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Proposed Thermal Marks for Brood Year 2020 Salmon in Alaska

by

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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 2020, approximately 63 million sockeye, 1 billion pink salmon, 837 million chum, 18 million Coho, and 9 million Chinook salmon will be marked at 27 different hatcheries using 116 thermal marks, seven dry marks, one salt, 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 2020 brood year stocks

The proposed thermal marks for brood year 2020 salmon are listed in Table 1. We plan to mark approximately 63 million sockeye, 1 billion pink salmon, 837 million chum, 18 million Coho, and 9 million Chinook salmon will be marked at 27 different hatcheries using 116 thermal marks, seven dry marks, one salt, 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 2020.

SPECIES: SOCKEYE

ID#	MARK TYPE	BROOD YEAR	RELEASE YEAR	SPECIES	STATE/ PROVINCE	REGION RELEASE	AGENCY
AK20-01	S	2020	2021	Sockeye	Alaska	Southcentral	PWSAC
AK20-02	T	2020	2021	Sockeye	Alaska	Southcentral	CIAA
AK20-03	T	2020	2022	Sockeye	Alaska	Southcentral	PWSAC
AK20-04	T	2020	2022	Sockeye	Alaska	Southcentral	PWSAC
AK20-05	T	2020	2022	Sockeye	Alaska	Southcentral	PWSAC
AK20-06	T	2020	2022	Sockeye	Alaska	Southcentral	PWSAC
AK20-07	T	2020	2022	Sockeye	Alaska	Southcentral	PWSAC
AK20-08	T	2020	2021	Sockeye	Alaska	Southcentral	CIAA
AK20-09	T	2020	2021	Sockeye	Alaska	Southcentral	CIAA
AK20-10	T	2020	2021	Sockeye	Alaska	Southcentral	CIAA
AK20-11	T	2020	2021	Sockeye	Alaska	Southcentral	CIAA
AK20-12	T	2020	2021	Sockeye	Alaska	Southeast	DIPAC
AK20-13	T	2020	2022	Sockeye	Alaska	Southeast	DIPAC
AK20-14	T	2020	2022	Sockeye	Alaska	Southcentral	CIAA
AK20-15	T	2020	2022	Sockeye	Alaska	Southcentral	CIAA
AK20-16	T	2020	2021	Sockeye	Alaska	Southcentral	CIAA
AK20-17	T	2020	2022	Sockeye	Alaska	Southcentral	CIAA
AK20-18	T	2020	2022	Sockeye	Alaska	Southeast	DIPAC
AK20-19	T	2020	2021	Sockeye	Alaska	Southeast	DIPAC
AK20-20	T	2020	2021	Sockeye	Alaska	Southcentral	CIAA
AK20-21	T	2020	2021	Sockeye	Alaska	Southeast	DIPAC
AK20-22	T	2020	2021	Sockeye	Alaska	Southeast	DIPAC
AK20-23	T	2020	2021	Sockeye	Alaska	Southeast	DIPAC
AK20-24	T	2020	2022	Sockeye	Alaska	Southeast	DIPAC
AK20-25	T	2020	2022	Sockeye	Alaska	Southeast	DIPAC
AK20-26	D	2020	2021	Sockeye	Alaska	Western	KRAA
AK20-27	D	2020	2021	Sockeye	Alaska	Western	KRAA
AK20-28	D	2020	2022	Sockeye	Alaska	Western	KRAA
AK20-29	D	2020	2022	Sockeye	Alaska	Western	KRAA

