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**Proposed Thermal Marks for Brood Year 2017 Salmon in Alaska**

by

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# **Proposed Thermal Marks for Brood Year 2017 Salmon in Alaska**

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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 2017, approximately 65 million sockeye, 942 million pink salmon, 740 million chum, 13 million Coho, and 9 million Chinook salmon will be marked at 26 different hatcheries using 101 thermal marks, three 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 2017 brood year stocks**

The proposed thermal marks for brood year 2017 salmon are listed in Table 1. We plan to mark approximately 65 million sockeye, 942 million pink salmon, 740 million chum, 13 million Coho, and 9 million Chinook salmon at 26 different hatcheries using 101 thermal marks, three dry marks, and one strontium mark.

The proposed otolith plan includes scheduled changes. Some marks (mostly those applied to pink salmon) are on an every other year cycle, while others rotate on a three-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 2017.

**SPECIES: SOCKEYE**

ID#	MARK TYPE	BROOD YEAR	RELEASE YEAR	SPECIES	STATE/ PROVINCE	REGION RELEASE	AGENCY	FACILITY
AK17-01	S	2017	2018	Sockeye	Alaska	Southcentral	PWSA	Gulkana
AK17-02	T	2017	2018	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes
AK17-03	T	2017	2019	Sockeye	Alaska	Southcentral	PWSA	Main Bay
AK17-04	T	2017	2019	Sockeye	Alaska	Southcentral	PWSA	Main Bay
AK17-05	T	2017	2019	Sockeye	Alaska	Southcentral	PWSA	Main Bay
AK17-06	T	2017	2019	Sockeye	Alaska	Southcentral	PWSA	Main Bay
AK17-07	T	2017	2019	Sockeye	Alaska	Southcentral	PWSA	Main Bay
AK17-08	T	2017	2018	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes
AK17-09	T	2017	2018	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes
AK17-10	T	2017	2019	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes
AK17-11	T	2017	2018	Sockeye	Alaska	Southeast	DIPC	Snettisham
AK17-12	T	2017	2018	Sockeye	Alaska	Southeast	DIPC	Snettisham
AK17-13	T	2017	2018	Sockeye	Alaska	Southeast	DIPC	Snettisham
AK17-14	T	2017	2019	Sockeye	Alaska	Southeast	DIPC	Snettisham
AK17-15	T	2017	2019	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes
AK17-16	T	2017	2019	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes
AK17-17	T	2017	2018	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes
AK17-18	T	2017	2018	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes
AK17-19	T	2017	2019	Sockeye	Alaska	Southeast	DIPC	Snettisham
AK17-20	T	2017	2018	Sockeye	Alaska	Southeast	DIPC	Snettisham
AK17-21	T	2017	2018	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes
AK17-22	T	2017	2018	Sockeye	Alaska	Southeast	DIPC	Snettisham
AK17-23	T	2017	2018	Sockeye	Alaska	Southeast	DIPC	Snettisham
AK17-24	T	2017	2019	Sockeye	Alaska	Southeast	DIPC	Snettisham
AK17-25	T	2017	2019	Sockeye	Alaska	Southeast	DIPC	Snettisham
AK17-26	D	2017	2018	Sockeye	Alaska	Western	KRAA	Pillar Creek
AK17-27	D	2017	2018	Sockeye	Alaska	Western	KRAA	Pillar Creek
AK17-28	D	2017	2018	Sockeye	Alaska	Western	KRAA	Kitoy Bay

