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Proposed Thermal Marks for Brood Year 2007 Salmon in Alaska

by

Ron Josephson
Dion S. Oxman
Beverly A. Agler

Mark, Tag, and Age Laboratory
Alaska Department of Fish and Game
P.O. Box 25526, Juneau, Alaska 99821-5526

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Mark, Tag, and Age Laboratory, Alaska Department of Fish and Game,
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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 2007, approximately 55 million sockeye, 730 million pink salmon, 564 million chum, 7 million coho, and 7 million chinook salmon will be marked at 23 different hatcheries using 84 thermal marks.

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 2007 brood year stocks

The proposed thermal marks for brood year 2007 salmon are listed in Table 1. We plan to mark approximately 55 million sockeye, 730 million pink salmon, 564 million chum, 7 million coho, and 7 million chinook salmon will be marked at 23 different hatcheries using 84 thermal marks.

The proposed otolith plan shows how some marks are scheduled to change in future years. Some marks are on an every other year cycle, while others rotate on a three-year cycle. Thermal mark patterns are presented in both the RBr notation (Munk and Geiger 1998), as well as well as 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
- Munk, K.M. and Geiger, H.J. 1998. Thermal marking of otoliths: the “RBr” coding structure of thermal marks. (NPAFC Doc. 367). 19 p. Alaska Dept. of Fish and Game, Juneau Alaska.

Table 1. Summary of thermal mark codes to be applied to Alaska hatchery salmon in brood year 2007.

SPECIES: SOCKEYE

ID#	MARK TYPE	BROOD YEAR	RELEASE YEAR	SPECIES	STATE/ PROVINCE	REGION RELEASE	AGENCY	FACILITY	STOCK
AK07-01	SM	2007	2008	Sockeye	Alaska	Southcentral	PWSAC	Gulkana	Gulkana
AK07-02	TM	2007	2008	Sockeye	Alaska	Southcentral	PWSAC	Main Bay Hatchery	Main Bay
AK07-03	TM	2007	2009	Sockeye	Alaska	Southcentral	PWSAC	Main Bay Hatchery	Main Bay
AK07-04	TM	2007	2008	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes Hatchery	Big Lake
AK07-05	TM	2007	2008	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes Hatchery	Hidden Lake
AK07-06	TM	2007	2008	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes Hatchery	Hidden Lake
AK07-07	TM	2007	2008	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes Hatchery	Bear Lake
AK07-08	TM	2007	2008	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes Hatchery	Bear Lake
AK07-09	TM	2007	2009	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes Hatchery	Big Lake
AK07-10	TM	2007	2008	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes Hatchery	Hidden Lake
AK07-11	TM	2007	2009	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes Hatchery	Bear Lake
AK07-12	TM	2007	2008	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes Hatchery	Big Lake
AK07-13	TM	2007	2008	Sockeye	Alaska	Southeast	DIPAC	Snettisham Hatchery	Tahltan Lake
AK07-14	TM	2007	2009	Sockeye	Alaska	Southeast	SSRAA	Burnett Inlet Hatchery	McDonald Lake
AK07-15	TM	2007	2008	Sockeye	Alaska	Southeast	DIPAC	Snettisham Hatchery	Tatsamenie Lake
AK07-16	TM	2007	2008	Sockeye	Alaska	Southeast	DIPAC	Snettisham Hatchery	Tahltan Lake
AK07-17	TM	2007	2008	Sockeye	Alaska	Southeast	DIPAC	Snettisham Hatchery	Tatsamenie Lake
AK07-18	TM	2007	2008	Sockeye	Alaska	Southeast	DIPAC	Snettisham Hatchery	Tatsamenie Lake
AK07-19	TM	2007	2009	Sockeye	Alaska	Southeast	DIPAC	Snettisham Hatchery	Snettisham
AK07-20	TM	2007	2009	Sockeye	Alaska	Southeast	DIPAC	Snettisham Hatchery	Snettisham
AK07-21	TM	2007	2008	Sockeye	Alaska	Southeast	DIPAC	Snettisham Hatchery	Little Trapper
AK07-22	TM	2007	2008	Sockeye	Alaska	Southeast	DIPAC	Snettisham Hatchery	Snettisham

