekly juvenile salmonid outmigrant trap catch summary, 2013. (Appendix continued on following page)

Trap	Calendar week	Sample dates	Mean Q (ft³/s)	Water Temperature (F)			Trap days	Chinook Salmon			Coho Salmon			Steelhead			
				Min	Max	Mean		Age-0		Age 1 +	Age-0	Age 1 +		Age-0	Age 1 +		
								No clip	AD clip			No clip	LM clip		No clip	AD clip	
Bogus Frame	10	3/6-3/8	1,269	39.2	43.0	40.8	3	938	0	0	0	0	1	0	0	0	0
	11	3/12-3/15	1,541	41.6	47.0	43.3	4	3,305	0	0	0	0	0	0	0	3	0
	12	3/19-3/22	1,860	41.3	46.6	45.0	4	3,039	0	0	0	0	9	0	2	0	
	13	3/26-3/29	2,240	45.7	49.2	47.2	4	3,396	0	0	0	0	0	0	1	0	
	14	4/2-4/5	2,066	47.9	51.6	49.9	3	13,433	0	0	89	0	0	1	3	0	
	15	4/9-4/12	1,526	50.0	53.9	52.1	4	10,653	0	0	163	0	0	1	0	0	
	16	4/16-4/19	1,544	51.1	54.8	52.4	4	5,883	0	0	100	0	0	1	2	0	
	17	4/23-4/26	1,171	52.3	57.4	54.5	4	450	0	0	29	0	0	9	0	0	
	18	4/30-5/3	1,156	55.0	59.6	56.8	4	821	0	0	12	0	0	73	0	0	
	19	5/7-5/10	1,161	56.6	66.0	59.9	4	683	0	0	7	0	1	153	0	0	
	20	5/14-5/17	1,154	61.2	67.0	63.8	4	88	1	0	0	0	0	21	1	0	
21	5/21-5/21	1,156	58.2	65.2	61.2	1	0	0	0	0	0	0	4	0	0		
I-5 RST	10	3/7-3/8	1,269	38.6	46.3	41.4	4	322	0	0	0	0	0	0	2	0	
	11	3/12-3/15	1,541	40.4	47.9	43.9	6	915	0	1	0	0	0	0	8	0	
	12	3/19-3/22	1,860	41.8	49.4	45.3	5	303	0	0	0	1	41	0	1	0	
	13	3/26-3/29	2,240	44.8	52.2	47.7	8	207	0	0	0	2	0	0	5	0	
	14	4/2-4/5	2,066	47.8	54.0	50.3	8	617	0	0	0	0	1	0	7	0	
	15	4/9-4/12	1,526	49.1	56.9	52.4	8	1,299	0	0	0	1	2	4	3	0	
	16	4/16-4/19	1,544	49.8	58.4	52.6	8	1,423	0	0	2	0	0	2	3	0	
	17	4/23-4/26	1,171	51.0	62.3	55.4	8	356	0	0	2	0	1	0	2	0	
	18	4/30-5/3	1,156	53.4	63.3	57.6	8	477	0	0	0	0	1	4	4	0	
	19	5/7-5/10	1,161	55.8	68.4	60.8	8	293	0	0	4	1	2	10	7	0	
	20	5/14-5/17	1,154	59.9	69.9	64.1	8	260	0	0	3	0	0	2	8	0	
21	5/21-5/22	1,156	57.4	68.4	61.6	4	64	0	0	0	0	0	0	5	0		
I-5 Frame	10	3/8-3/8	1,269	38.6	46.3	41.4	1	117	0	0	0	0	0	0	0	0	
	16	4/17-4/19	1,544	49.8	58.4	52.6	3	531	0	0	9	0	0	1	0	0	
	17	4/23-4/26	1,171	51.0	62.3	55.4	4	42	0	0	2	0	1	0	0	0	
	18	4/30-5/3	1,156	53.4	63.3	57.6	3	28	0	0	0	0	0	13	0	0	
	19	5/7-5/10	1,161	55.8	68.4	60.8	3	8	0	0	2	0	1	2	0	0	
Kinsman RST	20	5/14-5/17	1,154	59.9	69.9	64.1	2	10	0	0	1	0	0	2	0	0	
	10	3/8-3/8	2,112	41.2	44.5	42.7	1	662	0	1	0	1	0	0	2	0	
	11	3/12-3/15	2,379	42.6	48.3	45.7	4	2,562	0	2	0	0	0	0	10	0	
	12	3/19-3/22	2,765	43.1	48.5	46.3	4	1,074	0	0	0	0	15	0	9	0	
	13	3/26-3/29	3,063	45.5	52.2	48.9	4	417	0	0	0	0	2	0	6	0	
	14	4/2-4/5	3,483	50.0	53.7	51.6	4	2,225	0	0	0	3	1	0	8	0	
	15	4/9-4/12	2,863	49.6	55.3	52.2	4	4,050	0	0	8	1	2	0	9	0	
	16	4/16-4/19	2,507	49.6	56.0	52.0	4	3,377	0	0	3	1	1	0	10	0	
	17	4/23-4/26	2,000	53.1	61.2	56.2	4	556	0	0	5	0	0	0	14	0	
18	4/30-5/3	1,954	53.6	62.1	57.8	4	485	0	1	7	1	0	1	14	0		

Trap	Calendar week	Sample dates	Mean Q (ft ³ /s)	Water Temperature (F)			Trap days	Chinook Salmon			Coho Salmon			Steelhead		
								Age-0		Age 1 +	Age 1 +		Age-0	Age 1 +		Age-0
				Min	Max	Mean		No clip	AD clip		No clip	LM clip		No clip	AD clip	
	19	5/7-5/10	1,991	56.4	67.7	61.2	4	405	0	0	15	1	1	7	20	0
	20	5/14-5/17	1,875	59.6	68.4	63.5	4	206	0	0	25	0	0	0	26	0
	21	5/21-5/24	1,676	56.2	66.5	60.5	4	65	0	0	11	0	0	1	13	0
	22	5/29-5/31	1,617	59.1	67.8	62.6	3	70	5	0	9	0	0	6	18	0

Appendix D. Klamath River weekly Chinook Salmon and Coho Salmon fork length information, 2000.

Appendix D1. Klamath River at I-5 (frame net) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2000.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
15	4/5-4/7	91	39.2	30	52	4.7	0	--	--	--	--	3	34.3	33	35	1.2	0	--	--	--	--	3	146.0	140	155	7.9
16	4/11-4/14	91	44.2	34	62	5.2	0	--	--	--	--	2	38.0	34	42	5.7	5	128.0	109	150	17.6	1	146.0	146	146	0.0
17	4/18-4/21	102	48.1	31	68	5.9	0	--	--	--	--	1	45.0	45	45	0.0	0	--	--	--	--	2	160.5	149	172	16.3
18	4/25-4/28	78	50.1	33	65	6.6	0	--	--	--	--	4	45.0	41	48	3.6	0	--	--	--	--	0	--	--	--	--
19	5/2-5/5	90	52.5	38	83	8.4	0	--	--	--	--	5	45.8	41	49	3.6	2	135.5	132	139	5.0	4	152.0	140	163	9.6
20	5/9-5/12	18	65.0	50	85	12.4	0	--	--	--	--	3	49.7	45	54	4.5	1	145.0	145	145	0.0	0	--	--	--	--
21	5/16-5/19	19	76.3	40	95	16.1	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	3	152.7	138	162	12.9
22	5/23-5/26	33	80.7	40	98	11.6	0	--	--	--	--	1	74.0	74	74	0.0	0	--	--	--	--	2	160.0	157	163	4.2
23	5/31-6/1	24	90.3	72	107	8.5	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix D2. Klamath River at I-5 (RST) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2000.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
13	3/21-3/24	109	38.6	33	55	3.3	7	143.7	112	183	28.7	0	--	--	--	--	1	84.0	84	84	0.0	0	--	--	--	--
14	3/27-3/31	65	42.0	35	55	5.1	0	--	--	--	--	1	42.0	42	42	0.0	0	--	--	--	--	28	149.0	121	183	13.0
15	4/3-4/7	48	42.8	34	59	7.6	1	110.0	110	110	0.0	1	41.0	41	41	0.0	2	126.0	116	136	14.1	41	153.1	104	190	17.0
16	4/10-4/15	106	49.5	35	71	7.3	0	--	--	--	--	0	--	--	--	--	9	152.7	140	197	18.6	71	153.1	119	183	13.2
17	4/17-4/21	144	53.0	39	73	7.1	0	--	--	--	--	1	42.0	42	42	0.0	0	--	--	--	--	82	156.2	124	224	16.7
18	4/24-4/29	142	56.4	44	78	6.8	0	--	--	--	--	0	--	--	--	--	40	154.0	108	173	14.7	42	151.8	121	191	12.6
19	5/1-5/6	151	57.5	33	80	8.3	0	--	--	--	--	0	--	--	--	--	4	133.8	118	147	13.6	47	156.7	130	200	13.5
20	5/8-5/13	71	69.3	43	92	11.8	0	--	--	--	--	4	55.5	53	60	3.1	1	165.0	165	165	0.0	17	153.9	134	175	10.2
21	5/15-5/20	158	73.3	42	104	14.2	0	--	--	--	--	0	--	--	--	--	2	156.0	132	180	33.9	15	166.3	135	192	14.4
22	5/22-5/26	234	86.0	48	128	12.8	2	203.0	185	221	25.5	2	68.5	62	75	9.2	1	135.0	135	135	0.0	2	155.5	137	174	26.2
23	5/31-6/1	71	96.1	50	116	13.1	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix E. Klamath River weekly Steelhead fork length information, 2000.

Appendix E1. Klamath River at I-5 (frame net) weekly Steelhead fork lengths (mm), 2000.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
15	4/5-4/7	1	21.0	21	21	0.0	2	136.5	135	138	2.1	0	--	--	--	--
16	4/11-4/14	0	--	--	--	--	7	111.4	60	141	27.5	0	--	--	--	--
17	4/18-4/21	2	26.0	25	27	1.4	2	139.0	135	143	5.7	0	--	--	--	--
18	4/25-4/28	5	25.6	25	27	0.9	5	127.4	102	155	24.5	0	--	--	--	--
19	5/2-5/5	7	30.0	27	37	4.2	7	141.0	103	170	25.4	1	141.0	141	141	0.0
20	5/9-5/12	0	--	--	--	--	4	155.5	108	187	33.6	0	--	--	--	--
21	5/16-5/19	0	--	--	--	--	4	120.5	108	132	9.9	0	--	--	--	--
22	5/23-5/26	0	--	--	--	--	16	146.5	83	206	32.4	0	--	--	--	--
23	5/31-6/1	1	28.0	28	28	0.0	4	153.8	135	175	16.4	0	--	--	--	--

Appendix E2. Klamath River at I-5 (RST) weekly Steelhead fork lengths (mm), 2000.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
13	3/21-3/24	0	--	--	--	--	27	93.9	71	300	44.4	0	--	--	--	--
14	3/27-3/31	0	--	--	--	--	21	124.7	75	211	32.8	0	--	--	--	--
15	4/3-4/7	0	--	--	--	--	35	138.4	74	184	25.5	0	--	--	--	--
16	4/10-4/15	0	--	--	--	--	32	136.7	86	206	30.5	2	161.0	145	177	22.6
17	4/17-4/21	0	--	--	--	--	28	141.1	72	180	24.4	0	--	--	--	--
18	4/24-4/29	0	--	--	--	--	64	142.5	89	183	21.3	0	--	--	--	--
19	5/1-5/6	0	--	--	--	--	74	147.1	88	260	29.1	0	--	--	--	--
20	5/8-5/13	1	40.0	40	40	0.0	42	143.8	103	188	24.8	1	192.0	192	192	0.0
21	5/15-5/20	0	--	--	--	--	42	147.1	89	215	29.9	0	--	--	--	--
22	5/22-5/26	0	--	--	--	--	102	145.0	46	206	30.5	0	--	--	--	--
23	5/31-6/1	0	--	--	--	--	32	144.5	54	193	26.0	0	--	--	--	--

Appendix F. Klamath River weekly Chinook Salmon and Coho Salmon fork length information, 2001.**Appendix F1. Klamath River at I-5 (frame net) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2001.**

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
10	3/7-3/9	66	36.7	31	41	2.0	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
11	3/13-3/16	121	37.4	30	41	1.7	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/20-3/23	119	38.1	33	45	2.3	0	--	--	--	--	0	--	--	--	--	1	115.0	115	115	0.0	0	--	--	--	--
13	3/27-3/30	120	38.4	33	50	3.1	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	1	159.0	159	159	0.0
14	4/3-4/6	120	40.3	34	54	4.0	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	2	127.5	126	129	2.1
15	4/10-4/13	120	42.2	31	60	5.7	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
16	4/18-4/20	89	42.7	33	56	5.8	0	--	--	--	--	17	35.8	33	46	3.1	0	--	--	--	--	1	--	--	--	--
17	4/24-4/27	120	41.4	33	64	6.2	0	--	--	--	--	79	35.2	33	46	1.6	0	--	--	--	--	2	130.0	130	130	0.0
18	5/1-5/4	69	42.0	35	65	5.5	0	--	--	--	--	18	34.9	32	46	2.9	1	134.0	134	134	0.0	1	136.0	130	142	8.5
19	5/8-5/11	48	48.7	36	76	8.2	0	--	--	--	--	4	37.3	34	40	2.5	0	--	--	--	--	1	145.0	145	145	0.0

Appendix F2. Klamath River at I-5 (RST) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2001.

Calendar week	Sample dates	Unmarked Chinook Salmon (<i>O. tshawytscha</i>)										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
10	3/6-3/9	89	36.8	33	43	1.8	1	82.0	82	82	0.0	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
11	3/13-3/16	151	37.1	30	45	2.4	2	175.0	168	182	9.9	0	--	--	--	--	1	123.0	123	123	0.0	0	--	--	--	--
12	3/19-3/23	150	38.2	34	58	2.6	0	--	--	--	--	0	--	--	--	--	2	123.5	92	155	44.6	0	--	--	--	--
13	3/27-3/30	120	37.9	34	50	2.6	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	30	138.7	104	180	18.3
14	4/3-4/6	104	39.8	32	53	4.7	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	42	143.7	118	188	17.2
15	4/10-4/11	34	56.4	43	74	8.8	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	3	154.0	142	165	11.5
16	4/17-4/20	103	44.1	33	65	6.6	0	--	--	--	--	4	--	--	--	--	0	--	--	--	--	0	--	--	--	--
17	4/23-4/27	126	46.6	35	65	7.3	0	--	--	--	--	1	40.3	34	49	7.1	0	--	--	--	--	9	137.1	130	149	6.5
18	4/30-5/4	147	51.5	36	77	8.6	0	--	--	--	--	0	46.0	46	46	0.0	0	--	--	--	--	25	141.8	130	179	10.4
19	5/7-5/11	89	55.0	34	84	10.8	0	--	--	--	--	1	--	--	--	--	0	--	--	--	--	15	141.1	127	159	9.1
20	5/14-5/16	34	52.3	36	91	15.1	0	--	--	--	--	1	57.0	57	57	0.0	0	--	--	--	--	0	--	--	--	--

Appendix G. Klamath River weekly Steelhead fork length information, 2001.

Appendix G1. Klamath River at I-5 (frame net) weekly Steelhead fork lengths (mm), 2001.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
10	3/7-3/9	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
11	3/13-3/16	0	--	--	--	--	1	76.0	76	76	0.0	0	--	--	--	--
12	3/20-3/23	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
13	3/27-3/30	0	--	--	--	--	4	133.3	57	173	51.9	0	--	--	--	--
14	4/3-4/6	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
15	4/10-4/13	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
16	4/18-4/20	0	--	--	--	--	1	165.0	165	165	0.0	0	--	--	--	--
17	4/24-4/27	1	26.0	26	26	0.0	2	133.0	118	148	21.2	0	--	--	--	--
18	5/1-5/4	4	28.5	25	35	4.5	2	97.0	97	97	0.0	0	--	--	--	--
19	5/8-5/11	12	26.3	23	28	1.5	2	122.5	120	125	3.5	0	--	--	--	--

Appendix G2. Klamath River at I-5 (RST) weekly Steelhead fork lengths (mm), 2001.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
10	3/6-3/9	0	--	--	--	--	4	112.5	35	177	58.9	0	--	--	--	--
11	3/13-3/16	0	--	--	--	--	6	100.3	82	132	19.6	0	--	--	--	--
12	3/19-3/23	0	--	--	--	--	16	113.6	74	162	30.8	0	--	--	--	--
13	3/27-3/30	0	--	--	--	--	14	112.1	80	168	28.2	0	--	--	--	--
14	4/3-4/6	0	--	--	--	--	1	124.0	124	124	0.0	0	--	--	--	--
15	4/10-4/11	0	--	--	--	--	4	145.0	110	178	31.8	0	--	--	--	--
16	4/17-4/20	0	--	--	--	--	1	166.0	166	166	0.0	0	--	--	--	--
17	4/23-4/27	0	--	--	--	--	10	117.5	79	155	30.9	0	--	--	--	--
18	4/30-5/4	0	--	--	--	--	11	142.7	81	170	23.3	0	--	--	--	--
19	5/7-5/11	0	--	--	--	--	16	156.7	100	264	49.3	0	--	--	--	--
20	5/14-5/16	5	27.6	25	32	2.7	5	192.4	160	300	60.5	0	--	--	--	--

Appendix H. Klamath River weekly Chinook Salmon and Coho Salmon fork length information, 2002.**Appendix H1. Klamath River at Bogus (frame net) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2002.**

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
13	3/28-3/29	60	38.5	24	47	3.4	0	--	--	--	--	34	36.8	34	41	1.5	0	--	--	--	--	2	131.5	110	153	30.4
14	4/2-4/5	115	38.4	30	49	2.3	0	--	--	--	--	121	36.4	32	41	1.4	0	--	--	--	--	0	--	--	--	--
15	4/9-4/12	120	39.6	34	54	4.8	0	--	--	--	--	119	36.1	32	42	1.3	0	--	--	--	--	0	--	--	--	--
16	4/16-4/19	120	43.0	32	65	7.2	0	--	--	--	--	52	36.5	32	45	2.3	0	--	--	--	--	0	--	--	--	--
17	4/23-4/26	108	42.7	33	69	7.3	0	--	--	--	--	71	35.4	31	46	2.2	0	--	--	--	--	0	--	--	--	--
18	4/30-5/3	119	40.9	32	57	4.8	1	88.0	88	88	0.0	119	36.0	32	49	2.7	0	--	--	--	--	1	126.0	126	126	0.0
19	5/7-5/8	60	44.1	34	62	5.8	0	--	--	--	--	11	38.0	33	51	4.8	0	--	--	--	--	0	--	--	--	--

Appendix H2. Klamath River at Bogus (RST) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2002.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
13	3/26-3/29	79	39.9	34	52	3.6	3	93.0	85	106	11.4	0	--	--	--	--	0	--	--	--	--	60	148.0	109	235	23.5
14	4/2-4/5	115	37.8	34	42	2.0	0	--	--	--	--	2	35.5	34	37	2.1	0	--	--	--	--	1	125.0	125	125	0.0
15	4/9-4/12	107	38.8	34	58	4.1	0	--	--	--	--	8	35.8	35	36	0.5	1	118.0	118	118	0.0	0	--	--	--	--
16	4/16-4/19	118	41.2	34	60	5.9	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
17	4/23-4/26	81	43.7	35	71	9.0	0	--	--	--	--	7	35.6	35	37	0.8	0	--	--	--	--	1	176.0	176	176	0.0
18	4/30-5/3	120	45.0	33	64	7.7	0	--	--	--	--	8	35.5	32	38	1.9	0	--	--	--	--	3	159.3	145	168	12.5
19	5/8-5/8	4	49.3	43	67	11.8	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix H3. Klamath River at I-5 (frame net) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2002.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/13-3/15	60	38.4	35	42	2.1	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/20-3/22	90	37.6	31	45	2.2	0	--	--	--	--	2	34.0	34	34	0.0	0	--	--	--	--	0	--	--	--	--
13	3/26-3/29	149	37.8	31	49	2.7	0	--	--	--	--	7	35.9	33	37	1.5	0	--	--	--	--	1	140.0	140	140	0.0
14	4/2-4/5	120	38.3	33	54	3.5	0	--	--	--	--	103	35.5	32	49	1.9	1	80.0	80	80	0.0	1	155.0	155	155	0.0
15	4/9-4/12	120	38.2	32	52	3.2	0	--	--	--	--	120	35.2	31	64	3.1	3	132.3	120	155	19.7	0	--	--	--	--
16	4/16-4/19	118	41.4	33	60	5.3	0	--	--	--	--	120	34.6	30	38	1.2	3	109.0	82	151	36.9	0	--	--	--	--
17	4/23-4/26	110	41.7	31	62	6.2	1	124.0	124	124	0.0	37	35.8	32	44	2.4	0	--	--	--	--	0	--	--	--	--
18	4/30-5/3	115	45.6	36	74	6.3	0	--	--	--	--	118	40.3	32	52	4.6	0	--	--	--	--	2	129.0	124	134	7.1
19	5/7-5/8	35	51.3	34	83	8.4	0	--	--	--	--	11	42.6	33	53	6.2	0	--	--	--	--	1	145.0	145	145	0.0

Appendix H4. Klamath River at I-5 (RST) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2002.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/14-3/14	13	36.9	33	40	1.8	4	124.8	114	135	9.5	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/19-3/22	83	37.5	31	48	2.6	1	128.0	128	128	0.0	0	--	--	--	--	0	--	--	--	--	1	109.0	109	109	0.0
13	3/26-3/29	89	38.2	34	48	2.4	0	--	--	--	--	0	--	--	--	--	1	102.0	102	102	0.0	61	152.8	113	210	19.4
14	4/2-4/5	91	38.4	32	46	2.3	0	--	--	--	--	3	35.3	35	36	0.6	0	--	--	--	--	10	150.2	116	186	18.5
15	4/9-4/12	122	40.7	34	60	5.1	0	--	--	--	--	6	35.0	34	36	0.9	0	--	--	--	--	1	149.0	149	149	0.0
16	4/16-4/19	114	46.3	35	69	6.4	0	--	--	--	--	6	34.8	33	36	1.2	1	114.0	114	114	0.0	1	124.0	124	124	0.0
17	4/23-4/26	69	47.3	35	68	7.5	5	139.4	125	165	15.6	7	38.0	34	44	4.3	1	118.0	118	118	0.0	1	151.0	151	151	0.0
18	4/30-5/3	114	50.4	36	100	9.1	2	141.0	135	147	8.5	2	39.0	38	40	1.4	3	135.3	124	147	11.5	14	155.7	130	184	15.2
19	5/7-5/8	40	59.9	40	79	8.7	0	--	--	--	--	3	42.7	36	47	5.9	2	143.0	140	146	4.2	12	144.9	122	159	12.6

