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**Proposed Thermal Marks for Brood Year 2019 Salmon in Alaska**

by

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# **Proposed Thermal Marks for Brood Year 2019 Salmon in Alaska**

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**Keywords:** otolith, thermal marking, salmon, Alaska

## **Abstract**

In Alaska, mass-marking of salmon using otolith thermal marking is an effective research and management tool applicable to a variety of situations. For brood year 2019, approximately 62 million sockeye, 952 million pink salmon, 729 million chum, 19 million Coho, and 9 million Chinook salmon will be marked at 26 different hatcheries using 111 thermal marks, six dry marks, and one strontium mark.

## **Introduction**

In Alaska, thermal marking is used to provide information about the contribution of hatchery fish, primarily pink, chum and sockeye salmon, to commercial and cost-recovery fisheries during the summer fishing season. Because most fisheries are managed on the basis of wild stocks, fishery managers subtract the estimated hatchery catch from total catch and use that information to structure the fisheries. Hatchery operators are most interested in their own production and use thermal marking to estimate how their fish contribute to traditional fisheries and to terminal harvests. In addition, thermal marks are being used to determine the origin of juvenile and immature salmon collected during surveys in the Gulf of Alaska by the National Marine Fisheries Service and as part of the Bering Sea and Aleutian Island Salmon Investigative Study (BASIS) program.

## **Plan for 2019 brood year stocks**

The proposed thermal marks for brood year 2019 salmon are listed in Table 1. We plan to mark approximately 62 million sockeye, 952 million pink salmon, 729 million chum, 19 million Coho, and 9 million Chinook salmon will be marked at 26 different hatcheries using 111 thermal marks, six dry marks, and one strontium mark.

The proposed otolith plan includes scheduled changes. Some marks (mostly those applied to pink salmon) are on every other year cycle, while others rotate on a three or four-year cycle. Thermal mark patterns are presented in the Uniform Hatch Code notation (Johnson et al. 2006).

## References

Johnson, W.F., R.P. Josephson, T.R. Frawley, and D.S. Oxman 2006. Revised web-based North Pacific salmon otolith mark directory. (NPAFC Doc. 971). 39p. Alaska Dept. Fish and Game, Juneau Alaska

Table 1. Summary of thermal mark codes to be applied to Alaska hatchery salmon in brood year 2019.

SPECIES: SOCKEYE

ID#	MARK TYPE	BROOD YEAR	RELEASE YEAR	SPECIES	STATE/ PROVINCE	REGION RELEASE	AGENCY
AK19-01	S	2019	2020	Sockeye	Alaska	Southcentral	PWSAC
AK19-02	T	2019	2020	Sockeye	Alaska	Southcentral	CIAA
AK19-03	T	2019	2021	Sockeye	Alaska	Southcentral	PWSAC
AK19-04	T	2019	2021	Sockeye	Alaska	Southcentral	PWSAC
AK19-05	T	2019	2021	Sockeye	Alaska	Southcentral	PWSAC
AK19-06	T	2019	2021	Sockeye	Alaska	Southcentral	PWSAC
AK19-07	T	2019	2021	Sockeye	Alaska	Southcentral	PWSAC
AK19-08	T	2019	2020	Sockeye	Alaska	Southcentral	CIAA
AK19-09	T	2019	2020	Sockeye	Alaska	Southcentral	CIAA
AK19-10	T	2019	2020	Sockeye	Alaska	Southcentral	CIAA
AK19-11	T	2019	2020	Sockeye	Alaska	Southeast	DIPAC
AK19-12	T	2019	2020	Sockeye	Alaska	Southeast	DIPAC
AK19-13	T	2019	2021	Sockeye	Alaska	Southeast	DIPAC
AK19-14	T	2019	2021	Sockeye	Alaska	Southcentral	CIAA
AK19-15	T	2019	2021	Sockeye	Alaska	Southcentral	CIAA
AK19-16	T	2019	2020	Sockeye	Alaska	Southcentral	CIAA
AK19-17	T	2019	2021	Sockeye	Alaska	Southcentral	CIAA
AK19-18	T	2019	2021	Sockeye	Alaska	Southeast	DIPAC
AK19-19	T	2019	2020	Sockeye	Alaska	Southeast	DIPAC
AK19-20	T	2019	2020	Sockeye	Alaska	Southcentral	CIAA
AK19-21	T	2019	2020	Sockeye	Alaska	Southeast	DIPAC
AK19-22	T	2019	2020	Sockeye	Alaska	Southeast	DIPAC
AK19-23	T	2019	2020	Sockeye	Alaska	Southeast	DIPAC
AK19-24	T	2019	2021	Sockeye	Alaska	Southeast	DIPAC
AK19-25	T	2019	2021	Sockeye	Alaska	Southeast	DIPAC
AK19-26	D	2019	2020	Sockeye	Alaska	Western	KRAA
AK19-27	D	2019	2020	Sockeye	Alaska	Western	KRAA
AK19-28	D	2019	2021	Sockeye	Alaska	Western	KRAA
AK19-29	D	2019	2021	Sockeye	Alaska	Western	KRAA

