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**Proposed Thermal Marks for Brood Year 2016 Salmon in Alaska**

by

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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 2016, approximately 65 million sockeye, 840 million pink salmon, 705 million chum, 13 million Coho, and 9 million Chinook salmon will be marked at 25 different hatcheries using 99 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 2016 brood year stocks**

The proposed thermal marks for brood year 2016 salmon are listed in Table 1. We plan to mark approximately 65 million sockeye, 840 million pink salmon, 705 million chum, 13 million Coho, and million Chinook salmon at 25 different hatcheries using 99 thermal marks, three dry marks, and one strontium mark.

The proposed otolith plan includes scheduled changes. Some marks 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 2016.

SPECIES: SOCKEYE

ID#	MARK TYPE	BROOD YEAR	RELEASE YEAR	SPECIES	STATE/ PROVINCE	REGION RELEASE	AGENCY	FACILITY
AK16-01	S	2016	2017	Sockeye	Alaska	Southcentral	PWSA	Gulkana
AK16-02	T	2016	2017	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes
AK16-03	T	2016	2018	Sockeye	Alaska	Southcentral	PWSA	Main Bay
AK16-04	T	2016	2018	Sockeye	Alaska	Southcentral	PWSA	Main Bay
AK16-05	T	2016	2018	Sockeye	Alaska	Southcentral	PWSA	Main Bay
AK16-06	T	2016	2018	Sockeye	Alaska	Southcentral	PWSA	Main Bay
AK16-07	T	2016	2018	Sockeye	Alaska	Southcentral	PWSA	Main Bay
AK16-08	T	2016	2017	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes
AK16-09	T	2016	2017	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes
AK16-10	T	2016	2018	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes
AK16-11	T	2016	2017	Sockeye	Alaska	Southeast	DIPC	Snettisham
AK16-12	T	2016	2017	Sockeye	Alaska	Southeast	DIPC	Snettisham
AK16-13	T	2016	2018	Sockeye	Alaska	Southeast	DIPC	Snettisham
AK16-14	T	2016	2018	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes
AK16-15	T	2016	2018	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes
AK16-16	T	2016	2017	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes
AK16-17	T	2016	2018	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes
AK16-18	T	2016	2017	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes
AK16-19	T	2016	2018	Sockeye	Alaska	Southeast	DIPC	Snettisham
AK16-20	T	2016	2017	Sockeye	Alaska	Southeast	DIPC	Snettisham
AK16-21	T	2016	2017	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes
AK16-22	T	2016	2017	Sockeye	Alaska	Southeast	DIPC	Snettisham
AK16-23	T	2016	2017	Sockeye	Alaska	Southeast	DIPC	Snettisham
AK16-24	T	2016	2018	Sockeye	Alaska	Southeast	DIPC	Snettisham
AK16-25	T	2016	2018	Sockeye	Alaska	Southeast	DIPC	Snettisham
AK16-26	D	2016	2017	Sockeye	Alaska	Western	KRAA	Pillar Creek
AK16-27	D	2016	2017	Sockeye	Alaska	Western	KRAA	Pillar Creek
AK16-28	D	2016	2017	Sockeye	Alaska	Western	KRAA	Kitoy Bay