Appendix H5. Klamath River at Kinsman (frame net) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2002.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
12	3/20-3/22	90	39.5	34	51	3.8	0	--	--	--	--	5	37.6	33	41	3.4	0	--	--	--	--	0	--	--	--	--
13	3/26-3/29	117	41.4	33	61	6.2	0	--	--	--	--	15	34.6	32	37	1.6	0	--	--	--	--	0	--	--	--	--
14	4/2-4/5	124	44.4	32	69	7.1	0	--	--	--	--	132	37.3	31	49	2.6	0	--	--	--	--	0	--	--	--	--
15	4/9-4/12	120	43.5	35	64	6.5	0	--	--	--	--	121	36.8	31	47	2.2	0	--	--	--	--	0	--	--	--	--
16	4/16-4/19	119	46.2	34	70	6.6	0	--	--	--	--	120	36.2	30	49	3.1	0	--	--	--	--	0	--	--	--	--
17	4/23-4/26	57	45.0	34	73	8.5	0	--	--	--	--	86	36.6	31	57	4.3	0	--	--	--	--	0	--	--	--	--
18	4/30-5/3	116	51.3	35	66	6.2	0	--	--	--	--	120	39.9	31	60	6.5	0	--	--	--	--	0	--	--	--	--
19	5/7-5/9	90	56.9	33	74	8.7	0	--	--	--	--	90	40.1	30	68	7.7	0	--	--	--	--	0	--	--	--	--
21	5/22-5/23	41	62.0	37	96	14.5	0	--	--	--	--	19	40.4	35	62	7.2	0	--	--	--	--	0	--	--	--	--

Appendix H6. Klamath River at Kinsman (RST) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2002.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/14-3/14	30	41.5	35	50	3.8	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/19-3/22	120	39.8	33	55	4.2	0	--	--	--	--	0	--	--	--	--	2	98.5	75	122	33.2	0	--	--	--	--
13	3/26-3/29	116	43.2	35	61	6.2	0	--	--	--	--	2	36.5	34	39	3.5	0	--	--	--	--	0	--	--	--	--
14	4/2-4/5	120	48.7	35	63	6.5	0	--	--	--	--	4	37.0	34	39	2.2	0	--	--	--	--	1	151.0	151	151	0.0
15	4/9-4/12	128	50.1	34	70	8.0	1	109.0	109	109	0.0	24	36.0	33	40	1.7	0	--	--	--	--	0	--	--	--	--
16	4/16-4/19	118	54.6	38	80	7.9	5	136.2	115	204	38.1	19	36.3	33	46	3.5	0	--	--	--	--	0	--	--	--	--
17	4/23-4/26	112	54.4	36	78	9.0	3	118.3	113	124	5.5	21	42.6	33	53	6.1	1	138.0	138	138	0.0	0	--	--	--	--
18	4/30-5/3	133	59.0	32	121	13.6	2	136.5	133	140	5.0	27	44.3	33	59	7.6	0	--	--	--	--	0	--	--	--	--
19	5/7-5/9	90	63.5	35	112	13.1	0	--	--	--	--	14	40.5	31	63	9.3	3	134.0	128	142	7.2	1	140.0	140	140	0.0
21	5/22-5/23	60	64.3	37	88	12.6	0	--	--	--	--	17	46.2	34	57	7.9	0	--	--	--	--	0	--	--	--	--
22	5/29-5/29	21	72.1	37	102	20.9	0	--	--	--	--	9	47.0	38	68	12.3	0	--	--	--	--	1	157.0	157	157	0.0

Appendix I. Klamath River weekly Steelhead fork length information, 2002.

Appendix I1. Klamath River at Bogus (frame net) weekly Steelhead fork lengths (mm), 2002.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
13	3/28-3/29	0	--	--	--	--	3	114.3	73	135	35.8	6	120.7	95	137	16.6
14	4/2-4/5	0	--	--	--	--	10	104.5	68	159	28.1	7	113.0	80	198	41.3
15	4/9-4/12	19	26.7	25	30	1.3	4	100.8	65	162	43.6	18	105.8	77	153	24.2
16	4/16-4/19	13	26.9	24	28	1.2	2	109.5	69	150	57.3	3	126.3	94	143	28.0
17	4/23-4/26	6	24.8	22	28	2.2	0	--	--	--	--	7	123.4	104	144	14.3
18	4/30-5/3	108	26.5	19	31	1.8	2	73.5	70	77	5.0	10	106.5	88	143	18.0
19	5/7-5/8	60	26.3	24	30	1.1	0	--	--	--	--	0	--	--	--	--

Appendix I2. Klamath River at Bogus (RST) weekly Steelhead fork lengths (mm), 2002.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
13	3/26-3/29	0	--	--	--	--	5	144.0	70	215	66.9	8	133.3	100	160	20.9
14	4/2-4/5	0	--	--	--	--	6	122.2	87	157	27.9	5	109.2	80	165	34.8
15	4/9-4/12	0	--	--	--	--	0	--	--	--	--	21	134.5	90	175	25.7
16	4/16-4/19	0	--	--	--	--	0	--	--	--	--	9	123.6	93	175	34.7
17	4/23-4/26	1	25.0	25	25	0.0	1	77.0	77	77	0.0	5	134.2	115	157	21.3
18	4/30-5/3	8	27.1	25	29	1.5	1	90.0	90	90	0.0	9	131.2	98	180	26.9
19	5/8-5/8	0	--	--	--	--	0	--	--	--	--	2	150.0	132	168	25.5

Appendix I3. Klamath River at I-5 (frame net) weekly Steelhead fork lengths (mm), 2002.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/13-3/15	0	--	--	--	--	1	115.0	115	115	0.0	0	--	--	--	--
12	3/20-3/22	0	--	--	--	--	1	101.0	101	101	0.0	0	--	--	--	--
13	3/26-3/29	0	--	--	--	--	1	65.0	65	65	0.0	0	--	--	--	--
14	4/2-4/5	0	--	--	--	--	1	110.0	110	110	0.0	0	--	--	--	--
15	4/9-4/12	1	29.0	29	29	0.0	1	118.0	118	118	0.0	0	--	--	--	--
16	4/16-4/19	3	28.3	27	31	2.3	1	120.0	120	120	0.0	0	--	--	--	--
17	4/23-4/26	1	27.0	27	27	0.0	1	215.0	215	215	0.0	0	--	--	--	--
18	4/30-5/3	18	27.2	24	30	2.2	2	134.0	111	157	32.5	0	--	--	--	--
19	5/7-5/8	8	23.5	21	25	1.3	0	--	--	--	--	0	--	--	--	--

Appendix I4. Klamath River at I-5 (RST) weekly Steelhead fork lengths (mm), 2002.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0			Age-1+					Age-1+						
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/14-3/14	0	--	--	--	0	--	--	--	--	0	--	--	--	--	
12	3/19-3/22	0	--	--	--	6	175.2	110	268	61.6	0	--	--	--	--	
13	3/26-3/29	0	--	--	--	1	94.0	94	94	0.0	0	--	--	--	--	
14	4/2-4/5	0	--	--	--	4	160.8	144	177	13.7	0	--	--	--	--	
15	4/9-4/12	0	--	--	--	1	78.0	78	78	0.0	0	--	--	--	--	
16	4/16-4/19	0	--	--	--	5	152.8	138	183	17.4	0	--	--	--	--	
17	4/23-4/26	0	--	--	--	0	--	--	--	--	0	--	--	--	--	
18	4/30-5/3	0	--	--	--	6	158.3	141	185	17.7	1	184.0	184	184	0.0	
19	5/7-5/8	0	--	--	--	2	137.0	123	151	19.8	0	--	--	--	--	

Appendix I5. Klamath River at Kinsman (frame net) weekly Steelhead fork lengths (mm), 2002.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
12	3/20-3/22	0	--	--	--	--	5	86.4	45	220	75.4	0	--	--	--	--
13	3/26-3/29	0	--	--	--	--	4	76.0	54	126	33.9	0	--	--	--	--
14	4/2-4/5	0	--	--	--	--	4	59.0	50	66	6.8	0	--	--	--	--
15	4/9-4/12	0	--	--	--	--	4	69.0	59	90	14.2	1	170.0	170	170	0.0
16	4/16-4/19	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
17	4/23-4/26	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
18	4/30-5/3	1	26.0	26	26	0.0	4	109.8	54	190	57.4	0	--	--	--	--
19	5/7-5/9	0	--	--	--	--	3	112.7	89	126	20.6	0	--	--	--	--
21	5/22-5/23	3	25.3	24	27	1.5	3	114.3	87	130	23.8	0	--	--	--	--

Appendix I6. Klamath River at Kinsman (RST) weekly Steelhead fork lengths (mm), 2002.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0		Age-1+								Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/14-3/14	0	--	--	--	--	5	118.8	57	202	58.7	0	--	--	--	--
12	3/19-3/22	0	--	--	--	--	36	76.9	50	212	42.8	0	--	--	--	--
13	3/26-3/29	0	--	--	--	--	26	74.5	54	147	18.7	0	--	--	--	--
14	4/2-4/5	0	--	--	--	--	75	76.0	56	188	21.6	0	--	--	--	--
15	4/9-4/12	0	--	--	--	--	33	92.0	62	220	39.3	0	--	--	--	--
16	4/16-4/19	0	--	--	--	--	30	93.0	61	216	36.4	0	--	--	--	--
17	4/23-4/26	0	--	--	--	--	22	94.4	60	168	32.1	0	--	--	--	--
18	4/30-5/3	1	37.0	37	37	0.0	27	131.9	65	194	36.4	0	--	--	--	--
19	5/7-5/9	0	--	--	--	--	16	126.8	65	234	38.6	1	188.0	188	188	0.0
21	5/22-5/23	0	--	--	--	--	6	133.5	95	197	34.5	0	--	--	--	--
22	5/29-5/29	0	--	--	--	--	10	125.8	95	146	18.7	0	--	--	--	--

Appendix J. Klamath River weekly Chinook Salmon and Coho Salmon fork length information, 2003.

Appendix J1. Klamath River at Bogus (frame net) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2003.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/11-3/14	120	37.2	33	41	2.1	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	1	134.0	134	134	0.0
12	3/18-3/21	120	38.1	35	46	1.9	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
13	3/25-3/26	60	37.4	33	43	1.8	0	--	--	--	--	2	34.0	33	35	1.4	0	--	--	--	--	0	--	--	--	--
14	4/3-4/4	60	38.2	34	49	3.1	0	--	--	--	--	8	34.5	33	36	0.9	1	115.0	115	115	0.0	1	113.0	113	113	0.0
15	4/8-4/11	120	39.9	34	54	4.5	0	--	--	--	--	45	34.3	33	37	1.0	0	--	--	--	--	0	--	--	--	--
16	4/15-4/18	117	44.5	34	64	6.7	0	--	--	--	--	23	34.0	32	37	1.2	0	--	--	--	--	0	--	--	--	--
17	4/22-4/25	117	46.3	34	64	7.7	0	--	--	--	--	56	35.8	32	39	1.5	3	116.3	101	126	13.4	0	--	--	--	--
18	4/29-5/2	119	47.7	33	65	7.7	0	--	--	--	--	29	36.4	33	42	2.0	2	110.5	99	122	16.3	0	--	--	--	--
19	5/7-5/8	54	49.7	32	77	10.0	0	--	--	--	--	3	36.0	34	37	1.7	0	--	--	--	--	0	--	--	--	--
21	5/20-5/23	91	56.4	36	92	18.0	0	--	--	--	--	11	42.3	35	51	5.2	0	--	--	--	--	0	--	--	--	--
22	5/28-5/29	33	68.3	42	91	16.3	1	138.0	138	138	0.0	1	44.0	44	44	0.0	0	--	--	--	--	0	--	--	--	--

Appendix J2. Klamath River at I-5 (frame net) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2003.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
10	3/6-3/7	60	37.6	32	42	1.9	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
11	3/11-3/14	120	38.1	34	49	2.4	0	--	--	--	--	1	33.0	33	33	0.0	0	--	--	--	--	0	--	--	--	--
12	3/18-3/21	119	38.2	34	47	2.1	0	--	--	--	--	29	34.7	33	36	0.8	0	--	--	--	--	0	--	--	--	--
13	3/25-3/28	92	36.6	33	45	2.1	0	--	--	--	--	64	34.4	31	37	1.3	0	--	--	--	--	0	--	--	--	--
14	4/2-4/4	90	38.4	34	49	2.9	0	--	--	--	--	79	35.3	31	39	1.4	0	--	--	--	--	0	--	--	--	--
15	4/8-4/11	60	39.7	34	55	4.3	0	--	--	--	--	50	35.2	33	41	1.5	0	--	--	--	--	1	218.0	218	218	0.0
16	4/15-4/18	92	43.6	35	59	4.7	0	--	--	--	--	38	35.1	32	37	1.2	0	--	--	--	--	1	113.0	113	113	0.0
17	4/22-4/25	119	46.4	34	63	5.5	0	--	--	--	--	78	36.5	32	48	3.5	0	--	--	--	--	0	--	--	--	--
18	4/29-5/2	94	48.3	38	63	4.9	0	--	--	--	--	52	39.2	33	51	4.7	0	--	--	--	--	0	--	--	--	--
19	5/7-5/9	6	42.0	33	53	6.8	0	--	--	--	--	3	43.0	32	55	11.5	0	--	--	--	--	1	183.0	183	183	0.0
21	5/20-5/23	15	61.1	46	89	14.1	0	--	--	--	--	10	49.4	37	62	6.7	0	--	--	--	--	1	134.0	134	134	0.0
22	5/28-5/30	19	72.7	50	91	11.1	0	--	--	--	--	6	49.8	40	59	7.1	0	--	--	--	--	0	--	--	--	--

Appendix J3. Klamath River at I-5 (RST) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2003.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
14	4/2-4/4	2	37.5	37	38	0.7	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
15	4/8-4/11	50	45.2	36	62	6.6	0	--	--	--	--	2	37.0	36	38	1.4	0	--	--	--	--	0	--	--	--	--
16	4/15-4/18	13	46.5	44	52	2.6	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	1	121.0	121	121	0.0
17	4/22-4/25	19	52.4	41	73	7.7	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	3	153.7	149	159	5.0
18	4/29-5/2	24	48.4	40	64	6.6	0	--	--	--	--	0	--	--	--	--	2	136.0	122	150	19.8	0	--	--	--	--
19	5/6-5/9	7	55.6	47	61	4.9	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	1	192.0	192	192	0.0
20	5/13-5/14	4	50.3	38	60	9.1	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
21	5/20-5/23	4	73.0	59	81	9.9	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
22	5/28-5/30	12	72.1	55	92	9.8	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix J4. Klamath River at Kinsman (frame net) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2003.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
10	3/5-3/7	90	38.2	35	42	1.7	0	--	--	--	--	2	36.5	35	38	2.1	0	--	--	--	--	0	--	--	--	--
11	3/11-3/14	120	38.3	34	43	1.9	0	--	--	--	--	1	37.0	37	37	0.0	0	--	--	--	--	0	--	--	--	--
12	3/18-3/21	120	40.5	35	56	4.0	0	--	--	--	--	31	35.7	32	41	1.6	0	--	--	--	--	0	--	--	--	--
13	3/25-3/27	67	40.1	34	57	4.1	0	--	--	--	--	59	34.9	31	46	2.4	0	--	--	--	--	0	--	--	--	--
16	4/17-4/18	31	49.0	36	66	7.6	0	--	--	--	--	15	36.3	30	40	2.9	0	--	--	--	--	0	--	--	--	--
17	4/22-4/25	81	44.9	34	59	7.5	0	--	--	--	--	35	36.1	30	57	4.9	3	140.0	115	153	21.7	1	191.0	191	191	0.0
18	4/29-5/2	79	45.6	35	75	8.5	0	--	--	--	--	17	38.1	34	51	4.3	1	124.0	124	124	0.0	1	124.0	124	124	0.0
19	5/7-5/9	63	44.9	35	75	7.9	0	--	--	--	--	16	37.9	26	53	7.0	2	127.0	114	140	18.4	0	--	--	--	--
20	5/13-5/16	115	48.1	34	70	5.8	0	--	--	--	--	30	44.0	33	61	6.9	0	--	--	--	--	0	--	--	--	--
21	5/20-5/23	109	47.1	35	83	6.9	0	--	--	--	--	34	44.6	33	72	8.8	2	105.5	98	113	10.6	1	145.0	145	145	0.0
22	5/28-5/30	80	51.4	38	85	10.0	0	--	--	--	--	6	54.8	46	64	7.1	1	115.0	115	115	0.0	0	--	--	--	--
23	6/3-6/6	116	58.9	38	95	12.1	0	--	--	--	--	34	51.4	33	63	8.2	1	121.0	121	121	0.0	0	--	--	--	--
24	6/10-6/12	65	72.3	44	127	12.7	0	--	--	--	--	8	52.9	42	62	7.4	0	--	--	--	--	0	--	--	--	--

Appendix J5. Klamath River at Kinsman (RST) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2003.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
10	3/5-3/7	90	39.1	35	48	1.9	0	--	--	--	--	0	--	--	--	--	1	135.0	135	135	0.0	0	--	--	--	--
11	3/11-3/14	93	38.5	35	53	2.6	0	--	--	--	--	0	--	--	--	--	1	148.0	148	148	0.0	0	--	--	--	--
12	3/18-3/21	120	42.7	34	60	4.8	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
13	3/25-3/26	30	43.7	38	59	6.3	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
14	4/1-4/4	20	46.8	37	61	5.6	0	--	--	--	--	5	35.2	34	36	1.1	0	--	--	--	--	0	--	--	--	--
15	4/9-4/11	64	46.8	37	61	4.7	0	--	--	--	--	0	--	--	--	--	1	213.0	213	213	0.0	0	--	--	--	--
16	4/15-4/18	22	52.3	47	65	4.1	0	--	--	--	--	1	52.0	52	52	0.0	2	140.0	129	151	15.6	1	148.0	148	148	0.0
17	4/22-4/25	15	50.7	38	61	6.7	0	--	--	--	--	0	--	--	--	--	2	110.5	91	130	27.6	0	--	--	--	--
18	4/29-5/2	13	57.2	41	82	9.5	1	137.0	137	137	0.0	2	37.0	36	38	1.4	15	136.1	102	203	28.9	4	154.3	130	185	25.5
19	5/6-5/9	26	49.7	40	75	8.6	1	147.0	147	147	0.0	0	--	--	--	--	6	122.3	108	146	15.0	8	152.1	127	194	20.2
20	5/13-5/16	30	58.1	44	124	19.5	5	140.0	133	149	6.2	2	53.5	53	54	0.7	11	117.6	109	134	8.1	10	160.3	143	194	16.5
21	5/20-5/23	119	66.6	42	105	14.5	1	130.0	130	130	0.0	2	54.0	46	62	11.3	13	142.9	93	187	29.3	7	140.9	132	153	8.9
22	5/28-5/30	90	71.1	44	96	13.0	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	1	155.0	155	155	0.0
23	6/3-6/6	118	74.5	40	97	10.9	0	--	--	--	--	5	53.4	48	62	5.5	1	150.0	150	150	0.0	0	--	--	--	--
24	6/10-6/13	119	73.6	43	141	11.7	0	--	--	--	--	6	61.7	57	67	3.8	0	--	--	--	--	0	--	--	--	--
25	6/17-6/18	30	72.9	59	84	6.2	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
26	6/26-6/26	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix K. Klamath River weekly Steelhead fork length information, 2003.