ID#	FACILITY	STOCK	STAGE	ESIMATED RELEASE	HATCH CODE	MARK NAME
AK19-01	Gulkana	Gulkana R	Emergent Fry	22,000,000	HS1	GULKANA19
AK19-02	Trail Lakes	Bear Lk	Emergent Fry	2,400,000	4H	TRAILLAKES19A
AK19-03	Main Bay	Main Bay H	Smolt	2,380,000	3H3	MBH19A
AK19-04	Main Bay	Main Bay H	Smolt	2,380,000	3H2,2	MBH19B
AK19-05	Main Bay	Main Bay H	Smolt	2,380,000	3H5	MBH19C
AK19-06	Main Bay	Main Bay H	Smolt	2,380,000	3H3,3	MBH19D
AK19-07	Main Bay	Main Bay H	Smolt	2,380,000	3H	MBH19E
AK19-08	Trail Lakes	English Bay Lk	Emergent Fry	1,125,000	1,3H	LEISURE19
AK19-09	Trail Lakes	English Bay Lk		1,125,000	5H3	KIRSCHNER19
AK19-10	Trail Lakes	Hazel Lk	Fed Fry	1,250,000	4,1,3H	HAZEL19
AK19-11	Snettisham	S-Tatsamenie Lk	Emergent Fry	800,000	2,1,2H	TATSAMENIE19
AK19-12	Snettisham	S-L TRAPPER LK	Emergent Fry	700,000	4,4n,3H	TRAPPER19
AK19-13	Snettisham	Snettisham H	Smolt	8,000,000	3,3nH	SPEELARM19A
AK19-14	Trail Lakes	Bear Lk	Smolt	1,450,000	2,4H	TRAILLAKES19B
AK19-15	Trail Lakes	Bear Lk	Smolt	500,000	6,2H	TRAILLAKES19C
AK19-16	Trail Lakes	Hidden Lk 244-30	Emergent Fry	1,000,000	2,2,2H	HIDDENLAKE19
AK19-17	Trail Lakes	Shell Lk	Smolt	250,000	3,2,4H	SHELLLAKE19
AK19-18	Snettisham	Snettisham H	Smolt	1,000,000	3,6H	SPEELARM19B
AK19-19	Snettisham	S-Tahltan Lk	Emergent Fry	2,000,000	4,3H	TAHLTAN19
AK19-20	Trail Lakes	English Bay Lk	Emergent Fry	530,000	2,5H	TUTKA19
AK19-21	Snettisham	S-Tatsamenie Lk	Fingerling	200,000	2,2,3H	TATSAMENIE19ER
AK19-22	Snettisham	S-Tatsamenie Lk	Fingerling	200,000	6H	TATSAMENIE19ERB
AK19-23	Snettisham	Snettisham H	Emergent Fry	500,000	5,3nH	SWEETHEART19
AK19-24	Snettisham	Snettisham H	Smolt	1,000,000	4,4nH	SPEELARM19C
AK19-25	Snettisham	Snettisham H	Smolt	1,000,000	4,6nH	SPEELARM19D
AK19-26	Pillar Creek	Saltery Cr 103-25	Emergent Fry	1,600,000	2,4,2H	KODIAK19
AK19-27	Pillar Creek	Saltery Cr 103-25	Emergent Fry	400,000	3n,3H	KODIAK19B
AK19-28	Pillar Creek	Saltery Cr 103-25	Smolt	650,000	4,3,2H	KODIAK19A
AK19-29	Kitoi Bay	Kitoi bay	Smolt	850,000	3,2H	KITOI19

Table 1 (continued). Summary of thermal mark codes to be applied to Alaska hatchery salmon in brood year 2019.