ID#	MARK NAME	STOCK	STAGE	ESIMATED RELEASE	HATCH CODE	PRE-HATCH GRAPHIC	POST-HATCH GRAPHIC
AK17-01	GULKANA17	Gulkana	Emergent Fry	22,000,000	HS1		
AK17-02	TRAILLAKES17A	Bear Lk	Emergent Fry	2,400,000	3,2H		
AK17-03	MBH17A	Main Bay	Smolt	2,380,000	5H3		
AK17-04	MBH17B	Main Bay	Smolt	2,380,000	5H2,2		
AK17-05	MBH17C	Main Bay	Smolt	2,380,000	5H5		
AK17-06	MBH17D	Main Bay	Smolt	2,380,000	5H3,3		
AK17-07	MBH17E	Main Bay	Smolt	2,380,000	5H		
AK17-08	PENINSULA17SOCKEYE	English Bay Lk	Emergent Fry	2,250,000	2,2H		
AK17-09	HAZEL17	Hazel Lk	Fed Fry	1,250,000	3,3H3		
AK17-10	BRADLEYPONDS17	English Bay Lk	Smolt	185,000	7H		
AK17-11	TATSAMENIE17	S-Tatsamenie Lk	Emergent Fry	800,000	3n,5H		
AK17-12	TUYA17	S-Tahltan Lk	Emergent Fry	1,200,000	6H		
AK17-13	TRAPPER17	S-L TRAPPER LK	Emergent Fry	700,000	4,2,3H		
AK17-14	SPEELARM17A	Snettisham	Smolt	8,000,000	5H		
AK17-15	TRAILLAKES17B	Bear Lk	Smolt	1,450,000	1,3H		
AK17-16	TRAILLAKES17C	Bear Lk	Smolt	500,000	6n,4H		
AK17-17	HIDDENLAKE17	Hidden Lk	Emergent Fry	1,000,000	2,1,2H		
AK17-18	SHELLLAKE17	Shell Lk	Fed Fry	250,000	4,4,2H		
AK17-19	SPEELARM17B	Snettisham	Smolt	1,000,000	3n,4,3H		
AK17-20	TAHLTAN17	S-Tahltan Lk	Emergent Fry	2,000,000	3,2n,2H		
AK17-21	TUTKA17	English Bay Lk	Emergent Fry	530,000	4,2H		
AK17-22	TATSAMENIE17ER	S-Tatsamenie Lk	Fingerling	200,000	6,2H		
AK17-23	SWEETHEART17	Snettisham	Emergent Fry	500,000	5,2H		
AK17-24	SPEELARM17C	Snettisham	Smolt	1,000,000	4n,4H		
AK17-25	SPEELARM17D	Snettisham	Smolt	1,000,000	5,4nH		
AK17-26	KODIAK17	Saltery	Smolt	2,000,000	3,3,3H		
AK17-27	KODIAK17A	Saltery	Smolt	650,000	4,4H		
AK17-28	KITOI17	Kitoy bay	Smolt	850,000	5,4H		

Table 1 (continued). Summary of thermal mark codes to be applied to Alaska hatchery salmon in brood year 2017.

SPECIES: PINK

ID#	MARK TYPE	BROOD YEAR	RELEASE YEAR	SPECIES	STATE/ PROVINCE	REGION RELEASE	AGENCY	FACILITY
AK17-29	T	2017	2018	Pink	Alaska	Southcentral	PWSA	A F Koernig
AK17-30	T	2017	2018	Pink	Alaska	Southcentral	PWSA	A F Koernig
AK17-31	T	2017	2018	Pink	Alaska	Southcentral	PWSA	Wally Noerenberg
AK17-32	T	2017	2018	Pink	Alaska	Southeast	SJ	Sheldon Jackson
AK17-33	T	2017	2018	Pink	Alaska	Southeast	AKI	Port Armstrong
AK17-34	T	2017	2018	Pink	Alaska	Southeast	AKI	Port Armstrong
AK17-35	T	2017	2018	Pink	Alaska	Southeast	AKI	Port Armstrong
AK17-36	T	2017	2018	Pink	Alaska	Southeast	AKI	Port Armstrong
AK17-37	T	2017	2018	Pink	Alaska	Southeast	AKI	Port Armstrong
AK17-38	T	2017	2018	Pink	Alaska	Southcentral	VFDA	Solomon Gulch
AK17-39	T	2017	2018	Pink	Alaska	Southcentral	PWSA	Cannery Creek
AK17-40	T	2017	2018	Pink	Alaska	Southcentral	PWSA	Wally Noerenberg
AK17-41	T	2017	2018	Pink	Alaska	Southcentral	CIAA	Tutka Bay
AK17-42	T	2017	2018	Pink	Alaska	Southcentral	CIAA	Tutka Bay
AK17-43	T	2017	2018	Pink	Alaska	Southcentral	CIAA	Port Graham