Appendix K1. Klamath River at Bogus (frame net) weekly Steelhead fork lengths (mm), 2003.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/11-3/14	0	--	--	--	--	2	61.5	59	64	3.5	0	--	--	--	--
12	3/18-3/21	0	--	--	--	--	8	69.5	47	89	12.9	0	--	--	--	--
13	3/25-3/26	2	25.5	25	26	0.7	7	62.4	56	79	8.3	0	--	--	--	--
14	4/3-4/4	0	--	--	--	--	1	130.0	130	130	0.0	0	--	--	--	--
15	4/8-4/11	8	27.8	25	32	2.5	6	106.7	63	142	34.0	2	109.0	99	119	14.1
16	4/15-4/18	19	25.8	24	28	1.1	2	83.0	77	89	8.5	0	--	--	--	--
17	4/22-4/25	79	28.1	25	38	1.8	5	109.4	64	152	33.8	3	157.3	113	198	42.6
18	4/29-5/2	93	27.1	24	39	2.3	3	90.3	73	115	21.9	24	124.9	89	182	26.9
19	5/7-5/8	43	27.1	21	37	3.7	2	84.0	81	87	4.2	12	145.5	122	190	24.4
21	5/20-5/23	93	26.7	23	47	3.4	0	--	--	--	--	6	164.2	151	176	12.0
22	5/28-5/29	39	26.0	24	31	1.4	0	--	--	--	--	4	154.0	121	173	22.9

Appendix K2. Klamath River at I-5 (frame net) weekly Steelhead fork lengths (mm), 2003.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
10	3/6-3/7	0	--	--	--	--	1	129.0	129	129	0.0	0	--	--	--	--
11	3/11-3/14	0	--	--	--	--	0					0	--	--	--	--
12	3/18-3/21	0	--	--	--	--	4	109.0	67	156	47.1	0	--	--	--	--
13	3/25-3/28	0	--	--	--	--	2	108.5	98	119	14.9	0	--	--	--	--
14	4/2-4/4	2	25.0	25	25	0.0	1	72.0	72	72	0.0	0	--	--	--	--
15	4/8-4/11	1	25.0	25	25	0.0	1	81.0	81	81	0.0	0	--	--	--	--
16	4/15-4/18	11	26.0	25	28	1.0	1	71.0	71	71	0.0	0	--	--	--	--
17	4/22-4/25	27	28.0	23	41	3.9	2	139.5	134	145	7.8	0	--	--	--	--
18	4/29-5/2	27	28.4	25	42	3.0	2	115.5	112	119	5.0	2	127.5	105	150	31.8
19	5/7-5/9	1	24.0	24	24	0.0	3	163.7	150	189	22.0	0	--	--	--	--
21	5/20-5/23	19	26.5	23	32	2.3	1	129.0	129	129	0.0	0	--	--	--	--
22	5/28-5/30	2	43.0	37	49	8.5	5	157.8	129	202	30.1	1	163.0	163	163	0.0

Appendix K3. Klamath River at I-5 (RST) weekly Steelhead fork lengths (mm), 2003.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
14	4/2-4/4	0	--	--	--	--	2	84.0	84	84	0.0	0	--	--	--	--
15	4/8-4/11	1	27.0	27	27	0.0	1	82.0	82	82	0.0	0	--	--	--	--
16	4/15-4/18	0	--	--	--	--	2	118.5	97	140	30.4	0	--	--	--	--
17	4/22-4/25	1	39.0	39	39	0.0	3	159.3	121	183	33.5	0	--	--	--	--
18	4/29-5/2	0	--	--	--	--	2	166.5	156	177	14.9	0	--	--	--	--
19	5/6-5/9	0	--	--	--	--	4	118.5	90	149	29.4	1	175.0	175	175	0.0
20	5/13-5/14	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
21	5/20-5/23	0	--	--	--	--	0	--	--	--	--	1	160.0	160	160	0.0
22	5/28-5/30	0	--	--	--	--	0	--	--	--	--	5	157.8	140	179	15.6

Appendix K4. Klamath River at Kinsman (frame net) weekly Steelhead fork lengths (mm), 2003.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
10	3/5-3/7	0	--	--	--	--	3	63.0	50	71	11.4	0	--	--	--	--
11	3/11-3/14	0	--	--	--	--	17	60.6	45	79	10.3	0	--	--	--	--
12	3/18-3/21	0	--	--	--	--	4	58.3	47	66	8.4	0	--	--	--	--
13	3/25-3/27	0	--	--	--	--	11	61.0	52	73	8.5	0	--	--	--	--
17	4/22-4/25	3	25.3	25	26	0.6	4	98.8	68	137	28.7	0	--	--	--	--
18	4/29-5/2	30	27.8	26	31	1.2	7	124.6	86	180	32.2	0	--	--	--	--
19	5/7-5/9	6	26.8	25	29	1.3	4	94.0	83	109	13.1	0	--	--	--	--
20	5/13-5/16	11	27.5	26	30	1.1	5	119.6	78	165	41.1	0	--	--	--	--
21	5/20-5/23	12	26.4	24	29	1.7	10	120.0	101	135	12.9	0	--	--	--	--
22	5/28-5/30	23	26.6	24	34	2.1	8	109.4	82	148	19.7	0	--	--	--	--
23	6/3-6/6	56	31.2	24	52	5.6	19	112.0	66	180	29.5	0	--	--	--	--
24	6/10-6/12	57	31.6	23	55	7.9	12	105.3	80	132	14.8	0	--	--	--	--

Appendix K5. Klamath River at Kinsman (RST) weekly Steelhead fork lengths (mm), 2003.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
10	3/5-3/7	0	--	--	--	--	6	55.0	45	67	8.2	0	--	--	--	--
11	3/11-3/14	0	--	--	--	--	20	74.7	51	170	33.7	0	--	--	--	--
12	3/18-3/21	0	--	--	--	--	7	69.9	56	100	14.9	0	--	--	--	--
13	3/25-3/26	0	--	--	--	--	1	82.0	82	82	0.0	0	--	--	--	--
14	4/1-4/4	0	--	--	--	--	6	107.2	59	165	44.0	0	--	--	--	--
15	4/9-4/11	0	--	--	--	--	2	121.0	66	176	77.8	0	--	--	--	--
16	4/15-4/18	0	--	--	--	--	3	122.7	93	144	26.5	0	--	--	--	--
17	4/22-4/25	0	--	--	--	--	8	120.1	74	165	31.6	0	--	--	--	--
18	4/29-5/2	0	--	--	--	--	13	145.7	104	229	34.9	0	--	--	--	--
19	5/6-5/9	1	33.0	33	33	0.0	23	128.1	67	164	24.3	0	--	--	--	--
20	5/13-5/16	0	--	--	--	--	18	149.9	91	193	30.3	0	--	--	--	--
21	5/20-5/23	0	--	--	--	--	67	133.3	73	202	33.4	1	150.0	150	150	0.0
22	5/28-5/30	1	26.0	26	26	0.0	22	128.6	87	187	26.0	0	--	--	--	--
23	6/3-6/6	5	41.4	37	46	3.5	42	129.0	89	191	30.6	2	192.5	190	195	3.5
24	6/10-6/13	5	43.0	35	53	7.5	14	109.1	62	167	33.4	0	--	--	--	--
25	6/17-6/18	6	29.8	27	37	3.8	8	106.6	87	133	15.0	0	--	--	--	--
26	6/26-6/26	2	33.5	28	39	7.8	2	124.0	112	136	17.0	0	--	--	--	--

Appendix L. Klamath River weekly Chinook Salmon and Coho Salmon fork length information, 2004.**Appendix L1. Klamath River at Bogus (frame net) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2004.**

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/10-3/12	90	37.4	33	45	2.1	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/16-3/19	120	38.0	33	42	1.6	0	--	--	--	--	53	35.9	32	45	2.0	0	--	--	--	--	0	--	--	--	--
13	3/24-3/26	60	39.3	36	48	1.9	0	--	--	--	--	81	36.5	32	39	1.7	0	--	--	--	--	0	--	--	--	--
14	3/30-4/2	90	38.4	35	43	1.6	0	--	--	--	--	28	35.6	33	39	1.5	3	123.7	110	131	11.9	6	135.0	123	146	8.6
15	4/6-4/9	91	39.4	30	59	3.5	1	191.0	191	191	0.0	49	36.3	33	41	1.8	0	--	--	--	--	0	--	--	--	--
16	4/13-4/16	91	39.4	34	61	3.9	0	--	--	--	--	88	36.2	33	43	1.8	0	--	--	--	--	1	94.0	94	94	0.0
17	4/20-4/23	90	41.5	34	57	5.5	0	--	--	--	--	35	41.7	35	49	4.6	0	--	--	--	--	0	--	--	--	--
18	4/27-5/1	109	44.5	34	71	8.0	0	--	--	--	--	113	43.2	34	57	4.3	0	--	--	--	--	0	--	--	--	--
19	5/2-5/7	64	45.6	34	75	8.6	0	--	--	--	--	57	46.3	37	55	4.2	1	144.0	144	144	0.0	1	138.0	138	138	0.0
20	5/9-5/13	123	43.9	35	96	7.0	0	--	--	--	--	61	47.9	39	61	4.6	0	--	--	--	--	0	--	--	--	--

Appendix L2. Klamath River at Bogus (RST) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2004.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/10-3/12	68	38.8	34	47	2.2	0	--	--	--	--	0	--	--	--	--	1	108.0	108	108	0.0	0	--	--	--	--
12	3/16-3/19	112	39.0	35	47	2.1	1	110.0	110	110	0.0	0	--	--	--	--	2	116.5	113	120	5.0	0	--	--	--	--
13	3/24-3/26	60	39.8	35	52	2.6	0	--	--	--	--	1	34.0	34	34	0.0	0	--	--	--	--	0	--	--	--	--
14	3/30-4/2	66	38.9	35	56	2.6	0	--	--	--	--	1	35.0	35	35	0.0	7	126.4	109	155	14.5	31	131.4	111	178	13.3
15	4/6-4/9	36	39.3	36	43	1.6	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	7	138.9	127	159	12.3
16	4/13-4/15	90	42.6	35	58	5.5	0	--	--	--	--	3	36.7	35	39	2.1	0	--	--	--	--	8	138.5	129	145	6.3
17	4/20-4/21	60	45.9	32	64	7.7	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	1	158.0	158	158	0.0
19	5/4-5/5	33	52.0	39	73	7.9	0	--	--	--	--	1	49.0	49	49	0.0	0	--	--	--	--	7	158.9	152	167	6.7

Appendix L3. Klamath River at I-5 (frame net) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2004.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/11-3/12	60	39.0	34	42	1.6	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/16-3/19	120	39.2	34	43	1.9	0	--	--	--	--	2	35.0	34	36	1.4	0	--	--	--	--	0	--	--	--	--
13	3/23-3/26	90	39.3	36	54	2.3	0	--	--	--	--	24	37.1	35	39	1.0	0	--	--	--	--	0	--	--	--	--
14	3/30-4/2	90	39.1	35	43	1.9	0	--	--	--	--	57	35.8	33	38	1.2	0	--	--	--	--	4	121.0	114	125	4.8
15	4/6-4/9	90	39.9	34	53	3.6	0	--	--	--	--	23	36.0	32	38	1.6	1	165.0	165	165	0.0	2	134.5	131	138	5.0
16	4/13-4/16	90	40.5	34	59	3.9	0	--	--	--	--	71	35.9	31	44	1.8	0	--	--	--	--	1	142.0	142	142	0.0
17	4/20-4/23	90	42.3	35	56	4.8	0	--	--	--	--	13	36.5	31	49	5.3	0	--	--	--	--	1	134.0	134	134	0.0
18	4/27-4/30	58	44.4	32	64	7.0	0	--	--	--	--	6	43.5	37	50	4.8	0	--	--	--	--	6	150.5	125	165	14.7
19	5/4-5/6	14	45.4	38	64	6.6	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	5	145.8	135	157	10.2

Appendix L4. Klamath River at I-5 (RST) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2004.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/10-3/10	13	39.2	34	41	2.2	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/18-3/18	30	41.0	36	46	2.5	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
13	3/24-3/26	58	39.1	36	43	1.5	0	--	--	--	--	1	38.0	38	38	0.0	0	--	--	--	--	0	--	--	--	--
14	3/30-4/2	90	39.5	35	49	2.4	0	--	--	--	--	7	35.6	34	38	1.5	2	123.0	121	125	2.8	32	136.3	124	176	11.9
15	4/6-4/9	90	39.5	34	50	2.8	0	--	--	--	--	2	37.0	36	38	1.4	0	--	--	--	--	15	143.1	121	167	15.5
16	4/13-4/15	90	41.9	35	62	5.7	0	--	--	--	--	6	37.0	35	43	3.0	0	--	--	--	--	8	137.3	130	148	6.9
17	4/20-4/21	59	41.6	34	57	4.6	1	161.0	161	161	0.0	1	36.0	36	36	0.0	1	141.0	141	141	0.0	11	142.6	130	158	9.4

Appendix L5. Klamath River at Kinsman (frame net) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2004.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0 n	Mean	Min	Max	SD	Age-1+ n	Mean	Min	Max	SD	Age-0 n	Mean	Min	Max	SD	Age-1+ n	Mean	Min	Max	SD	Age-1+ n	Mean	Min	Max	SD
11	3/10-3/12	90	39.6	32	47	2.4	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/16-3/19	120	39.9	34	45	2.3	0	--	--	--	--	9	35.0	34	36	0.7	0	--	--	--	--	0	--	--	--	--
13	3/23-3/26	90	39.6	33	49	3.6	0	--	--	--	--	30	35.3	31	38	1.2	0	--	--	--	--	0	--	--	--	--
14	3/30-4/2	90	42.5	34	56	4.6	0	--	--	--	--	15	37.2	35	46	2.7	1	99.0	99	99	0.0	0	--	--	--	--
15	4/6-4/9	70	43.4	33	55	5.5	0	--	--	--	--	15	35.9	31	40	2.3	0	--	--	--	--	0	--	--	--	--
16	4/13-4/16	53	41.2	34	57	5.2	0	--	--	--	--	46	33.9	31	39	1.3	0	--	--	--	--	0	--	--	--	--
17	4/20-4/23	74	43.4	35	60	4.7	0	--	--	--	--	13	36.4	32	53	5.3	0	--	--	--	--	0	--	--	--	--
18	4/27-4/30	70	45.3	37	62	5.8	0	--	--	--	--	6	41.5	34	53	8.5	3	106.3	100	111	5.7	0	--	--	--	--
19	5/4-5/7	59	51.0	41	70	6.1	0	--	--	--	--	1	44.0	44	44	0.0	0	--	--	--	--	0	--	--	--	--
20	5/9-5/15	195	50.1	30	76	8.5	0	--	--	--	--	50	45.0	33	70	8.0	2	116.5	115	118	2.1	0	--	--	--	--
21	5/18-5/22	146	53.0	36	81	9.3	1	139.0	139	139	0.0	19	43.9	32	58	6.6	0	--	--	--	--	0	--	--	--	--
22	5/23-5/29	182	58.5	35	103	14.9	0	--	--	--	--	16	51.2	36	65	8.0	0	--	--	--	--	0	--	--	--	--
23	5/30-6/5	89	65.7	41	112	14.6	0	--	--	--	--	5	49.4	35	61	11.1	0	--	--	--	--	1	208.0	208	208	0.0
24	6/6-6/12	103	71.8	40	127	13.5	1	164.0	164	164	0.0	4	41.3	40	42	1.0	0	--	--	--	--	0	--	--	--	--
25	6/13-6/19	83	68.1	34	89	8.4	0	--	--	--	--	3	65.3	58	70	6.4	1	150.0	150	150	0.0	0	--	--	--	--
26	6/22-6/26	8	61.9	42	76	11.4	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
27	6/28-6/28	1	55.0	55	55	0.0	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix L6. Klamath River at Kinsman (RST) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2004.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0 n	Mean	Min	Max	SD	Age-1+ n	Mean	Min	Max	SD	Age-0 n	Mean	Min	Max	SD	Age-1+ n	Mean	Min	Max	SD	Age-1+ n	Mean	Min	Max	SD
11	3/10-3/12	19	41.1	37	47	2.5	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/16-3/19	11	43.5	38	52	4.0	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
13	3/23-3/26	40	44.4	38	54	3.9	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
14	3/30-4/2	57	47.2	39	63	4.8	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
15	4/6-4/9	9	43.6	39	48	3.5	0	--	--	--	--	0	--	--	--	--	1	128.0	128	128	0.0	0	--	--	--	--
16	4/13-4/13	8	48.0	44	56	4.4	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
17	4/20-4/21	17	52.7	41	65	6.1	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
19	5/4-5/7	30	51.7	41	84	9.0	0	--	--	--	--	0	--	--	--	--	2	122.5	114	131	12.0	1	137.0	137	137	0.0
20	5/9-5/15	90	59.9	40	98	10.8	0	--	--	--	--	0	--	--	--	--	2	124.0	115	133	12.7	1	135.0	135	135	0.0
21	5/16-5/22	50	65.8	40	123	16.6	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	1	179.0	179	179	0.0
22	5/23-5/29	47	70.2	42	105	14.4	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
23	5/30-6/5	89	70.9	40	116	17.6	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
24	6/6-6/12	119	73.8	44	109	10.9	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
25	6/13-6/19	171	69.8	43	112	8.4	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
26	6/20-6/26	122	70.3	45	98	6.7	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
27	6/27-7/3	11	73.7	63	90	8.6	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix M. Klamath River weekly Steelhead fork length information, 2004.

Appendix M1. Klamath River at Bogus (frame net) weekly Steelhead fork lengths (mm), 2004.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/10-3/12	0	--	--	--	--	1	99.0	99	99	0.0	0	--	--	--	--
12	3/16-3/19	0	--	--	--	--	8	81.6	63	154	29.9	0	--	--	--	--
13	3/24-3/26	0	--	--	--	--	5	67.4	54	98	18.8	0	--	--	--	--
14	3/30-4/2	0	--	--	--	--	2	90.0	65	115	35.4	0	--	--	--	--
15	4/6-4/9	1	28.0	28	28	0.0	0	--	--	--	--	1	86.0	86	86	0.0
16	4/13-4/16	14	26.1	24	30	1.7	0	--	--	--	--	0	--	--	--	--
17	4/20-4/23	9	27.2	25	30	1.6	0	--	--	--	--	0	--	--	--	--
18	4/27-5/1	63	26.0	23	29	1.2	0	--	--	--	--	0	--	--	--	--
19	5/2-5/7	68	26.3	23	30	1.9	1	153.0	153	153	0.0	1	98.0	98	98	0.0
20	5/9-5/13	139	27.2	22	33	2.0	2	141.0	113	169	39.6	4	157.5	145	164	8.5

Appendix M2. Klamath River at Bogus (RST) weekly Steelhead fork lengths (mm), 2004.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/10-3/12	0	--	--	--	--	21	117.8	77	180	31.5	1	125.0	125	125	0.0
12	3/16-3/19	0	--	--	--	--	22	118.7	64	265	42.3	3	133.7	92	177	42.5
13	3/24-3/26	0	--	--	--	--	5	73.0	63	80	7.9	1	215.0	215	215	0.0
14	3/30-4/2	0	--	--	--	--	12	117.1	71	205	37.6	4	114.8	109	124	6.7
15	4/6-4/9	0	--	--	--	--	4	162.0	109	204	40.8	71	129.8	94	173	15.5
16	4/13-4/15	0	--	--	--	--	3	112.7	98	130	16.2	44	131.1	92	172	20.6
17	4/20-4/21	0	--	--	--	--	5	127.4	105	159	23.7	53	132.9	95	170	19.4
19	5/4-5/5	0	--	--	--	--	4	141.5	83	197	48.2	12	151.9	122	186	22.1

Appendix M3. Klamath River at I-5 (frame net) weekly Steelhead fork lengths (mm), 2004.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/11-3/12	0	--	--	--	--	1	129.0	129	129	0.0	0	--	--	--	--
12	3/16-3/19	0	--	--	--	--	4	71.0	59	92	14.6	0	--	--	--	--
13	3/23-3/26	0	--	--	--	--	3	159.0	145	168	12.3	0	--	--	--	--
14	3/30-4/2	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
15	4/6-4/9	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
16	4/13-4/16	30	28.3	25	30	1.2	1	130.0	130	130	0.0	0	--	--	--	--
17	4/20-4/23	27	27.4	25	30	1.3	2	112.5	57	168	78.5	0	--	--	--	--
18	4/27-4/30	13	26.0	23	29	1.6	3	162.7	133	195	31.1	0	--	--	--	--
19	5/4-5/6	6	27.2	26	28	0.8	1	155.0	155	155	0.0	1	145.0	145	145	0.0

Appendix M4. Klamath River at I-5 (RST) weekly Steelhead fork lengths (mm), 2004.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/10-3/10	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/18-3/18	0	--	--	--	--	2	78.0	47	109	43.8	0	--	--	--	--
13	3/24-3/26	0	--	--	--	--	9	91.8	61	153	34.0	0	--	--	--	--
14	3/30-4/2	0	--	--	--	--	9	83.1	62	149	28.3	0	--	--	--	--
15	4/6-4/9	0	--	--	--	--	12	108.3	64	161	38.0	1	121.0	121	121	0.0
16	4/13-4/15	4	26.3	25	28	1.3	8	114.6	68	160	38.5	0	--	--	--	--
17	4/20-4/21	1	27.0	27	27	0.0	9	151.7	70	176	32.9	0	--	--	--	--

Appendix M5. Klamath River at Kinsman (frame net) weekly Steelhead fork lengths (mm), 2004.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/10-3/12	0	--	--	--	--	4	56.3	49	65	7.2	0	--	--	--	--
12	3/16-3/19	0	--	--	--	--	6	76.3	50	164	43.6	0	--	--	--	--
13	3/23-3/26	0	--	--	--	--	6	87.5	53	163	45.6	0	--	--	--	--
14	3/30-4/2	0	--	--	--	--	1	171.0	171	171	0.0	0	--	--	--	--
15	4/6-4/9	0	--	--	--	--	2	117.0	108	126	12.7	0	--	--	--	--
16	4/13-4/16	2	27.0	27	27	0.0	5	120.0	93	138	18.1	0	--	--	--	--
17	4/20-4/23	4	26.5	25	28	1.3	1	148.0	148	148	0.0	0	--	--	--	--
18	4/27-4/30	3	28.0	26	29	1.7	12	119.0	90	160	22.8	0	--	--	--	--
19	5/4-5/7	0	--	--	--	--	6	129.5	99	164	23.8	0	--	--	--	--
20	5/9-5/15	37	29.1	24	41	4.4	17	127.6	85	170	24.2	0	--	--	--	--
21	5/18-5/22	82	28.3	23	40	2.4	19	127.1	98	161	17.0	0	--	--	--	--
22	5/23-5/29	74	27.8	24	44	3.1	27	126.8	90	174	23.8	0	--	--	--	--
23	5/30-6/5	35	30.2	25	49	6.7	24	133.0	73	172	24.4	0	--	--	--	--
24	6/6-6/12	84	30.0	23	51	5.6	42	127.7	71	168	19.0	1	179.0	179	179	0.0
25	6/13-6/19	25	32.3	22	47	7.3	25	128.2	72	164	21.1	2	154.5	105	204	70.0
26	6/22-6/26	9	28.2	24	39	4.6	6	135.8	121	159	12.5	0	--	--	--	--
27	6/28-6/28	2	32.5	26	39	9.2	0	--	--	--	--	0	--	--	--	--

Appendix M6. Klamath River at Kinsman (RST) weekly Steelhead fork lengths (mm), 2004.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/10-3/12	0	--	--	--	--		52.0	52	52	0.0	0	--	--	--	--
12	3/16-3/19	0	--	--	--	--	1	68.0	68	68	0.0	0	--	--	--	--
13	3/23-3/26	0	--	--	--	--	1	164.0	164	164	0.0	0	--	--	--	--
14	3/30-4/2	0	--	--	--	--	2	82.5	78	87	6.4	0	--	--	--	--
15	4/6-4/9	0	--	--	--	--	1	118.0	118	118	0.0	0	--	--	--	--
16	4/13-4/13	0	--	--	--	--	3	131.7	113	152	19.6	0	--	--	--	--
17	4/20-4/21	0	--	--	--	--	2	107.0	101	113	8.5	0	--	--	--	--
19	5/4-5/7	0	--	--	--	--	8	129.6	95	163	26.7	0	--	--	--	--
20	5/9-5/15	0	--	--	--	--	50	132.1	82	205	24.3	0	--	--	--	--
21	5/16-5/22	0	--	--	--	--	35	138.7	101	195	23.9	0	--	--	--	--
22	5/23-5/29	0	--	--	--	--	37	142.1	97	205	24.4	1	179.0	179	179	0.0
23	5/30-6/5	4	38.3	27	50	11.4	14	129.6	95	169	25.3	1	200.0	200	200	0.0
24	6/6-6/12	2	37.0	26	48	15.6	41	136.5	86	220	26.9	2	188.5	182	195	9.2
25	6/13-6/19	4	36.8	31	42	5.1	57	135.8	82	191	23.6	1	174.0	174	174	0.0
26	6/20-6/26	3	36.3	35	38	1.5	45	135.0	96	185	23.2	2	175.5	124	227	72.8
27	6/27-7/3	5	37.6	24	48	10.2	11	129.6	102	165	23.7	1	174.0	174	174	0.0

Appendix N. Klamath River weekly Chinook Salmon and Coho Salmon fork length information, 2005.**Appendix N1. Klamath River at Bogus (frame net) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2005.**