SPECIES: PINK

ID#	MARK TYPE	BROOD YEAR	RELEASE YEAR	SPECIES	STATE/ PROVINCE	REGION RELEASE	AGENCY
AK19-30	T	2019	2020	Pink	Alaska	Southcentral	PWSAC
AK19-31	T	2019	2020	Pink	Alaska	Southcentral	PWSAC
AK19-32	T	2019	2020	Pink	Alaska	Southcentral	PWSAC
AK19-33	T	2019	2020	Pink	Alaska	Southeast	SJC
AK19-34	T	2019	2020	Pink	Alaska	Southeast	AKI
AK19-35	T	2019	2020	Pink	Alaska	Southeast	AKI
AK19-36	T	2019	2020	Pink	Alaska	Southeast	AKI
AK19-37	T	2019	2020	Pink	Alaska	Southeast	AKI
AK19-38	T	2019	2020	Pink	Alaska	Southeast	AKI
AK19-39	T	2019	2020	Pink	Alaska	Southcentral	VFDA
AK19-40	T	2019	2020	Pink	Alaska	Southcentral	PWSAC
AK19-41	T	2019	2020	Pink	Alaska	Southcentral	PWSAC
AK19-42	T	2019	2020	Pink	Alaska	Southcentral	CIAA
AK19-43	T	2019	2020	Pink	Alaska	Southcentral	CIAA
AK19-44	T	2019	2020	Pink	Alaska	Southcentral	CIAA
AK19-45	T	2019	2020	Pink	Alaska	Southcentral	CIAA
AK19-46	T	2019	2020	Pink	Alaska	Southcentral	CIAA
AK19-47	N	2019	2020	Pink	Alaska	Western	KRAA

ID#	FACILITY	STOCK	STAGE	ESIMATED RELEASE	HATCH CODE	MARK NAME
AK19-30	A F Koernig	A F Koernig H	Fed Fry	90,000,000	4H3	AFK19A
AK19-31	A F Koernig	A F Koernig H	Fed Fry	90,000,000	4H	AFK19B
AK19-32	Wally Noerenberg	Wally Noerenberg	Fed Fry	70,000,000	8H	WNH19PINKB
AK19-33	Sheldon Jackson	Indian R 112-42	Fed Fry	100,000	4,1H	SJ19PINK
AK19-34	Port Armstrong	Port Armstrong H	Fed Fry	23,100,000	3H	PORTARMSTRONG19
AK19-35	Port Armstrong	Port Armstrong H	Fed Fry	8,400,000	3H4	PORTARMSTRONG19A
AK19-36	Port Armstrong	Port Armstrong H	Fed Fry	5,100,000	3H3	PORTARMSTRONG19B
AK19-37	Port Armstrong	Port Armstrong H	Fed Fry	8,400,000	3H5	PORTARMSTRONG19C
AK19-38	Port Armstrong	Port Armstrong H	Fed Fry	5,100,000	3H6	PORTARMSTRONG19D
AK19-39	Solomon Gulch	Solomon Gulch H	Fed Fry	200,000,000	6H	SGH19
AK19-40	Cannery Creek	Cannery Cr	Fed Fry	140,000,000	3,3H	CCH19
AK19-41	Wally Noerenberg	Wally Noerenberg	Fed Fry	120,000,000	8H3	WNH19PINKA
AK19-42	Tutka Bay	English Bay Lk	Fed Fry	35,000,000	5,3H3	TUTKA19PINK
AK19-43	Tutka Bay	English Bay Lk	Fed Fry	35,000,000	4,4H3	TUTKA19PINKA
AK19-44	Tutka Bay	English Bay Lk	Fed Fry	28,500,000	4,3H	TUTKA19PINKB
AK19-45	Port Graham	Port Graham H	Fed Fry	65,000,000	5H3	PORTGRAHAM19
AK19-46	Port Graham	Bruin Bay	Fed Fry	400,000	5H5	PORTGRAHAM19A
AK19-47	Kitoy Bay	Big Kitoy Cr	Fed Fry	28,000,000	7H	KITOI19PINK

Table 1 (continued). Summary of thermal mark codes to be applied to Alaska hatchery salmon in brood year 2019.

