



Klamath River Outmigrant Monitoring Update — May 23, 2022

Synopsis: The outmigration of juvenile salmonids is monitored annually on the mainstem Klamath River by the USFWS Arcata Fish and Wildlife Office (AFWO), the Karuk Tribe of California, and the Yurok Tribe of California. The objectives of this collaborative project are to:

1. Estimate the weekly abundance of juvenile Chinook Salmon and collect pertinent biological data such as fork length and presence of clinical signs of disease at four selected locations on the mainstem Klamath River.
2. Examine subsamples of Chinook Salmon, Coho Salmon, and steelhead for external disease indicators and collect, preserve, and deliver weekly-stratified, random samples of young-of-the-year (YOY) Chinook Salmon to the Service's California–Nevada Fish Health Center (CA–NV FHC) for conducting qPCR assays to estimate *Ceratonova shasta* infection rate in the outmigrant population.
3. Collect relative abundance and biological data on Coho Salmon and steelhead at the four locations on the mainstem Klamath River.

Information generated by this study are used for a variety of purposes, including stock-recruitment analyses, to inform flow management decisions, to further refine a fish disease model, and to validate and calibrate the S3 (Stream Salmonid Simulator) Chinook Salmon production model, among others.

Monitoring is conducted at four sites on the mainstem Klamath River between Iron Gate Dam (IGD; rkm 309.65) and the Trinity River confluence (rkm 64.3). The upstream-most site (rkm 307.75), referred to as the 'Bogus Trap Site' is located on the right bank downstream of the Bogus Creek confluence on Blue Heron RV Park property. The second location is the 'I-5 Trap Site' (rkm 293.55), which is positioned on the left bank downstream of the Carson Creek confluence and upstream of the I-5 bridge river crossing. The 'Kinsman Trap Site' (rkm 237.55) is positioned in a side channel on the left bank just upstream of the Kinsman Creek confluence. The 'Weitchpec Trap Site' (rkm 65) is the farthest downstream and is 0.7 km upstream of the Trinity River confluence behind the Yurok Tribal office in Weitchpec, California.

Trapping at the Bogus Trap Site is conducted using a single 3.1-m wide and 1.6-m tall frame net. Sampling at the I-5 Trap Site is conducted using two in-line 8-ft diameter rotary screw traps (RST) and one 3.1-m by 1.6-m frame net. One 5-ft diameter RST is used to capture fish at the Kinsman Trap Site. The Weitchpec trap site uses one 8-ft diameter RST on the south bank and one to two 3.1-m by 1.6-m frame nets on the north bank. Traps are typically operated four nights per week (Monday through Thursday) and checked once daily while in operation. Trapping began the week of February 28 [Calendar Week (CW) 10] at all sites in 2022.

This project update provides an in-season summary of the total catch (Table 1) and mean catch- per-day by week (Table 2) of Chinook Salmon, Coho Salmon, and steelhead at each trap site. In addition, we provide weekly estimates of mean fork length of YOY Chinook and Coho salmon from each of the four trap sites (Table 3). Expansions to generate weekly-stratified abundance estimates are calculated after the end of the sampling season and are not presented

here. Trap efficiency, a measure of the proportion of fish moving past a trap site that are caught, varies weekly. *Therefore, raw catch numbers are not representative of actual abundance and we advise against using weekly raw catch numbers to make inferences on temporal abundance.*

Included in this project update is a weekly-stratified summary of clinical signs of disease observed in the catch for the trap and seine sites (Table 4). Note that these data are based on the visual presence of external symptoms of disease, which may not always be revealed by infected fish. The percentage of live YOY Chinook Salmon in the trap and seine catches that exhibit distended bellies, gill fungus, and pale gills are presented separately for each site on a weekly basis (Table 4). Distended bellies may be a clinical sign of infection by the myxosporean parasites, *Ceratonova shasta* and *Parvicapsula minibicornis*. Gills of juvenile salmonids ≥ 45 mm FL are evaluated for color (red, pale/pink, white, or tan) and condition (normal, eroded, or fungal). Pale gills may be due to anemia associated with *P. minibicornis* infection. Gill fungus is likely *Saprolegnia* growing upon a columnaris (*Flavobacterium columnare*) infection.

To determine infection rates more accurately for the outmigrant juvenile Chinook Salmon population passing the Kinsman Trap Site, I-5 Trap Site, and Weitchpec Trap Site, weekly-stratified random samples are collected, preserved, and delivered to the CA–NV FHC to process using qPCR assays. This season's fish health sampling will begin the week of March 20. The CA–NV FHC investigates infection rates of *C. shasta* and other pathogens in juvenile salmonids in the Klamath River annually. The CA–NV FHC releases regular updates (which are available on the [USFWS online library](#)) and a final report for each season.

We also present daily mean discharge below IGD (Figure 1), at the Kinsman Trap Site (Figure 2), and at the Weitchpec Trap Site (Figure 3) from late February to July to help portray pertinent flow conditions. Discharge at the Bogus and I-5 trap sites are represented by USGS Gauging Station 11516530 (Klamath River below IGD, California). Discharge at USGS 11520500 (Klamath River near Seiad Valley, California) minus discharge at USGS 11519500 (Scott River near Fort Jones, California) is used as a surrogate flow for the Kinsman Trap Site. Discharge at USGS 10523000 (Klamath River at Orleans, California) is used to represent flow at the Weitchpec Trap Site.

If you have any questions regarding this summary, please contact Tyler Wallin (tyler_wallin@fws.gov) or Bill Pinnix (bill_pinnix@fws.gov).

Table 1. In-season summary of the total catch by week of adipose fin-clipped (AD Clip) and non-adipose fin-clipped (No Clip) Chinook Salmon and steelhead and left maxillary-clipped (LM Clip) and non-maxillary clipped (No Clip) Coho Salmon by trap at the Bogus, I-5, and Kinsman trap sites on the mainstem Klamath River, 2022. Note that RST = rotary screw trap, UPS = upstream, DNS = downstream, and YOY = young-of-the-year.

USFWS 2022 Mainstem Klamath River Outmigrant Trap Juvenile Salmonid Catch Summary

U.S. Fish & Wildlife Service, Arcata Fish & Wildlife Office, 1655 Heindon Road, Arcata, CA 95521, (707)822-7201