Calendar Week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
10	3/2-3/2	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
11	3/8-3/10	149	38.2	29	44	2.8	1	77.0	77	77	0.0	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/15-3/18	183	38.7	32	49	2.7	0	--	--	--	--	92	36.3	33	40	1.4	0	--	--	--	--	0	--	--	--	--
13	3/22-3/25	181	39.2	31	51	3.2	0	--	--	--	--	37	36.0	31	40	1.9	0	--	--	--	--	0	--	--	--	--
14	3/29-4/1	180	38.5	33	60	3.5	0	--	--	--	--	180	34.9	31	40	1.6	0	--	--	--	--	0	--	--	--	--
15	4/5-4/8	150	39.0	32	52	3.8	0	--	--	--	--	150	35.5	31	45	1.9	0	--	--	--	--	8	146.3	129	173	14.8
16	4/12-4/15	189	40.5	31	59	5.4	0	--	--	--	--	170	36.2	31	46	1.7	2	142.0	135	149	9.9	51	143.7	106	177	15.4
17	4/19-4/22	108	45.7	33	60	7.2	0	--	--	--	--	20	35.8	32	40	2.0	0	--	--	--	--	1	143.0	143	143	0.0
18	4/26-4/29	181	44.8	33	68	7.0	0	--	--	--	--	181	36.7	31	55	3.6	0	--	--	--	--	0	--	--	--	--
19	5/3-5/4	72	51.0	38	71	8.3	0	--	--	--	--	56	43.2	33	62	7.2	0	--	--	--	--	0	--	--	--	--

Appendix N2. Klamath River at I-5 (frame net) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2005.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/11-3/11	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/15-3/18	135	39.5	35	46	2.2	0	--	--	--	--	6	34.7	34	36	0.8	0	--	--	--	--	0	--	--	--	--
13	3/22-3/25	39	39.9	33	46	3.5	0	--	--	--	--	5	36.6	36	38	0.9	0	--	--	--	--	0	--	--	--	--
14	3/29-4/1	100	41.5	31	55	5.0	1	112.0	112	112	0.0	3	33.7	33	34	0.6	0	--	--	--	--	0	--	--	--	--
15	4/5-4/8	112	42.7	34	58	6.0	0	--	--	--	--	53	35.9	33	40	1.4	0	--	--	--	--	2	156.5	151	162	7.8
16	4/12-4/15	115	45.4	32	64	7.0	0	--	--	--	--	15	36.7	34	43	2.7	1	127.0	127	127	0.0	0	--	--	--	--
17	4/19-4/21	45	52.0	35	67	8.3	0	--	--	--	--	18	36.3	33	46	3.3	1	121.0	121	121	0.0	0	--	--	--	--
18	4/26-4/28	87	49.2	34	64	7.0	0	--	--	--	--	55	40.6	32	59	6.4	1	139.0	139	139	0.0	9	146.6	135	160	8.3
19	5/3-5/4	6	55.7	49	64	6.7	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	2	151.5	149	154	3.5

Appendix N3. Klamath River at Kinsman (frame net) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2005.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/9-3/11	76	39.7	28	53	3.4	2	102.5	96	109	9.2	13	33.9	30	41	3.1	0	--	--	--	--	0	--	--	--	--
12	3/15-3/18	59	44.9	35	59	6.7	0	--	--	--	--	42	34.9	28	39	2.2	0	--	--	--	--	0	--	--	--	--
13	3/22-3/25	35	46.4	29	65	9.8	0	--	--	--	--	51	35.1	34	37	0.8	4	103.5	98	110	5.5	0	--	--	--	--
14	3/29-4/1	117	47.8	36	74	10.0	0	--	--	--	--	76	35.7	32	46	2.2	5	99.8	84	110	10.1	0	--	--	--	--
15	4/5-4/8	90	51.1	34	70	9.8	0	--	--	--	--	52	35.2	33	45	2.4	1	99.0	99	99	0.0	0	--	--	--	--
16	4/12-4/15	67	55.1	29	75	8.3	0	--	--	--	--	64	34.7	31	51	4.1	0	--	--	--	--	0	--	--	--	--
17	4/19-4/22	25	58.4	37	75	9.7	2	130.0	120	140	14.1	32	34.2	32	40	1.7	0	--	--	--	--	0	--	--	--	--
18	4/26-4/28	28	57.8	33	76	10.1	0	--	--	--	--	34	46.5	32	62	9.9	0	--	--	--	--	0	--	--	--	--
19	5/3-5/4	55	59.2	47	80	7.9	0	--	--	--	--	60	42.3	33	60	8.3	2	148.0	138	158	14.1	1	158.0	158	158	0.0
23	6/1-6/3	52	68.0	35	135	21.1	3	154.7	154	156	1.2	164	44.1	34	68	5.6	1	100.0	100	100	0.0	1	45.0	45	45	0.0
24	6/8-6/8	12	78.6	61	98	10.9	0	--	--	--	--	30	53.1	39	75	10.4	0	--	--	--	--	0	--	--	--	--
25	6/14-6/14	11	74.9	68	85	5.2	0	--	--	--	--	22	47.3	39	75	8.9	0	--	--	--	--	0	--	--	--	--
26	6/21-6/21	14	73.4	60	86	8.2	0	--	--	--	--	9	56.0	39	70	12.4	0	--	--	--	--	0	--	--	--	--
27	6/28-6/29	3	56.7	43	65	11.9	0	--	--	--	--	14	50.5	39	70	8.6	0	--	--	--	--	0	--	--	--	--

Appendix N4. Klamath River at Kinsman (RST) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2005.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
14	3/31-4/1	29	58.0	37	71	7.7	0	--	--	--	--	1	35.0	35	35	0.0	0	--	--	--	--	0	--	--	--	--
15	4/5-4/8	49	63.0	38	75	7.2	0	--	--	--	--	1	34.0	34	34	0.0	0	--	--	--	--	0	--	--	--	--
16	4/12-4/15	51	64.7	36	83	8.6	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
17	4/19-4/22	48	68.0	48	85	7.6	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
18	4/26-4/29	18	67.3	51	81	9.0	0	--	--	--	--	1	47.0	47	47	0.0	0	--	--	--	--	1	171.0	171	171	0.0
19	5/3-5/4	34	58.3	45	75	6.7	0	--	--	--	--	32	38.8	32	55	6.7	0	--	--	--	--	0	--	--	--	--
20	5/10-5/11	14	60.8	41	80	10.6	0	--	--	--	--	8	52.1	40	58	5.6	1	145.0	145	145	0.0	0	--	--	--	--
21	5/17-5/18	8	68.5	53	76	7.4	0	--	--	--	--	7	59.9	50	72	8.4	2	141.0	132	150	12.7	1	179.0	179	179	0.0
22	5/24-5/25	64	81.5	45	103	12.9	0	--	--	--	--	3	52.7	42	68	13.6	0	--	--	--	--	2	150.5	150	151	0.7
23	6/1-6/3	96	82.1	29	128	11.8	0	--	--	--	--	20	56.1	40	75	10.5	1	128.0	128	128	0.0	0	--	--	--	--
24	6/8-6/8	31	83.4	62	105	11.5	0	--	--	--	--	6	56.8	42	68	10.5	0	--	--	--	--	0	--	--	--	--
25	6/14-6/14	30	81.8	65	94	7.0	0	--	--	--	--	5	64.6	55	71	7.9	0	--	--	--	--	0	--	--	--	--
26	6/21-6/22	34	75.4	64	91	7.5	0	--	--	--	--	2	57.0	55	59	2.8	0	--	--	--	--	1	69.0	69	69	0.0
27	6/28-6/29	48	81.2	58	111	12.2	0	--	--	--	--	16	61.3	45	79	8.7	0	--	--	--	--	0	--	--	--	--
28	7/6-7/7	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix O. Klamath River weekly Steelhead fork length information, 2005.

Appendix O1. Klamath River at Bogus (frame net) weekly Steelhead fork lengths (mm), 2005.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
10	3/2-3/2	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
11	3/8-3/10	0	--	--	--	--	2	86.0	72	100	19.8	0	--	--	--	--
12	3/15-3/18	0	--	--	--	--	3	134.0	104	173	35.4	0	--	--	--	--
13	3/22-3/25	0	--	--	--	--	2	99.0	66	132	46.7	0	--	--	--	--
14	3/29-4/1	2	25.5	25	26	0.7	1	71.0	71	71	0.0	0	--	--	--	--
15	4/5-4/8	13	25.4	22	28	1.6	1	112.0	112	112	0.0	11	110.3	91	161	20.9
16	4/12-4/15	57	27.0	22	34	1.9	1	75.0	75	75	0.0	10	119.7	77	151	23.7
17	4/19-4/22	34	25.7	24	27	0.8	0	--	--	--	--	3	115.7	94	130	19.1
18	4/26-4/29	166	26.8	24	31	1.2	6	103.3	82	146	23.6	8	131.0	96	173	24.3
19	5/3-5/4	37	27.5	25	31	1.4	3	103.3	92	117	12.7	20	132.2	82	170	27.6

Appendix O2. Klamath River at I-5 (frame net) weekly Steelhead fork lengths (mm), 2005.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/11-3/11	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/15-3/18	0	--	--	--	--	3	146.0	135	152	9.5	0	--	--	--	--
13	3/22-3/25	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
14	3/29-4/1	0	--	--	--	--	10	81.4	58	122	19.6	0	--	--	--	--
15	4/5-4/8	0	--	--	--	--	1	79.0	79	79	0.0	1	71.0	71	71	0.0
16	4/12-4/15	0	--	--	--	--	0	--	--	--	--	1	138.0	138	138	0.0
17	4/19-4/21	7	25.9	25	27	0.7	0	--	--	--	--	0	--	--	--	--
18	4/26-4/28	45	27.1	25	30	1.2	3	150.0	140	163	11.8	1	103.0	103	103	0.0
19	5/3-5/4	8	27.5	26	29	1.1	0	--	--	--	--	0	--	--	--	--

Appendix O3. Klamath River at Kinsman (frame net) weekly Steelhead fork lengths (mm), 2005.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/9-3/11	0	--	--	--	--	2	111.0	72	150	55.2	0	--	--	--	--
12	3/15-3/18	0	--	--	--	--	9	87.9	52	180	43.1	0	--	--	--	--
13	3/22-3/25	0	--	--	--	--	7	93.7	64	150	32.8	0	--	--	--	--
14	3/29-4/1	0	--	--	--	--	15	76.5	56	160	26.9	0	--	--	--	--
15	4/5-4/8	0	--	--	--	--	12	83.3	57	146	28.6	0	--	--	--	--
16	4/12-4/15	0	--	--	--	--	2	79.0	63	95	22.6	0	--	--	--	--
17	4/19-4/22	0	--	--	--	--	1	131.0	131	131	0.0	0	--	--	--	--
18	4/26-4/28	9	28.4	27	31	1.7	9	130.1	98	172	24.2	0	--	--	--	--
19	5/3-5/4	40	27.5	25	33	1.5	2	124.5	109	140	21.9	0	--	--	--	--
23	6/1-6/3	43	35.0	26	48	7.0	6	123.7	104	175	26.9	0	--	--	--	--
24	6/8-6/8	17	33.5	27	46	7.0	1	122.0	122	122	0.0	0	--	--	--	--
25	6/14-6/14	1	32.0	32	32	0.0	1	198.0	198	198	0.0	0	--	--	--	--
26	6/21-6/21	1	27.0	27	27	0.0	1	156.0	156	156	0.0	0	--	--	--	--
27	6/28-6/29	6	37.3	27	45	6.2	0	--	--	--	--	0	--	--	--	--

Appendix O4. Klamath River at Kinsman (RST) weekly Steelhead fork lengths (mm), 2005.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
14	3/31-4/1	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
15	4/5-4/8	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
16	4/12-4/15	0	--	--	--	--	1	87.0	87	87	0.0	0	--	--	--	--
17	4/19-4/22	0	--	--	--	--	1	230.0	230	230	0.0	0	--	--	--	--
18	4/26-4/29	1	29.0	29	29	0.0	1	135.0	135	135	0.0	0	--	--	--	--
19	5/3-5/4	25	27.2	25	30	1.6	0	--	--	--	--	0	--	--	--	--
20	5/10-5/11	0	--	--	--	--	2	133.0	116	150	24.0	0	--	--	--	--
21	5/17-5/18	0	--	--	--	--	8	146.5	104	168	21.7	0	--	--	--	--
22	5/24-5/25	0	--	--	--	--	3	131.3	115	144	14.8	0	--	--	--	--
23	6/1-6/3	3	43.0	42	44	1.0	8	133.9	105	179	26.6	0	--	--	--	--
24	6/8-6/8	0	--	--	--	--	2	71.0	57	85	19.8	2	193.0	190	196	4.2
25	6/14-6/14	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
26	6/21-6/22	0	--	--	--	--	3	120.7	94	140	23.9	0	--	--	--	--
27	6/28-6/29	2	39.0	36	42	4.2	2	142.5	125	160	24.8	0	--	--	--	--
28	7/6-7/7	0	--	--	--	--	1	130.0	130	130	0.0	0	--	--	--	--

Appendix P. Klamath River weekly Chinook Salmon and Coho Salmon fork length information, 2006.**Appendix P1. Klamath River at Bogus (frame net) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2006.**

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/16-3/17	23	37.9	33	43	2.5	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/22-3/24	97	38.6	32	49	2.6	0	--	--	--	--	1	34.0	34	34	0.0	0	--	--	--	--	0	--	--	--	--
13	3/28-3/31	112	38.3	32	46	2.2	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
14	4/4-4/6	90	38.6	34	45	2.3	0	--	--	--	--	1	35.0	35	35	0.0	1	86.0	86	86	0.0	0	--	--	--	--
17	4/25-4/28	83	45.7	34	62	7.4	0	--	--	--	--	5	40.6	35	50	6.1	1	125.0	125	125	0.0	2	75.5	43	108	46.0
18	5/2-5/5	37	51.6	40	65	6.6	0	--	--	--	--	7	35.1	34	36	0.7	0	--	--	--	--	0	--	--	--	--
19	5/9-5/12	26	50.3	40	64	6.0	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	1	134.0	134	134	0.0

Appendix P2. Klamath River at Bogus (RST) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2006.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/16-3/17	23	38.2	34	45	2.5	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/22-3/24	37	39.8	34	49	3.6	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
13	3/28-3/31	30	38.8	30	54	3.7	0	--	--	--	--	0	--	--	--	--	1	115.0	115	115	0.0	0	--	--	--	--
14	4/4-4/6	8	41.5	38	47	3.0	0	--	--	--	--	1	39.0	39	39	0.0	0	--	--	--	--	0	--	--	--	--
16	4/20-4/21	10	43.4	37	50	3.7	0	--	--	--	--	0	--	--	--	--	4	124.0	110	130	9.4	5	133.2	121	145	10.1
17	4/25-4/28	30	43.3	35	57	5.9	0	--	--	--	--	2	52.5	47	58	7.8	1	104.0	104	104	0.0	3	116.7	108	132	13.3
18	5/2-5/5	19	51.2	40	62	6.9	0	--	--	--	--	2	33.5	32	35	2.1	0	--	--	--	--	1	133.0	133	133	0.0
19	5/9-5/12	14	53.7	39	64	6.0	0	--	--	--	--	0	--	--	--	--	1	108.0	108	108	0.0	2	135.0	122	148	18.4

Appendix P3. Klamath River at I-5 (frame net) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2006.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/13-3/16	5	39.4	38	41	1.1	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/22-3/24	9	38.1	35	42	2.4	0	--	--	--	--	1	31.0	31	31	0.0	0	--	--	--	--	0	--	--	--	--
13	3/28-3/29	13	37.2	35	40	1.4	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
14	4/4-4/6	1	43.0	43	43	0.0	0	--	--	--	--	1	38.0	38	38	0.0	0	--	--	--	--	0	--	--	--	--
17	4/25-4/25	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
18	5/2-5/4	2	42.5	37	48	7.8	0	--	--	--	--	2	34.0	33	35	1.4	0	--	--	--	--	0	--	--	--	--
19	5/10-5/10	1	52.0	52	52	0.0	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	1	141.0	141	141	0.0

Appendix P4. Klamath River at I-5 (RST) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2006.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
12	3/23-3/23	1	36.0	36	36	0.0	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
13	3/29-3/30	5	38.4	33	43	4.2	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
14	4/4-4/6	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	2	138.0	131	145	9.9
16	4/19-4/19	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
17	4/25-4/28	0	--	--	--	--	0	--	--	--	--	1	115.0	115	115	0.0	0	--	--	--	--	3	149.7	110	172	34.4
18	5/2-5/5	1	56.0	56	56	0.0	0	--	--	--	--	1	124.0	124	124	0.0	0	--	--	--	--	1	155.0	155	155	0.0
19	5/10-5/11	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	4	160.5	135	181	22.6
20	5/17-5/17	0	--	--	--	--	0	--	--	--	--	1	125.0	125	125	0.0	0	--	--	--	--	0	--	--	--	--
21	5/23-5/23	3	75.0	67	79	6.9	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
22	5/31-5/31	3	75.7	72	79	3.5	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
23	6/7-6/7	6	85.8	76	92	5.7	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
24	6/14-6/14	5	79.6	53	98	16.7	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
25	6/21-6/21	8	71.3	54	88	14.4	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
26	6/28-6/28	3	69.3	48	83	18.7	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
27	7/6-7/7	2	82.5	80	85	3.5	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
28	7/11-7/11	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix P5. Klamath River at Kinsman (frame net) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2006.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
19	5/10-5/12	0	--	--	--	--	0	--	--	--	--	1	45.0	45	45	0.0	1	111.0	111	111	0.0	1	150.0	150	150	0.0
20	5/18-5/18	1	58.0	58	58	0.0	0	--	--	--	--	0	--	--	--	--	--	--	--	--	--	0	--	--	--	--
21	5/23-5/23	1	77.0	77	77	0.0	0	--	--	--	--	0	--	--	--	--	--	--	--	--	--	0	--	--	--	--
22	5/31-5/31	4	84.8	49	103	24.3	0	--	--	--	--	0	--	--	--	--	--	--	--	--	--	0	--	--	--	--

Appendix P6. Klamath River at Kinsman (RST) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2006.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
12	3/22-3/24	1	38.0	38	38	0.0	0	--	--	--	--	0	--	--	--	--	3	93.3	87	105	10.1	0	--	--	--	--
13	3/28-3/31	0	--	--	--	--	1	160.0	160	160	0.0	0	--	--	--	--	2	99.0	93	105	8.5	0	--	--	--	--
14	4/4-4/5	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	1	80.0	80	80	0.0	0	--	--	--	--
16	4/20-4/21	0	--	--	--	--	3	118.3	115	122	3.5	0	--	--	--	--	1	101.0	101	101	0.0	0	--	--	--	--
17	4/26-4/28	2	34.0	33	35	1.4	0	--	--	--	--	0	--	--	--	--	2	112.0	112	112	0.0	0	--	--	--	--
18	5/2-5/5	1	116.0	116	116	0.0	0	--	--	--	--	0	--	--	--	--	6	114.7	100	127	9.9	0	--	--	--	--
19	5/9-5/12	0	--	--	--	--	1	131.0	131	131	0.0	0	--	--	--	--	6	116.0	110	123	4.7	3	127.0	126	128	1.0
20	5/17-5/18	3	72.3	58	94	19.1	0	--	--	--	--	0	--	--	--	--	3	107.7	95	127	17.0	0	--	--	--	--
21	5/23-5/23	6	79.2	66	101	13.7	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
22	5/31-5/31	2	94.0	73	115	29.7	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
23	6/7-6/8	20	86.0	72	94	5.6	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
24	6/14-6/14	15	81.6	57	95	9.6	0	--	--	--	--	1	63.0	63	63	0.0	0	--	--	--	--	0	--	--	--	--
25	6/21-6/21	36	80.9	65	99	8.3	0	--	--	--	--	1	56.0	56	56	0.0	0	--	--	--	--	0	--	--	--	--
26	6/28-6/28	29	78.8	63	93	7.6	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
27	7/6-7/7	7	77.4	57	91	11.2	0	--	--	--	--	1	62.0	62	62	0.0	0	--	--	--	--	0	--	--	--	--
28	7/11-7/13	2	61.5	58	65	5.0	0	--	--	--	--	2	62.0	60	64	2.8	0	--	--	--	--	0	--	--	--	--

Appendix Q. Klamath River weekly Steelhead fork length information, 2006.