ID#	FACILITY	STOCK	STAGE	ESIMATED RELEASE	HATCH CODE	MARK NAME
AK20-01	Gulkana	Gulkana R	Emergent Fry	22,000,000	HS1	GULKANA20
AK20-02	Trail Lakes	Bear Lk	Emergent Fry	2,400,000	3,3H	TRAILLAKES20A
AK20-03	Main Bay	Main Bay H	Smolt	2,380,000	5H3	MBH20A
AK20-04	Main Bay	Main Bay H	Smolt	2,380,000	5H2,2	MBH20B
AK20-05	Main Bay	Main Bay H	Smolt	2,380,000	5H5	MBH20C
AK20-06	Main Bay	Main Bay H	Smolt	2,380,000	5H3,3	MBH20D
AK20-07	Main Bay	Main Bay H	Smolt	2,380,000	5H	MBH20E
AK20-08	Trail Lakes	English Bay Lk	Emergent Fry	1,125,000	2,2H	LEISURE20
AK20-09	Trail Lakes	English Bay Lk	Emergent Fry	1,125,000	6H4	KIRSCHNER20
AK20-10	Trail Lakes	Hazel Lk	Fed Fry	1,250,000	3,3H3	HAZEL20
AK20-11	Snettisham	S-Tatsamenie Lk	Emergent Fry	800,000	3n,5H	TATSAMENIE20
AK20-12	Snettisham	King Salmon R	Emergent Fry	1,000,000	4,2,3H	KINGSALMON20
AK20-13	Snettisham	Snettisham H	Smolt	8,000,000	3,3,3nH	SPEELARM20A
AK20-14	Trail Lakes	Bear Lk	Smolt	1,450,000	1,3H	TRAILLAKES20B
AK20-15	Trail Lakes	Bear Lk	Smolt	500,000	6n,4H	TRAILLAKES20C
AK20-16	Trail Lakes	Hidden Lk	Emergent Fry	1,000,000	2,1,2H	HIDDENLAKE20
AK20-17	Trail Lakes	Shell Lk	Smolt	250,000	4,4,2H	SHELLLAKE20
AK20-18	Snettisham	Snettisham H	Smolt	1,000,000	3n,4,3H	SPEELARM20B
AK20-19	Snettisham	S-Tahltan Lk	Emergent Fry	2,000,000	6H	TAHLTAN20
AK20-20	Trail Lakes	English Bay Lk	Emergent Fry	530,000	4,2H	TUTKA20
AK20-21	Snettisham	S-Tatsamenie Lk	Fingerling	200,000	6,2H	TATSAMENIE20ER
AK20-22	Snettisham	S-Tatsamenie Lk	Fingerling	200,000	7H	TATSAMENIE20ERB
AK20-23	Snettisham	Snettisham H	Emergent Fry	500,000	5,2H	SWEETHEART20
AK20-24	Snettisham	Snettisham H	Smolt	1,000,000	4n,4H	SPEELARM20C
AK20-25	Snettisham	Snettisham H	Smolt	1,000,000	5,4nH	SPEELARM20D
AK20-26	Pillar Creek	Saltery Cr	Emergent Fry	1,600,000	3,3,3H	KODIAK20
AK20-27	Pillar Creek	Saltery Cr	Emergent Fry	400,000	4,6H	KODIAK20B
AK20-28	Pillar Creek	Saltery Cr	Smolt	650,000	4,4H	KODIAK20A
AK20-29	Kitoi Bay	Kitoi bay	Smolt	850,000	5,4H	KITOI20

Table 1 (continued). Summary of thermal mark codes to be applied to Alaska hatchery salmon in brood year 2020.

SPECIES: PINK

ID#	MARK TYPE	BROOD YEAR	RELEASE YEAR	SPECIES	STATE/ PROVINCE	REGION RELEASE	AGENCY
AK20-30	T	2020	2021	Pink	Alaska	Southcentral	PWSAC
AK20-31	T	2020	2021	Pink	Alaska	Southcentral	PWSAC
AK20-32	T	2020	2021	Pink	Alaska	Southcentral	PWSAC
AK20-33	T	2020	2021	Pink	Alaska	Southeast	SSSC
AK20-34	T	2020	2021	Pink	Alaska	Southeast	AKI
AK20-35	T	2020	2021	Pink	Alaska	Southeast	AKI
AK20-36	T	2020	2021	Pink	Alaska	Southcentral	VFDA
AK20-37	T	2020	2021	Pink	Alaska	Southcentral	PWSAC
AK20-38	T	2020	2021	Pink	Alaska	Southcentral	PWSAC
AK20-39	T	2020	2021	Pink	Alaska	Southcentral	CIAA
AK20-40	T	2020	2021	Pink	Alaska	Southcentral	CIAA
AK20-41	T	2020	2021	Pink	Alaska	Southcentral	CIAA
AK20-42	T	2020	2021	Pink	Alaska	Southcentral	CIAA
AK20-43	T	2020	2021	Pink	Alaska	Southcentral	CIAA
AK20-44	N	2020	2021	Pink	Alaska	Western	KRAA
AK20-45	T	2020	2021	Pink	Alaska	Southeast	MIC