Preliminary Data - Subject to Revision

Preliminary Data - Subject to Revision																	
Trap	Calendar week	Sample dates	Q (cfs) ^a		Water temp. (°F) ^b		Trapping days	Chinook (<i>O. tshawytscha</i>)			Coho (<i>O. kisutch</i>)			Steelhead (<i>O. mykiss</i>)			
			Min	Max	Min	Max		YOY			YOY	Age 1 +		YOY	Age 1 +		
								No clip	AD clip	Age 1+		No clip	LM clip		No clip	AD clip	
Bogus Frame Net	10	3/2-3/4	990	1,020	43.8	44.2	3	74	0	0	0	0	0	0	0	0	0
	11	3/8-3/11	985	996	44.6	45.3	4	120	0	0	0	0	0	0	0	0	0
	12 ^c	3/14-3/18	982	992	-	-	0	-	-	-	-	-	-	-	-	-	-
	13	3/22-3/25	983	995	48.7	51	4	108	0	0	2	0	0	0	0	0	0
	14	3/29-4/1	987	1,190	50.1	50.9	4	483	0	0	44	0	0	0	0	0	0
	15	4/5-4/8	1,290	1,350	50.7	51.6	4	944	0	0	236	0	0	27	0	0	0
	16	4/12-4/15	1,340	1,990	50.9	50.9	1	61	0	0	49	0	0	6	1	0	0
	17 ^c	4/19-4/22	1,650	3,090	-	-	0	-	-	-	-	-	-	-	-	-	-
	18	4/26-4/28	1,310	1,340	53.7	53.9	3	572	0	0	1712	0	0	213	0	0	0
	19	5/3-5/6	1,180	1,180	52.1	53.8	4	347	0	0	445	0	0	549	0	0	0
	20	5/10-5/13	1,180	1,180	51.9	53.7	4	102	0	0	5	0	0	270	0	0	0
	21	5/17-5/20	1,170	1,180	56.1	60	4	65	0	0	21	0	0	370	1	0	0
I-5 UPS RST	10	3/1-3/4	964	1,020	41.9	43.8	4	226	0	12	0	0	0	0	1	0	0
	11	3/8-3/11	985	996	42.6	44	4	452	0	1	0	0	0	0	0	0	0
	12	3/15-3/18	982	990	43.8	44.9	4	291	0	0	0	1	378	0	0	0	0
	13	3/22-3/25	983	995	45.2	46.9	4	319	0	5	6	0	2	0	4	0	0
	14	3/29-4/1	987	1,190	48.1	49.6	4	416	0	0	19	0	1	0	0	0	0
	15	4/5-4/8	1,290	1,350	48.7	50.3	4	212	0	0	12	0	0	1	2	0	0
	16	4/12-4/15	1,340	1,990	47.4	49.1	4	831	0	1	8	0	1	5	0	0	0
	17	4/19-4/22	1,650	3,090	48.9	49.4	4	1857	0	0	113	1	2	59	1	0	0
	18	4/26-4/29	1,250	1,340	52.3	52.8	4	2336	0	0	79	3	1	280	1	0	0
	19	5/3-5/6	1,180	1,180	51.2	52.7	4	572	0	0	23	2	4	465	2	0	0
	20	5/10-5/13	1,180	1,180	51.4	52.1	4	95	0	0	5	1	2	199	1	0	0
	21	5/17-5/20	1,170	1,180	54.3	55.5	4	154	1	0	18	0	3	398	1	0	0
I-5 DNS RST	10	3/1-3/4	985	1,020	41.9	43.8	3	104	0	8	0	0	0	0	3	0	0
	11	3/8-3/11	964	996	42.6	44	4	207	0	1	0	1	0	0	0	0	0
	12	3/15-3/18	982	990	43.8	44.9	3	134	0	0	0	0	123	0	0	0	0
	13	3/22-3/25	983	995	45.2	46.9	4	220	0	0	2	0	9	0	3	0	0
	14	3/29-4/1	987	1,190	48.1	49.6	4	290	0	0	15	0	2	0	1	0	0
	15	4/5-4/8	1,290	1,350	48.7	50.3	4	206	0	0	7	0	0	2	1	0	0
	16	4/12-4/15	1,340	1,990	47.4	48.9	4	380	0	0	7	0	1	2	0	0	0
	17	4/19-4/22	1,650	3,090	48.9	49.4	4	752	0	0	42	0	0	25	0	0	0
	18	4/26-4/29	1,250	1,340	52.3	52.8	4	850	0	1	49	2	0	131	0	0	0
	19	5/3-5/6	1,180	1,180	51.2	52.7	4	273	0	0	11	1	0	236	0	0	0
	20	5/10-5/13	1,180	1,180	51.4	52.1	4	43	0	0	1	0	0	127	0	0	0
	21	5/17-5/20	1,170	1,180	54.3	55.5	4	78	0	0	6	1	0	187	1	0	0
I-5 Frame Net	10	3/2-3/4	990	1,020	42.2	43.8	3	23	0	0	0	0	0	0	0	0	0
	11	3/8-3/11	985	996	42.6	44	4	103	0	0	0	2	0	0	0	0	0
	12	3/15-3/18	982	990	43.8	44.9	4	32	0	0	0	0	7	0	0	0	0
	13	3/22-3/25	983	995	45.2	46.9	4	50	0	0	1	0	2	1	0	0	0
	14	3/29-4/1	987	1,190	48.1	49.6	4	78	0	0	11	0	0	0	0	0	0
	15	4/5-4/8	1,290	1,350	48.7	50.3	2	17	0	0	0	0	0	0	0	0	0
	16	4/12-4/15	1,340	1,990	48.9	48.9	1	16	0	0	1	0	0	0	0	0	0
	17 ^c	4/19-4/22	1,650	3,090	-	-	0	-	-	-	-	-	-	-	-	-	-
	18	4/26-4/29	1,250	1,340	52.3	52.8	4	1133	0	0	378	0	0	228	0	0	0
	19	5/3-5/6	1,180	1,180	51.2	52.7	4	248	0	0	81	0	0	260	0	0	0
	20	5/10-5/13	1,180	1,180	51.4	52.1	4	22	0	0	3	0	0	130	0	0	0
	21	5/17-5/20	1,170	1,180	54.3	55.5	4	15	0	0	3	0	0	200	0	0	0

^a mean discharge from day of sampling (discharge below IGD used for Bogus and I-5 sites; flow at Kinsman Site is Klamath River flow at Seid minus Scott River flow; discharge at Weitchpec Site is discharge near Orleans)

^b temperature recorded at time of trap check

^c trap not set this week because trapping operations were limited due to a flow event and/or hatchery release

Table 1 cont. In-season summary of the total catch by week of adipose fin-clipped (AD Clip) and non-adipose fin clipped (No Clip) Chinook Salmon and steelhead and left maxillary-clipped (LM Clip) and non-maxillary clipped (No Clip) Coho Salmon by trap at the Bogus, I 5, and Kinsman trap sites on the mainstem Klamath River, 2022. Note that RST = rotary screw trap, UPS = upstream, DNS = downstream, and YOY = young-of-the-year.

USFWS 2022 Mainstem Klamath River Outmigrant Trap Juvenile Salmonid Catch Summary (continued)

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Trap	Calendar week	Sample dates	Q (cfs) ^a		Water temp. (F) ^b		Trapping days	Chinook (<i>O. tshawytscha</i>)			Coho (<i>O. kisutch</i>)			Steelhead (<i>O. mykiss</i>)		
			Min	Max	Min	Max		YOY			Age 1 +			YOY	Age 1 +	
								No clip	AD clip	Age 1+	YOY	No clip	LM clip		No clip	AD clip
Kinsman RST	10	3/1-3/4	1,338	1,432	45.0	47.2	4	162	0	1	3	8	0	5	3	0
	11	3/8-3/11	1,330	1,349	43.3	46.5	4	144	0	0	2	5	0	1	0	0
	12	3/15-3/18	1,416	1,438	44.7	47.8	4	109	0	0	1	5	6	0	5	0
	13	3/22-3/25	1,416	1,503	47.1	52.8	4	191	0	0	5	2	45	4	7	0
	14	3/29-4/1	1,449	1,498	49.1	51.4	4	349	0	0	37	4	2	0	11	0
	15	4/5-4/8	1,733	1,791	49.2	55.5	4	325	0	0	4	7	2	2	3	0
	16	4/12-4/15	1,750	1,804	47.4	49.8	4	179	0	2	2	2	1	2	2	0
	17 ^c	4/19-4/22	2,654	4,004	-	-	0	-	-	-	-	-	-	-	-	-
	18	4/26-4/29	1,913	2,015	52.1	58.4	4	148	0	2	4	1	5	4	8	0
	19	5/3-5/6	1,782	2,030	56.9	60.1	4	123	0	1	46	6	4	27	14	0
	20	5/10-5/13	1,838	1,955	50.1	55.2	4	77	0	1	14	3	5	20	7	0
21	5/17-5/20	1,875	1,930	57.7	60.9	4	51	0	2	44	2	1	9	2	0	
Weitchpec RST	10	3/1-3/4	4,194	4,597	-	-	4	265	0	2	0	1	0	0	5	0
	11	3/8-3/11	3,461	3,687	46.2	46.6	4	203	0	2	0	1	0	0	2	0
	12	3/15-3/18	4,470	5,610	48.2	48.4	1	18	0	0	0	0	0	0	6	0
	13	3/22-3/24	4,110	5,290	48.9	50.5	3	138	0	0	0	1	16	0	15	0
	14	3/29-4/1	4,480	5,190	50.2	52.0	4	84	0	0	0	1	0	0	20	0
	15	4/5-4/8	4,730	6,000	48.2	51.6	4	82	0	0	0	0	2	2	39	0
	16	4/12-4/15	4,560	5,280	49.5	49.6	2	67	0	0	0	1	0	0	11	0
	17 ^c	4/19-4/22	8,750	11,600	-	-	0	-	-	-	-	-	-	-	-	-
	18	4/26-4/29	7,380	8,720	50.0	51.8	4	27	0	0	4	1	0	0	3	0
	19	5/3-5/6	7,260	11,400	49.8	50.5	3	17	0	0	1	2	3	2	12	0
	20	5/10-5/13	4,620	8,280	49.1	49.6	3	24	0	0	0	2	0	0	5	0
21	5/17-5/20	7,160	8,060	52.7	54.5	4	48	0	7	0	8	6	8	11	0	
Weitchpec US Frame	11	3/8-3/11	3,461	3,687	46.2	46.6	4	94	0	0	0	0	0	0	0	0
	12	3/15-3/18	4,470	5,610	-	-	0	-	-	-	-	-	-	-	-	-
	13	3/22-3/24	4,110	5,290	48.9	50.5	3	107	0	0	0	0	0	0	0	0
	14	3/30-4/1	4,480	5,130	50.2	50.5	3	50	0	0	0	0	0	0	0	0
	15	4/7-4/8	4,730	4,940	50.5	51.6	2	30	0	0	0	0	0	0	0	0
	16	4/12-4/15	4,560	5,280	49.5	49.6	2	41	0	0	0	0	0	0	0	0
	17 ^c	4/19-4/22	8,750	11,600	-	-	0	-	-	-	-	-	-	-	-	-
	18 ^c	4/26-4/29	7,380	8,720	-	-	0	-	-	-	-	-	-	-	-	-
	19 ^c	5/3-5/6	7,260	11,400	-	-	0	-	-	-	-	-	-	-	-	-
	20 ^c	5/10-5/13	4,620	8,280	-	-	0	-	-	-	-	-	-	-	-	-
	21	5/17-5/20	7,160	8,060	-	-	0	-	-	-	-	-	-	-	-	-