ID#	MARK NAME	STOCK	STAGE	ESIMATED RELEASE	HATCH CODE	PRE-HATCH GRAPHIC	POST-HATCH GRAPHIC
AK16-01	GULKANA16	Gulkana	Emergent Fry	22,000,000	HS1		
AK16-02	TRAILLAKES16A	Bear Lk	Emergent Fry	2,400,000	4H		
AK16-03	MBH16A	Main Bay	Smolt	2,380,000	3H3		
AK16-04	MBH16B	Main Bay	Smolt	2,380,000	3H2,2		
AK16-05	MBH16C	Main Bay	Smolt	2,380,000	3H5		
AK16-06	MBH16D	Main Bay	Smolt	2,380,000	3H3,3		
AK16-07	MBH16E	Main Bay	Smolt	2,380,000	3H		
AK16-08	PENINSULA16SOCKEYE	English Bay Lk	Emergent Fry	3,500,000	1,3H		
AK16-09	HAZEL16	Hazel Lk	Fed Fry	1,500,000	4,1,3H		
AK16-10	BRADLEYPONDS16	Tutka Lagoon	Smolt	185,000	5H		
AK16-11	TATSAMENIE16	S-Tatsamenie Lk	Emergent Fry	800,000	2,1,2H		
AK16-12	TUYA16	S-Tahltan Lk	Emergent Fry	1,200,000	3n,3H		
AK16-13	SPEELARM16A	Snettisham	Smolt	8,000,000	3,3nH		
AK16-14	TRAILLAKES16B	Bear Lk	Smolt	2,000,000	2,4H		
AK16-15	TRAILLAKES16C	Bear Lk	Smolt	500,000	6,2H		
AK16-16	HIDDENLAKE16	Hidden Lk	Emergent Fry	530,000	2,2,2H		
AK16-17	PORTGRAHAM16SOCKEYE	English Bay Lk	Smolt	300,000	1,5H		
AK16-18	SHELLLAKE16	Shell Lk	Fed Fry	500,000	3,2,4H		
AK16-19	SPEELARM16B	Snettisham	Smolt	1,000,000	3,6H		
AK16-20	TAHLTAN16	S-Tahltan Lk	Emergent Fry	2,000,000	4,3H		
AK16-21	TUTKA16	English Bay Lk	Emergent Fry	530,000	2,5H		
AK16-22	TATSAMENIE16ER	S-Tatsamenie Lk	Fingerling	200,000	2,2,3H		
AK16-23	SWEETHEART16	Snettisham	Emergent Fry	500,000	5,3nH		
AK16-24	SPEELARM16C	Snettisham	Smolt	1,000,000	4,4nH		
AK16-25	SPEELARM16D	Snettisham	Smolt	1,000,000	4,6nH		
AK16-26	KODIAK16	Saltery	Smolt	2,000,000	3,4H		
AK16-27	KODIAK16A	Saltery	Smolt	650,000	4,3,2H		
AK16-28	KITOI16	Kitoy bay	Smolt	850,000	3,2H		

Table 1 (continued). Summary of thermal mark codes to be applied to Alaska hatchery salmon in brood year 2016.

SPECIES: PINK

ID#	MARK TYPE	BROOD YEAR	RELEASE YEAR	SPECIES	STATE/ PROVINCE	REGION RELEASE	AGENCY	FACILITY
AK16-29	T	2016	2017	Pink	Alaska	Southcentral	PWSA	A F Koernig
AK16-30	T	2016	2017	Pink	Alaska	Southcentral	PWSA	A F Koernig
AK16-31	T	2016	2017	Pink	Alaska	Southcentral	PWSA	Wally Noerenberg
AK16-32	T	2016	2017	Pink	Alaska	Southeast	SJ	Sheldon Jackson
AK16-33	T	2016	2017	Pink	Alaska	Southeast	AKI	Port Armstrong
AK16-34	T	2016	2017	Pink	Alaska	Southeast	AKI	Port Armstrong
AK16-35	T	2016	2017	Pink	Alaska	Southeast	AKI	Port Armstrong
AK16-36	T	2016	2017	Pink	Alaska	Southcentral	VFDA	Solomon Gulch
AK16-37	T	2016	2017	Pink	Alaska	Southcentral	PWSA	Cannery Creek
AK16-38	T	2016	2017	Pink	Alaska	Southcentral	PWSA	Wally Noerenberg
AK16-39	T	2016	2017	Pink	Alaska	Southcentral	CIAA	Tutka Bay
AK16-40	T	2016	2017	Pink	Alaska	Southcentral	CIAA	Tutka Bay
AK16-41	T	2016	2017	Pink	Alaska	Southcentral	CIAA	Tutka Bay
AK16-42	T	2016	2017	Pink	Alaska	Southcentral	CIAA	Tutka Bay