ID#	FACILITY	STOCK	STAGE	ESIMATED RELEASE	HATCH CODE	MARK NAME
AK20-30	A F Koernig	A F Koernig H	Fed Fry	90,000,000	4H3	AFK20A
AK20-31	A F Koernig	A F Koernig H	Fed Fry	90,000,000	4H	AFK20B
AK20-32	Wally Noerenberg	Wally Noerenberg	Fed Fry	70,000,000	8H	WNH20PINKB
AK20-33	Sheldon Jackson	Indian R	Fed Fry	100,000	4,1H	SJ20PINK
AK20-34	Port Armstrong	Port Armstrong H	Fed Fry	20,000,000	3H	PORTARMSTRONG20COHO
AK20-35	Port Armstrong	Port Armstrong H	Fed Fry	20,000,000	3H4	PORTARMSTRONG20A
AK20-36	Solomon Gulch	Solomon Gulch H	Fed Fry	200,000,000	6H	SGH20
AK20-37	Cannery Creek	Cannery Cr	Fed Fry	140,000,000	3,3H	CCH20
AK20-38	Wally Noerenberg	Wally Noerenberg	Fed Fry	120,000,000	8H3	WNH20PINKA
AK20-39	Tutka Bay	English Bay Lk	Fed Fry	35,000,000	6,3H	TUTKA20PINK
AK20-40	Tutka Bay	English Bay Lk	Fed Fry	35,000,000	3,6H	TUTKA20PINKA
AK20-41	Tutka Bay	English Bay Lk	Fed Fry	28,500,000	4,3H	TUTKA20PINKB
AK20-42	Port Graham	Port Graham H	Fed Fry	65,000,000	5H3	PORTGRAHAM20
AK20-43	Port Graham	Bruin Bay	Fed Fry	400,000	5H5	PORTGRAHAM20A
AK20-44	Kitoi Bay	Big Kitoi Cr	Fed Fry	190,000,000	2,3H	KITOI20PINK
AK20-45	Tamgas Creek	Carroll R	Fed Fry	7,600,000	5,3H	TAMGASPINK20

Table 1 (continued). Summary of thermal mark codes to be applied to Alaska hatchery salmon in brood year 2020.