^a mean discharge from day of sampling (discharge below IGD used for Bogus and I-5 sites; flow at Kinsman Site is Klamath River flow at Seiad minus Scott River flow; discharge at Weitchpec Site is discharge near Orleans)

^b temperature recorded at time of trap check

^c trap not set this week because trapping operations were limited due to a flow event and/or hatchery release

Table 2. In-season summary of the average catch-per-day by week of non-adipose fin-clipped (No Clip) and adipose fin-clipped (AD Clip) Chinook Salmon and steelhead and non-maxillary clipped (No Clip) and left maxillary-clipped (LM Clip) Coho Salmon by trap at the Bogus, I-5, and Kinsman trap sites on the mainstem Klamath River, 2022. Note that RST = rotary screw trap, UPS = upstream, DNS = downstream, and YOY = young-of-the-year.

USFWS 2022 Mainstem Klamath River Outmigrant Trap Juvenile Salmonid Catch-per-Day Summary

U.S. Fish & Wildlife Service, Arcata Fish & Wildlife Office, 1655 Heindon Road, Arcata, CA 95521, (707)822-7201

Preliminary Data - Subject to Revision

Trap	Calendar week	Sample dates	Q (cfs) ^a		Water temp. (°F) ^b		Trapping days	Chinook (<i>O. tshawytscha</i>)			Coho (<i>O. kisutch</i>)			Steelhead (<i>O. mykiss</i>)			
			Min	Max	Min	Max		YOY			YOY	Age 1 +		YOY	Age 1 +		
								No clip	AD clip	Age 1+		No clip	LM clip		No clip	AD clip	
Bogus Frame Net	10	3/2-3/4	990	1,020	43.8	44.2	3	24.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	11	3/8-3/11	985	996	44.6	45.3	4	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12 ^c	3/14-3/18	982	992	-	-	0	-	-	-	-	-	-	-	-	-	-
	13	3/22-3/25	983	995	48.7	51.0	4	27.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00
	14	3/29-4/1	987	1,190	50.1	50.9	4	120.75	0.00	0.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00
	15	4/5-4/8	1,290	1,350	50.7	51.6	4	236.00	0.00	0.00	59.00	0.00	0.00	6.75	0.00	0.00	0.00
	16	4/12-4/15	1,340	1,990	50.9	50.9	1	61.00	0.00	0.00	49.00	0.00	0.00	6.00	1.00	0.00	0.00
	17 ^c	4/19-4/22	1,650	3,090	-	-	0	-	-	-	-	-	-	-	-	-	-
	18	4/26-4/28	1,310	1,340	53.7	53.9	3	190.67	0.00	0.00	570.67	0.00	0.00	71.00	0.00	0.00	0.00
	19	5/3-5/6	1,180	1,180	52.1	53.8	4	86.75	0.00	0.00	111.25	0.00	0.00	137.25	0.00	0.00	0.00
	20	5/10-5/13	1,180	1,180	51.9	53.7	4	25.50	0.00	0.00	1.25	0.00	0.00	67.50	0.00	0.00	0.00
	21	5/17-5/20	1,170	1,180	56.1	60.0	4	16.25	0.00	0.00	5.25	0.00	0.00	92.50	0.25	0.00	0.00
I-5 UPS RST	10	3/1-3/4	964	1,020	41.9	43.8	4	56.50	0.00	3.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00
	11	3/8-3/11	985	996	42.6	44.0	4	113.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12	3/15-3/18	982	990	43.8	44.9	4	72.75	0.00	0.00	0.00	0.25	94.50	0.00	0.00	0.00	0.00
	13	3/22-3/25	983	995	45.2	46.9	4	79.75	0.00	1.25	1.50	0.00	0.50	0.00	1.00	0.00	0.00
	14	3/29-4/1	987	1,190	48.1	49.6	4	104.00	0.00	0.00	4.75	0.00	0.25	0.00	0.00	0.00	0.00
	15	4/5-4/8	1,290	1,350	48.7	50.3	4	53.00	0.00	0.00	3.00	0.00	0.00	0.25	0.50	0.00	0.00
	16	4/12-4/15	1,340	1,990	47.4	49.1	4	207.75	0.00	0.25	2.00	0.00	0.25	1.25	0.00	0.00	0.00
	17	4/19-4/22	1,650	3,090	48.9	49.4	4	464.25	0.00	0.00	28.25	0.25	0.50	14.75	0.25	0.00	0.00
	18	4/26-4/29	1,250	1,340	52.3	52.8	4	584.00	0.00	0.00	19.75	0.75	0.25	70.00	0.25	0.00	0.00
	19	5/3-5/6	1,180	1,180	51.2	52.7	4	143.00	0.00	0.00	5.75	0.50	1.00	116.25	0.50	0.00	0.00
	20	5/10-5/13	1,180	1,180	51.4	52.1	4	23.75	0.00	0.00	1.25	0.25	0.50	49.75	0.25	0.00	0.00
	21	5/17-5/20	1,170	1,180	54.3	55.5	4	38.50	0.25	0.00	4.50	0.00	0.75	99.50	0.25	0.00	0.00
I-5 DNS RST	10	3/1-3/4	964	1,020	41.9	43.8	3	34.67	0.00	2.67	0.00	0.00	0.00	0.00	1.00	0.00	0.00
	11	3/8-3/11	985	996	42.6	44.0	4	51.75	0.00	0.25	0.00	0.25	0.00	0.00	0.00	0.00	0.00
	12	3/15-3/18	982	990	43.8	44.9	3	44.67	0.00	0.00	0.00	0.00	41.00	0.00	0.00	0.00	0.00
	13	3/22-3/25	983	995	45.2	46.9	4	55.00	0.00	0.00	0.50	0.00	2.25	0.00	0.75	0.00	0.00
	14	3/29-4/1	987	1,190	48.1	49.6	4	72.50	0.00	0.00	3.75	0.00	0.50	0.00	0.25	0.00	0.00
	15	4/5-4/8	1,290	1,350	48.7	50.3	4	51.50	0.00	0.00	1.75	0.00	0.00	0.50	0.25	0.00	0.00
	16	4/12-4/15	1,340	1,990	47.4	48.9	4	95.00	0.00	0.00	1.75	0.00	0.25	0.50	0.00	0.00	0.00
	17	4/19-4/22	1,650	3,090	48.9	49.4	4	188.00	0.00	0.00	10.50	0.00	0.00	6.25	0.00	0.00	0.00
	18	4/26-4/29	1,250	1,340	52.3	52.8	4	212.50	0.00	0.25	12.25	0.50	0.00	32.75	0.00	0.00	0.00
	19	5/3-5/6	1,180	1,180	51.2	52.7	4	68.25	0.00	0.00	2.75	0.25	0.00	59.00	0.00	0.00	0.00
	20	5/10-5/13	1,180	1,180	51.4	52.1	4	10.75	0.00	0.00	0.25	0.00	0.00	31.75	0.00	0.00	0.00
	21	5/17-5/20	1,170	1,180	54.3	55.5	4	19.50	0.00	0.00	1.50	0.25	0.00	46.75	0.25	0.00	0.00
I-5 Frame Net	10	3/2-3/4	990	1,020	42.2	43.8	3	7.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	11	3/8-3/11	985	996	42.6	44.0	4	25.75	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00
	12	3/15-3/18	982	990	43.8	44.9	4	8.00	0.00	0.00	0.00	0.00	1.75	0.00	0.00	0.00	0.00
	13	3/22-3/25	983	995	45.2	46.9	4	12.50	0.00	0.00	0.25	0.00	0.50	0.25	0.00	0.00	0.00
	14	3/29-4/1	987	1,190	48.1	49.6	4	19.50	0.00	0.00	2.75	0.00	0.00	0.00	0.00	0.00	0.00
	15	4/5-4/8	1,290	1,350	48.7	50.3	2	8.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	16	4/12-4/15	1,340	1,990	48.9	48.9	1	16.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
	17 ^c	4/19-4/22	1,650	3,090	-	-	0	-	-	-	-	-	-	-	-	-	-
	18	4/26-4/29	1,250	1,340	52.3	52.8	4	283.25	0.00	0.00	94.50	0.00	0.00	57.00	0.00	0.00	0.00
	19	5/3-5/6	1,180	1,180	51.2	52.7	4	62.00	0.00	0.00	20.25	0.00	0.00	65.00	0.00	0.00	0.00
	20	5/10-5/13	1,180	1,180	51.4	52.1	4	5.50	0.00	0.00	0.75	0.00	0.00	32.50	0.00	0.00	0.00
	21	5/17-5/20	1,170	1,180	54.3	55.5	4	3.75	0.00	0.00	0.75	0.00	0.00	50.00	0.00	0.00	0.00