SPECIES: CHUM

ID#	MARK TYPE	BROOD YEAR	RELEASE YEAR	SPECIES	STATE/ PROVINCE	REGION RELEASE	AGENCY
AK19-48	T	2019	2020	Chum	Alaska	Southeast	SJC
AK19-49	T	2019	2020	Chum	Alaska	Southeast	AKI
AK19-50	T	2019	2020	Chum	Alaska	Southeast	AKI
AK19-51	T	2019	2020	Chum	Alaska	Southeast	NSRAA
AK19-52	T	2019	2020	Chum	Alaska	Southeast	NSRAA
AK19-53	T	2019	2020	Chum	Alaska	Southcentral	PWSAC
AK19-54	T	2019	2020	Chum	Alaska	Southeast	NSRAA
AK19-55	T	2019	2020	Chum	Alaska	Southeast	NSRAA
AK19-56	T	2019	2020	Chum	Alaska	Southeast	NSRAA
AK19-57	T	2019	2020	Chum	Alaska	Southeast	NSRAA
AK19-58	T	2019	2020	Chum	Alaska	Southeast	NSRAA
AK19-59	T	2019	2020	Chum	Alaska	Southcentral	PWSAC
AK19-60	T	2019	2020	Chum	Alaska	Southeast	DIPAC
AK19-61	T	2019	2020	Chum	Alaska	Southeast	DIPAC
AK19-62	T	2019	2020	Chum	Alaska	Southcentral	PWSAC
AK19-63	T	2019	2020	Chum	Alaska	Southcentral	PWSAC
AK19-64	T	2019	2020	Chum	Alaska	Southeast	NSRAA
AK19-65	T	2019	2020	Chum	Alaska	Southeast	NSRAA
AK19-66	T	2019	2020	Chum	Alaska	Southeast	NSRAA
AK19-67	T	2019	2020	Chum	Alaska	Southeast	NSRAA
AK19-68	T	2019	2020	Chum	Alaska	Southeast	NSRAA
AK19-69	T	2019	2020	Chum	Alaska	Southeast	NSRAA
AK19-70	T	2019	2020	Chum	Alaska	Southeast	NSRAA
AK19-71	T	2019	2020	Chum	Alaska	Southeast	NSRAA
AK19-72	T	2019	2020	Chum	Alaska	Southeast	NSRAA
AK19-73	T	2019	2020	Chum	Alaska	Southeast	NSRAA
AK19-74	T	2019	2020	Chum	Alaska	Southeast	NSRAA
AK19-75	T	2019	2020	Chum	Alaska	Southeast	NSRAA
AK19-76	T	2019	2020	Chum	Alaska	Southeast	SSRAA
AK19-77	T	2019	2020	Chum	Alaska	Southeast	SSRAA
AK19-78	T	2019	2020	Chum	Alaska	Southeast	SSRAA
AK19-79	T	2019	2020	Chum	Alaska	Southeast	SSRAA
AK19-80	T	2019	2020	Chum	Alaska	Southeast	SSRAA
AK19-81	T	2019	2020	Chum	Alaska	Southeast	SSRAA
AK19-82	T	2019	2020	Chum	Alaska	Southeast	SSRAA
AK19-83	T	2019	2020	Chum	Alaska	Southeast	SSRAA
AK19-84	T	2019	2020	Chum	Alaska	Southeast	SSRAA
AK19-85	T	2019	2020	Chum	Alaska	Southeast	SSRAA
AK19-86	T	2019	2020	Chum	Alaska	Southeast	SSRAA
AK19-87	T	2019	2020	Chum	Alaska	Western	NSEDC
AK19-88	T	2019	2020	Chum	Alaska	Western	NSEDC
AK19-89	T	2019	2020	Chum	Alaska	Western	KRAA
AK19-90	T	2019	2020	Chum	Alaska	Western	KRAA
AK19-91	T	2019	2020	Chum	Alaska	Southeast	MIC