Appendix Q1. Klamath River at Bogus (frame net) weekly Steelhead fork lengths (mm), 2006.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/16-3/17	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/22-3/24	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
13	3/28-3/31	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
14	4/4-4/6	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
17	4/25-4/28	6	28.3	27	30	1.0	1	107.0	107	107	0.0	1	102.0	102	102	0.0
18	5/2-5/5	0	--	--	--	--	1	161.0	161	161	0.0	4	119.8	99	152	23.8
19	5/9-5/12	12	27.4	25	31	1.9	0	--	--	--	--	1	152.0	152	152	0.0

Appendix Q2. Klamath River at Bogus (RST) weekly Steelhead fork lengths (mm), 2006.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/16-3/17	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/22-3/24	0	--	--	--	--	1	72.0	72	72	0.0	0	--	--	--	--
13	3/28-3/31	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
14	4/4-4/6	0	--	--	--	--	1	93.0	93	93	0.0	0	--	--	--	--
16	4/20-4/21	0	--	--	--	--	1	125.0	125	125	0.0	3	130.7	115	147	16.0
17	4/25-4/28	6	26.3	21	29	2.8	4	135.0	97	157	27.0	3	138.7	105	162	29.9
18	5/2-5/5	0	--	--	--	--	2	127.5	118	137	13.4	8	155.6	110	223	35.0
19	5/9-5/12	8	28.6	26	30	1.8	1	83.0	83	83	0.0	6	133.2	112	152	15.2

Appendix Q3. Klamath River at I-5 (frame net) weekly Steelhead fork lengths (mm), 2006.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/13-3/16	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/22-3/24	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
13	3/28-3/29	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
14	4/4-4/6	0	--	--	--	--	1	123.0	123	123	0.0	0	--	--	--	--
17	4/25-4/25	0	--	--	--	--	1	129.0	129	129	0.0	0	--	--	--	--
18	5/2-5/4	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
19	5/10-5/10	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix Q4. Klamath River at I-5 (RST) weekly Steelhead fork lengths (mm), 2006.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
12	3/23-3/23	0	--	--	--	--	1	145.0	145	145	0.0	0	--	--	--	--
13	3/29-3/30	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
14	4/4-4/6	0	--	--	--	--	1	142.0	142	142	0.0	0	--	--	--	--
16	4/19-4/19	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
17	4/25-4/28	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
18	5/2-5/5	0	--	--	--	--	2	119.0	98	140	29.7	1	144.0	144	144	0.0
19	5/10-5/11	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
20	5/17-5/17	0	--	--	--	--	2	151.5	150	153	2.1	0	--	--	--	--
21	5/23-5/23	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
22	5/31-5/31	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
23	6/7-6/7	0	--	--	--	--	1	65.0	65	65	0.0	0	--	--	--	--
24	6/14-6/14	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
25	6/21-6/21	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
26	6/28-6/28	0	--	--	--	--	1	57.0	57	57	0.0	0	--	--	--	--
27	7/6-7/7	2	52.5	50	55	3.5	1	73.0	73	73	0.0	0	--	--	--	--
28	7/11-7/11	0	--	--	--	--	1	141.0	141	141	0.0	0	--	--	--	--

Appendix Q5. Klamath River at Kinsman (frame net) weekly Steelhead fork lengths (mm), 2006.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
19	5/10-5/12	0	--	--	--	--	2	114.5	72	157	60.1	0	--	--	--	--
20	5/18-5/18	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
21	5/23-5/23	3	26.7	26	28	1.2	0	--	--	--	--	0	--	--	--	--
22	5/31-5/31	1	25.0	25	25	0.0	0	--	--	--	--	0	--	--	--	--

Appendix Q6. Klamath River at Kinsman (RST) weekly Steelhead fork lengths (mm), 2006.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
12	3/22-3/24	0	--	--	--	--	8	136.3	97	239	49.9	0	--	--	--	--
13	3/28-3/31	0	--	--	--	--	3	102.7	79	135	29.0	0	--	--	--	--
14	4/4-4/5	0	--	--	--	--	1	125.0	125	125	0.0	0	--	--	--	--
16	4/20-4/21	0	--	--	--	--	3	157.0	116	200	42.0	0	--	--	--	--
17	4/26-4/28	0	--	--	--	--	14	130.9	94	181	29.4	0	--	--	--	--
18	5/2-5/5	0	--	--	--	--	6	127.3	105	136	11.5	0	--	--	--	--
19	5/9-5/12	0	--	--	--	--	8	143.3	83	190	34.2	0	--	--	--	--
20	5/17-5/18	0	--	--	--	--	9	141.7	94	194	31.5	0	--	--	--	--
21	5/23-5/23	0	--	--	--	--	1	116.0	116	116	0.0	0	--	--	--	--
22	5/31-5/31	0	--	--	--	--	4	127.5	120	140	8.7	0	--	--	--	--
23	6/7-6/8	1	46.0	46	46	0.0	9	125.0	101	179	23.4	0	--	--	--	--
24	6/14-6/14	0	--	--	--	--	5	135.2	78	177	37.4	0	--	--	--	--
25	6/21-6/21	2	21.5	21	22	0.7	5	113.8	92	122	12.5	0	--	--	--	--
26	6/28-6/28	1	40.0	40	40	0.0	9	135.4	111	194	29.2	0	--	--	--	--
27	7/6-7/7	3	50.3	46	54	4.0	11	132.7	110	170	17.9	0	--	--	--	--
28	7/11-7/13	0	--	--	--	--	4	110.3	67	158	38.3	0	--	--	--	--

Appendix R. Klamath River weekly Chinook Salmon and Coho Salmon fork length information, 2007.**Appendix R1. Klamath River at Bogus (frame net) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2007.**

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/15-3/16	30	38.3	35	41	1.6	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/20-3/23	90	37.9	33	43	2.2	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
13	3/27-3/30	90	39.0	32	48	2.6	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
14	4/3-4/6	90	38.7	34	45	2.9	0	--	--	--	--	4	35.5	34	37	1.7	0	--	--	--	--	0	--	--	--	--
15	4/10-4/13	60	40.1	33	56	5.0	0	--	--	--	--	41	35.0	32	37	1.3	0	--	--	--	--	0	--	--	--	--
16	4/17-4/20	90	39.3	33	58	4.6	0	--	--	--	--	27	34.6	32	39	1.5	0	--	--	--	--	0	--	--	--	--
17	4/24-4/27	90	43.6	34	62	7.3	0	--	--	--	--	4	35.0	32	37	2.5	0	--	--	--	--	4	132.0	130	135	2.5
18	5/1-5/4	92	50.2	35	70	7.0	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
19	5/8-5/11	74	48.7	34	71	7.7	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
20	5/15-5/18	54	49.8	38	79	9.1	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	1	229.0	229	229	0.0

Appendix R2. Klamath River at I-5 (frame net) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2007.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/16-3/16	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/20-3/22	21	39.8	32	48	3.5	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
13	3/27-3/30	20	42.6	35	48	4.0	0	--	--	--	--	6	36.3	35	38	1.4	0	--	--	--	--	0	--	--	--	--
14	4/3-4/6	74	39.9	34	52	4.1	0	--	--	--	--	1	34.0	34	34	0.0	0	--	--	--	--	0	--	--	--	--
15	4/10-4/13	90	41.6	34	57	4.4	0	--	--	--	--	17	36.7	32	41	2.9	0	--	--	--	--	0	--	--	--	--
16	4/17-4/20	90	43.0	32	58	5.9	0	--	--	--	--	18	36.7	32	44	3.5	0	--	--	--	--	0	--	--	--	--
17	4/25-4/27	16	46.8	37	62	6.7	0	--	--	--	--	1	37.0	37	37	0.0	0	--	--	--	--	0	--	--	--	--
18	5/1-5/4	17	47.4	34	65	8.9	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	1	235.0	235	235	0.0
19	5/8-5/11	21	55.9	36	86	12.1	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	3	164.3	148	173	14.2
20	5/15-5/18	12	59.7	42	89	14.7	0	--	--	--	--	1	55.0	55	55	0.0	0	--	--	--	--	7	157.7	149	172	9.2
21	5/22-5/22	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix R3. Klamath River at I-5 (RST) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2007.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/15-3/16	7	36.9	31	40	3.2	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/20-3/23	3	42.7	38	48	5.0	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
13	3/27-3/30	13	40.0	30	52	6.0	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
14	4/3-4/6	77	41.9	33	59	5.1	0	--	--	--	--	0	--	--	--	--	1	120.0	120	120	0.0	64	145.0	119	185	13.7
15	4/10-4/13	90	42.8	37	64	5.3	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	16	144.7	127	170	11.2
16	4/17-4/20	86	45.4	35	67	7.0	0	--	--	--	--	1	33.0	33	33	0.0	0	--	--	--	--	17	155.5	127	215	18.8
17	4/24-4/27	64	54.3	36	78	9.1	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	17	148.6	130	167	12.1
18	5/1-5/4	54	56.7	36	78	11.8	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	24	146.3	115	160	11.2
19	5/8-5/11	65	56.6	37	84	10.8	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	24	154.2	134	199	14.9
20	5/15-5/18	90	60.9	38	96	14.3	0	--	--	--	--	2	46.0	39	53	9.9	1	147.0	147	147	0.0	10	154.5	136	168	9.7
21	5/22-5/22	30	73.8	50	102	15.0	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
22	5/30-5/30	28	82.4	62	103	10.0	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
23	6/5-6/5	28	79.4	62	98	11.6	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix R4. Klamath River at Kinsman (frame net) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2007.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
15	4/11-4/13	17	45.9	34	64	7.9	0	--	--	--	--	6	36.0	33	38	2.3	0	--	--	--	--	0	--	--	--	--
16	4/17-4/20	17	47.4	37	65	8.6	0	--	--	--	--	4	35.3	32	42	4.7	0	--	--	--	--	0	--	--	--	--
17	4/24-4/27	2	44.5	40	49	6.4	0	--	--	--	--	1	35.0	35	35	0.0	0	--	--	--	--	0	--	--	--	--
18	5/2-5/4	1	62.0	62	62	0.0	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
19	5/8-5/11	8	55.6	36	83	18.4	0	--	--	--	--	5	36.8	35	39	1.5	0	--	--	--	--	1	161.0	161	161	0.0
20	5/15-5/18	3	82.3	56	97	22.9	0	--	--	--	--	3	36.3	36	37	0.6	0	--	--	--	--	0	--	--	--	--

Appendix R5. Klamath River at Kinsman (RST) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2007.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/15-3/16	13	38.5	32	41	2.4	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/20-3/23	12	42.8	35	52	5.7	0	--	--	--	--	1	35.0	35	35	0.0	0	--	--	--	--	0	--	--	--	--
13	3/27-3/30	48	47.1	35	63	7.4	0	--	--	--	--	27	36.2	33	39	1.7	0	--	--	--	--	0	--	--	--	--
14	4/3-4/6	138	51.4	35	72	8.4	0	--	--	--	--	2	35.0	34	36	1.4	0	--	--	--	--	7	154.9	131	184	15.9
15	4/10-4/13	162	56.6	39	82	8.1	1	113.0	113	113	0.0	6	36.5	32	42	3.9	3	134.3	124	140	9.0	2	136.0	130	142	8.5
16	4/17-4/20	150	59.6	32	77	8.3	0	--	--	--	--	10	34.4	33	36	1.1	1	137.0	137	137	0.0	4	146.3	127	165	17.0
17	4/24-4/27	119	65.1	38	97	8.8	1	120.0	120	120	0.0	1	35.0	35	35	0.0	2	113.0	113	113	0.0	17	153.6	130	203	19.9
18	5/1-5/4	90	68.9	40	91	10.2	0	--	--	--	--	5	43.2	34	58	11.0	5	122.4	113	128	6.1	12	155.7	132	195	15.9
19	5/8-5/11	103	76.4	34	122	18.1	3	169.3	130	198	35.2	10	58.5	35	67	10.4	2	128.5	127	130	2.1	25	156.0	145	178	10.1
20	5/15-5/18	101	84.8	44	116	18.1	0	--	--	--	--	22	60.5	35	72	8.9	1	114.0	114	114	0.0	3	163.0	151	176	12.5
21	5/22-5/22	30	88.4	47	113	15.4	0	--	--	--	--	7	60.4	47	73	8.0	0	--	--	--	--	0	--	--	--	--
22	5/30-5/31	30	85.5	48	108	14.0	0	--	--	--	--	4	63.8	59	68	3.8	0	--	--	--	--	0	--	--	--	--
23	6/5-6/5	30	83.7	67	115	11.3	0	--	--	--	--	5	66.8	56	75	7.3	0	--	--	--	--	0	--	--	--	--
24	6/13-6/14	27	80.6	63	96	7.1	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
25	6/19-6/19	28	80.4	64	102	7.8	0	--	--	--	--	6	59.5	56	62	2.6	0	--	--	--	--	0	--	--	--	--
26	6/27-6/28	27	83.6	50	106	13.4	0	--	--	--	--	4	62.0	52	67	6.9	0	--	--	--	--	0	--	--	--	--
27	7/3-7/3	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix S. Klamath River weekly Steelhead fork length information, 2007.

Appendix S1. Klamath River at Bogus (frame net) weekly Steelhead fork lengths (mm), 2007.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/15-3/16	0	--	--	--	--	1	110.0	110	110	0.0	0	--	--	--	--
12	3/20-3/23	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
13	3/27-3/30	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
14	4/3-4/6	18	27.2	25	36	2.3	0	--	--	--	--	0	--	--	--	--
15	4/10-4/13	7	26.0	24	27	1.2	2	162.5	153	172	13.4	0	--	--	--	--
16	4/17-4/20	6	26.8	25	28	1.0	1	194.0	194	194	0.0	0	--	--	--	--
17	4/24-4/27	23	26.2	24	28	1.3	0	--	--	--	--	0	--	--	--	--
18	5/1-5/4	6	25.8	24	29	1.8	0	--	--	--	--	0	--	--	--	--
19	5/8-5/11	20	26.5	24	31	1.9	0	--	--	--	--	0	--	--	--	--
20	5/15-5/18	17	27.5	25	32	2.0	2	144.5	113	176	44.6	0	--	--	--	--

Appendix S2. Klamath River at I-5 (frame net) weekly Steelhead fork lengths (mm), 2007.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/16-3/16	0	--	--	--	--	1	115.0	115	115	0.0	0	--	--	--	--
12	3/20-3/22	0	--	--	--	--	1	120.0	120	120	0.0	0	--	--	--	--
13	3/27-3/30	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
14	4/3-4/6	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
15	4/10-4/13	1	27.0	27	27	0.0	0	--	--	--	--	0	--	--	--	--
16	4/17-4/20	1	27.0	27	27	0.0	3	129.3	117	143	13.1	0	--	--	--	--
17	4/25-4/27	0	--	--	--	--	1	107.0	107	107	0.0	0	--	--	--	--
18	5/1-5/4	1	25.0	25	25	0.0	0	--	--	--	--	0	--	--	--	--
19	5/8-5/11	12	26.2	23	29	1.6	2	171.0	170	172	1.4	0	--	--	--	--
20	5/15-5/18	11	26.9	26	29	0.9	8	156.3	116	275	52.8	0	--	--	--	--
21	5/22-5/22	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix S3. Klamath River at I-5 (RST) weekly Steelhead fork lengths (mm), 2007.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/15-3/16	0	--	--	--	--	2	116.0	102	130	19.8	0	--	--	--	--
12	3/20-3/23	0	--	--	--	--	2	100.0	93	107	9.9	0	--	--	--	--
13	3/27-3/30	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
14	4/3-4/6	0	--	--	--	--	2	175.0	171	179	5.7	0	--	--	--	--
15	4/10-4/13	1	28.0	28	28	0.0	5	149.2	132	178	19.0	0	--	--	--	--
16	4/17-4/20	0	--	--	--	--	11	149.5	115	170	16.5	0	--	--	--	--
17	4/24-4/27	0	--	--	--	--	6	156.3	113	185	29.3	0	--	--	--	--
18	5/1-5/4	1	28.0	28	28	0.0	4	157.0	140	170	15.4	0	--	--	--	--
19	5/8-5/11	5	26.2	24	27	1.3	8	143.1	96	173	24.8	1	182.0	182	182	0.0
20	5/15-5/18	4	27.8	26	31	2.2	23	154.7	103	226	30.8	0	--	--	--	--
21	5/22-5/22	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
22	5/30-5/30	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
23	6/5-6/5	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix S4. Klamath River at Kinsman (frame net) weekly Steelhead fork lengths (mm), 2007.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
15	4/11-4/13	0	--	--	--	--	2	109.0	90	128	26.9	0	--	--	--	--
16	4/17-4/20	0	--	--	--	--	2	95.0	80	110	21.2	0	--	--	--	--
17	4/24-4/27	0	--	--	--	--	9	126.0	64	230	48.8	0	--	--	--	--
18	5/2-5/4	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
19	5/8-5/11	1	24.0	24	24	0.0	6	121.2	88	172	32.9	0	--	--	--	--
20	5/15-5/18	0	--	--	--	--	7	122.0	100	162	20.1	0	--	--	--	--

Appendix S5. Klamath River at Kinsman (RST) weekly Steelhead fork lengths (mm), 2007.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/15-3/16	0	--	--	--	--	5	112.6	66	202	58.2	0	--	--	--	--
12	3/20-3/23	0	--	--	--	--	9	122.2	57	194	52.5	0	--	--	--	--
13	3/27-3/30	0	--	--	--	--	13	107.5	68	200	49.3	0	--	--	--	--
14	4/3-4/6	0	--	--	--	--	9	112.3	57	160	36.5	0	--	--	--	--
15	4/10-4/13	0	--	--	--	--	28	120.6	73	179	30.0	0	--	--	--	--
16	4/17-4/20	0	--	--	--	--	42	130.5	42	196	37.8	1	237.0	237	237	0.0
17	4/24-4/27	0	--	--	--	--	32	143.4	84	257	38.1	0	--	--	--	--
18	5/1-5/4	0	--	--	--	--	41	142.5	77	200	33.2	0	--	--	--	--
19	5/8-5/11	0	--	--	--	--	117	135.6	73	238	32.5	0	--	--	--	--
20	5/15-5/18	0	--	--	--	--	68	149.4	95	222	34.7	0	--	--	--	--
21	5/22-5/22	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
22	5/30-5/31	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
23	6/5-6/5	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
24	6/13-6/14	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
25	6/19-6/19	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
26	6/27-6/28	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
27	7/3-7/3	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix T. Klamath River weekly Chinook Salmon and Coho Salmon fork length information, 2008.

Appendix T1. Klamath River at Bogus (frame net) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2008.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/13-3/13	30	34.7	32	40	1.6	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/19-3/21	60	35.9	33	38	1.1	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
13	3/25-3/28	90	35.6	32	38	1.4	0	--	--	--	--	3	37.3	36	39	1.5	0	--	--	--	--	0	--	--	--	--
14	4/1-4/4	90	35.6	32	41	1.6	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	1	149.0	149	149	0.0
15	4/8-4/11	90	34.9	32	40	1.6	0	--	--	--	--	6	33.5	32	35	1.2	0	--	--	--	--	4	148.0	122	186	27.6
16	4/15-4/18	90	35.8	30	48	2.8	0	--	--	--	--	53	34.6	32	39	1.6	0	--	--	--	--	0	--	--	--	--
17	4/22-4/25	90	36.4	32	50	3.3	0	--	--	--	--	69	35.1	30	49	3.2	0	--	--	--	--	0	--	--	--	--
18	4/29-5/2	90	36.0	32	48	3.0	0	--	--	--	--	48	34.8	31	53	3.1	0	--	--	--	--	0	--	--	--	--
19	5/6-5/9	90	38.4	32	52	4.4	0	--	--	--	--	90	35.9	32	59	4.8	0	--	--	--	--	0	--	--	--	--
20	5/13-5/16	90	42.9	32	74	7.9	0	--	--	--	--	44	35.8	32	45	2.6	0	--	--	--	--	0	--	--	--	--
21	5/20-5/23	77	43.6	34	83	8.6	0	--	--	--	--	2	37.0	36	38	1.4	0	--	--	--	--	0	--	--	--	--

Appendix T2. Klamath River at I-5 (frame net) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2008.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/12-3/13	44	34.6	29	41	2.9	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/19-3/21	23	34.7	30	40	2.8	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
13	3/25-3/28	90	35.8	33	41	2.0	0	--	--	--	--	2	35.5	34	37	2.1	0	--	--	--	--	0	--	--	--	--
14	4/1-4/4	90	36.0	31	44	2.6	0	--	--	--	--	1	35.0	35	35	0.0	0	--	--	--	--	0	--	--	--	--
15	4/8-4/11	90	35.4	32	40	1.4	0	--	--	--	--	3	33.7	33	35	1.2	0	--	--	--	--	0	--	--	--	--
16	4/15-4/18	90	36.1	30	50	4.3	0	--	--	--	--	18	33.6	32	36	1.2	0	--	--	--	--	0	--	--	--	--
17	4/22-4/25	90	36.2	32	68	4.9	0	--	--	--	--	22	35.7	31	44	2.9	0	--	--	--	--	1	130.0	130	130	0.0
18	4/29-5/2	90	38.0	31	64	6.9	0	--	--	--	--	32	35.9	32	44	3.0	0	--	--	--	--	0	--	--	--	--
19	5/6-5/9	90	40.9	31	60	5.9	0	--	--	--	--	44	36.0	29	44	4.3	0	--	--	--	--	0	--	--	--	--
20	5/13-5/16	90	44.1	34	70	8.4	0	--	--	--	--	13	36.4	33	47	3.6	0	--	--	--	--	3	158.0	125	211	46.4
21	5/20-5/23	87	55.4	33	77	10.7	0	--	--	--	--	2	54.5	49	60	7.8	0	--	--	--	--	1	162.0	162	162	0.0
22	5/27-5/29	60	51.3	37	80	11.2	0	--	--	--	--	3	42.0	36	48	6.0	0	--	--	--	--	0	--	--	--	--
23	6/3-6/4	34	54.5	36	93	13.9	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix T3. Klamath River at I-5 (RST) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2008.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/12-3/13	58	35.1	28	41	2.8	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/18-3/21	57	35.7	29	41	2.8	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
13	3/25-3/28	90	35.6	31	42	2.0	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
14	4/1-4/4	90	35.1	27	44	2.6	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	14	148.9	134	170	11.9
15	4/8-4/11	90	35.6	31	42	2.1	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	14	161.0	130	214	23.5
16	4/15-4/18	89	36.0	31	53	4.7	0	--	--	--	--	5	34.0	33	35	1.0	0	--	--	--	--	2	150.0	150	150	0.0
17	4/21-4/25	90	37.0	30	57	5.8	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
18	4/28-5/2	89	38.3	31	57	6.1	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
19	5/6-5/9	90	40.5	31	67	7.3	0	--	--	--	--	7	40.1	32	44	4.3	0	--	--	--	--	1	170.0	170	170	0.0
20	5/12-5/16	90	50.1	35	78	9.7	0	--	--	--	--	6	50.5	44	65	8.0	2	165.5	128	203	53.0	0	--	--	--	--
21	5/19-5/23	90	55.3	35	81	10.5	0	--	--	--	--	3	48.0	37	56	9.9	1	160.0	160	160	0.0	2	134.5	129	140	7.8
22	5/27-5/27	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix T4. Klamath River at Kinsman (RST) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2008.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/12-3/14	94	36.8	28	46	3.2	1	104.0	104	104	0.0	0	--	--	--	--	2	84.5	84	85	0.7	0	--	--	--	--
12	3/18-3/21	93	38.3	30	53	4.5	0	--	--	--	--	0	--	--	--	--	1	87.0	87	87	0.0	0	--	--	--	--
13	3/25-3/28	120	39.6	32	57	6.0	0	--	--	--	--	0	--	--	--	--	2	81.0	74	88	9.9	0	--	--	--	--
14	4/1-4/4	89	39.1	31	63	6.7	2	99.5	99	100	0.7	1	35.0	35	35	0.0	2	96.0	92	100	5.7	0	--	--	--	--
15	4/8-4/11	90	37.5	29	60	6.4	0	--	--	--	--	0	--	--	--	--	1	93.0	93	93	0.0	0	--	--	--	--
16	4/15-4/18	92	41.3	29	69	9.2	0	--	--	--	--	17	31.9	27	35	1.8	1	123.0	123	123	0.0	0	--	--	--	--
17	4/22-4/25	86	46.9	32	69	11.2	0	--	--	--	--	5	34.0	32	36	1.6	5	107.6	94	114	7.9	1	144.0	144	144	0.0
18	4/29-5/2	86	55.0	31	83	12.7	0	--	--	--	--	3	36.3	33	40	3.5	13	114.2	89	129	12.6	0	--	--	--	--
19	5/6-5/9	120	58.5	31	86	12.7	0	--	--	--	--	6	45.2	32	65	14.2	12	122.4	104	143	11.2	0	--	--	--	--
20	5/13-5/16	83	63.0	36	127	14.2	2	134.5	132	137	3.5	3	44.7	32	52	11.0	7	131.1	105	150	17.0	1	147.0	147	147	0.0
21	5/20-5/23	90	58.1	36	97	13.2	0	--	--	--	--	25	51.2	32	66	11.0	10	116.7	105	147	12.9	0	--	--	--	--
22	5/27-5/29	120	69.2	37	105	14.8	0	--	--	--	--	11	43.6	33	64	11.3	1	118.0	118	118	0.0	1	150.0	150	150	0.0
23	6/3-6/5	60	79.1	49	101	10.3	0	--	--	--	--	23	43.5	35	62	8.6	1	102.0	102	102	0.0	0	--	--	--	--
24	6/10-6/12	88	69.3	37	101	14.4	0	--	--	--	--	14	45.8	34	61	9.9	1	109.0	109	109	0.0	0	--	--	--	--
25	6/17-6/18	59	77.0	56	98	8.5	0	--	--	--	--	1	57.0	57	57	0.0	0	--	--	--	--	0	--	--	--	--
27	7/1-7/1	24	80.9	56	104	11.1	0	--	--	--	--	1	52.0	52	52	0.0	0	--	--	--	--	0	--	--	--	--
29	7/15-7/15	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix U. Klamath River weekly Steelhead fork length information, 2008.