^a mean daily discharge range during sampling dates (discharge below IGD used for Bogus and I-5 sites; flow at Kinsman Site is Klamath River flow at Seiad minus Scott River flow; discharge at Weitchpec Site is discharge near Orleans)

^b temperature recorded at time of trap check

^c trap not set this week because trapping operations were limited due to a flow event and/or hatchery release

Table 2 cont. In-season summary of the average catch-per-day by week of non-adipose fin-clipped (No Clip) and adipose fin-clipped (AD Clip) Chinook Salmon and steelhead and non-maxillary clipped (No Clip) and left maxillary-clipped (LM Clip) Coho Salmon by trap at the Bogus, I-5, and Kinsman trap sites on the mainstem Klamath River, 2022. Note that RST = rotary screw trap, UPS = upstream, DNS = downstream, and YOY = young-of-the-year.

USFWS 2022 Mainstem Klamath River Outmigrant Trap Juvenile Salmonid Catch-per-Day Summary (continued)

U.S. Fish & Wildlife Service, Arcata Fish & Wildlife Office, 1655 Heindon Road, Arcata, CA 95521, (707)822-7201

Preliminary Data - Subject to Revision

Trap	Calendar week	Sample dates	Q (cfs) ^a		Water temp.(F) ^b		Trapping days	Chinook (<i>O. tshawytscha</i>)			Coho (<i>O. kisutch</i>)			Steelhead (<i>O. mykiss</i>)		
			Min	Max	Min	Max		YOY			YOY	Age 1 +		YOY	Age 1 +	
								No clip	AD clip	Age 1+		No clip	LM clip		No clip	AD clip
Kinsman RST	10	3/1-3/4	1,338	1,432	45.0	47.2	4	40.50	0.00	0.25	0.75	2.00	0.00	1.25	0.75	0.00
	11	3/8-3/11	1,410	1,349	43.3	46.5	4	36.00	0.00	0.00	0.50	1.25	0.00	0.25	0.00	0.00
	12	3/15-3/18	1,416	1,438	44.7	47.8	4	27.25	0.00	0.00	0.25	1.25	1.50	0.00	1.25	0.00
	13	3/22-3/25	1,416	1,503	47.1	52.8	4	47.75	0.00	0.00	1.25	0.50	11.25	1.00	1.75	0.00
	14	3/29-4/1	1,449	1,498	49.1	51.4	4	87.25	0.00	0.00	9.25	1.00	0.50	0.00	2.75	0.00
	15	4/5-4/8	1,733	1,791	49.2	55.5	4	81.25	0.00	0.00	1.00	1.75	0.50	0.50	0.75	0.00
	16	4/12-4/15	1,750	1,804	47.4	49.8	4	44.75	0.00	0.50	0.50	0.50	0.25	0.50	0.50	0.00
	17 ^c	4/19-4/22	2,654	4,004	-	-	0	-	-	-	-	-	-	-	-	-
	18	4/26-4/29	1,913	2,015	52.1	58.4	4	37.00	0.00	0.50	1.00	0.25	1.25	1.00	2.00	0.00
	19	5/3-5/6	1,782	2,030	56.9	60.1	4	30.75	0.00	0.25	11.50	1.50	1.00	6.75	3.50	0.00
	20	5/10-5/13	1,838	1,955	50.1	55.2	4	19.25	0.00	0.25	3.50	0.75	1.25	5.00	1.75	0.00
	21	5/17-5/20	1,875	1,930	57.7	60.9	4	12.75	0.00	0.50	11.00	0.50	0.25	2.25	0.50	0.00
Weitchpec RST	10	3/1-3/4	4,194	4,597	-	-	4	66.25	0.00	0.50	0.00	0.25	0.00	0.00	1.25	0.00
	11	3/8-3/11	3,461	3,687	46.2	46.6	4	50.75	0.00	0.50	0.00	0.25	0.00	0.00	0.50	0.00
	12	3/15-3/18	4,470	5,610	48.2	48.4	1	18.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	0.00
	13	3/22-3/24	4,110	5,290	48.9	50.5	3	46.00	0.00	0.00	0.00	0.33	5.33	0.00	5.00	0.00
	14	3/29-4/1	4,480	5,190	50.2	52.0	4	21.00	0.00	0.00	0.00	0.25	0.00	0.00	5.00	0.00
	15	4/5-4/8	4,730	6,000	48.2	51.6	4	20.50	0.00	0.00	0.00	0.00	0.50	0.50	9.75	0.00
	16	4/12-4/15	4,560	5,280	49.5	49.6	2	33.50	0.00	0.00	0.00	0.50	0.00	0.00	5.50	0.00
	17 ^c	4/19-4/22	8,750	11,600	-	-	0	-	-	-	-	-	-	-	-	-
	18	4/26-4/29	7,380	8,720	50.0	51.8	4	6.75	0.00	0.00	1.00	0.25	0.00	0.00	0.75	0.00
	19	5/3-5/6	7,260	11,400	49.8	50.5	3	5.67	0.00	0.00	0.33	0.67	1.00	0.67	4.00	0.00
	20	5/10-5/13	4,620	8,280	49.1	49.6	3	8.00	0.00	0.00	0.00	0.67	0.00	0.00	1.67	0.00
	21	5/17-5/20	7,160	8,060	52.7	54.5	4	12.00	0.00	1.75	0.00	2.00	1.50	2.00	2.75	0.00
Weitchpec US Frame	11	3/8-3/11	3,461	3,687	46.2	46.6	4	23.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12	3/15-3/18	4,470	5,610	-	-	0	-	-	-	-	-	-	-	-	-
	13	3/22-3/24	4,110	5,290	48.9	50.5	3	35.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	14	3/30-4/1	4,480	5,130	50.2	50.5	3	16.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	15	4/7-4/8	4,730	4,940	50.5	51.6	2	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	16	4/12-4/15	4,560	5,280	49.5	49.6	2	20.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	17 ^c	4/19-4/22	8,750	11,600	-	-	0	-	-	-	-	-	-	-	-	-
	18 ^c	4/26-4/29	7,380	8,720	-	-	0	-	-	-	-	-	-	-	-	-
	19 ^c	5/3-5/6	7,260	11,400	-	-	0	-	-	-	-	-	-	-	-	-
	20	5/10-5/13	4,620	8,280	-	-	0	-	-	-	-	-	-	-	-	-
	21	5/17-5/20	7,160	8,060	-	-	0	-	-	-	-	-	-	-	-	-