ID#	MARK NAME	STOCK	STAGE	ESIMATED RELEASE	HATCH CODE	PRE-HATCH GRAPHIC	POST-HATCH GRAPHIC
AK16-29	AFK16A	A F Koernig	Fed Fry	90,000,000	4H3		
AK16-30	AFK16B	A F Koernig	Fed Fry	90,000,000	4H		
AK16-31	WNH16PINKB	Wally Noerenberg	Fed Fry	70,000,000	8H		
AK16-32	SJ16PINK	Indian R 112-42	Fed Fry	100,000	4,1H		
AK16-33	PORTARMSTRONG16A	Port Armstrong	Fed Fry	60,000,000	3H		
AK16-34	PORTARMSTRONG16A	Port Armstrong	Fed Fry	27,000,000	3H4		
AK16-35	HERBERT16	Port Armstrong	Fed Fry	27,000,000	3H3		
AK16-36	SGH16	Solomon Gulch	Fed Fry	200,000,000	6H		
AK16-37	CCH16	Cannery Cr	Fed Fry	140,000,000	3,3H		
AK16-38	WNH16PINKA	Wally Noerenberg	Fed Fry	120,000,000	8H3		
AK16-39	TUTKA16PINK	English Bay Lk	Fed Fry	500,000	5,3H		
AK16-40	TUTKA16PINKA	English Bay Lk	Fed Fry	14,000,000	4,4H		
AK16-41	PORTGRAHAM16	Port Graham	Fed Fry	500,000	5H3		
AK16-42	PAINT16	Bruin Bay	Fed Fry	500,000	3H5		

Table 1 (continued). Summary of thermal mark codes to be applied to Alaska hatchery salmon in brood year 2016.

SPECIES: CHUM

ID#	MARK TYPE	BROOD YEAR	RELEASE YEAR	SPECIES	STATE/ PROVINCE	REGION RELEASE	AGENCY	FACILITY
AK16-43	T	2016	2017	Chum	Alaska	Southeast	SJ	Sheldon Jackson
AK16-44	T	2016	2017	Chum	Alaska	Southeast	AKI	Port Armstrong
AK16-45	T	2016	2017	Chum	Alaska	Southeast	AKI	Port Armstrong
AK16-46	T	2016	2017	Chum	Alaska	Southeast	NSRA	Medvejie
AK16-47	T	2016	2017	Chum	Alaska	Southeast	NSRA	Medvejie
AK16-48	T	2016	2017	Chum	Alaska	Southcentral	PWSA	Wally Noerenberg
AK16-49	T	2016	2017	Chum	Alaska	Southeast	NSRA	Medvejie
AK16-50	T	2016	2017	Chum	Alaska	Southeast	NSRA	Hidden Falls
AK16-51	T	2016	2017	Chum	Alaska	Southeast	NSRA	Hidden Falls
AK16-52	T	2016	2017	Chum	Alaska	Southeast	NSRA	Hidden Falls
AK16-53	T	2016	2017	Chum	Alaska	Southeast	NSRA	Medvejie
AK16-54	T	2016	2017	Chum	Alaska	Southeast	NSRA	Medvejie
AK16-55	T	2016	2017	Chum	Alaska	Southcentral	PWSA	Wally Noerenberg
AK16-56	T	2016	2017	Chum	Alaska	Southeast	DIPC	Macaulay
AK16-57	T	2016	2017	Chum	Alaska	Southeast	DIPC	Macaulay
AK16-58	T	2016	2017	Chum	Alaska	Southeast	DIPC	Macaulay
AK16-59	T	2016	2017	Chum	Alaska	Southcentral	PWSA	Wally Noerenberg
AK16-60	T	2016	2017	Chum	Alaska	Southeast	NSRA	Hidden Falls
AK16-61	T	2016	2017	Chum	Alaska	Southeast	NSRA	Hidden Falls
AK16-62	T	2016	2017	Chum	Alaska	Southeast	NSRA	Hidden Falls
AK16-63	T	2016	2017	Chum	Alaska	Southeast	NSRA	Hidden Falls
AK16-64	T	2016	2017	Chum	Alaska	Southeast	NSRA	Medvejie
AK16-65	T	2016	2017	Chum	Alaska	Southeast	NSRA	Medvejie
AK16-66	T	2016	2017	Chum	Alaska	Southeast	SSRA	Neets Bay
AK16-67	T	2016	2017	Chum	Alaska	Southeast	SSRA	Neets Bay
AK16-68	T	2016	2017	Chum	Alaska	Southeast	SSRA	Neets Bay
AK16-69	T	2016	2017	Chum	Alaska	Southeast	SSRA	Neets Bay
AK16-70	T	2016	2017	Chum	Alaska	Southeast	SSRA	Neets Bay
AK16-71	T	2016	2017	Chum	Alaska	Southeast	SSRA	Neets Bay
AK16-72	T	2016	2017	Chum	Alaska	Southeast	SSRA	Neets Bay
AK16-73	T	2016	2017	Chum	Alaska	Southeast	SSRA	Neets Bay
AK16-74	T	2016	2017	Chum	Alaska	Southeast	SSRA	Neets Bay
AK16-75	T	2016	2017	Chum	Alaska	Western	NSED	Norton Sound Hatchery
AK16-76	T	2016	2017	Chum	Alaska	Western	KRAA	Kitoi Bay
AK16-77	T	2016	2017	Chum	Alaska	Western	KRAA	Kitoi Bay
AK16-78	T	2016	2017	Chum	Alaska	Southeast	MIC	Tamgas Creek