ID#	MARK NAME	STAGE	WEIGHT	LENGTH	ESIMATED RELEASE	RBr CODE	HATCH CODE	Pre-Hatch Graphic	Post-Hatch Graphic	COMMENTS
AK07-01	GULKANA07	Fry			8,000,000	2:1.S1	HS1			
AK07-02	SOLFLAKE07	Fry			8,000,000	1:1.2,2.3+3.1,4.3	2,3H1,3			
AK07-03	MAINBAY07	Smolt			8,000,000	1:1.2,2.3+3.2,4.2	2,3H2,2			Three year rotation
AK07-04	BLODGET07	Fry			1,000,000	1:1.1,2,2,3.1	1,2,1H			
AK07-05	TUTKA07	Fry			530,000	1:1.1,2,3,3.1	1,3,1H			
AK07-06	PENINSULA07SOCKEYE	Fry			3,500,000	1:1.1,2,3	1,3H			
AK07-07	TRAILLAKES07A	Fry			2,400,000	1:1.1,2,4	1,4H			
AK07-08	TRAILLAKES07B	Pre-smolt			800,000	1:1.2,2,4	2,4H			
AK07-09	BIGLAKE07SMOLT	Smolt			1,000,000	1:1.3,2,3	3,3H			
AK07-10	HIDDENLAKE07	Fry			530,000	1:1.4,2,2	4,2H			
AK07-11	TRAILLAKES07C	Smolt			250,000	1:1.5,2,2	5,2H			
AK07-12	BIGLAKE07FRY	Fry			3,000,000	2:1.5	H5			
AK07-13	TAHLTAN07	Fry			3,000,000	1:1.1,2,2n,3,3	1,2n,3H			
AK07-14	BURNETTINLET07	Smolt			250,000	1:1.2,2.5n	2,5nH			Three year rotation
AK07-15	TATSAMENIE07S	Fry			2,000,000	1:1.1,2,3n,3,2	1,3n,2H			
AK07-16	TUYA07	Fry			2,000,000	1:1.2,2.1,3,3	2,1,3H			
AK07-17	TATSAMENIE07N	Fry			1,000,000	1:1.2,2.3n,3,1	2,3n,1H			
AK07-18	TATSAMENIE07A	Fry			1,000,000	1:1.3,2.2n,3,1	3,2n,1H			
AK07-19	SPEELARM07A	Smolt			6,500,000	1:1.3,2,3n	3,3nH			
AK07-20	SPEELARM07B	Smolt			1,000,000	1:1.3,2,4n	3,4nH			
AK07-21	TRAPPER07	Fry			1,000,000	1:1.4,2,2n	4,2nH			
AK07-22	SWEETHEART07	Fry			500,000	1:1.5,2,3n	5,3nH			

Table 1 (continued). Summary of thermal mark codes to be applied to Alaska hatchery salmon in brood year 2007.

SPECIES: PINK

ID#	MARK TYPE	BROOD YEAR	RELEASE YEAR	SPECIES	STATE/ PROVINCE	REGION RELEASE	AGENCY	FACILITY	STOCK
AK07-23	TM	2007	2008	Pink	Alaska	Southcentral	PWSAC	Armin F. Koernig Hatchery	Armin F. Koernig
AK07-24	TM	2007	2008	Pink	Alaska	Southcentral	PWSAC	Armin F. Koernig Hatchery	Armin F. Koernig
AK07-25	TM	2007	2008	Pink	Alaska	Southcentral	PWSAC	Armin F. Koernig Hatchery	Armin F. Koernig
AK07-26	TM	2007	2008	Pink	Alaska	Southcentral	PWSAC	Cannery Creek Hatchery	Cannery Creek
AK07-27	TM	2007	2008	Pink	Alaska	Southcentral	PGHC	Port Graham	Port Graham
AK07-28	TM	2007	2008	Pink	Alaska	Southcentral	VFDA	Solomon Gulch Hatchery	Solomon Gulch
AK07-29	TM	2007	2008	Pink	Alaska	Southcentral	PWSAC	Wally H. Noerenberg Hatchery	Wally H. Noerenberg
AK07-30	TM	2007	2008	Pink	Alaska	Southcentral	PWSAC	Wally H. Noerenberg Hatchery	Wally H. Noerenberg
AK07-31	TM	2007	2008	Pink	Alaska	Southcentral	PWSAC	Wally H. Noerenberg Hatchery	Wally H. Noerenberg
AK07-32	TM	2007	2008	Pink	Alaska	Southeast	AKI	Port Armstrong Hatchery	Port Armstrong
AK07-33	TM	2007	2008	Pink	Alaska	Southeast	AKI	Port Armstrong Hatchery	Port Armstrong
AK07-34	TM	2007	2008	Pink	Alaska	Southeast	SJ	Sheldon Jackson	Sheldon Jackson

ID#	MARK NAME	STAGE	WEIGHT	LENGTH	ESIMATED RELEASE	RBr CODE	HATCH CODE	Pre-Hatch Graphic	Post-Hatch Graphic	COMMENTS
AK07-23	AFK07A	Fed Fry			50,000,000	1:1.4	4H			Repeats each year
AK07-24	AFK07B	Fed Fry			50,000,000	1:1.4+2.3	4H3			Repeats each year
AK07-25	AFK07C	Fed Fry			50,000,000	1:1.4+2.5	4H5			Repeats each year
AK07-26	CCH07	Fed Fry			140,000,000	1:1.3,2.3	3,3H			Repeats each year
AK07-27	PORTGRAHAM07	Fed Fry			35,000,000	1:1.4,2.2	4,2H			
AK07-28	SGH07	Fed Fry			200,000,000	1:1.6	6H			Repeats each year
AK07-29	WHN07PINKA	Fed Fry			40,000,000	1:1.8	8H			Repeats each year
AK07-30	WHN07PINKB	Fed Fry			40,000,000	1:1.8+2.3	8H3			Repeats each year
AK07-31	WHN07PINKC	Fed Fry			40,000,000	1:1.8+2.5	8H5			Repeats each year
AK07-32	PORTARMSTRONG07E	Fed Fry			65,000,000	1:1.3	3H			Repeats each year Early
AK07-33	PORTARMSTRONG07L	Fed Fry			20,000,000	1:1.3+2.3	3H3			Repeats each year Late
AK07-34	SJ07PINK	Fed Fry			100,000	1:1.4,2.1	4,1H			