^a mean daily discharge range during sampling dates (discharge below IGD used for Bogus and I-5 sites; flow at Kinsman Site is Klamath River flow at Seiad minus Scott River flow; discharge at Weitchpec Site is discharge near Orleans)

^b temperature recorded at time of trap check

^c trap not set this week because trapping operations were limited due to a flow event and/or hatchery release

Table 3. In-season summary of fork lengths, compared with the last ten years of naturally produced Chinook and Coho salmon by trap type at the Bogus, I-5, and Kinsman sites on the mainstem Klamath River, 2022. RST = rotary screw trap and YOY = young-of-the-year.

USFWS 2022 Mainstem Klamath River YOY Chinook and Coho Salmon Size Summary

U.S. Fish & Wildlife Service, Arcata Fish & Wildlife Office, 1655 Heindon Road, Arcata, CA 95521, (707)822-7201

Preliminary data - Subject to revision

YOY Chinook (natural) - fork length data																	YOY Coho - fork length data																
Site	Calendar Week	Sampling Dates	2022				Previous 10 years			2022				Previous 10 years																			
			n	Mean (mm)	Min. (mm)	Max. (mm)	% > 55 mm	n	Years of data	Mean (mm)	n	Mean (mm)	Min. (mm)	Max. (mm)	% > 55 mm	n	Years of data	Mean (mm)															
Bogus Frame	10	Mar 01-03	40	37.8	35.0	40.0	0	564	9	36.7	0	- ^b	- ^b	- ^b	- ^b	0	1	-															
	11	Mar 08-10	51	38.6	35.0	42.0	0	673	9	36.8	0	- ^b	- ^b	- ^b	- ^b	0	0	-															
	12 ^a	Mar 15-17	0	- ^b	- ^b	- ^b	- ^b	705	9	36.7	0	- ^b	- ^b	- ^b	- ^b	20	3	34.4															
	13	Mar 22-24	70	38.0	32.0	50.0	0	693	8	37.2	0	- ^b	- ^b	- ^b	- ^b	141	3	33.4															
	14	Mar 29-31	89	37.2	32.0	46.0	0	663	9	37.9	44	33.8	30	37	0%	139	5	33.8															
	15	Apr 05-07	90	39.1	33.0	53.0	0	603	8	40.0	90	34.8	32	38	0%	289	8	35.0															
	16	Apr 12-14	30	40.4	34.0	50.0	0	785	10	39.3	30	35.5	32	38	0%	479	9	34.8															
	17 ^a	Apr 19-21	-	-	-	-	-	722	10	41.9	-	-	-	-	-	370	8	34.6															
	18	Apr 26-28	89	41.8	35.0	56.0	1%	702	10	45.4	90	35.6	32	41	0%	247	9	38.6															
	19	May 03-05	90	43.2	35.0	63.0	3%	519	10	46.7	90	35.4	32	46	0%	153	8	37.5															
I-5 RST's	20	May 10-12	82	51.3	35.0	72.0	34%	336	7	50.0	5	- ^b	- ^b	- ^b	- ^b	68	5	43.6															
	21	May 17-19	40	54.8	35.0	78.0	50%	156	6	51.1	18	- ^b	- ^b	- ^b	- ^b	23	4	47.1															
	10	Mar 01-03	92	38.7	33.0	42.0	0	604	9	37.6	0	- ^b	- ^b	- ^b	- ^b	0	1	-															
	11	Mar 08-10	89	38.9	34.0	43.0	0	609	10	37.6	0	- ^b	- ^b	- ^b	- ^b	1	1	35.0															
	12	Mar 15-17	90	38.7	35.0	48.0	0	657	9	36.9	0	- ^b	- ^b	- ^b	- ^b	0	0	-															
	13	Mar 22-24	89	37.9	1.0	49.0	0	558	8	37.7	5	- ^b	- ^b	- ^b	- ^b	10	3	34.3															
	14	Mar 29-31	90	38.9	32.0	54.0	0	707	10	39.1	27	- ^b	- ^b	- ^b	- ^b	11	4	33.7															
	15	Apr 05-07	90	43.3	30.0	56.0	3%	594	9	42.5	14	- ^b	- ^b	- ^b	- ^b	47	5	35.3															
	16	Apr 12-14	141	47.3	34.0	66.0	7%	720	10	45.1	9	- ^b	- ^b	- ^b	- ^b	102	6	34.0															
	17	Apr 19-21	90	48.9	35.0	71.0	13%	729	10	48.6	87	37.0	33	51	0%	80	7	36.1															
I-5 Frame	18	Apr 26-28	90	47.6	36.0	66.0	9%	813	10	52.6	86	36.2	32	47	0%	45	8	43.4															
	19	May 03-05	90	48.2	36.0	79.0	10%	732	10	56.1	30	37.9	32	53	0%	19	8	39.5															
	20	May 10-12	86	56.4	6.0	85.0	44%	752	10	62.5	4	- ^b	- ^b	- ^b	- ^b	31	7	52.6															
	21	May 17-19	89	55.4	39.0	83.0	38%	529	8	72.4	14	- ^b	- ^b	- ^b	- ^b	37	5	53.5															
	10	Mar 01-03	7	- ^b	- ^b	- ^b	- ^b	215	6	38.0	0	- ^b	- ^b	- ^b	- ^b	0	1	-															
	11	Mar 08-10	71	38.9	35.0	44.0	0	199	5	36.8	0	- ^b	- ^b	- ^b	- ^b	1	1	35.0															
	12	Mar 15-17	29	- ^b	- ^b	- ^b	- ^b	293	6	37.1	0	- ^b	- ^b	- ^b	- ^b	14	2	35.4															
	13	Mar 22-24	41	38.4	35.0	46.0	0	328	6	37.6	0	- ^b	- ^b	- ^b	- ^b	71	4	32.6															