ID#	MARK NAME	STOCK	STAGE	ESIMATED RELEASE	HATCH CODE	PRE-HATCH GRAPHIC	POST-HATCH GRAPHIC
AK16-43	SJ16CHUM	Indian R 112-42	Fed Fry	100,000	1,3H		
AK16-44	PORTARMSTRONG16CHUM	Port Armstrong	Fed Fry	30,000,000	1,2,2H		
AK16-45	PORTARMSTRONG16CHUMA	Port Armstrong	Fed Fry	5,000,000	6H3		
AK16-46	DEEPINLETMV16	Medvejie	Fed Fry	28,000,000	1,3,2H		
AK16-47	DEEPINLETMV16LL	Medvejie	Fed Fry	8,000,000	5,2,3H		
AK16-48	WNH16A	Wally Noerenberg	Fed Fry	75,000,000	4,3nH		
AK16-49	DEEPINLETHF16	Hidden Falls	Fed Fry	22,000,000	5,2nH		
AK16-50	HIDDENFALLS16CHIN	Hidden Falls	Fed Fry	33,000,000	4n,3H		
AK16-51	HIDDENFALLS16B	Hidden Falls	Fed Fry	600,000	3,3,3H3		
AK16-52	HIDDENFALLS16LL	Hidden Falls	Fed Fry	9,000,000	4n,3,2nH		
AK16-53	BEARCOVE16	Medvejie	Fed Fry	14,000,000	3n,4H		
AK16-54	BEARCOVE16LL	Medvejie	Fed Fry	6,000,000	6,2H		
AK16-55	WNH16B	Wally Noerenberg	Fed Fry	15,000,000	1,4H		
AK16-56	DIPAC16	Macaulay	Fed Fry	66,000,000	6H		
AK16-57	DIPAC16B	Macaulay	Fed Fry	51,000,000	3,2H3		
AK16-58	PELICAN16	Macaulay	Unfed Fry	500,000	3H		
AK16-59	WNH16C	Wally Noerenberg	Fed Fry	40,000,000	1,3n,2H		
AK16-60	TAKATZ16	Hidden Falls	Fed Fry	33,000,000	8n,2H		
AK16-61	TAKATZ16LL	Hidden Falls	Fed Fry	18,000,000	6,3H		
AK16-62	SECOVE16	Hidden Falls	Fed Fry	25,000,000	3,7H		
AK16-63	SECOVE16LL	Hidden Falls	Fed Fry	30,000,000	3,3,2H		
AK16-64	CRAWFISH16	Medvejie	Fed Fry	15,000,000	5,6H		
AK16-65	CRAWFISH16LL	Medvejie	Fed Fry	15,000,000	6,4H		
AK16-66	ANITABAY16	Neets Bay	Fed Fry	20,000,000	5,1,2H		
AK16-67	KENDRICK16	Neets Bay	Fed Fry	2,000,000	4n,2n,2H		
AK16-68	NEETSBAY16SUM	Neets Bay	Fed Fry	55,000,000	4,4H2,3		
AK16-69	BURNETTINLET16	Neets Bay	Fed Fry	5,000,000	3,3,5H		
AK16-70	NEETSBAY16FALL	Neets Bay	Fed Fry	20,000,000	4,2,2H2,3		
AK16-71	NAKATINLET16SUM	Neets Bay	Fed Fry	8,000,000	4,1,3H		
AK16-72	ANITABAYLL16	Neets Bay	Fed Fry	2,000,000	3,5H		
AK16-73	NAKATINLET16FALL	Neets Bay	Fed Fry	8,000,000	3,4,1H2,3		
AK16-74	BURNETTINLET16FALL	Neets Bay	Fed Fry	6,000,000	4,2,4H		
AK16-75	NORTON16CHUM	Solomon R	Eyed Egg	160,000	4,3n,2nH		
AK16-76	KITOI16CHUM	Sturgeon R	Fed Fry	15,000,000	3,1,3H		
AK16-77	KITOI16CHUMA	Sturgeon R	Fed Fry	15,000,000	4,2,3H		
AK16-78	TAMGAS16	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 2016.