SPECIES: CHUM

ID#	MARK TYPE	BROOD YEAR	RELEASE YEAR	SPECIES	STATE/ PROVINCE	REGION RELEASE	AGENCY
AK20-46	T	2020	2021	Chum	Alaska	Southeast	SSSC
AK20-47	T	2020	2021	Chum	Alaska	Southeast	AKI
AK20-48	T	2020	2021	Chum	Alaska	Southeast	AKI
AK20-49	T	2020	2021	Chum	Alaska	Southeast	NSRAA
AK20-50	T	2020	2021	Chum	Alaska	Southeast	NSRAA
AK20-51	T	2020	2021	Chum	Alaska	Southcentral	PWSAC
AK20-52	T	2020	2021	Chum	Alaska	Southeast	NSRAA
AK20-53	T	2020	2021	Chum	Alaska	Southeast	NSRAA
AK20-54	T	2020	2021	Chum	Alaska	Southeast	NSRAA
AK20-55	T	2020	2021	Chum	Alaska	Southcentral	PWSAC
AK20-56	T	2020	2021	Chum	Alaska	Southeast	DIPAC
AK20-57	T	2020	2021	Chum	Alaska	Southeast	DIPAC
AK20-58	T	2020	2021	Chum	Alaska	Southcentral	PWSAC
AK20-59	T	2020	2021	Chum	Alaska	Southcentral	PWSAC
AK20-60	T	2020	2021	Chum	Alaska	Southeast	NSRAA
AK20-61	T	2020	2021	Chum	Alaska	Southeast	NSRAA
AK20-62	T	2020	2021	Chum	Alaska	Southeast	NSRAA
AK20-63	T	2020	2021	Chum	Alaska	Southeast	NSRAA
AK20-64	T	2020	2021	Chum	Alaska	Southeast	NSRAA
AK20-65	T	2020	2021	Chum	Alaska	Southeast	NSRAA
AK20-66	T	2020	2021	Chum	Alaska	Southeast	NSRAA
AK20-67	T	2020	2021	Chum	Alaska	Southeast	NSRAA
AK20-68	T	2020	2021	Chum	Alaska	Southeast	NSRAA
AK20-69	T	2020	2021	Chum	Alaska	Southeast	NSRAA
AK20-70	T	2020	2021	Chum	Alaska	Southeast	NSRAA
AK20-71	T	2020	2021	Chum	Alaska	Southeast	NSRAA
AK20-72	T	2020	2021	Chum	Alaska	Southeast	NSRAA
AK20-73	T	2020	2021	Chum	Alaska	Southeast	SSRAA
AK20-74	T	2020	2021	Chum	Alaska	Southeast	SSRAA
AK20-75	T	2020	2021	Chum	Alaska	Southeast	SSRAA
AK20-76	T	2020	2021	Chum	Alaska	Southeast	SSRAA
AK20-77	T	2020	2021	Chum	Alaska	Southeast	SSRAA
AK20-78	T	2020	2021	Chum	Alaska	Southeast	SSRAA
AK20-79	T	2020	2021	Chum	Alaska	Southeast	SSRAA
AK20-80	T	2020	2021	Chum	Alaska	Southeast	SSRAA
AK20-81	T	2020	2021	Chum	Alaska	Southeast	SSRAA
AK20-82	T	2020	2021	Chum	Alaska	Southeast	SSRAA
AK20-83	T	2020	2021	Chum	Alaska	Southeast	SSRAA
AK20-84	T	2020	2021	Chum	Alaska	Southeast	SSRAA
AK20-85	T	2020	2021	Chum	Alaska	Southeast	SSRAA
AK20-86	T	2020	2021	Chum	Alaska	Western	NSEDC
AK20-87	T	2020	2021	Chum	Alaska	Western	NSEDC
AK20-88	T	2020	2021	Chum	Alaska	Western	KRAA
AK20-89	T	2020	2021	Chum	Alaska	Western	KRAA
AK20-90	D	2020	2021	Chum	Alaska	Southeast	MIC
AK20-91	T	2020	2021	Chum	Alaska	Southeast	MIC