ID#	FACILITY	STOCK	STAGE	ESIMATED RELEASE	HATCH CODE	MARK NAME
AK19-48	Sheldon Jackson	Indian R 112-42	Fed Fry	100,000	1,3H	SJ19CHUM
AK19-49	Port Armstrong	Port Armstrong H	Fed Fry	30,000,000	1,2,2H	PORTARMSTRONG19CHUM
AK19-50	Port Armstrong	Port Armstrong H	Fed Fry	20,000,000	5H4	PORTARMSTRONG19CHUMLL
AK19-51	Sawmill Creek	Medvejie H	Fed Fry	11,500,000	1,3,2H	DEEPINLETMV19
AK19-52	Medvejie	Medvejie H	Fed Fry	19,800,000	5,2,3H	DEEPINLETMV19LL
AK19-53	Wally Noerenberg	Wally Noerenberg	Fed Fry	58,200,000	3,6H	WNH19A
AK19-54	Hidden Falls	Hidden Falls H	Fed Fry	16,100,000	4n,3H	HIDDENFALLS19
AK19-55	Hidden Falls	Hidden Falls H	Fed Fry	9,200,000	8n,2H	HIDDENFALLS19B
AK19-56	Hidden Falls	Hidden Falls H	Fed Fry	10,600,000	6,3H	HIDDENFALLS19LL
AK19-57	Hidden Falls	Hidden Falls H	Fed Fry	10,600,000	4n,3,2nH	HIDDENFALLS19LLB
AK19-58	Medvejie	Medvejie H	Fed Fry	20,200,000	6,2H	BEARCOVE19LL
AK19-59	Wally Noerenberg	Wally Noerenberg	Fed Fry	15,000,000	1,2,1H	WNH19B
AK19-60	Macaulay	Macaulay H	Fed Fry	66,000,000	6H	DIPAC19
AK19-61	Macaulay	Macaulay H	Fed Fry	51,000,000	6H3	DIPAC19B
AK19-62	Wally Noerenberg	Wally Noerenberg	Fed Fry	25,000,000	3,2n,1H	WNH19C
AK19-63	Wally Noerenberg	Wally Noerenberg	Fed Fry	17,900,000	3,4H3	WNH19D
AK19-64	Hidden Falls	Hidden Falls H	Fed Fry	32,200,000	3,7H	SECOVE19
AK19-65	Hidden Falls	Hidden Falls H	Fed Fry	18,400,000	3,4,3H	SECOVE19LL
AK19-66	Hidden Falls	Hidden Falls H	Fed Fry	13,800,000	3,6nH	THOMASBAY19
AK19-67	Hidden Falls	Hidden Falls H	Fed Fry	9,200,000	4,4,3H	THOMASBAY19LL
AK19-68	Hidden Falls	Hidden Falls H	Fed Fry	4,600,000	4,7H	GUNNUKCREEK19
AK19-69	Hidden Falls	Hidden Falls H	Fed Fry	4,600,000	5,3H3	GUNNUKCREEK19LL
AK19-70	Sawmill Creek	Medvejie H	Fed Fry	13,800,000	5H	CRAWFISH19
AK19-71	Sawmill Creek	Medvejie H	Fed Fry	13,800,000	6,4H	CRAWFISH19LL
AK19-72	Medvejie	Hidden Falls H	Fed Fry	22,000,000	5,2nH	DEEPINLETHF19
AK19-73	Medvejie	Hidden Falls H	Fed Fry	11,040,000	7H	BEARCOVEHF19
AK19-74	Medvejie	Hidden Falls H	Fed Fry	7,360,000	9H	BEARCOVEHF19LL
AK19-75	Medvejie	Medvejie H	Fed Fry	10,800,000	3,3,2H	BEARCOVE19
AK19-76	Neets Bay	Neets Bay H	Fed Fry	20,000,000	5,1,2H	ANITABAY19
AK19-77	Whitman Lake	Neets Bay H	Fed Fry	2,000,000	4n,2n,2H	KENDRICK19
AK19-78	Whitman Lake	Neets Bay H	Fed Fry	2,000,000	4n,2n,2H3	KENDRICK19LL
AK19-79	Neets Bay	Neets Bay H	Fed Fry	55,000,000	4,4H2,3	NEETS BAY19SUM
AK19-80	Neets Bay	Neets Bay H	Fed Fry	5,000,000	3,3,5H	BURNETTINLET19
AK19-81	Neets Bay	Neets Bay H	Fed Fry	20,000,000	4,2,2H2,3	NEETS BAY19FALL
AK19-82	Neets Bay	Neets Bay H	Fed Fry	8,000,000	4,1,3H	NAKATINLET19SUM
AK19-83	Neets Bay	Neets Bay H	Fed Fry	2,000,000	3,5H	ANITABAYLL19
AK19-84	Neets Bay	Neets Bay H	Fed Fry	8,000,000	3,4,1H2,3	NAKATINLET19FALL
AK19-85	Neets Bay	Neets Bay H	Fed Fry	6,000,000	4,2,4H	BURNETTINLET19FALL
AK19-86	Neets Bay	Neets Bay H	Smolt	18,000,000	4H6	PORTASUMCION19
AK19-87	Norton Sound Hatchery	Solomon R	Emergent Fry	160,000	H3,5	NORTON19CHUM
AK19-88	Norton Sound Hatchery	Snake R	Eyed Egg	160,000	8H	NORTON19CHUMB
AK19-89	Kitoi Bay	Sturgeon R	Fed Fry	15,000,000	3,1,3H	KITOI19CHUM
AK19-90	Kitoi Bay	Sturgeon R	Fed Fry	15,000,000	3n,2n,3H	KITOI19CHUMA
AK19-91	Tamgas Creek	Carroll R	Fed Fry	10,000,000	4H3	TAMGAS19