**SPECIES: COHO**

ID#	MARK TYPE	BROOD YEAR	RELEASE YEAR	SPECIES	STATE/ PROVINCE	REGION RELEASE	AGENCY	FACILITY
AK16-79	T	2016	2017	Coho	Alaska	Southeast	DIPC	Macaulay
AK16-80	T	2016	2017	Coho	Alaska	Southcentral	PWSA	Wally Noerenberg
AK16-81	T	2016	2017	Coho	Alaska	Southcentral	CIAA	Trail Lakes
AK16-82	T	2016	2018	Coho	Alaska	Southcentral	CIAA	Trail Lakes
AK16-83	T	2016	2018	Coho	Alaska	Southcentral	ADFG	William Jack Hernandez
AK16-84	T	2016	2018	Coho	Alaska	Southcentral	VFDA	Solomon Gulch
AK16-85	T	2016	2018	Coho	Alaska	Southcentral	ADFG	William Jack Hernandez
AK16-86	T	2016	2018	Coho	Alaska	Southeast	NSRA	Medvejje
AK16-87	T	2016	2018	Coho	Alaska	Southeast	NSRA	Sawmill Creek
AK16-88	T	2016	2018	Coho	Alaska	Southeast	PWHA	Klawock
AK16-89	T	2016	2017	Coho	Alaska	Western	NSED	Norton Sound Hatchery
AK16-90	T	2016	2017	Coho	Alaska	Southeast	SSRA	Neets Bay
AK16-91	T	2016	2017	Coho	Alaska	Western	KRAA	Pillar Creek
AK16-92	T	2016	2017	Coho	Alaska	Southeast	SJ	Sheldon Jackson