ID#	FACILITY	STOCK	STAGE	ESIMATED RELEASE	HATCH CODE	MARK NAME
AK20-46	Sheldon Jackson	Indian R	Fed Fry	100,000	6,1H	SJ20CHUM
AK20-47	Port Armstrong	Port Armstrong H	Fed Fry	30,000,000	3H3	PORTARMSTRONG20CHUM
AK20-48	Port Armstrong	Port Armstrong H	Fed Fry	20,000,000	6,4H3	PORTARMSTRONG20CHUMLL
AK20-49	Sawmill Creek	Medvejie H	Fed Fry	20,600,000	3,3,3H4	DEEPINLETMV20
AK20-50	Medvejie	Medvejie H	Fed Fry	17,900,000	6,3,2H	DEEPINLETMV20LL
AK20-51	Wally Noerenberg	Wally Noerenberg	Fed Fry	58,200,000	4,3nH	WNH20A
AK20-52	Hidden Falls	Hidden Falls H	Fed Fry	25,400,000	3,2n,2nH	HIDDENFALLS20CHIN
AK20-53	Hidden Falls	Hidden Falls H	Fed Fry	25,400,000	3,2n,2nH3	HIDDENFALLS20B
AK20-54	Medvejie	Medvejie H	Fed Fry	3,700,000	5n,4H	BEARCOVE20LL
AK20-55	Wally Noerenberg	Wally Noerenberg	Fed Fry	15,000,000	2,4H	WNH20B
AK20-56	Macaulay	Macaulay H	Fed Fry	66,000,000	4H	DIPAC20
AK20-57	Macaulay	Macaulay H	Fed Fry	51,000,000	4H4	DIPAC20B
AK20-58	Wally Noerenberg	Wally Noerenberg	Fed Fry	25,000,000	1,3n,2H	WNH20C
AK20-59	Wally Noerenberg	Wally Noerenberg	Fed Fry	17,900,000	3,3,4H	WNH20D
AK20-60	Hidden Falls	Hidden Falls H	Fed Fry	22,700,000	7,3H	SECOVE20
AK20-61	Hidden Falls	Hidden Falls H	Fed Fry	18,100,000	4,3,3H	SECOVE20LL
AK20-62	Hidden Falls	Hidden Falls H	Fed Fry	13,600,000	5,5H	THOMASBAY20
AK20-63	Hidden Falls	Hidden Falls H	Fed Fry	9,100,000	5,5H3	THOMASBAY20LL
AK20-64	Hidden Falls	Hidden Falls H	Fed Fry	9,100,000	6,5nH	GUNNUKCREEK20
AK20-65	Hidden Falls	Hidden Falls H	Fed Fry	9,100,000	3,6H3	GUNNUKCREEK20LL
AK20-66	Sawmill Creek	Medvejie H	Fed Fry	13,700,000	3,6H	CRAWFISH20
AK20-67	Sawmill Creek	Medvejie H	Fed Fry	13,700,000	4,7H	CRAWFISH20LL
AK20-68	Medvejie	Hidden Falls H	Fed Fry	16,400,000	4n,3,2nH	DEEPINLETHF20
AK20-69	Medvejie	Hidden Falls H	Fed Fry	5,600,000	2,3,4nH	DEEPINLETHF20LL
AK20-70	Medvejie	Hidden Falls H	Fed Fry	11,000,000	4,3H4	BEARCOVEHF20
AK20-71	Medvejie	Hidden Falls H	Fed Fry	7,300,000	4,3H	BEARCOVEHF20LL
AK20-72	Medvejie	Medvejie H	Fed Fry	14,700,000	4,2,2H	BEARCOVE20
AK20-73	Neets Bay	Neets Bay H	Fed Fry	20,000,000	3,2,4H	ANITABAY20
AK20-74	Whitman Lake	Neets Bay H	Fed Fry	26,000,000	6,2H	KENDRICK20
AK20-75	Whitman Lake	Neets Bay H	Fed Fry	4,000,000	3n,4,4nH	KENDRICK20LL
AK20-76	Neets Bay	Neets Bay H	Fed Fry	50,000,000	4,4H4	NEETSBAY20SUM
AK20-77	Neets Bay	Neets Bay H	Fed Fry	10,000,000	6,4H4	NEETSBAY20SUMLL
AK20-78	Neets Bay	Neets Bay H	Fed Fry	5,000,000	7,4H	BURNETTINLET20FALL
AK20-79	Neets Bay	Neets Bay H	Fed Fry	20,000,000	4,2,2H4	NEETSBAY20FALL
AK20-80	Neets Bay	Neets Bay H	Fed Fry	8,000,000	3,2,3H	NAKATINLET20SUM
AK20-81	Neets Bay	Neets Bay H	Fed Fry	2,000,000	4,1,2,1H	ANITABAYLL20
AK20-82	Neets Bay	Neets Bay H	Fed Fry	8,000,000	3,4,1H4	NAKATINLET20FALL
AK20-83	Neets Bay	Neets Bay H	Fed Fry	6,000,000	4,5H	BURNETTINLET20FALL
AK20-84	Neets Bay	Neets Bay H	Smolt	18,000,000	6H4	PORTASUMCION20
AK20-85	Neets Bay	Neets Bay H	Fed Fry	9,000,000	3,6,2H	MCLEAN20
AK20-86	Norton Sound Hatchery	Solomon R	Emergent Fry	160,000	1,4H	NORTON20CHUM
AK20-87	Norton Sound Hatchery	Snake R	Eyed Egg	160,000	6H3	NORTON20CHUMB
AK20-88	Kitoi Bay	Sturgeon R	Fed Fry	15,000,000	3n,2H	KITOI20CHUM
AK20-89	Kitoi Bay	Sturgeon R	Fed Fry	15,000,000	4,4,2H	KITOI20CHUMA
AK20-90	Tamgas Creek	Carroll R	Fed Fry	10,000,000	3H4	TAMGAS20
AK20-91	Tamgas Creek	Carroll R	Fed Fry	70,400,000	8H	CHESTER20

Table 1 (continued). Summary of thermal mark codes to be applied to Alaska hatchery salmon in brood year 2020.