ID#	MARK NAME	STOCK	STAGE	ESIMATED RELEASE	HATCH CODE	PRE-HATCH GRAPHIC	POST-HATCH GRAPHIC
AK17-29	AFK17A	A F Koernig	Fed Fry	90,000,000	4H3		
AK17-30	AFK17B	A F Koernig	Fed Fry	90,000,000	4H		
AK17-31	WNH17PINKB	Wally Noerenberg	Fed Fry	70,000,000	8H		
AK17-32	SJ17PINK	Indian R	Fed Fry	100,000	4,1H		
AK17-33	PORTARMSTRONG17	Port Armstrong	Fed Fry	26,000,000	3H		
AK17-34	PORTARMSTRONG17A	Port Armstrong	Fed Fry	8,400,000	3H4		
AK17-35	PORTARMSTRONG17B	Port Armstrong	Fed Fry	5,100,000	3H3		
AK17-36	PORTARMSTRONG17C	Port Armstrong	Fed Fry	8,400,000	3H5		
AK17-37	PORTARMSTRONG17D	Port Armstrong	Fed Fry	5,100,000	3H6		
AK17-38	SGH17	Solomon Gulch	Fed Fry	200,000,000	6H		
AK17-39	CCH17	Cannery Cr	Fed Fry	140,000,000	3,3H		
AK17-40	WNH17PINKA	Wally Noerenberg	Fed Fry	120,000,000	8H3		
AK17-41	TUTKA17PINK	English Bay Lk	Fed Fry	100,000,000	5,3H		
AK17-42	TUTKA17PINKA	English Bay Lk	Fed Fry	14,000,000	4,4H		
AK17-43	PORTGRAHAM17	Port Graham	Fed Fry	65,000,000	5H3		

Table 1 (continued). Summary of thermal mark codes to be applied to Alaska hatchery salmon in brood year 2017.

SPECIES: CHUM

ID#	MARK TYPE	BROOD YEAR	RELEASE YEAR	SPECIES	STATE/ PROVINCE	REGION RELEASE	AGENCY	FACILITY
AK17-44	T	2017	2018	Chum	Alaska	Southeast	SJ	Sheldon Jackson
AK17-45	T	2017	2018	Chum	Alaska	Southeast	AKI	Port Armstrong
AK17-46	T	2017	2018	Chum	Alaska	Southeast	AKI	Port Armstrong
AK17-47	T	2017	2018	Chum	Alaska	Southeast	NSRA	Medvejie
AK17-48	T	2017	2018	Chum	Alaska	Southeast	NSRA	Medvejie
AK17-49	T	2017	2018	Chum	Alaska	Southcentral	PWSA	Wally Noerenberg
AK17-50	T	2017	2018	Chum	Alaska	Southeast	NSRA	Medvejie
AK17-51	T	2017	2018	Chum	Alaska	Southeast	NSRA	Hidden Falls
AK17-52	T	2017	2018	Chum	Alaska	Southeast	NSRA	Hidden Falls
AK17-53	T	2017	2018	Chum	Alaska	Southeast	NSRA	Medvejie
AK17-54	T	2017	2018	Chum	Alaska	Southeast	NSRA	Medvejie
AK17-55	T	2017	2018	Chum	Alaska	Southcentral	PWSA	Wally Noerenberg
AK17-56	T	2017	2018	Chum	Alaska	Southeast	DIPC	Macaulay
AK17-57	T	2017	2018	Chum	Alaska	Southeast	DIPC	Macaulay
AK17-58	T	2017	2018	Chum	Alaska	Southeast	DIPC	Macaulay
AK17-59	T	2017	2018	Chum	Alaska	Southcentral	PWSA	Wally Noerenberg
AK17-60	T	2017	2018	Chum	Alaska	Southeast	NSRA	Hidden Falls
AK17-61	T	2017	2018	Chum	Alaska	Southeast	NSRA	Hidden Falls
AK17-62	T	2017	2018	Chum	Alaska	Southeast	NSRA	Hidden Falls
AK17-63	T	2017	2018	Chum	Alaska	Southeast	NSRA	Hidden Falls
AK17-64	T	2017	2018	Chum	Alaska	Southeast	NSRA	Medvejie
AK17-65	T	2017	2018	Chum	Alaska	Southeast	NSRA	Medvejie
AK17-66	T	2017	2018	Chum	Alaska	Southeast	SSRA	Neets Bay
AK17-67	T	2017	2018	Chum	Alaska	Southeast	SSRA	Neets Bay
AK17-68	T	2017	2018	Chum	Alaska	Southeast	SSRA	Neets Bay
AK17-69	T	2017	2018	Chum	Alaska	Southeast	SSRA	Neets Bay
AK17-70	T	2017	2018	Chum	Alaska	Southeast	SSRA	Neets Bay
AK17-71	T	2017	2018	Chum	Alaska	Southeast	SSRA	Neets Bay
AK17-72	T	2017	2018	Chum	Alaska	Southeast	SSRA	Neets Bay
AK17-73	T	2017	2018	Chum	Alaska	Southeast	SSRA	Neets Bay
AK17-74	T	2017	2018	Chum	Alaska	Southeast	SSRA	Neets Bay
AK17-75	T	2017	2018	Chum	Alaska	Southeast	SSRA	Neets Bay
AK17-76	T	2017	2018	Chum	Alaska	Western	NSED	Norton Sound Hatchery
AK17-77	T	2017	2018	Chum	Alaska	Western	NSED	Norton Sound Hatchery
AK17-78	T	2017	2018	Chum	Alaska	Western	KRAA	Kitoi Bay
AK17-79	T	2017	2018	Chum	Alaska	Western	KRAA	Kitoi Bay
AK17-80	T	2017	2018	Chum	Alaska	Southeast	MIC	Tamgas Creek