	14	Mar 29-31	75	38.9	32.0	50.0	0	304	7	37.9	11	- ^b	- ^b	- ^b	- ^b	62	4	35.1															
	15	Apr 05-07	7	- ^b	- ^b	- ^b	- ^b	205	4	40.0	0	- ^b	- ^b	- ^b	- ^b	44	3	34.8															
Kinsman RST	16	Apr 12-14	14	- ^b	- ^b	- ^b	- ^b	356	7	42.4	1	- ^b	- ^b	- ^b	- ^b	60	7	35.1															
	17 ^a	Apr 19-21	-	-	-	-	-	325	7	45.4	-	-	-	-	-	44	6	36.9															
	18	Apr 26-28	88	45.6	32.0	61.0	3%	233	7	50.7	90	36.9	30	51	0%	20	3	40.2															
	19	May 03-05	88	45.7	36.0	60.0	2%	239	6	48.9	69	38.4	32	53	0%	18	5	43.2															
	20	May 10-12	18	- ^b	- ^b	- ^b	- ^b	163	5	54.6	3	- ^b	- ^b	- ^b	- ^b	11	4	45.4															
	21	May 17-19	12	- ^b	- ^b	- ^b	- ^b	66	4	64.6	2	- ^b	- ^b	- ^b	- ^b	0	1	-															
	10	Mar 01-03	84	39.0	4.0	51.0	0	420	7	37.5	0	- ^b	- ^b	- ^b	- ^b	2	1	33.0															
	11	Mar 08-10	85	39.9	35.0	50.0	0	518	8	38.8	2	- ^b	- ^b	- ^b	- ^b	12	1	33.4															
	12	Mar 15-17	67	41.0	34.0	59.0	1%	547	8	42.0	1	- ^b	- ^b	- ^b	- ^b	31	2	33.7															
	13	Mar 22-24	90	44.0	34.0	64.0	7%	566	8	42.6	2	- ^b	- ^b	- ^b	- ^b	109	4	34.2															
Weitchpec RST	14	Mar 29-31	90	47.3	34.0	61.0	7%	559	8	44.6	29	- ^b	- ^b	- ^b	- ^b	33	5	35.1															
	15	Apr 05-07	90	50.8	35.0	67.0	20%	664	9	48.4	3	- ^b	- ^b	- ^b	- ^b	43	6	34.2															
	16	Apr 12-14	90	56.1	44.0	82.0	44%	649	9	51.0	1	- ^b	- ^b	- ^b	- ^b	99	6	33.6															
	17 ^a	Apr 19-21	-	-	-	-	-	645	9	52.6	-	-	-	-	-	134	6	38.4															
	18	Apr 26-28	85	55.8	5.0	77.0	51%	616	9	55.9	4	- ^b	- ^b	- ^b	- ^b	36	3	39.7															
	19	May 03-05	74	57.2	38.0	79.0	58%	521	9	60.6	16	- ^b	- ^b	- ^b	- ^b	34	6	48.5															
	20	May 10-12	60	62.0	0	99.0	72%	554	9	64.1	11	- ^b	- ^b	- ^b	- ^b	64	7	52.8															
	21	May 17-19	38	64.8	41.0	98.0	82%	533	9	69.3	21	- ^b	- ^b	- ^b	- ^b	83	8	53.0															
	10	Mar 01-04	120	38.3	4.0	45.0	0	NA	NA	NA	0	- ^b	- ^b	- ^b	- ^b	NA	NA	NA															
	11	Mar 08-11	118	39.2	31.0	49.0	0	NA	NA	NA	0	- ^b	- ^b	- ^b	- ^b	NA	NA	NA															
Weitchpec Frame	12	Mar 15-18	18	- ^b	- ^b	- ^b	- ^b	NA	NA	NA	0	- ^b	- ^b	- ^b	- ^b	NA	NA	NA															
	13	Mar 26-25	86	40.0	36.0	47.0	0	NA	NA	NA	0	- ^b	- ^b	- ^b	- ^b	NA	NA	NA															
	14	Mar 29-Apr 01	55	39.9	33.0	61.0	2%	NA	NA	NA	0	- ^b	- ^b	- ^b	- ^b	NA	NA	NA															
	15	Apr 05-08	46	43.7	35.0	62.0	11%	NA	NA	NA	0	- ^b	- ^b	- ^b	- ^b	NA	NA	NA															
	16	Apr 12-15	43	56.4	36.0	82.0	47%	NA	NA	NA	0	- ^b	- ^b	- ^b	- ^b	NA	NA	NA															
	17 ^a	Apr 19-22	-	-	-	-	-	NA	NA	NA	-	-	-	-	-	NA	NA	NA															
	18	Apr 26-29	25	- ^b	- ^b	- ^b	- ^b	NA	NA	NA	4	- ^b	- ^b	- ^b	- ^b	NA	NA	NA															
	19	May 03-06	17	- ^b	- ^b	- ^b	- ^b	NA	NA	NA	1	- ^b	- ^b	- ^b	- ^b	NA	NA	NA															
	20	May 10-13	24	- ^b	- ^b	- ^b	- ^b	NA	NA	NA	0	- ^b	- ^b	- ^b	- ^b	NA	NA	NA															
	21	May 17-20	48	58.4	46.0	90.0	56%	NA	NA	NA	0	- ^b	- ^b	- ^b	- ^b	NA	NA	NA															
Weitchpec RST	11	Mar 08-11	87	39.0	30.0	43.0	0	NA	NA	NA	0	- ^b	- ^b	- ^b	- ^b	NA	NA	NA															
	12	Mar 15-18	0	- ^b	- ^b	- ^b	- ^b	NA	NA	NA	0	- ^b	- ^b	- ^b	- ^b	NA	NA	NA															
	13	Mar 22-25	90	40.3	36.0	51.0	0	NA	NA	NA	0	- ^b	- ^b	- ^b	- ^b	NA	NA	NA															
	14	Mar 29-Apr 01	50	41.8	9.0	63.0	2%	NA	NA	NA	0	- ^b	- ^b	- ^b	- ^b	NA	NA	NA															
	15	Apr 05-08	28	- ^b	- ^b	- ^b	- ^b	NA	NA	NA	0	- ^b	- ^b	- ^b	- ^b	NA	NA	NA															
	16	Apr 12-15	41	50.3	39.0	62.0	15%	NA	NA	NA	0	- ^b	- ^b	- ^b	- ^b	NA	NA	NA															
	17 ^a	Apr 19-22	-	-	-	-	-	NA	NA	NA	-	-	-	-	-	NA	NA	NA															
	18 ^a	Apr 26-29	-	-	-	-	-	NA	NA	NA	-	-	-	-	-	NA	NA	NA															
	19 ^a	May 03-06	-	-	-	-	-	NA	NA	NA	-	-	-	-	-	NA	NA	NA															
	20	May 10-13	-	-	-	-	-	NA	NA	NA	-	-	-	-	-	NA	NA	NA															
21	May 17-20	-	-	-	-	-	NA	NA	NA	-	-	-	-	-	NA	NA	NA																