Appendix U1. Klamath River at Bogus (frame net) weekly Steelhead fork lengths (mm), 2008.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/13-3/13	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/19-3/21	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
13	3/25-3/28	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
14	4/1-4/4	0	--	--	--	--	3	76.0	65	85	10.2	0	--	--	--	--
15	4/8-4/11	0	--	--	--	--	2	71.0	71	71	0.0	6	127.7	75	160	33.5
16	4/15-4/18	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
17	4/22-4/25	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
18	4/29-5/2	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
19	5/6-5/9	44	26.4	25	29	1.0	2	140.5	129	152	16.3	0	--	--	--	--
20	5/13-5/16	45	26.7	23	29	1.3	0	--	--	--	--	0	--	--	--	--
21	5/20-5/23	35	26.4	24	28	1.1	1	147.0	147	147	0.0	0	--	--	--	--

Appendix U2. Klamath River at I-5 (frame net) weekly Steelhead fork lengths (mm), 2008.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/12-3/13	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/19-3/21	0	--	--	--	--	1	105.0	105	105	0.0	0	--	--	--	--
13	3/25-3/28	0	--	--	--	--	1	111.0	111	111	0.0	0	--	--	--	--
14	4/1-4/4	0	--	--	--	--	1	70.0	70	70	0.0	0	--	--	--	--
15	4/8-4/11	0	--	--	--	--	2	166.5	136	197	43.1	0	--	--	--	--
16	4/15-4/18	0	--	--	--	--	1	68.0	68	68	0.0	0	--	--	--	--
17	4/22-4/25	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
18	4/29-5/2	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
19	5/6-5/9	3	27.3	25	31	3.2	0	--	--	--	--	0	--	--	--	--
20	5/13-5/16	2	28.0	26	30	2.8	1	122.0	122	122	0.0	0	--	--	--	--
21	5/20-5/23	1	27.0	27	27	0.0	1	114.0	114	114	0.0	0	--	--	--	--
22	5/27-5/29	3	26.0	25	27	1.0	0	--	--	--	--	0	--	--	--	--
23	6/3-6/4	6	26.2	25	27	1.0	0	--	--	--	--	0	--	--	--	--

Appendix U3. Klamath River at I-5 (RST) weekly Steelhead fork lengths (mm), 2008.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/12-3/13	0	--	--	--	--	1	185.0	185	185	0.0	0	--	--	--	--
12	3/18-3/21	0	--	--	--	--	4	166.3	85	280	88.1	0	--	--	--	--
13	3/25-3/28	0	--	--	--	--	3	165.0	66	290	114.2	0	--	--	--	--
14	4/1-4/4	0	--	--	--	--	2	165.5	160	171	7.8	0	--	--	--	--
15	4/8-4/11	0	--	--	--	--	2	141.0	128	154	18.4	1	135.0	135	135	0.0
16	4/15-4/18	0	--	--	--	--	3	139.7	74	183	57.8	0	--	--	--	--
17	4/21-4/25	0	--	--	--	--	3	126.0	95	179	46.1	0	--	--	--	--
18	4/28-5/2	0	--	--	--	--	2	160.0	155	165	7.1	0	--	--	--	--
19	5/6-5/9	1	27.0	27	27	0.0	7	164.6	142	182	14.2	0	--	--	--	--
20	5/12-5/16	1	27.0	27	27	0.0	1	176.0	176	176	0.0	0	--	--	--	--
21	5/19-5/23	0	--	--	--	--	11	145.0	103	182	32.3	1	161.0	161	161	0.0
22	5/27-5/27	0	--	--	--	--	2	161.0	104	218	80.6	0	--	--	--	--

Appendix U4. Klamath River at Kinsman (RST) weekly Steelhead fork lengths (mm), 2008.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/12-3/14	0	--	--	--	--	16	86.3	47	158	34.5	0	--	--	--	--
12	3/18-3/21	0	--	--	--	--	13	139.5	53	289	75.9	0	--	--	--	--
13	3/25-3/28	0	--	--	--	--	18	98.4	60	200	44.7	0	--	--	--	--
14	4/1-4/4	0	--	--	--	--	13	120.9	60	190	49.7	0	--	--	--	--
15	4/8-4/11	0	--	--	--	--	10	116.7	71	210	49.7	0	--	--	--	--
16	4/15-4/18	0	--	--	--	--	30	91.7	48	210	38.7	0	--	--	--	--
17	4/22-4/25	0	--	--	--	--	13	108.2	80	152	24.2	0	--	--	--	--
18	4/29-5/2	2	27.0	26	28	1.4	32	116.8	64	231	36.4	0	--	--	--	--
19	5/6-5/9	0	--	--	--	--	60	125.9	74	179	23.6	0	--	--	--	--
20	5/13-5/16	0	--	--	--	--	27	142.1	103	185	25.5	0	--	--	--	--
21	5/20-5/23	0	--	--	--	--	86	134.4	66	190	26.0	0	--	--	--	--
22	5/27-5/29	3	27.0	27	27	0.0	42	131.0	85	219	23.8	0	--	--	--	--
23	6/3-6/5	5	27.0	26	28	1.0	56	135.6	85	209	27.4	0	--	--	--	--
24	6/10-6/12	2	29.0	29	29	0.0	43	131.6	81	208	20.8	0	--	--	--	--
25	6/17-6/18	0	--	--	--	--	16	138.1	106	180	20.8	0	--	--	--	--
27	7/1-7/1	1	38.0	38	38	0.0	11	130.6	115	148	12.0	0	--	--	--	--
29	7/15-7/15	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix V. Klamath River weekly Chinook Salmon and Coho Salmon fork length information, 2009.**Appendix V1. Klamath River at Bogus (frame net) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2009.**

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/11-3/13	60	36.3	32	41	2.1	0	--	--	--	--	11	0.0	--	--	--	--	1.0	86	86	86.0	0	--	--	--	--
12	3/17-3/20	60	37.6	32	41	2.0	0	--	--	--	--	12	0.0	--	--	--	--	1.0	82	82	82.0	0	--	--	--	--
13	3/24-3/27	90	38.2	33	45	2.2	0	--	--	--	--	13	1.0	33	33	33.0	0	2.0	84	74	93.0	0	--	--	--	--
14	3/31-4/3	90	38.1	33	49	2.8	0	--	--	--	--	14	9.0	34	32	36.0	2	1.0	97	97	97.0	0	--	--	--	--
15	4/7-4/10	90	38.9	33	51	3.2	1	82.0	82	82	0.0	15	9.0	35	34	38.0	1	0.0	--	--	--	0	--	--	--	--
16	4/14-4/17	90	39.3	34	53	3.9	0	--	--	--	--	16	82.0	34	32	37.0	1	0.0	--	--	--	0	--	--	--	--
17	4/21-4/24	85	38.0	33	53	2.8	0	--	--	--	--	17	90.0	34	31	39.0	1	0.0	--	--	--	1	137.0	137	137	0.0
18	4/28-5/1	90	43.6	31	69	6.4	0	--	--	--	--	18	45.0	36	30	48.0	4	0.0	--	--	--	0	--	--	--	--
19	5/5-5/8	80	42.1	35	62	6.1	0	--	--	--	--	19	22.0	39	34	50.0	4	1.0	144	144	144.0	0	--	--	--	--
20	5/12-5/15	64	46.4	35	77	8.3	0	--	--	--	--	20	8.0	47	40	59.0	7	0.0	--	--	--	0	--	--	--	--

Appendix V2. Klamath River at I-5 (frame net) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2009.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/11-3/13	25	37.6	33	41	2.0	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/17-3/20	90	37.9	29	50	2.8	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
13	3/24-3/27	89	38.4	33	51	2.3	0	--	--	--	--	8	35.0	35	35	0.0	0	--	--	--	--	0	--	--	--	--
14	3/31-4/3	67	38.7	34	48	2.5	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
15	4/7-4/10	20	39.8	36	49	3.4	0	--	--	--	--	4	34.3	34	35	0.5	0	--	--	--	--	0	--	--	--	--
16	4/14-4/17	88	39.2	33	56	3.8	0	--	--	--	--	19	35.6	33	44	2.4	0	--	--	--	--	0	--	--	--	--
17	4/21-4/24	90	40.6	31	57	5.5	0	--	--	--	--	16	35.9	33	41	2.4	0	--	--	--	--	1	165.0	165	165	0.0
18	4/28-5/1	84	43.3	34	58	5.9	0	--	--	--	--	8	45.6	38	55	5.2	0	--	--	--	--	2	132.0	129	135	4.2
19	5/5-5/8	22	51.5	36	73	8.9	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
20	5/12-5/14	82	51.9	41	73	7.2	0	--	--	--	--	5	48.2	41	52	4.3	0	--	--	--	--	0	--	--	--	--

Appendix V3. Klamath River at I-5 (RST) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2009.

Calendar week	Sample dates	Unmarked Chinook Salmon					Unmarked Coho Salmon					Hatchery-marked Coho Salmon				
		Age-0	Age-1+				Age-0	Age-1+				Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
10	3/4-3/4	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
11	3/11-3/13	51	37.2	32	42	2.2	0	--	--	--	--	0	--	--	--	--
12	3/17-3/20	62	38.3	33	46	2.2	0	--	--	--	--	0	--	--	--	--
13	3/24-3/27	105	38.6	34	48	2.4	0	--	--	--	--	3	36.3	36	37	0.6
14	3/31-4/3	83	38.9	33	52	2.7	0	--	--	--	--	1	35.0	35	35	0.0
15	4/7-4/10	59	40.7	34	54	5.1	0	--	--	--	--	1	35.0	35	35	0.0
16	4/14-4/17	90	39.3	34	57	4.7	0	--	--	--	--	2	35.0	35	35	0.0
17	4/21-4/24	90	42.2	33	59	6.5	0	--	--	--	--	2	36.5	35	38	2.1
18	4/28-5/1	90	47.2	36	66	7.0	0	--	--	--	--	1	34.0	34	34	0.0
19	5/5-5/8	90	50.2	36	69	8.2	0	--	--	--	--	2	48.0	47	49	1.4
20	5/12-5/15	90	52.3	37	78	8.8	0	--	--	--	--	6	52.5	46	66	7.0
22	5/27-5/27	23	77.6	45	88	10.7	0	--	--	--	--	4	58.0	51	63	5.0

Appendix V4. Klamath River at Kinsman (RST) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2009.

Calendar week	Sample dates	Unmarked Chinook Salmon					Unmarked Coho Salmon					Hatchery-marked Coho Salmon				
		Age-0	Age-1+				Age-0	Age-1+				Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/10-3/13	6	41.2	36	49	5.0	1	100.0	100	100	0.0	0	--	--	--	--
12	3/17-3/20	125	45.2	31	94	7.6	0	--	--	--	--	0	--	--	--	--
13	3/24-3/27	134	46.8	29	60	6.6	2	144.0	125	163	26.9	0	--	--	--	--
14	3/31-4/3	105	50.6	36	71	8.0	1	99.0	99	99	0.0	3	34.7	34	36	1.2
15	4/7-4/9	45	52.7	35	76	11.9	1	114.0	114	114	0.0	3	35.7	35	36	0.6
16	4/14-4/17	106	61.3	38	78	7.5	4	127.8	115	164	24.2	2	33.0	32	34	1.4
17	4/21-4/24	85	60.1	40	81	7.5	5	131.4	119	141	9.2	0	--	--	--	--
18	4/28-5/1	76	66.3	44	87	9.9	2	133.5	133	134	0.7	0	--	--	--	--
19	5/5-5/7	71	58.3	45	76	7.2	0	--	--	--	--	7	52.1	46	57	4.2
20	5/12-5/15	90	66.2	37	120	12.8	0	--	--	--	--	21	34.6	32	40	1.8
21	5/19-5/22	90	71.6	49	98	12.2	0	--	--	--	--	6	56.0	35	73	12.3
22	5/27-5/29	59	71.6	39	101	13.9	0	--	--	--	--	23	59.3	54	68	3.8
23	6/2-6/2	14	75.7	53	94	13.1	0	--	--	--	--	3	51.7	44	59	7.5
24	6/11-6/11	27	77.1	64	92	6.6	0	--	--	--	--	2	53.0	45	61	11.3
25	6/16-6/16	23	73.9	56	86	7.4	0	--	--	--	--	1	61.0	61	61	0.0

Appendix W. Klamath River weekly Steelhead fork length information, 2009.

Appendix W1. Klamath River at Bogus (frame net) weekly Steelhead fork lengths (mm), 2009.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/11-3/13	0	--	--	--	--	1	69.0	69	69	0.0	0	--	--	--	--
12	3/17-3/20	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
13	3/24-3/27	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
14	3/31-4/3	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
15	4/7-4/10	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
16	4/14-4/17	3	25.7	24	27	1.5	0	--	--	--	--	0	--	--	--	--
17	4/21-4/24	2	25.0	25	25	0.0	1	153.0	153	153	0.0	0	--	--	--	--
18	4/28-5/1	10	25.1	23	27	1.2	0	--	--	--	--	0	--	--	--	--
19	5/5-5/8	8	25.9	24	27	1.0	0	--	--	--	--	0	--	--	--	--
20	5/12-5/15	67	25.4	22	28	1.2	1	113.0	113	113	0.0	0	--	--	--	--

Appendix W2. Klamath River at I-5 (frame net) weekly Steelhead fork lengths (mm), 2009.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/11-3/13	0	--	--	--	--	1	62.0	62	62	0.0	0	--	--	--	--
12	3/17-3/20	0	--	--	--	--	5	69.8	65	78	5.3	0	--	--	--	--
13	3/24-3/27	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
14	3/31-4/3	0	--	--	--	--	1	63.0	63	63	0.0	0	--	--	--	--
15	4/7-4/10	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
16	4/14-4/17	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
17	4/21-4/24	1	26.0	26	26	0.0	1	87.0	87	87	0.0	0	--	--	--	--
18	4/28-5/1	3	25.7	25	26	0.6	1	136.0	136	136	0.0	0	--	--	--	--
19	5/5-5/8	0	--	--	--	--	2	128.5	89	168	55.9	0	--	--	--	--
20	5/12-5/14	4	25.8	25	27	1.0	0	--	--	--	--	2	162.0	152	172	14.1

Appendix W3. Klamath River at I-5 (RST) weekly Steelhead fork lengths (mm), 2009.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
10	3/4-3/4	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
11	3/11-3/13	0	--	--	--	--	1	65.0	65	65	0.0	0	--	--	--	--
12	3/17-3/20	0	--	--	--	--	5	116.2	62	232	71.1	0	--	--	--	--
13	3/24-3/27	0	--	--	--	--	7	108.0	70	160	39.3	0	--	--	--	--
14	3/31-4/3	0	--	--	--	--	4	100.5	72	155	37.1	0	--	--	--	--
15	4/7-4/10	0	--	--	--	--	5	117.8	72	204	57.5	0	--	--	--	--
16	4/14-4/17	0	--	--	--	--	8	131.4	78	176	35.8	0	--	--	--	--
17	4/21-4/24	0	--	--	--	--	4	86.8	62	130	29.8	0	--	--	--	--
18	4/28-5/1	0	--	--	--	--	1	175.0	175	175	0.0	1	191.0	191	191	0.0
19	5/5-5/8	0	--	--	--	--	4	97.3	67	119	26.1	0	--	--	--	--
20	5/12-5/15	6	25.7	24	28	1.6	8	148.1	115	160	15.4	6	166.0	148	178	12.0
22	5/27-5/27	0	--	--	--	--	11	143.3	116	164	17.4	0	--	--	--	--

Appendix W4. Klamath River at Kinsman (RST) weekly Steelhead fork lengths (mm), 2009.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/10-3/13	0	--	--	--	--	2	148.5	147	150	2.1	0	--	--	--	--
12	3/17-3/20	0	--	--	--	--	22	100.6	55	257	50.9	0	--	--	--	--
13	3/24-3/27	0	--	--	--	--	9	140.4	64	263	65.7	0	--	--	--	--
14	3/31-4/3	0	--	--	--	--	9	122.7	68	175	42.0	0	--	--	--	--
15	4/7-4/9	0	--	--	--	--	6	185.2	70	293	73.3	0	--	--	--	--
16	4/14-4/17	0	--	--	--	--	5	150.6	117	175	21.1	0	--	--	--	--
17	4/21-4/24	0	--	--	--	--	14	162.5	72	282	49.5	0	--	--	--	--
18	4/28-5/1	0	--	--	--	--	11	171.7	101	245	37.3	0	--	--	--	--
19	5/5-5/7	0	--	--	--	--	12	152.0	110	205	31.5	0	--	--	--	--
20	5/12-5/15	0	--	--	--	--	15	155.3	90	213	41.5	0	--	--	--	--
21	5/19-5/22	0	--	--	--	--	49	143.3	85	222	29.6	0	--	--	--	--
22	5/27-5/29	6	31.8	26	37	4.4	27	149.3	95	240	42.0	3	174.0	167	185	9.6
23	6/2-6/2	1	26.0	26	26	0.0	9	148.7	97	250	42.7	0	--	--	--	--
24	6/11-6/11	0	--	--	--	--	9	135.6	110	184	20.4	0	--	--	--	--
25	6/16-6/16	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix X. Klamath River weekly Chinook Salmon and Coho Salmon fork length information, 2010.

Appendix X1. Klamath River at Bogus (frame net) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2010.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/12-3/12	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/16-3/19	90	36.5	33	40	1.3	1	87.0	87	87	0.0	0	--	--	--	--	1	95.0	95	95	0.0	0	--	--	--	--
13	3/23-3/26	90	36.7	34	41	1.5	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
14	3/30-4/2	90	37.2	33	45	1.9	0	--	--	--	--	9	34.1	33	35	0.9	0	--	--	--	--	0	--	--	--	--
15	4/6-4/9	90	37.2	33	42	1.6	0	--	--	--	--	6	34.0	32	37	1.8	0	--	--	--	--	0	--	--	--	--
16	4/13-4/16	90	37.0	34	53	2.8	0	--	--	--	--	60	34.5	32	37	1.0	0	--	--	--	--	2	98.0	96	100	2.8
17	4/20-4/23	90	36.8	34	42	1.7	0	--	--	--	--	74	34.1	31	38	1.4	0	--	--	--	--	0	--	--	--	--
18	4/27-4/30	90	40.7	35	60	5.5	0	--	--	--	--	2	37.0	37	37	0.0	0	--	--	--	--	0	--	--	--	--
19	5/4-5/7	90	40.8	35	53	4.3	0	--	--	--	--	1	42.0	42	42	0.0	0	--	--	--	--	0	--	--	--	--
20	5/11-5/14	52	43.6	34	60	5.8	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
21	5/18-5/20	27	43.0	36	52	4.4	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
22	5/25-5/27	5	55.0	43	85	17.1	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix X2. Klamath River at I-5 (frame net) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2010.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/11-3/12	30	37.1	34	48	2.5	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/16-3/19	90	36.7	33	40	1.4	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
13	3/23-3/26	90	37.3	33	46	2.1	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
14	3/30-4/2	80	37.2	33	48	2.3	0	--	--	--	--	2	34.0	34	34	0.0	0	--	--	--	--	0	--	--	--	--
15	4/6-4/9	90	37.6	34	45	2.0	0	--	--	--	--	11	34.5	32	36	1.0	0	--	--	--	--	0	--	--	--	--
16	4/13-4/16	90	37.9	33	47	2.8	0	--	--	--	--	24	34.9	29	37	1.6	0	--	--	--	--	6	121.0	105	137	11.4
17	4/20-4/23	90	37.7	34	53	3.0	0	--	--	--	--	23	34.5	32	36	0.9	0	--	--	--	--	0	--	--	--	--
18	4/27-4/30	90	39.3	34	60	4.4	0	--	--	--	--	7	36.9	33	42	2.7	0	--	--	--	--	0	--	--	--	--
19	5/4-5/7	90	41.0	34	56	4.0	0	--	--	--	--	3	37.7	37	38	0.6	0	--	--	--	--	0	--	--	--	--
20	5/11-5/14	31	44.7	34	60	6.7	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
21	5/18-5/21	24	42.7	36	58	5.4	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
22	5/27-5/27	1	57.0	57	57	0.0	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix X3. Klamath River at I-5 (RST) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2010.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/11-3/12	30	37.1	33	43	2.2	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/16-3/19	90	37.0	33	44	1.8	1	96.0	96	96	0.0	0	--	--	--	--	1	122.0	122	122	0.0	1	135.0	135	135	0.0
13	3/23-3/26	90	37.3	33	44	1.9	0	--	--	--	--	0	--	--	--	--	1	121.0	121	121	0.0	0	--	--	--	--
14	3/30-4/2	90	38.0	33	52	3.7	0	--	--	--	--	0	--	--	--	--	2	93.5	93	94	0.7	0	--	--	--	--
15	4/6-4/9	90	38.2	29	55	3.7	1	104.0	104	104	0.0	1	34.0	34	34	0.0	0	--	--	--	--	0	--	--	--	--
16	4/13-4/16	90	38.4	33	56	4.4	0	--	--	--	--	0	--	--	--	--	1	135.0	135	135	0.0	49	127.3	98	146	9.3
17	4/20-4/23	90	38.8	33	57	4.9	0	--	--	--	--	5	34.6	34	35	0.6	0	--	--	--	--	3	126.7	124	130	3.1
18	4/27-4/30	90	42.3	33	64	7.3	1	102.0	102	102	0.0	0	--	--	--	--	3	129.7	118	136	10.1	3	132.7	124	145	11.0
19	5/4-5/7	90	43.3	34	61	6.1	0	--	--	--	--	1	41.0	41	41	0.0	0	--	--	--	--	1	127.0	127	127	0.0
20	5/11-5/14	98	49.8	38	76	9.3	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	1	128.0	128	128	0.0
21	5/18-5/21	86	55.5	36	90	11.8	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	2	130.0	123	137	9.9
22	5/25-5/28	33	60.3	44	94	12.8	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	2	151.5	148	155	5.0
23	6/2-6/4	54	70.8	49	105	11.8	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
24	6/9-6/11	45	76.9	45	108	13.8	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
25	6/16-6/16	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix X4. Klamath River at Kinsman (RST) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2010.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/10-3/12	30	37.3	34	46	2.3	0	--	--	--	--	0	--	--	--	--	1	78.0	78	78	0.0	0	--	--	--	--
12	3/16-3/19	89	36.9	31	52	3.2	0	--	--	--	--	3	35.7	35	37	1.2	2	98.0	95	101	4.2	0	--	--	--	--
13	3/23-3/26	96	39.4	33	53	4.4	0	--	--	--	--	2	36.0	36	36	0.0	2	108.0	103	113	7.1	0	--	--	--	--
14	3/30-4/2	90	40.0	34	57	4.9	0	--	--	--	--	30	34.4	33	38	1.0	0	--	--	--	--	0	--	--	--	--
15	4/6-4/9	90	42.1	33	65	6.6	0	--	--	--	--	12	35.8	35	38	0.9	2	120.0	120	120	0.0	0	--	--	--	--
16	4/13-4/16	60	45.1	30	64	7.3	0	--	--	--	--	57	35.3	34	37	0.9	1	101.0	101	101	0.0	0	--	--	--	--
17	4/20-4/23	90	49.9	35	67	7.3	0	--	--	--	--	7	36.9	34	42	2.6	1	133.0	133	133	0.0	0	--	--	--	--
18	4/27-4/30	90	52.2	38	83	7.8	0	--	--	--	--	1	35.0	35	35	0.0	3	128.7	98	147	26.7	0	--	--	--	--
19	5/4-5/7	88	52.6	35	75	7.0	2	122.5	113	132	13.4	2	36.0	34	38	2.8	4	107.3	84	120	16.2	2	178.5	176	181	3.5
20	5/11-5/14	90	53.8	36	98	11.0	1	136.0	136	136	0.0	3	43.0	36	49	6.6	0	--	--	--	--	4	153.3	131	168	16.2
21	5/18-5/21	90	55.6	35	101	12.7	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	3	137.7	125	152	13.6
22	5/25-5/28	69	63.0	37	98	17.9	0	--	--	--	--	2	52.0	51	53	1.4	0	--	--	--	--	3	142.0	131	149	9.6
23	6/2-6/4	61	61.0	40	101	15.7	0	--	--	--	--	6	53.2	44	64	6.4	0	--	--	--	--	0	--	--	--	--
24	6/9-6/11	60	64.6	39	110	18.6	0	--	--	--	--	3	67.7	63	74	5.7	0	--	--	--	--	0	--	--	--	--
25	6/16-6/17	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
26	6/24-6/25	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
27	6/29-6/30	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix Y. Klamath River weekly Steelhead fork length information, 2010.**Appendix Y1. Klamath River at Bogus (frame net) weekly Steelhead fork lengths (mm), 2010.**