Table 1 (continued). Summary of thermal mark codes to be applied to Alaska hatchery salmon in brood year 2019.

SPECIES: CHINOOK

ID#	MARK TYPE	BROOD YEAR	RELEASE YEAR	SPECIES	STATE/ PROVINCE	REGION RELEASE	AGENCY
AK19-108	T	2019	2021	Chinook	Alaska	Southeast	NSRAA
AK19-109	T	2019	2021	Chinook	Alaska	Southeast	SSRAA
AK19-110	T	2019	2021	Chinook	Alaska	Southeast	NSRAA
AK19-111	T	2019	2020	Chinook	Alaska	Southcentral	ADFG
AK19-112	T	2019	2020	Chinook	Alaska	Southcentral	ADFG
AK19-113	T	2019	2020	Chinook	Alaska	Southcentral	ADFG
AK19-114	T	2019	2020	Chinook	Alaska	Southcentral	ADFG
AK19-115	T	2019	2020	Chinook	Alaska	Southcentral	ADFG
AK19-116	T	2019	2020	Chinook	Alaska	Southcentral	ADFG
AK19-117	T	2019	2020	Chinook	Alaska	Western	NSEDC
AK19-118	T	2019	2021	Chinook	Alaska	Southeast	SSRAA

ID#	FACILITY	STOCK	STAGE	ESIMATED RELEASE	HATCH CODE	MARK NAME
AK19-108	Hidden Falls	Hidden Falls H	Smolt	650,000	4,2H	HIDDENFALLS19CHIN
AK19-109	Whitman Lake	Whitman Lake H	Smolt	1,475,000	1,5H	WHITMAN19CHIN
AK19-110	Medvejie	Medvejie H	Smolt	3,000,000	5,2H	MEDVEJIE19CHIN
AK19-111	William Jack Hernandez	Cook Inlet	Smolt	1,196,500	2,3H	COOKINLET19CHIN
AK19-112	William Jack Hernandez	Cook Inlet	Smolt	150,000	2,3H4	NINILCHIK19CHIN
AK19-113	William Jack Hernandez	Ship Cr	Smolt	210,000	2,3H3	SHIPCREEK19CHINS
AK19-114	William Jack Hernandez	Ship Cr	Smolt	165,000	2,3H5	SHIPCREEK19CHINL
AK19-115	William Jack Hernandez	Ship Cr	Smolt	210,000	2,4H	PWS19CHIN
AK19-116	William Jack Hernandez	Crooked Cr 221-60	Smolt	315,000	2,5H	RESURRECTION19CHIN
AK19-117	Norton Sound Hatchery	Unalakleet R+Old Woman R	Eyed Egg	240,000	2,2H	SOUTHRIVER19
AK19-118	Crystal Lake	Crystal Cr	Smolt	1,500,000	5,3H	CRYSTAL19CHIN



Table 1 (continued). Summary of thermal mark codes to be applied to Alaska hatchery salmon in brood year 2019.