ID#	MARK NAME	STOCK	STAGE	ESIMATED RELEASE	HATCH CODE	PRE-HATCH GRAPHIC	POST-HATCH GRAPHIC
AK17-44	SJ17CHUM	Indian R	Fed Fry	100,000	6,1H		
AK17-45	PORTARMSTRONG17CHUM	Port Armstrong	Fed Fry	30,000,000	3H3		
AK17-46	PORTARMSTRONG17CHUMA	Port Armstrong	Fed Fry	30,000,000	7H3		
AK17-47	DEEPINLETMV17	Medvejie	Fed Fry	28,000,000	3,3,3H		
AK17-48	DEEPINLETMV17LL	Medvejie	Fed Fry	8,000,000	6,3,2H		
AK17-49	WNH17A	Wally Noerenberg	Fed Fry	75,000,000	3,4nH		
AK17-50	DEEPINLETHF17	Hidden Falls	Fed Fry	22,000,000	4n,3,2nH		
AK17-51	HIDDENFALLS17	Hidden Falls	Fed Fry	40,000,000	3,2n,2nH		
AK17-52	HIDDENFALLS17LLB	Hidden Falls	Fed Fry	10,600,000	3,2n,4nH		
AK17-53	BEARCOVE17	Medvejie	Fed Fry	14,000,000	4,2,2H		
AK17-54	BEARCOVE17LL	Medvejie	Fed Fry	6,000,000	5n,4H		
AK17-55	WNH17B	Wally Noerenberg	Fed Fry	15,000,000	1,2,3H		
AK17-56	DIPAC17	Macaulay	Fed Fry	66,000,000	4H		
AK17-57	DIPAC17B	Macaulay	Fed Fry	51,000,000	5H4		
AK17-58	PELICAN17	Macaulay	Unfed Fry	500,000	7H		
AK17-59	WNH17C	Wally Noerenberg	Fed Fry	40,000,000	1,3,3H		
AK17-60	HIDDENFALLS17B	Hidden Falls	Fed Fry	40,000,000	3,5,3H		
AK17-61	HIDDENFALLS17LL	Hidden Falls	Fed Fry	10,600,000	3,5nH		
AK17-62	SECOVE17	Hidden Falls	Fed Fry	25,000,000	7,3H		
AK17-63	SECOVE17LL	Hidden Falls	Fed Fry	30,000,000	4,3,3H		
AK17-64	CRAWFISH17	Medvejie	Fed Fry	15,000,000	3,6H		
AK17-65	CRAWFISH17LL	Medvejie	Fed Fry	15,000,000	4,7H		
AK17-66	ANITABAY17	Neets Bay	Fed Fry	20,000,000	3,2,4H		
AK17-67	KENDRICK17	Neets Bay	Fed Fry	2,000,000	6,2H		
AK17-68	KENDRICK17LL	Neets Bay	Fed Fry	2,000,000	3n,4H4		
AK17-69	NEETSBAY17SUM	Neets Bay	Fed Fry	55,000,000	4,4H4		
AK17-70	BURNETTINLET17	Neets Bay	Fed Fry	5,000,000	5,4H,3		
AK17-71	NEETSBAY17FALL	Neets Bay	Fed Fry	20,000,000	4,2,2H4		
AK17-72	NAKATINLET17SUM	Neets Bay	Fed Fry	8,000,000	3,2,3H		
AK17-73	ANITABAYLL17	Neets Bay	Fed Fry	2,000,000	4,1,2,1H		
AK17-74	NAKATINLET17FALL	Neets Bay	Fed Fry	8,000,000	3,4,1H4		
AK17-75	BURNETTINLET17FALL	Neets Bay	Fed Fry	6,000,000	4,5H		
AK17-76	NORTON17CHUM	Solomon R	Emergent Fry	160,000	1,4H		
AK17-77	NORTON17CHUMB	Snake R	Eyed Egg	160,000	7,2H		
AK17-78	KITOI17CHUM	Sturgeon R	Fed Fry	15,000,000	3n,2H		
AK17-79	KITOI17CHUMA	Sturgeon R	Fed Fry	15,000,000	3,4,2H		
AK17-80	TAMGAS17	Carroll R	Fed Fry	10,000,000	4H3		