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/12-3/12	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/16-3/19	0	--	--	--	--	3	81.7	77	86	4.5	0	--	--	--	--
13	3/23-3/26	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
14	3/30-4/2	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
15	4/6-4/9	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
16	4/13-4/16	1	27.0	27	27	0.0	0	--	--	--	--	1	111.0	111	111	0.0
17	4/20-4/23	6	25.3	23	27	1.5	0	--	--	--	--	0	--	--	--	--
18	4/27-4/30	4	23.8	22	25	1.3	0	--	--	--	--	0	--	--	--	--
19	5/4-5/7	27	25.1	19	27	1.7	0	--	--	--	--	0	--	--	--	--
20	5/11-5/14	57	26.0	23	32	1.5	0	--	--	--	--	0	--	--	--	--
21	5/18-5/20	12	26.0	24	28	1.0	0	--	--	--	--	1	142.0	142	142	0.0
22	5/25-5/27	6	25.5	24	27	1.4	0	--	--	--	--	0	--	--	--	--

Appendix Y2. Klamath River at I-5 (frame net) weekly Steelhead fork lengths (mm), 2010.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/11-3/12	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/16-3/19	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
13	3/23-3/26	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
14	3/30-4/2	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
15	4/6-4/9	0	--	--	--	--	2	83.5	78	89	7.8	0	--	--	--	--
16	4/13-4/16	1	25.0	25	25	0.0	0	--	--	--	--	0	--	--	--	--
17	4/20-4/23	2	26.0	25	27	1.4	0	--	--	--	--	0	--	--	--	--
18	4/27-4/30	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
19	5/4-5/7	12	26.4	22	31	2.0	0	--	--	--	--	0	--	--	--	--
20	5/11-5/14	1	26.0	26	26	0.0	1	136.0	136	136	0.0	0	--	--	--	--
21	5/18-5/21	0	--	--	--	--	1	139.0	139	139	0.0	1	145.0	145	145	0.0
22	5/27-5/27	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix Y3. Klamath River at I-5 (RST) weekly Steelhead fork lengths (mm), 2010.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0		Age-1+						Age-1+						
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/11-3/12	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/16-3/19	0	--	--	--	--	2	142.0	112	172	42.4	0	--	--	--	--
13	3/23-3/26	0	--	--	--	--	2	92.5	91	94	2.1	0	--	--	--	--
14	3/30-4/2	0	--	--	--	--	5	101.4	81	144	26.7	0	--	--	--	--
15	4/6-4/9	0	--	--	--	--	2	159.0	127	191	45.3	0	--	--	--	--
16	4/13-4/16	0	--	--	--	--	3	119.7	92	170	43.7	0	--	--	--	--
17	4/20-4/23	0	--	--	--	--	3	119.3	100	155	30.9	0	--	--	--	--
18	4/27-4/30	0	--	--	--	--	11	143.4	86	196	41.2	0	--	--	--	--
19	5/4-5/7	2	25.5	25	26	0.7	4	173.8	155	193	17.0	2	145.5	144	147	2.1
20	5/11-5/14	4	24.5	23	27	1.9	0	--	--	--	--	0	--	--	--	--
21	5/18-5/21	0	--	--	--	--	1	128.0	128	128	0.0	1	148.0	148	148	0.0
22	5/25-5/28	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
23	6/2-6/4	0	--	--	--	--	3	141.7	117	161	22.5	0	--	--	--	--
24	6/9-6/11	2	49.5	47	52	3.5	3	153.0	141	173	17.4	0	--	--	--	--
25	6/16-6/16	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix Y4. Klamath River at Kinsman (RST) weekly Steelhead fork lengths (mm), 2010.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0		Age-1+						Age-1+						
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/10-3/12	0	--	--	--	--	5	96.4	64	175	46.3	0	--	--	--	--
12	3/16-3/19	0	--	--	--	--	7	88.1	59	169	37.0	0	--	--	--	--
13	3/23-3/26	0	--	--	--	--	8	107.9	63	181	40.7	0	--	--	--	--
14	3/30-4/2	0	--	--	--	--	20	80.9	62	177	24.0	0	--	--	--	--
15	4/6-4/9	0	--	--	--	--	7	84.9	54	185	45.9	0	--	--	--	--
16	4/13-4/16	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
17	4/20-4/23	2	25.0	25	25	0.0	12	91.3	54	185	37.1	0	--	--	--	--
18	4/27-4/30	0	--	--	--	--	5	126.0	65	273	86.6	0	--	--	--	--
19	5/4-5/7	0	--	--	--	--	5	146.8	66	200	60.9	0	--	--	--	--
20	5/11-5/14	0	--	--	--	--	8	141.1	106	164	19.6	0	--	--	--	--
21	5/18-5/21	0	--	--	--	--	14	137.6	99	180	30.2	0	--	--	--	--
22	5/25-5/28	0	--	--	--	--	12	118.4	72	158	28.6	0	--	--	--	--
23	6/2-6/4	0	--	--	--	--	14	140.0	82	175	24.1	0	--	--	--	--
24	6/9-6/11	0	--	--	--	--	9	137.6	108	189	26.4	0	--	--	--	--
25	6/16-6/17	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
26	6/24-6/25	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
27	6/29-6/30	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix Z. Klamath River weekly Chinook Salmon and Coho Salmon fork length information, 2011.**Appendix Z1. Klamath River at Bogus (frame net) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2011.**

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
10	3/2-3/4	60	36.3	32	40	1.9	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
11	3/8-3/11	90	37.1	31	42	2.1	1	86.0	86	86	0.0	2	34.0	33	35	1.4	0	--	--	--	--	0	--	--	--	--
12	3/15-3/18	90	36.8	33	47	2.6	0	--	--	--	--	13	35.0	33	37	1.1	0	--	--	--	--	0	--	--	--	--
14	3/29-3/31	90	38.0	34	43	1.8	0	--	--	--	--	2	37.0	37	37	0.0	0	--	--	--	--	0	--	--	--	--
15	4/5-4/7	60	38.1	34	43	1.8	0	--	--	--	--	7	34.9	33	38	1.6	0	--	--	--	--	0	--	--	--	--
16	4/12-4/14	90	39.3	32	52	3.2	0	--	--	--	--	34	35.4	31	44	2.6	0	--	--	--	--	0	--	--	--	--
17	4/19-4/22	90	38.3	35	49	2.4	0	--	--	--	--	73	34.9	31	41	1.9	0	--	--	--	--	0	--	--	--	--
18	4/26-4/29	90	39.0	34	56	3.8	0	--	--	--	--	42	35.6	31	51	3.1	0	--	--	--	--	0	--	--	--	--
19	5/3-5/6	90	39.8	34	64	4.9	0	--	--	--	--	31	37.4	32	50	5.0	0	--	--	--	--	0	--	--	--	--
20	5/10-5/13	90	47.3	28	69	8.9	0	--	--	--	--	18	38.6	34	45	3.3	0	--	--	--	--	0	--	--	--	--
21	5/17-5/20	50	52.0	37	72	7.7	0	--	--	--	--	10	47.9	42	56	3.8	0	--	--	--	--	0	--	--	--	--
22	5/24-5/27	54	54.9	39	82	10.2	0	--	--	--	--	13	49.6	37	58	5.8	0	--	--	--	--	0	--	--	--	--
23	6/1-6/3	32	52.9	37	86	12.9	0	--	--	--	--	1	38.0	38	38	0.0	0	--	--	--	--	0	--	--	--	--
24	6/7-6/10	28	57.5	37	96	16.6	0	--	--	--	--	2	63.0	62	64	1.4	0	--	--	--	--	0	--	--	--	--
25	6/14-6/14	16	67.1	39	119	24.7	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
26	6/22-6/22	5	84.2	54	111	23.5	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix Z2. Klamath River at I-5 (frame net) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2011.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/9-3/11	27	39.1	31	42	2.5	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/15-3/15	5	38.2	34	41	2.6	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix Z3. Klamath River at I-5 (RST) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2011.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
10	3/3-3/3	0	--	--	--	--	1	88.0	88	88	0.0	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
11	3/8-3/11	32	39.0	32	42	2.3	2	88.0	85	91	4.2	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/15-3/18	4	40.0	39	41	0.8	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
14	3/29-3/29	1	38.0	38	38	0.0	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
15	4/6-4/7	2	36.5	36	37	0.7	0	--	--	--	--	3	36.3	35	39	2.3	1	132.0	132	132	0.0	0	--	--	--	--
16	4/12-4/14	16	40.9	36	54	5.1	0	--	--	--	--	10	36.3	34	43	2.7	0	--	--	--	--	0	--	--	--	--
17	4/19-4/22	20	48.1	34	58	6.3	0	--	--	--	--	8	37.8	32	49	6.3	0	--	--	--	--	0	--	--	--	--
18	4/26-4/29	9	49.0	34	69	12.8	0	--	--	--	--	1	38.0	38	38	0.0	0	--	--	--	--	0	--	--	--	--
19	5/3-5/6	13	53.5	37	70	13.0	0	--	--	--	--	3	35.0	34	36	1.0	0	--	--	--	--	0	--	--	--	--
20	5/10-5/13	20	62.5	39	92	14.8	0	--	--	--	--	9	50.9	39	63	7.1	0	--	--	--	--	0	--	--	--	--
21	5/17-5/20	42	65.8	41	84	10.7	0	--	--	--	--	15	58.9	43	84	10.5	0	--	--	--	--	0	--	--	--	--
22	5/24-5/27	58	71.3	40	92	13.3	0	--	--	--	--	18	53.9	43	72	6.6	0	--	--	--	--	0	--	--	--	--
23	6/1-6/3	29	83.7	40	103	14.5	0	--	--	--	--	7	59.7	53	66	4.4	0	--	--	--	--	0	--	--	--	--
24	6/7-6/10	50	88.0	42	115	18.1	0	--	--	--	--	8	58.0	54	65	3.7	0	--	--	--	--	0	--	--	--	--
25	6/14-6-14	41	91.3	49	112	15.4	0	--	--	--	--	9	68.8	58	81	7.0	0	--	--	--	--	0	--	--	--	--
26	6/21-6/24	44	97.6	54	116	14.2	0	--	--	--	--	18	69.1	59	82	5.9	0	--	--	--	--	0	--	--	--	--
27	6/30-6/30	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
28	7/6-7/7	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
29	7/13-7/13	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
30	7/20-7/20	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix Z4. Klamath River at Kinsman (RST) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2011.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
9	2/25-2/25	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
10	3/1-3/4	13	40.2	38	43	1.6	1	131.0	131	131	0.0	0	--	--	--	--	1	80.0	80	80	0.0	0	--	--	--	--
11	3/8-3/11	10	45.0	39	57	6.5	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/15-3/15	5	46.6	42	51	3.4	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
14	3/29-3/30	13	40.7	38	44	1.8	0	--	--	--	--	5	33.8	32	35	1.3	0	--	--	--	--	0	--	--	--	--
15	4/5-4/8	15	39.1	30	43	3.2	0	--	--	--	--	17	34.4	30	37	1.9	0	--	--	--	--	0	--	--	--	--
16	4/12-4/15	40	52.3	38	87	8.5	0	--	--	--	--	1	33.0	33	33	0.0	0	--	--	--	--	0	--	--	--	--
17	4/19-4/22	64	56.1	43	75	8.8	0	--	--	--	--	8	35.8	35	37	0.7	0	--	--	--	--	0	--	--	--	--
18	4/26-4/29	10	55.5	36	70	9.9	0	--	--	--	--	9	36.0	34	38	1.2	0	--	--	--	--	0	--	--	--	--
19	5/3-5/6	53	59.4	43	74	6.9	0	--	--	--	--	2	36.5	36	37	0.7	0	--	--	--	--	0	--	--	--	--
20	5/10-5/13	59	61.9	44	87	8.8	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
21	5/17-5/20	23	62.1	52	86	9.6	0	--	--	--	--	13	44.2	36	57	7.3	0	--	--	--	--	0	--	--	--	--
22	5/25-5/26	25	65.7	45	86	10.5	0	--	--	--	--	4	54.5	43	74	14.8	0	--	--	--	--	0	--	--	--	--
23	6/1-6/3	4	61.8	44	93	22.4	0	--	--	--	--	4	52.0	39	69	12.7	0	--	--	--	--	0	--	--	--	--
24	6/7-6/10	20	80.7	37	113	19.4	0	--	--	--	--	7	61.0	46	71	8.7	0	--	--	--	--	0	--	--	--	--
25	6/14-6/16	24	90.8	58	114	13.5	0	--	--	--	--	9	60.9	50	73	7.3	0	--	--	--	--	0	--	--	--	--
26	6/21-6/24	18	91.2	45	114	16.0	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
27	6/29-6/29	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
28	7/6-7/7	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
29	7/13-7/14	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
30	7/20-7/21	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
31	7/27-7/27	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix AA. Klamath River weekly Steelhead fork length information, 2011.

Appendix AA1. Klamath River at Bogus (frame net) weekly Steelhead fork lengths (mm), 2011.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
10	3/2-3/4	0	--	--	--	--	2	105.0	82	128	32.5	0	--	--	--	--
11	3/8-3/11	0	--	--	--	--	9	82.4	69	101	10.4	0	--	--	--	--
12	3/15-3/18	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
14	3/29-3/31	0	--	--	--	--	1	77.0	77	77	0.0	0	--	--	--	--
15	4/5-4/7	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
16	4/12-4/14	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
17	4/19-4/22	0	--	--	--	--	2	56.5	55	58	2.1	0	--	--	--	--
18	4/26-4/29	2	26.0	25	27	1.4	0	--	--	--	--	0	--	--	--	--
19	5/3-5/6	4	25.5	25	26	0.6	1	188.0	188	188	0.0	0	--	--	--	--
20	5/10-5/13	5	26.2	25	27	0.8	0	--	--	--	--	0	--	--	--	--
21	5/17-5/20	4	24.5	23	26	1.3	0	--	--	--	--	0	--	--	--	--
22	5/24-5/27	6	25.5	24	28	1.6	0	--	--	--	--	0	--	--	--	--
23	6/1-6/3	8	26.4	26	27	0.5	0	--	--	--	--	0	--	--	--	--
24	6/7-6/10	5	25.6	25	27	0.9	3	119.3	105	142	19.9	0	--	--	--	--
25	6/14-6/14	2	25.5	25	26	0.7	0	--	--	--	--	0	--	--	--	--
26	6/22-6/22	0	--	--	--	--	1	91.0	91	91	0.0	0	--	--	--	--

Appendix AA2. Klamath River at I-5 (frame net) weekly Steelhead fork lengths (mm), 2011.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/9-3/11	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/15-3/15	0	--	--	--	--	1	112.0	112	112	0.0	0	--	--	--	--

Appendix AA3. Klamath River at I-5 (RST) weekly Steelhead fork lengths (mm), 2011.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
10	3/3-3/3	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
11	3/8-3/11	0	--	--	--	--	1	180.0	180	180	0.0	0	--	--	--	--
12	3/15-3/18	0	--	--	--	--	2	67.0	67	67	0.0	0	--	--	--	--
14	3/29-3/29	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
15	4/6-4/7	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
16	4/12-4/14	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
17	4/19-4/22	0	--	--	--	--	1	151.0	151	151	0.0	0	--	--	--	--
18	4/26-4/29	1	27.0	27	27	0.0	1	265.0	265	265	0.0	0	--	--	--	--
19	5/3-5/6	0	--	--	--	--	1	88.0	88	88	0.0	1	197.0	197	197	0.0
20	5/10-5/13	2	31.0	27	35	5.7	2	181.0	178	184	4.2	0	--	--	--	--
21	5/17-5/20	0	--	--	--	--	2	149.0	120	178	41.0	0	--	--	--	--
22	5/24-5/27	2	23.0	20	26	4.2	2	141.5	132	151	13.4	1	190.0	190	190	0.0
23	6/1-6/3	0	--	--	--	--	2	137.5	97	178	57.3	0	--	--	--	--
24	6/7-6/10	0	--	--	--	--	1	150.0	150	150	0.0	0	--	--	--	--
25	6/14-6-14	0	--	--	--	--	2	149.5	141	158	12.0	0	--	--	--	--
26	6/21-6/24	0	--	--	--	--	2	149.5	149	150	0.7	0	--	--	--	--
27	6/30-6/30	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
28	7/6-7/7	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
29	7/13-7/13	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
30	7/20-7/20	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix AA4. Klamath River at Kinsman (RST) weekly Steelhead fork lengths (mm), 2011.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0				Age-1+						Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
9	2/25-2/25	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
10	3/1-3/4	0	--	--	--	--	6	94.8	51	201	57.2	0	--	--	--	--
11	3/8-3/11	0	--	--	--	--	7	91.4	62	178	43.0	0	--	--	--	--
12	3/15-3/15	0	--	--	--	--	1	225.0	225	225	0.0	0	--	--	--	--
14	3/29-3/30	0	--	--	--	--	2	170.5	150	191	29.0	0	--	--	--	--
15	4/5-4/8	0	--	--	--	--	3	141.3	106	164	31.0	0	--	--	--	--
16	4/12-4/15	0	--	--	--	--	2	101.5	64	139	53.0	0	--	--	--	--
17	4/19-4/22	0	--	--	--	--	3	135.3	122	153	16.0	0	--	--	--	--
18	4/26-4/29	0	--	--	--	--	4	158.8	83	238	63.3	0	--	--	--	--
19	5/3-5/6	0	--	--	--	--	2	118.0	98	138	28.3	0	--	--	--	--
20	5/10-5/13	0	--	--	--	--	5	148.2	133	167	13.6	0	--	--	--	--
21	5/17-5/20	0	--	--	--	--	6	133.5	100	170	27.1	0	--	--	--	--
22	5/25-5/26	2	28.0	27	29	1.4	3	110.7	85	140	27.7	0	--	--	--	--
23	6/1-6/3	0	--	--	--	--	8	146.0	119	189	27.8	0	--	--	--	--
24	6/7-6/10	0	--	--	--	--	15	135.7	85	164	23.4	0	--	--	--	--
25	6/14-6/16	0	--	--	--	--	3	160.3	151	179	16.2	0	--	--	--	--
26	6/21-6/24	1	26.0	26	26	0.0	12	120.4	97	143	15.3	0	--	--	--	--
27	6/29-6/29	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
28	7/6-7/7	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
29	7/13-7/14	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
30	7/20-7/21	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
31	7/27-7/27	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix BB. Klamath River weekly Chinook Salmon and Coho Salmon fork length information, 2012.