SPECIES: COHO

ID#	MARK TYPE	BROOD YEAR	RELEASE YEAR	SPECIES	STATE/ PROVINCE	REGION RELEASE	AGENCY
AK20-92	T	2020	2022	Coho	Alaska	Southcentral	PWSAC
AK20-93	T	2020	2022	Coho	Alaska	Southcentral	PWSAC
AK20-94	T	2020	2021	Coho	Alaska	Southcentral	CIAA
AK20-95	T	2020	2022	Coho	Alaska	Southcentral	CIAA
AK20-96	T	2020	2022	Coho	Alaska	Southcentral	ADFG
AK20-97	T	2020	2022	Coho	Alaska	Southcentral	VFDA
AK20-98	T	2020	2022	Coho	Alaska	Southcentral	ADFG
AK20-99	T	2020	2022	Coho	Alaska	Southeast	NSRAA
AK20-100	T	2020	2022	Coho	Alaska	Southeast	NSRAA
AK20-101	T	2020	2022	Coho	Alaska	Southeast	SSRAA
AK20-102	T	2020	2021	Coho	Alaska	Western	NSEDC
AK20-103	T	2020	2022	Coho	Alaska	Southeast	SSRAA
AK20-104	D	2020	2022	Coho	Alaska	Western	KRAA
AK20-105	D	2020	2021	Coho	Alaska	Western	KRAA
AK20-106	T	2020	2022	Coho	Alaska	Southeast	SSSC
AK20-107	T	2020	2021	Coho	Alaska	Western	NVWM
AK20-108	T	2020	2021	Coho	Alaska	Southeast	MIC
AK20-109	T	2020	2021	Coho	Alaska	Southeast	MIC
AK20-110	T	2020	2021	Coho	Alaska	Southeast	MIC
AK20-111	T	2020	2021	Coho	Alaska	Southeast	AKI
AK20-112	T	2020	2021	Coho	Alaska	Southcentral	ADFG
AK20-113	T	2020	2021	Coho	Alaska	Southcentral	ADFG
AK20-114	T	2020	2021	Coho	Alaska	Southcentral	ADFG

ID#	FACILITY	STOCK	STAGE	ESIMATED RELEASE	HATCH CODE	MARK NAME
AK20-92	Wally Noerenberg	Wally Noerenberg	Smolt	1,000,000	3H	WNH20COHO
AK20-93	Wally Noerenberg	Corbin Cr	Smolt	3,500,000	3H3	WNH20COHOA
AK20-94	Trail Lakes	Bear Lk	Emergent Fry	55,000	2,6H	TRAILLAKES20SMCOHO
AK20-95	Trail Lakes	Bear Lk	Smolt	450,000	4,4H	BEARLAKE20COHO
AK20-96	William J Hernandez	Ship Cr	Smolt	655,000	1,5H	COOKINLET20COHO
AK20-97	Solomon Gulch	Solomon Gulch H	Smolt	1,950,000	7H	SGH20COHO
AK20-98	William J Hernandez	Bear Lk	Smolt	240,000	2,4H	RESURRECTION20COHO
AK20-99	Medveje	Salmon Lk	Smolt	200,000	4,2,2H	MEDVEJE20COHO
AK20-100	Sawmill Creek	Salmon Lk	Smolt	1,800,000	4H	DEEPINLET20COHO
AK20-101	Klawock	Klawock Lk	Smolt	400000	4,2H	KLA WOCK20COHO
AK20-102	Norton Sound	Snake R	Eyed Egg	200,000	2,3H	NORTON20COHO
AK20-103	Neets Bay	Neets Bay H	Smolt	600,000	2,5H	NAKAT20COHO
AK20-104	Pillar Creek	Buskin R	Smolt	275,000	5H	PILLAR20COHO
AK20-105	Kitoi Bay	Kitoi bay	Fed Fry	500,000	2,2H	KITOIBAY20
AK20-106	Sheldon Jackson	Indian R	Smolt	250,000	6,3H	SJ20COHO
AK20-107	Village of White Mountain	Fish R	Eyed Egg	20,000	3,3H	OPHIR20
AK20-108	Tamgas Creek	Carroll R	Smolt	1,295,000	3,5H	TAMGASCOHO20
AK20-109	Tamgas Creek	Carroll R	Smolt	1,160,000	8H	TENT20
AK20-110	Tamgas Creek	Carroll R	Smolt	3,222,000	5,3H	MELANSON20
AK20-111	Port Armstrong	Port Armstrong H	Fed Fry	500,000	4H4	PORTARMSTRONG20COHO
AK20-112	Ruth Burnett	Ship Cr	Fingerling	25,000	6H	DIPLOIDCLEARWATER20COHO
AK20-113	Ruth Burnett	Ship Cr	Fingerling	25,000	1,4H	TRIPLOIDCLEARWATER20COHO
AK20-114	Ruth Burnett	Ship Cr	Fingerling	25,000	1,3H	TRIPLOIDSHIP20COHO