Table 1 (continued). Summary of thermal mark codes to be applied to Alaska hatchery salmon in brood year 2017.

**SPECIES: COHO**

ID#	MARK TYPE	BROOD YEAR	RELEASE YEAR	SPECIES	STATE/ PROVINCE	REGION RELEASE	AGENCY	FACILITY
AK17-81	T	2017	2018	Coho	Alaska	Southeast	DIPC	Macaulay
AK17-82	T	2017	2018	Coho	Alaska	Southcentral	PWSA	Wally Noerenberg
AK17-83	T	2017	2018	Coho	Alaska	Southcentral	CIAA	Trail Lakes
AK17-84	T	2017	2019	Coho	Alaska	Southcentral	CIAA	Trail Lakes
AK17-85	T	2017	2019	Coho	Alaska	Southcentral	ADFG	William Jack Hernandez
AK17-86	T	2017	2019	Coho	Alaska	Southcentral	VFDA	Solomon Gulch
AK17-87	T	2017	2019	Coho	Alaska	Southcentral	ADFG	William Jack Hernandez
AK17-88	T	2017	2019	Coho	Alaska	Southeast	NSRA	Medvejie
AK17-89	T	2017	2019	Coho	Alaska	Southeast	NSRA	Sawmill Creek
AK17-90	T	2017	2019	Coho	Alaska	Southeast	SSRA	Klawock
AK17-91	T	2017	2018	Coho	Alaska	Western	NSED	Norton Sound Hatchery
AK17-92	T	2017	2018	Coho	Alaska	Southeast	SSRA	Neets Bay
AK17-93	T	2017	2018	Coho	Alaska	Western	KRAA	Pillar Creek
AK17-94	T	2017	2018	Coho	Alaska	Southeast	SJ	Sheldon Jackson