Table 4. In-season summary of clinical signs of disease in young-of-the-year Chinook Salmon by site at the Bogus, I-5, and Kinsman sites on the mainstem Klamath River, 2022. *Note: Although only Chinook Salmon are reported in this table, we also monitor clinical signs of diseases in Coho Salmon and other species.*

USFWS 2022 Mainstem Klamath River YOY Chinook Salmon Clinical Signs of Disease Summary

U.S. Fish & Wildlife Service, Arcata Fish & Wildlife Office, 1655 Heindon Road, Arcata, CA 95521, (707)822-7201

[Preliminary Data - Subject to Revision](#)

Site	Calendar week	Sampling dates	Weekly mean flow (cfs) ^a	Water temp. (°F) ^b		Belly condition			Gills			Condition	
						Sample size	Distended		Sample size	Color		# positive	%
				Min	Max		# positive	%		Pale or worse		Eroded or fungal	%
Bogus	10	3/2-3/4	980	43.8	44.2	40	0	0.0%	0	-	- ^c	-	- ^c
	11	3/8-3/11	994	44.6	45.3	51	0	0.0%	0	-	- ^c	-	- ^c
	12 ^d	3/14-3/18	993	-	-	-	-	-	-	-	-	-	-
	13	3/22-3/25	995	48.7	51.0	70	0	0.0%	1	0	- ^c	0	- ^c
	14	3/29-4/1	1,061	50.1	50.9	87	0	0.0%	2	0	- ^c	0	- ^c
	15	4/5-4/8	1,310	50.7	51.6	90	0	0.0%	7	0	- ^c	0	- ^c
	16	4/12-4/15	1,877	50.9	50.9	30	0	0.0%	5	0	- ^c	0	- ^c
	17 ^d	4/19-4/22	2,599	-	-	-	-	-	-	-	-	-	-
	18	4/26-4/28	1,309	53.7	53.9	89	8	9.0%	23	1	- ^c	0	- ^c
	19	5/3-5/6	1,211	52.1	53.8	89	1	1.1%	30	0	0.0%	2	6.7%
I-5	20	5/10-5/13	1,179	51.9	53.7	127	6	4.7%	55	1	1.8%	1	1.8%
	21	5/17-5/20	1,176	56.1	60.0	40	16	40.0%	36	1	2.8%	1	2.8%
	10	3/1-3/4	980	41.9	43.8	98	0	0.0%	0	-	- ^c	-	- ^c
	11	3/8-3/11	994	42.6	44.0	161	0	0.0%	0	-	- ^c	-	- ^c
	12	3/15-3/18	993	43.8	44.9	114	0	0.0%	2	0	- ^c	0	- ^c
	13	3/22-3/25	995	45.2	46.9	128	0	0.0%	2	0	- ^c	0	- ^c
	14	3/29-4/1	1061	48.1	49.6	158	0	0.0%	7	0	- ^c	0	- ^c
	15	4/5-4/8	1310	48.7	50.3	93	0	0.0%	36	0	0.0%	0	0.0%
	16	4/12-4/15	1877	47.4	49.1	151	1	0.7%	111	1	0.9%	0	0.0%
	17	4/19-4/22	2599	48.9	49.4	87	0	0.0%	68	0	0.0%	0	0.0%
Kinsman	18	4/26-4/29	1309	52.3	52.8	177	1	0.6%	110	0	0.0%	0	0.0%
	19	5/3-5/6	1211	51.2	52.7	160	0	0.0%	110	0	0.0%	0	0.0%
	20	5/10-5/13	1179	51.4	52.1	96	6	6.3%	85	7	8.2%	8	9.4%
	21	5/17-5/20	1176	54.3	55.5	82	4	4.9%	67	2	3.0%	3	4.5%
	10	3/1-3/4	1367	45.0	47.2	85	0	0.0%	3	0	- ^c	0	- ^c
	11	3/8-3/11	1345	43.3	46.5	85	0	0.0%	12	0	- ^c	0	- ^c
	12	3/15-3/18	1410	44.7	47.8	67	0	0.0%	13	0	- ^c	0	- ^c
	13	3/22-3/25	1444	47.1	52.8	90	0	0.0%	41	0	0.0%	0	0.0%
	14	3/29-4/1	1507	49.1	51.4	90	0	0.0%	66	0	0.0%	0	0.0%
	15	4/5-4/8	1752	49.2	55.5	90	0	0.0%	78	0	0.0%	0	0.0%
Weitchpec	16	4/12-4/15	2070	47.4	49.8	90	1	1.1%	88	0	0.0%	0	0.0%
	17 ^d	4/19-4/22	3311	-	-	-	-	-	-	-	-	-	-
	18	4/26-4/29	1978	52.1	58.4	85	0	0.0%	82	0	0.0%	0	0.0%
	19	5/3-5/6	1939	56.9	60.1	74	3	4.1%	69	0	0.0%	0	0.0%
	20	5/10-5/13	1930	50.1	55.2	59	0	0.0%	59	1	1.7%	0	0.0%
	21	5/17-5/20	1888	57.7	60.9	32	5	15.6%	31	1	3.2%	0	0.0%
	10	3/1-3/4	4167	-	-	120	0	0.0%	0	-	- ^c	-	- ^c
	11	3/8-3/11	3644	46.2	46.6	195	0	0.0%	0	-	- ^c	-	- ^c
	12	3/15-3/18	4542	48.2	48.4	7	0	- ^c	0	-	- ^c	-	- ^c
	13	3/22-3/24	4750	48.9	50.5	176	0	0.0%	0	-	- ^c	-	- ^c
	14	3/29-4/1	4937	50.2	52.0	105	0	0.0%	9	0	- ^c	0	- ^c
	15	4/5-4/8	5024	48.2	51.6	59	0	0.0%	26	0	- ^c	0	- ^c
	16	4/12-4/15	4914	49.5	49.6	40	0	0.0%	32	0	0.0%	0	0.0%
	17 ^d	4/19-4/22	9094	-	-	-	-	-	-	-	-	-	-
	18	4/26-4/29	8243	50.0	51.8	13	0	- ^c	2	0	- ^c	0	- ^c
	19	5/3-5/6	9256	49.8	50.5	16	0	- ^c	7	0	- ^c	0	- ^c
	20	5/10-5/13	8013	49.1	49.6	20	0	- ^c	20	0	- ^c	0	- ^c
	21	5/17-5/20	6510	52.7	54.5	20	0	- ^c	20	0	- ^c	0	- ^c

^a discharge below IGD used for Bogus and I-5 sites; discharge at Kinsman Site is Klamath River discharge near Seiad Valley minus discharge in the Scott River near Fort Jones; discharge at Weitchpec Site is discharge near Orleans

^b temperature recorded at time of trap check/seine

^c sample size too low for a reportable calculation

^d trap not set this week because trapping operations were limited due to a flow event and/or hatchery release

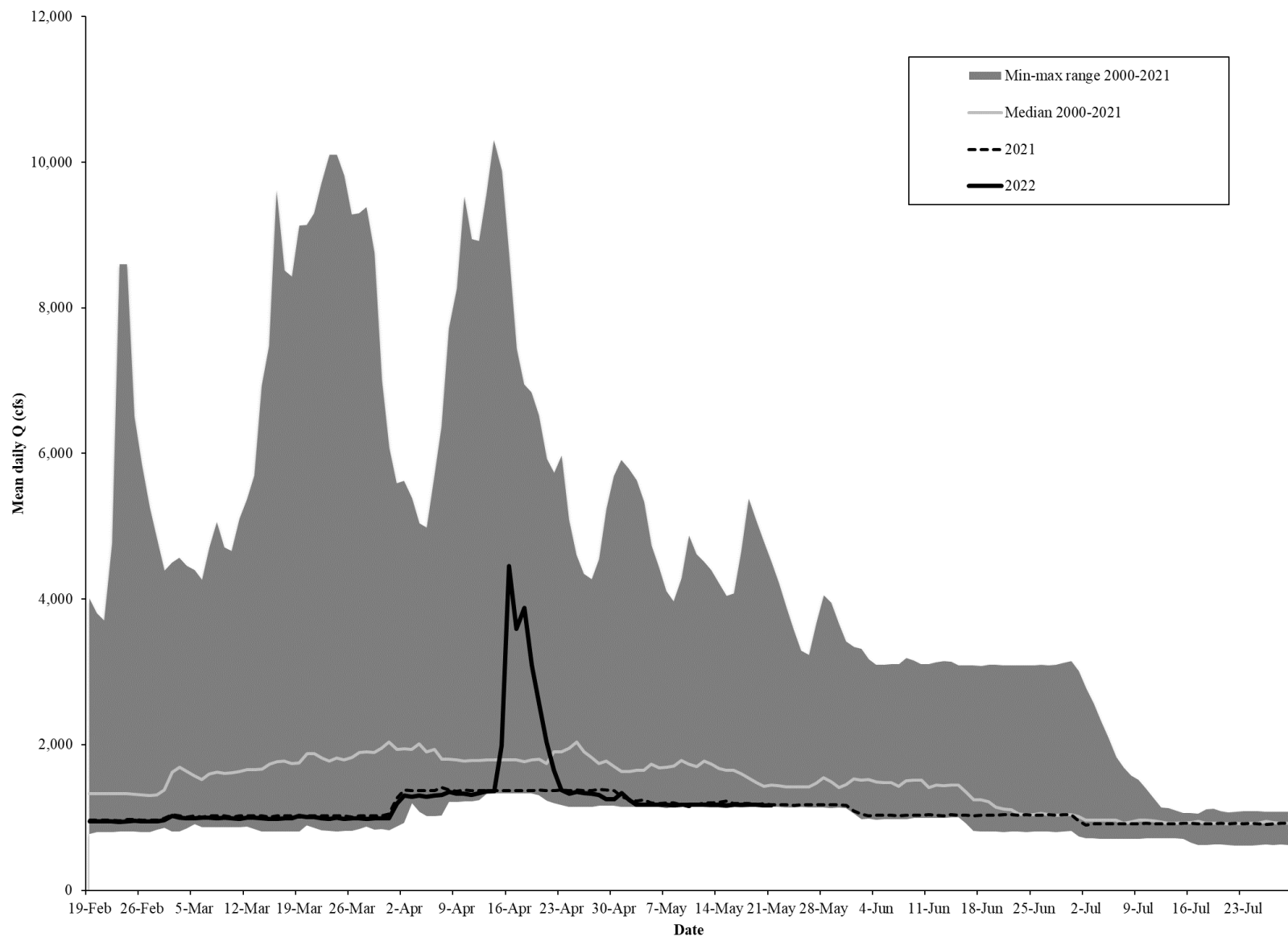


Figure 1. Daily mean discharge below Iron Gate Dam, Klamath River (USGS Gaging Station 11516530) from late February through July, 2000–2022.