Appendix BB1. Klamath River at Bogus (frame net) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2012.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/15-3/16	30	37.1	33	40	2.0	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	--	--	--	--	--
12	3/20-3/23	90	37.1	31	41	2.0	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	--	--	--	--	--
13	3/27-3/30	90	37.0	32	41	2.0	0	--	--	--	--	8	32.0	30	33	0.9	0	--	--	--	--	--	--	--	--	--
14	4/3-4/5	90	37.4	33	44	1.7	0	--	--	--	--	11	33.6	31	37	1.7	0	--	--	--	--	1	85.0	85	85	0.0
15	4/10-4/13	90	37.5	34	42	1.3	0	--	--	--	--	11	33.5	32	38	1.8	0	--	--	--	--	--	--	--	--	--
16	4/17-4/20	90	37.4	34	46	1.6	0	--	--	--	--	86	33.8	30	42	1.6	0	--	--	--	--	--	--	--	--	--
17	4/24-4/27	60	38.7	34	51	3.0	0	--	--	--	--	59	34.4	31	39	1.7	0	--	--	--	--	--	--	--	--	--
18	5/3-5/4	90	41.9	33	57	5.4	0	--	--	--	--	51	36.2	31	44	2.9	0	--	--	--	--	--	--	--	--	--
19	5/8-5/11	90	45.5	35	63	6.2	0	--	--	--	--	44	37.2	32	45	3.9	0	--	--	--	--	--	--	--	--	--
20	5/15-5/18	90	46.2	36	68	7.9	0	--	--	--	--	43	41.4	33	50	4.8	0	--	--	--	--	--	--	--	--	--
21	5/22-5/25	90	45.7	35	89	11.1	0	--	--	--	--	8	41.8	33	52	6.6	0	--	--	--	--	--	--	--	--	--
22	6/1-6/1	33	59.1	38	103	17.3	0	--	--	--	--	8	51.5	37	56	7.1	0	--	--	--	--	--	--	--	--	--

Appendix BB2. Klamath River at I-5 (frame net) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2012.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
12	3/21-3/23	11	35.5	30	39	2.8	0	--	--	--	--	1	31.0	31	31	0.0	0	--	--	--	--	0	--	--	--	--
13	3/27-3/28	46	36.4	31	48	2.6	0	--	--	--	--	7	34.3	33	35	1.0	0	--	--	--	--	0	--	--	--	--
14	4/3-4/3	8	36.4	34	38	1.2	0	--	--	--	--	4	36.5	35	39	1.7	0	--	--	--	--	1	113.0	113	113	0.0

Appendix BB3. Klamath River at I-5 (RST) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2012.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/14-3/16	13	36.1	33	39	1.9	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/20-3/23	25	34.8	30	39	3.2	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
13	3/27-3/29	57	36.5	30	44	2.6	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
14	4/3-4/4	38	37.0	33	43	2.0	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	22	124.8	95	145	11.4
15	4/10-4/13	39	38.4	32	55	4.5	0	--	--	--	--	0	--	--	--	--	2	114.5	111	118	5.0	3	132.3	116	160	24.1
16	4/18-4/20	47	37.6	32	56	3.4	0	--	--	--	--	3	33.7	33	34	0.6	0	--	--	--	--	3	148.0	136	156	10.6
17	4/24-4/27	42	39.3	34	58	5.1	0	--	--	--	--	6	34.5	33	36	1.1	0	--	--	--	--	2	128.0	116	140	17.0
18	5/1-5/4	42	48.5	35	68	10.4	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	3	135.3	121	145	12.7
19	5/10-5/11	67	57.9	38	79	9.2	0	--	--	--	--	2	50.5	48	53	3.5	5	131.0	120	143	9.5	13	142.8	133	161	8.3
20	5/16-5/18	90	55.8	38	84	8.6	0	--	--	--	--	10	51.1	42	58	5.0	1	140.0	140	140	0.0	4	139.3	123	152	12.0
21	5/22-5/25	90	59.2	39	95	12.1	0	--	--	--	--	28	50.9	44	69	5.3	0	--	--	--	--	1	117.0	117	117	0.0
22	5/29-6/1	87	70.7	42	111	16.9	0	--	--	--	--	28	57.8	49	67	4.7	0	--	--	--	--	0	--	--	--	--
23	6/5-6/7	52	78.2	46	106	15.5	0	--	--	--	--	3	59.7	51	72	11.0	0	--	--	--	--	0	--	--	--	--

Appendix BB4. Klamath River at Kinsman (RST) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2012.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/15-3/16	2	38.5	38	39	0.7	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/20-3/23	2	45.5	43	48	3.5	1	94.0	94	94	0.0	0	--	--	--	--	11	82.5	68	95	9.2	0	--	--	--	--
13	3/27-3/29	4	45.3	41	48	3.1	0	--	--	--	--	0	--	--	--	--	2	85.0	77	93	11.3	0	--	--	--	--
14	4/3-4/5	11	46.0	42	54	3.7	1	171.0	171	171	0.0	1	43.0	43	43	0.0	0	--	--	--	--	2	140.5	138	143	3.5
15	4/10-4/13	17	41.6	36	65	9.3	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	1	151.0	151	151	0.0
16	4/17-4/20	27	40.3	35	67	8.8	1	128.0	128	128	0.0	0	--	--	--	--	0	--	--	--	--	2	167.5	165	170	3.5
17	4/26-4/27	2	43.5	36	51	10.6	0	--	--	--	--	2	45.0	43	47	2.8	6	111.2	103	117	5.6	0	--	--	--	--
18	5/3-5/4	17	59.1	45	69	7.8	0	--	--	--	--	0	--	--	--	--	5	112.4	104	119	5.8	4	154.8	142	172	12.5
19	5/11-5/11	12	57.3	44	79	9.5	0	--	--	--	--	1	46.0	46	46	0.0	11	117.4	109	129	5.6	4	147.8	129	164	14.9
20	5/16-5/18	10	70.7	50	87	11.8	0	--	--	--	--	6	57.2	49	61	4.3	2	120.5	109	132	16.3	0	--	--	--	--
21	5/23-5/25	56	66.6	36	96	16.2	0	--	--	--	--	25	56.8	41	64	6.2	1	130.0	130	130	0.0	0	--	--	--	--
22	5/29-6/1	52	81.4	52	105	14.8	0	--	--	--	--	30	61.1	50	70	5.0	1	100.0	100	100	0.0	0	--	--	--	--
23	6/5-6/8	83	90.0	56	117	12.2	0	--	--	--	--	27	65.4	56	75	5.3	0	--	--	--	--	0	--	--	--	--
24	6/12-6/15	85	87.6	59	120	12.8	0	--	--	--	--	84	65.5	40	82	8.4	0	--	--	--	--	0	--	--	--	--
25	6/19-6/21	75	73.1	59	100	10.2	0	--	--	--	--	46	64.4	41	78	6.7	0	--	--	--	--	0	--	--	--	--
26	6/27-6/28	18	73.4	57	84	7.8	0	--	--	--	--	9	62.3	52	74	7.9	0	--	--	--	--	0	--	--	--	--
27	7/3-7/3	11	81.6	70	111	11.1	0	--	--	--	--	1	59.0	59	59	0.0	0	--	--	--	--	0	--	--	--	--

Appendix CC. Klamath River weekly Steelhead fork length information, 2012.

Appendix CC1. Klamath River at Bogus (frame net) weekly Steelhead fork lengths (mm), 2012.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/15-3/16	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/20-3/23	0	--	--	--	--	3	69.7	66	73	3.5	0	--	--	--	--
13	3/27-3/30	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
14	4/3-4/5	0	--	--	--	--	2	73.5	70	77	5.0	0	--	--	--	--
15	4/10-4/13	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
16	4/17-4/20	0	--	--	--	--	1	71.0	71	71	0.0	0	--	--	--	--
17	4/24-4/27	1	27.0	27	27	0.0	0	--	--	--	--	0	--	--	--	--
18	5/3-5/4	27	27.1	25	36	2.7	0	--	--	--	--	0	--	--	--	--
19	5/8-5/11	64	27.0	25	34	1.4	2	149.5	109	190	57.3	0	--	--	--	--
20	5/15-5/18	57	26.3	24	30	1.0	0	--	--	--	--	0	--	--	--	--
21	5/22-5/25	30	27.3	25	39	2.8	0	--	--	--	--	1	213.0	213	213	0.0
22	6/1-6/1	26	26.4	24	34	2.1	0	--	--	--	--	1	217.0	217	217	0.0

Appendix CC2. Klamath River at I-5 (frame net) weekly Steelhead fork lengths (mm), 2012.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
12	3/21-3/23	0	--	--	--	--	2	75.0	69	81	8.5	0	--	--	--	--
13	3/27-3/28	0	--	--	--	--	2	83.0	73	93	14.1	0	--	--	--	--
14	4/3-4/3	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix CC3. Klamath River at I-5 (RST) weekly Steelhead fork lengths (mm), 2012.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/14-3/16	0	--	--	--	--	7	79.3	54	144	29.9	0	--	--	--	--
12	3/20-3/23	0	--	--	--	--	9	83.3	56	145	32.2	0	--	--	--	--
13	3/27-3/29	0	--	--	--	--	5	83.0	53	138	32.8	0	--	--	--	--
14	4/3-4/4	0	--	--	--	--	4	106.0	80	171	43.8	0	--	--	--	--
15	4/10-4/13	0	--	--	--	--	3	127.7	74	225	84.4	0	--	--	--	--
16	4/18-4/20	0	--	--	--	--	2	157.0	139	175	25.5	0	--	--	--	--
17	4/24-4/27	2	29.0	29	29	0.0	2	184.5	145	224	55.9	1	175.0	175	175	0.0
18	5/1-5/4	2	28.0	27	29	1.4	5	156.6	139	178	16.8	0	--	--	--	--
19	5/10-5/11	3	25.3	25	26	0.6	9	166.9	146	180	10.9	0	--	--	--	--
20	5/16-5/18	15	27.5	24	39	4.2	10	135.9	98	191	31.2	2	168.5	163	174	7.8
21	5/22-5/25	13	25.9	24	28	1.0	9	144.1	106	189	27.6	3	179.7	165	195	15.0
22	5/29-6/1	2	41.5	38	45	5.0	16	127.6	81	155	21.2	2	158.5	117	200	58.7
23	6/5-6/7	0	--	--	--	--	7	158.0	119	210	29.3	0	--	--	--	--

Appendix CC4. Klamath River at Kinsman (RST) weekly Steelhead fork lengths (mm), 2012.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
11	3/15-3/16	0	--	--	--	--	1	55.0	55	55	0.0	0	--	--	--	--
12	3/20-3/23	0	--	--	--	--	10	97.0	55	265	69.8	0	--	--	--	--
13	3/27-3/29	0	--	--	--	--	4	120.3	66	181	58.7	0	--	--	--	--
14	4/3-4/5	0	--	--	--	--	8	89.0	64	142	27.8	0	--	--	--	--
15	4/10-4/13	0	--	--	--	--	3	91.7	55	148	49.5	0	--	--	--	--
16	4/17-4/20	0	--	--	--	--	9	160.2	60	241	59.8	0	--	--	--	--
17	4/26-4/27	0	--	--	--	--	19	114.0	74	175	23.2	0	--	--	--	--
18	5/3-5/4	0	--	--	--	--	14	136.1	83	174	25.1	0	--	--	--	--
19	5/11-5/11	0	--	--	--	--	21	136.4	81	181	25.3	0	--	--	--	--
20	5/16-5/18	0	--	--	--	--	13	124.5	92	160	18.2	0	--	--	--	--
21	5/23-5/25	2	26.0	26	26	0.0	30	131.0	71	184	29.9	0	--	--	--	--
22	5/29-6/1	0	--	--	--	--	17	124.7	103	173	18.7	0	--	--	--	--
23	6/5-6/8	0	--	--	--	--	12	131.3	102	181	24.6	0	--	--	--	--
24	6/12-6/15	0	--	--	--	--	22	134.0	109	179	19.1	0	--	--	--	--
25	6/19-6/21	0	--	--	--	--	23	131.0	60	192	29.7	0	--	--	--	--
26	6/27-6/28	0	--	--	--	--	11	135.7	102	172	22.8	0	--	--	--	--
27	7/3-7/3	0	--	--	--	--	6	132.3	70	172	34.8	0	--	--	--	--

Appendix DD. Klamath River weekly Chinook Salmon and Coho Salmon fork length information, 2013.**Appendix DD1. Klamath River at Bogus (frame net) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2013.**

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
10	3/6-3/8	60	36.7	34	39	1.3	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
11	3/12-3/15	90	37.4	34	42	1.5	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/19-3/22	90	37.3	35	42	1.2	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	9	130.9	95	212	40.9
13	3/26-3/29	90	37.3	32	42	1.7	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
14	4/2-4/5	60	37.0	32	43	1.7	0	--	--	--	--	37	34.2	31	36	1.3	0	--	--	--	--	0	--	--	--	--
15	4/9-4/12	90	37.4	34	47	2.2	0	--	--	--	--	76	34.6	31	39	1.6	0	--	--	--	--	0	--	--	--	--
16	4/16-4/19	90	38.4	33	48	2.7	0	--	--	--	--	65	35.0	31	38	1.6	0	--	--	--	--	0	--	--	--	--
17	4/23-4/26	90	41.0	35	54	4.6	0	--	--	--	--	25	34.2	32	44	2.5	0	--	--	--	--	0	--	--	--	--
18	4/30-5/3	90	40.1	35	68	5.6	0	--	--	--	--	10	36.1	34	43	2.6	0	--	--	--	--	0	--	--	--	--
19	5/7-5/10	90	41.9	35	69	5.5	0	--	--	--	--	5	38.2	34	49	6.1	0	--	--	--	--	1	137.0	137	137	0.0
20	5/14-5/17	71	42.9	37	72	7.0	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
21	5/21-5/21	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix DD2. Klamath River at I-5 (frame net) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2013.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
10	3/8-3/8	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
16	4/17-4/19	60	42.8	35	57	5.2	0	--	--	--	--	4	34.3	33	37	1.9	0	--	--	--	--	0	--	--	--	--
17	4/23-4/26	40	44.0	34	57	5.8	0	--	--	--	--	2	32.5	32	33	0.7	0	--	--	--	--	1	164.0	164	164	0.0
18	4/30-5/3	20	45.5	37	65	7.7	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
19	5/7-5/10	5	39.8	37	46	3.8	0	--	--	--	--	1	41.0	41	41	0.0	0	--	--	--	--	0	--	--	--	--
20	5/14-5/17	9	54.1	42	77	11.9	0	--	--	--	--	1	51.0	51	51	0.0	0	--	--	--	--	0	--	--	--	--

Appendix DD3. Klamath River at I-5 (RST) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2013.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
10	3/7-3/8	30	37.8	35	40	1.2	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
11	3/12-3/15	90	37.6	32	41	1.4	1	106.0	106	106	0.0	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/19-3/22	90	37.9	35	42	1.4	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	26	175.9	106	220	32.7
13	3/26-3/29	76	38.1	34	44	1.7	0	--	--	--	--	0	--	--	--	--	2	94.5	89	100	7.8	0	--	--	--	--
14	4/2-4/5	90	39.3	35	51	4.0	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	1	210.0	210	210	0.0
15	4/9-4/12	90	43.0	33	55	5.1	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
16	4/16-4/19	90	45.2	36	64	6.6	0	--	--	--	--	2	33.5	32	35	2.1	0	--	--	--	--	0	--	--	--	--
17	4/23-4/26	90	47.6	35	65	7.1	0	--	--	--	--	2	33.5	32	35	2.1	0	--	--	--	--	1	135.0	135	135	0.0
18	4/30-5/3	90	47.8	36	71	8.1	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	1	183.0	183	183	0.0
19	5/7-5/10	90	50.2	37	77	9.1	0	--	--	--	--	4	45.3	35	54	8.5	1	143.0	143	143	0.0	0	--	--	--	--
20	5/14-5/17	90	57.6	37	91	12.2	0	--	--	--	--	3	50.7	42	56	7.6	0	--	--	--	--	0	--	--	--	--
21	5/21-5/22	55	69.4	43	97	14.8	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--

Appendix DD4. Klamath River at Kinsman (RST) weekly Chinook Salmon and Coho Salmon fork lengths (mm), 2013.

Calendar week	Sample dates	Unmarked Chinook Salmon										Unmarked Coho Salmon										Hatchery-marked Coho Salmon				
		Age-0					Age-1+					Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
10	3/8-3/8	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
11	3/12-3/15	70	39.6	34	52	4.5	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
12	3/19-3/22	90	42.3	34	56	5.1	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	8	175.6	115	210	30.4
13	3/26-3/29	90	46.3	38	62	5.6	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	1	210.0	210	210	0.0
14	4/2-4/5	90	45.5	32	66	6.4	0	--	--	--	--	0	--	--	--	--	2	90.0	83	97	9.9	1	225.0	225	225	0.0
15	4/9-4/12	90	48.4	35	70	6.8	0	--	--	--	--	7	35.6	34	37	1.0	0	--	--	--	--	1	205.0	205	205	0.0
16	4/16-4/19	90	52.6	35	73	7.1	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--	1	225.0	225	225	0.0
17	4/23-4/26	90	50.7	36	71	5.9	0	--	--	--	--	5	38.8	37	42	2.2	0	--	--	--	--	0	--	--	--	--
18	4/30-5/3	89	55.0	38	82	7.6	1	119.0	119	119	0.0	6	41.3	34	48	6.0	1	127.0	127	127	0.0	0	--	--	--	--
19	5/7-5/10	90	56.6	35	97	10.2	0	--	--	--	--	9	47.0	37	57	7.3	0	--	--	--	--	1	225.0	225	225	0.0
20	5/14-5/17	90	62.8	36	90	10.4	0	--	--	--	--	23	53.8	43	60	4.7	0	--	--	--	--	0	--	--	--	--
21	5/21-5/24	52	73.4	39	110	13.7	0	--	--	--	--	9	53.0	44	58	5.0	0	--	--	--	--	0	--	--	--	--
22	5/29-5/31	46	72.9	40	101	13.9	0	--	--	--	--	5	57.4	53	64	4.3	0	--	--	--	--	0	--	--	--	--

Appendix EE. Klamath River weekly Steelhead fork length information, 2013.

Appendix EE1. Klamath River at Bogus (frame net) weekly Steelhead fork lengths (mm), 2013.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
10	3/6-3/8	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
11	3/12-3/15	0	--	--	--	--	2	78.0	77	79	1.4	0	--	--	--	--
12	3/19-3/22	0	--	--	--	--	2	76.5	70	83	9.2	0	--	--	--	--
13	3/26-3/29	0	--	--	--	--	1	131.0	131	131	0.0	0	--	--	--	--
14	4/2-4/5	1	25.0	25	25	0.0	3	70.7	45	97	26.0	0	--	--	--	--
15	4/9-4/12	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
16	4/16-4/19	1	26.0	26	26	0.0	1	126.0	126	126	0.0	0	--	--	--	--
17	4/23-4/26	5	27.2	26	28	0.8	0	--	--	--	--	0	--	--	--	--
18	4/30-5/3	45	27.0	25	29	0.7	0	--	--	--	--	0	--	--	--	--
19	5/7-5/10	90	25.7	24	27	0.8	0	--	--	--	--	0	--	--	--	--
20	5/14-5/17	17	25.9	24	28	1.1	1	132.0	132	132	0.0	0	--	--	--	--
21	5/21-5/21	4	26.5	26	27	0.6	0	--	--	--	--	0	--	--	--	--

Appendix EE2. Klamath River at I-5 (frame net) weekly Steelhead fork lengths (mm), 2013.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
10	3/8-3/8	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
16	4/17-4/19	1	27.0	27	27	0.0	0	--	--	--	--	0	--	--	--	--
17	4/23-4/26	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
18	4/30-5/3	11	27.5	25	34	3.1	0	--	--	--	--	0	--	--	--	--
19	5/7-5/10	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
20	5/14-5/17	2	26.5	26	27	0.7	0	--	--	--	--	0	--	--	--	--

Appendix EE3. Klamath River at I-5 (RST) weekly Steelhead fork lengths (mm), 2013.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
10	3/7-3/8	0	--	--	--	--	2	175.0	138	212	52.3	0	--	--	--	--
11	3/12-3/15	0	--	--	--	--	7	76.7	54	124	22.4	0	--	--	--	--
12	3/19-3/22	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
13	3/26-3/29	0	--	--	--	--	3	109.3	83	132	24.7	0	--	--	--	--
14	4/2-4/5	0	--	--	--	--	5	88.2	60	151	37.4	0	--	--	--	--
15	4/9-4/12	0	--	--	--	--	3	105.3	63	152	44.7	0	--	--	--	--
16	4/16-4/19	2	26.5	26	27	0.7	3	80.7	71	91	10.0	0	--	--	--	--
17	4/23-4/26	0	--	--	--	--	2	186.0	170	202	22.6	0	--	--	--	--
18	4/30-5/3	3	25.3	25	26	0.6	3	175.3	136	208	36.5	0	--	--	--	--
19	5/7-5/10	5	25.4	24	27	1.1	2	161.0	130	192	43.8	0	--	--	--	--
20	5/14-5/17	2	24.5	24	25	0.7	4	170.3	152	179	12.3	0	--	--	--	--
21	5/21-5/22	0	--	--	--	--	5	182.8	160	199	20.8	0	--	--	--	--

Appendix EE4. Klamath River at Kinsman (RST) weekly Steelhead fork lengths (mm), 2013.

Calendar week	Sample dates	Unmarked Steelhead										Hatchery-marked Steelhead				
		Age-0					Age-1+					Age-1+				
		n	Mean	Min	Max	SD	n	Mean	Min	Max	SD	n	Mean	Min	Max	SD
10	3/8-3/8	0	--	--	--	--	0	--	--	--	--	0	--	--	--	--
11	3/12-3/15	0	--	--	--	--	9	121.6	48	267	75.9	0	--	--	--	--
12	3/19-3/22	0	--	--	--	--	5	85.2	55	125	30.1	0	--	--	--	--
13	3/26-3/29	0	--	--	--	--	5	136.4	68	167	39.5	0	--	--	--	--
14	4/2-4/5	0	--	--	--	--	4	85.3	71	98	11.1	0	--	--	--	--
15	4/9-4/12	0	--	--	--	--	4	143.5	85	228	68.8	0	--	--	--	--
16	4/16-4/19	0	--	--	--	--	3	198.0	174	220	23.1	0	--	--	--	--
17	4/23-4/26	0	--	--	--	--	5	141.2	113	174	28.7	0	--	--	--	--
18	4/30-5/3	0	--	--	--	--	6	156.0	115	190	28.1	0	--	--	--	--
19	5/7-5/10	7	28.4	24	33	3.4	10	128.8	65	175	30.4	0	--	--	--	--
20	5/14-5/17	0	--	--	--	--	21	135.0	110	170	17.6	0	--	--	--	--
21	5/21-5/24	1	40.0	40	40	0.0	8	145.8	112	183	27.3	0	--	--	--	--
22	5/29-5/31	5	26.2	26	27	0.5	13	130.4	102	175	23.3	0	--	--	--	--