ID#	MARK NAME	STOCK	STAGE	ESIMATED RELEASE	HATCH CODE	PRE-HATCH GRAPHIC	POST-HATCH GRAPHIC
AK17-81	DAVIDSON17	Macaulay	Smolt	1,000,000	5,3H		
AK17-82	WNH17COHO	Wally Noerenberg	Smolt	1,000,000	3H		
AK17-83	TRAILLAKES17SMCOHO	Bear Lk	Emergent Fry	55,000	2,6H		
AK17-84	BEARLAKE17COHO	Bear Lk	Smolt	450,000	4,4H		
AK17-85	COOKINLET17COHO	Ship Cr	Smolt	655,000	1,5H		
AK17-86	SGH17COHO	Solomon Gulch	Smolt	1,950,000	6H		
AK17-87	RESURRECTION17COHO	Bear Lk	Smolt	240,000	2,4H		
AK17-88	MEDVEJIE17COHO	Salmon Lk	Smolt	78,000	4,2,2H		
AK17-89	DEEPINLET17COHO	Salmon Lk	Smolt	1,900,000	4H		
AK17-90	KLAWOCK17COHO	Klawock Lk	Smolt	4000000	4,2H		
AK17-91	NORTON17COHO	Snake R	Eyed Egg	200,000	2,3H		
AK17-92	NAKAT17COHO	Neets Bay	Smolt	600,000	2,5H		
AK17-93	PILLAR17COHO	Buskin R	Smolt	275,000	7H		
AK17-94	SJ17COHO	Indian R	Smolt	250,000	6,3H		

**SPECIES: CHINOOK**

ID#	MARK TYPE	BROOD YEAR	RELEASE YEAR	SPECIES	STATE/ PROVINCE	REGION RELEASE	AGENCY	FACILITY
AK17-95	T	2017	2018	Chinook	Alaska	Western	VWM	Village of White Mountain
AK17-96	T	2017	2019	Chinook	Alaska	Southeast	NSRA	Hidden Falls
AK17-97	T	2017	2019	Chinook	Alaska	Southeast	SSRA	Whitman Lake
AK17-98	T	2017	2019	Chinook	Alaska	Southeast	NSRA	Medvejie
AK17-99	T	2017	2018	Chinook	Alaska	Southcentral	ADFG	William Jack Hernandez
AK17-100	T	2017	2018	Chinook	Alaska	Southcentral	ADFG	William Jack Hernandez
AK17-101	T	2017	2018	Chinook	Alaska	Southcentral	ADFG	William Jack Hernandez
AK17-102	T	2017	2018	Chinook	Alaska	Southcentral	ADFG	William Jack Hernandez
AK17-103	T	2017	2018	Chinook	Alaska	Southcentral	ADFG	William Jack Hernandez
AK17-104	T	2017	2017	Chinook	Alaska	Western	NSED	Norton Sound Hatchery
AK17-105	T	2017	2019	Chinook	Alaska	Southeast	SSRA	Crystal Lake

ID#	MARK NAME	STOCK	STAGE	ESIMATED RELEASE	HATCH CODE	PRE-HATCH GRAPHIC	POST-HATCH GRAPHIC
AK17-95	FISH17	Fish R	Eyed Egg	20,000	3,2H		
AK17-96	HIDDENFALLS17CHIN	Hidden Falls	Smolt	650,000	4,2H		
AK17-97	WHITMAN17CHIN	Whitman Lk	Smolt	1,475,000	H4		
AK17-98	MEDVEJIE17CHIN	Medvejie	Smolt	3,000,000	4,1H		
AK17-99	COOKINLET17CHIN	Cook Inlet	Smolt	1,346,500	2,3H		
AK17-100	SHIPCREEK17CHINS	Ship Cr	Smolt	210,000	2,3H3,3		
AK17-101	SHIPCREEK17CHINL	Ship Cr	Smolt	165,000	2,3H2,2		
AK17-102	PWS17CHIN	Ship Cr	Smolt	210,000	2,4H		
AK17-103	RESURRECTION17CHIN	Crooked Cr	Smolt	315,000	2,5H		
AK17-104	SOUTHRIVER17	Unalakleet +Old Woman R	Eyed Egg	240,000	3,1H		
AK17-105	CRYSTAL17CHIN	Crystal Cr	Smolt	1,500,000	5,3H		