SPECIES: COHO

ID#	MARK TYPE	BROOD YEAR	RELEASE YEAR	SPECIES	STATE/ PROVINCE	REGION RELEASE	AGENCY
AK19-92	T	2019	2021	Coho	Alaska	Southeast	DIPAC
AK19-93	T	2019	2021	Coho	Alaska	Southcentral	PWSAC
AK19-94	T	2019	2020	Coho	Alaska	Southcentral	CIAA
AK19-95	T	2019	2021	Coho	Alaska	Southcentral	CIAA
AK19-96	T	2019	2021	Coho	Alaska	Southcentral	ADFG
AK19-97	T	2019	2021	Coho	Alaska	Southcentral	VFDA
AK19-98	T	2019	2021	Coho	Alaska	Southcentral	ADFG
AK19-99	T	2019	2021	Coho	Alaska	Southeast	NSRAA
AK19-100	T	2019	2021	Coho	Alaska	Southeast	NSRAA
AK19-101	T	2019	2021	Coho	Alaska	Southeast	SSRAA
AK19-102	T	2019	2020	Coho	Alaska	Western	NSEDC
AK19-103	T	2019	2021	Coho	Alaska	Southeast	SSRAA
AK19-104	D	2019	2021	Coho	Alaska	Western	KRAA
AK19-105	D	2019	2020	Coho	Alaska	Western	KRAA
AK19-106	T	2019	2021	Coho	Alaska	Southeast	SJC
AK19-107	T	2019	2020	Coho	Alaska	Western	NVWM

ID#	FACILITY	STOCK	STAGE	ESIMATED RELEASE	HATCH CODE	MARK NAME
AK19-92	Macaulay	Macaulay H	Smolt	10,000,000	2,6H	DAVIDSON19
AK19-93	Wally Noerenberg	Wally Noerenberg	Smolt	1,000,000	3H	WNH19COHO
AK19-94	Trail Lakes	Bear Lk	Emergent Fry	55,000	3,3H	TRAILLAKES19SMCOHO
AK19-95	Trail Lakes	Bear Lk	Smolt	450,000	2,2H	BEARLAKE19COHO
AK19-96	William Jack Hernandez	Ship Cr	Smolt	655,000	1,5H	COOKINLET19COHO
AK19-97	Solomon Gulch	Solomon Gulch H	Smolt	1,950,000	6H	SGH19COHO
AK19-98	William Jack Hernandez	Bear Lk	Smolt	240,000	2,4H	RESURRECTION19COHO
AK19-99	Medveje	Salmon Lk 102-60	Smolt	200,000	8H	MEDVEJIE19COHO
AK19-100	Sawmill Creek	Salmon Lk 102-60	Smolt	1,800,000	4H	DEEPINLET19COHO
AK19-101	Klawock	Klawock Lk	Smolt	400000	4,2H	KLAWOCK19COHO
AK19-102	Norton Sound Hatchery	Snake R	Eyed Egg	200,000	2,3H	NORTON19COHO
AK19-103	Neets Bay	Neets Bay H	Smolt	600,000	2,5H	NAKAT19COHO
AK19-104	Pillar Creek	Buskin R	Smolt	275,000	3,2H	PILLAR19COHO
AK19-105	Kitoy Bay	Kitoy bay	Fry	500,000	3,6H	KITOIBAY19
AK19-106	Sheldon Jackson	Indian R 112-42	Smolt	250,000	5,2H	SJ19COHO
AK19-107	Village of White Mountain	Fish R 333-20	Eyed Egg	20,000	7H	OPHIR19