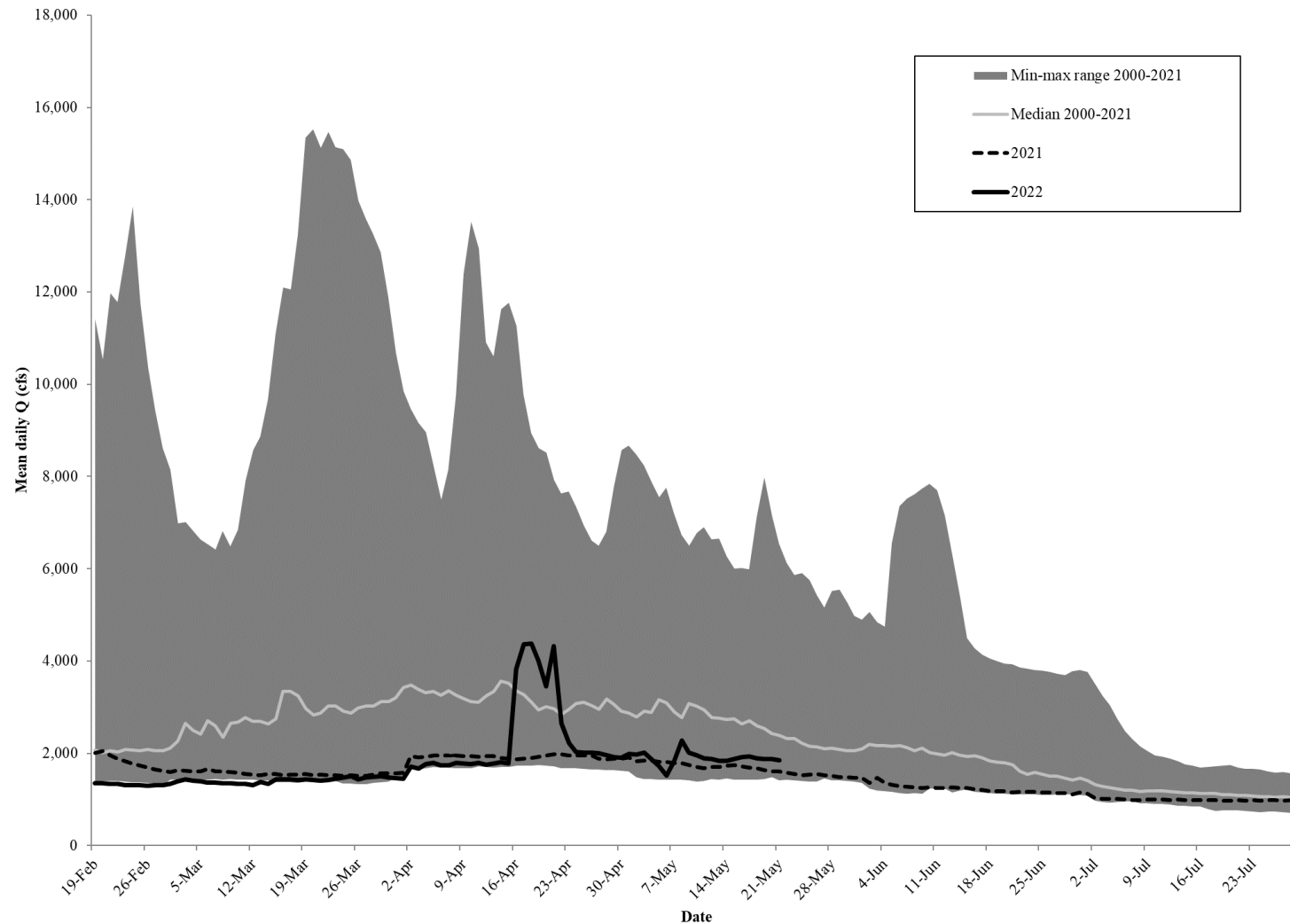


Figure 2. Klamath River daily mean discharge at the Kinsman Trap Site from late February through July 2000–2020. Flow measurements are not available at this location. Therefore, Klamath River flow near Seiad Valley, California (USGS Gaging Station 11520500) minus flow from the Scott River near Fort Jones, California (USGS 11519500) is used as a surrogate.

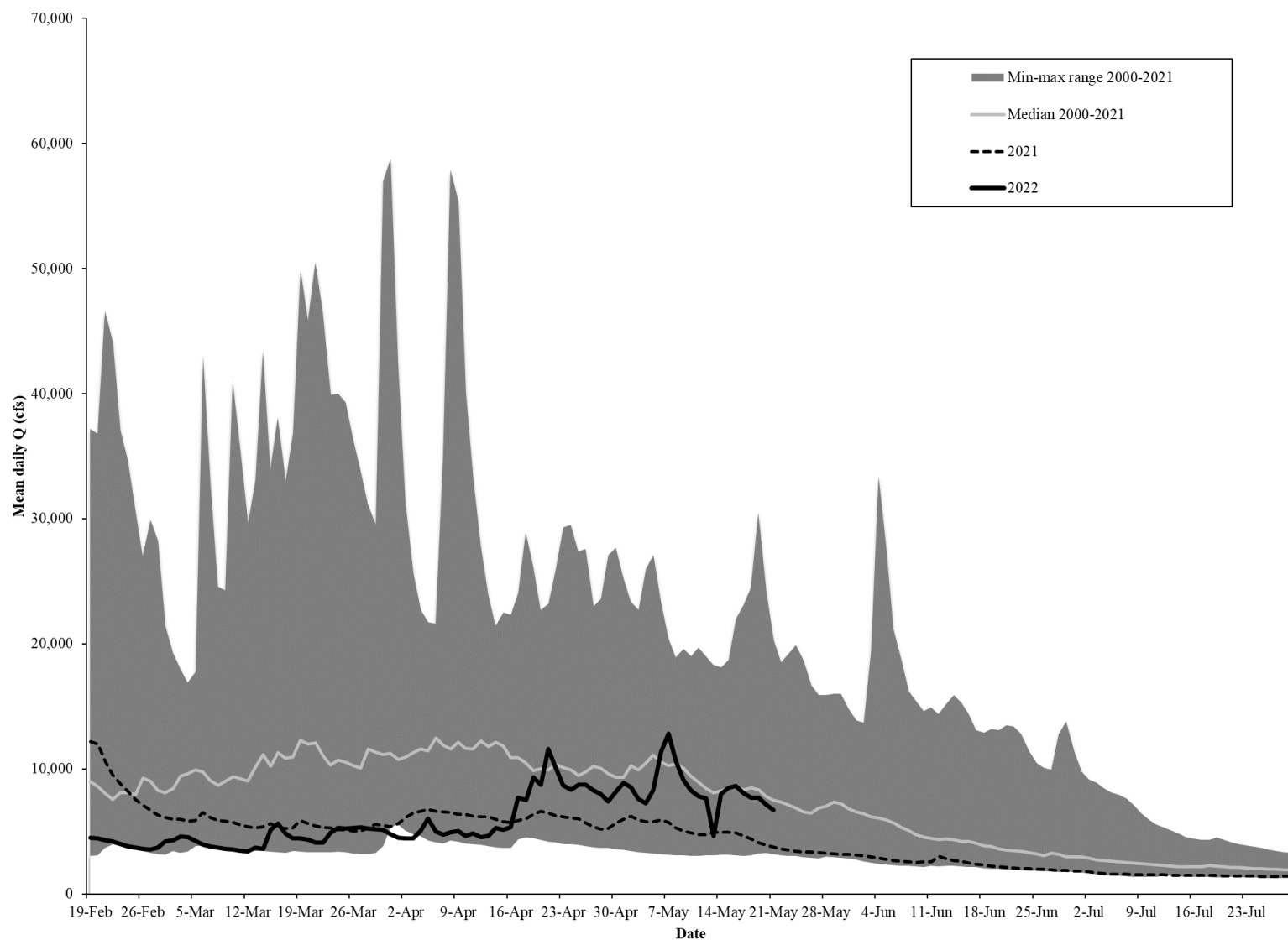


Figure 3. Daily mean discharge of Klamath River at Orleans, California (USGS Gaging Station 10523000) from late February through July 2000–2022.