ID#	MARK NAME	STOCK	STAGE	ESIMATED RELEASE	HATCH CODE	PRE-HATCH GRAPHIC	POST-HATCH GRAPHIC
AK16-79	DAVIDSON16	Macaulay	Smolt	500,000	2,6H		
AK16-80	WNH16COHO	Wally Noerenberg	Smolt	1,000,000	3H		
AK16-81	TRAILLAKES16SMCOHO	Bear Lk	Emergent Fry	555,000	3,3H		
AK16-82	BEARLAKE16COHO	Bear Lk	Smolt	555,000	2,2H		
AK16-83	COOKINLET16COHO	Ship Cr	Smolt	655,000	1,5H		
AK16-84	SGH16COHO	Solomon Gulch	Smolt	1,950,000	6H		
AK16-85	RESURRECTION16COHO	Bear Lk	Smolt	240,000	2,4H		
AK16-86	MEDVEJIE16COHO	Salmon Lk 102-60	Smolt	78,000	7H		
AK16-87	DEEPINLET16COHO	Salmon Lk 102-60	Smolt	1,900,000	4H		
AK16-88	KLAWOCK16COHO	Klawock Lk	Smolt	4000000	4,2H		
AK16-89	NORTON16COHO	Snake R	Eyed Egg	200,000	2,3H		
AK16-90	NAKAT16COHO	Neets Bay	Smolt	600,000	2,5H		
AK16-91	PILLAR16COHO	Buskin R	Smolt	275,000	3,2H		
AK16-92	SJ16COHO	Indian R 112-42	Smolt	250,000	5,2H		

**SPECIES: CHINOOK**

ID#	MARK TYPE	BROOD YEAR	RELEASE YEAR	SPECIES	STATE/ PROVINCE	REGION RELEASE	AGENCY	FACILITY
AK16-93	T	2016	2017	Chinook	Alaska	Western	VWM	Village of White Mountain
AK16-94	T	2016	2018	Chinook	Alaska	Southeast	NSRA	Hidden Falls
AK16-95	T	2016	2018	Chinook	Alaska	Southeast	SSRA	Whitman Lake
AK16-96	T	2016	2018	Chinook	Alaska	Southeast	NSRA	Medvejje
AK16-97	T	2016	2017	Chinook	Alaska	Southcentral	ADFG	William Jack Hernandez
AK16-98	T	2016	2017	Chinook	Alaska	Southcentral	ADFG	William Jack Hernandez
AK16-99	T	2016	2017	Chinook	Alaska	Southcentral	ADFG	William Jack Hernandez
AK16-100	T	2016	2017	Chinook	Alaska	Southcentral	ADFG	William Jack Hernandez
AK16-101	T	2016	2017	Chinook	Alaska	Southcentral	ADFG	William Jack Hernandez
AK16-102	T	2016	2016	Chinook	Alaska	Western	NSED	Norton Sound Hatchery
AK16-103	T	2016	2018	Chinook	Alaska	Southeast	SSRA	Crystal Lake

ID#	MARK NAME	STOCK	STAGE	ESIMATED RELEASE	HATCH CODE	PRE-HATCH GRAPHIC	POST-HATCH GRAPHIC
AK16-93	FISH16	Fish R 333-20	Eyed Egg	20,000	3,2H		
AK16-94	HIDDENFALLS16CHIN	Hidden Falls	Smolt	650,000	4,2H		
AK16-95	WHITMAN16CHIN	Whitman Lk	Smolt	1,475,000	1,5H		
AK16-96	MEDVEJIE16CHIN	Medvejje	Smolt	3,000,000	5,2H		
AK16-97	COOKINLET16CHIN	Cook Inlet	Smolt	1,346,500	2,3H		
AK16-98	SHIPCREEK16CHINS	Ship Cr	Smolt	210,000	2,3H3		
AK16-99	SHIPCREEK16CHINL	Ship Cr	Smolt	155,000	2,3H5		
AK16-100	PWS16CHIN	Ship Cr	Smolt	21,000	2,4H		
AK16-101	RESURRECTION16CHIN	Crooked Cr 221-60	Smolt	315,000	2,5H		
AK16-102	SOUTHRIVER16	Unalakleet R+Old Woman R	Eyed Egg	240,000	2,2H		
AK16-103	CRYSTAL16CHIN	Crystal Cr	Smolt	1,500,000	5,3H		