Table 1 (continued). Summary of thermal mark codes to be applied to Alaska hatchery salmon in brood year 2020.

SPECIES: CHINOOK

ID#	MARK TYPE	BROOD YEAR	RELEASE YEAR	SPECIES	STATE/ PROVINCE	REGION RELEASE	AGENCY
AK20-115	T	2020	2022	Chinook	Alaska	Southeast	NSRAA
AK20-116	T	2020	2022	Chinook	Alaska	Southeast	SSRAA
AK20-117	T	2020	2022	Chinook	Alaska	Southeast	NSRAA
AK20-118	T	2020	2021	Chinook	Alaska	Southcentral	ADFG
AK20-119	T	2020	2021	Chinook	Alaska	Southcentral	ADFG
AK20-120	T	2020	2021	Chinook	Alaska	Southcentral	ADFG
AK20-121	T	2020	2021	Chinook	Alaska	Southcentral	ADFG
AK20-122	T	2020	2021	Chinook	Alaska	Southcentral	ADFG
AK20-123	T	2020	2021	Chinook	Alaska	Southcentral	ADFG
AK20-124	T	2020	2021	Chinook	Alaska	Western	NSEDC
AK20-125	T	2020	2022	Chinook	Alaska	Southeast	SSRAA

ID#	FACILITY	STOCK	STAGE	ESIMATED RELEASE	HATCH CODE	MARK NAME
AK20-115	Hidden Falls	Hidden Falls H	Smolt	650,000	4,2H	HIDDENFALLS20CHIN
AK20-116	Whitman Lake	Whitman Lake H	Smolt	1,475,000	1,5H	WHITMAN20CHIN
AK20-117	Medvejie	Medvejie H	Smolt	3,000,000	4,1H	MEDVEJIE20CHIN
AK20-118	William J Hernandez	Cook Inlet	Smolt	1,196,500	2,3H	COOKINLET20CHIN
AK20-119	William J Hernandez	Cook Inlet	Smolt	150,000	4H4	NINILCHIK20CHIN
AK20-120	William J Hernandez	Ship Cr	Smolt	210,000	2,3H3,3	SHIPCREEK20CHINS
AK20-121	William J Hernandez	Ship Cr	Smolt	165,000	2,3H2,2	SHIPCREEK20CHINL
AK20-122	William J Hernandez	Ship Cr	Smolt	210,000	2,4H	PWS20CHIN
AK20-123	William J Hernandez	Crooked Cr	Smolt	315,000	2,5H	RESURRECTION20CHIN
AK20-124	Norton Sound	Unalakleet R	Eyed Egg	240,000	3,1H	SOUTHRIVER20
AK20-125	Crystal Lake	Crystal Cr	Smolt	1,500,000	5,3H	CRYSTAL20CHIN