Table 1 (continued). Summary of thermal mark codes to be applied to Alaska hatchery salmon in brood year 2007.

SPECIES: CHUM

ID#	MARK TYPE	BROOD YEAR	RELEASE YEAR	SPECIES	STATE/ PROVINCE	REGION RELEASE	AGENCY	FACILITY	STOCK
AK07-35	TM	2007	2008	Chum	Alaska	Southcentral	PWSAC	Wally H. Noerenberg Hatchery	Wally H. Noerenberg
AK07-36	TM	2007	2008	Chum	Alaska	Southcentral	PWSAC	Wally H. Noerenberg Hatchery	Wally H. Noerenberg
AK07-37	TM	2007	2008	Chum	Alaska	Southcentral	PWSAC	Wally H. Noerenberg Hatchery	Wally H. Noerenberg
AK07-38	TM	2007	2008	Chum	Alaska	Southeast	KAKE	Gunnuk Creek	Gunnuk Cr
AK07-39	TM	2007	2008	Chum	Alaska	Southeast	NSRAA	17 Mile Stream Incubation	Chilkat
AK07-40	TM	2007	2008	Chum	Alaska	Southeast	NSRAA	Hidden Falls Hatchery	Hidden Falls
AK07-41	TM	2007	2008	Chum	Alaska	Southeast	NSRAA	Hidden Falls Hatchery	Hidden Falls
AK07-42	TM	2007	2008	Chum	Alaska	Southeast	NSRAA	Hidden Falls Hatchery	Hidden Falls
AK07-43	TM	2007	2008	Chum	Alaska	Southeast	DIPAC	Macaulay Hatchery	Macaulay
AK07-44	TM	2007	2008	Chum	Alaska	Southeast	NSRAA	Medvejie Hatchery	Medvejie
AK07-45	TM	2007	2008	Chum	Alaska	Southeast	NSRAA	Medvejie Hatchery	Medvejie
AK07-46	TM	2007	2008	Chum	Alaska	Southeast	NSRAA	Medvejie Hatchery	Hidden Falls
AK07-47	TM	2007	2008	Chum	Alaska	Southeast	NSRAA	Medvejie Hatchery	Medvejie
AK07-48	TM	2007	2008	Chum	Alaska	Southeast	NSRAA	Medvejie Hatchery	Hidden Falls
AK07-49	TM	2007	2008	Chum	Alaska	Southeast	SSRAA	Neets Bay Hatchery	Neets Bay
AK07-50	TM	2007	2008	Chum	Alaska	Southeast	SSRAA	Neets Bay Hatchery	Neets Bay
AK07-51	TM	2007	2008	Chum	Alaska	Southeast	SSRAA	Neets Bay Hatchery	Neets Bay
AK07-52	TM	2007	2008	Chum	Alaska	Southeast	SSRAA	Neets Bay Hatchery	Neets Bay
AK07-53	TM	2007	2008	Chum	Alaska	Southeast	SSRAA	Neets Bay Hatchery	Neets Bay
AK07-54	TM	2007	2008	Chum	Alaska	Southeast	AKI	Port Armstrong Hatchery	Hidden Falls
AK07-55	TM	2007	2008	Chum	Alaska	Southeast	SJ	Sheldon Jackson	Sheldon Jackson
AK07-56	TM	2007	2008	Chum	Alaska	Southeast	SSRAA	Neets Bay Hatchery	Neets Bay
AK07-57	TM	2007	2008	Chum	Alaska	Western	NFA	Hobson Creek	Nome River
AK07-58	TM	2007	2008	Chum	Alaska	Western	NSED	Nome Incubation	Solomon River
AK07-59	TM	2007	2008	Chum	Alaska	Western	NSED	Nome Incubation	Snake River

ID#	MARK NAME	STAGE	WEIGHT	LENGTH	ESIMATED RELEASE	RBr CODE	HATCH CODE	Pre-Hatch Graphic	Post-Hatch Graphic	COMMENTS
AK07-35	WHN07A	Fed Fry			75,000,000	1:1.1,2.3,3.2	1,3,2H			
AK07-36	WHN07B	Fed Fry			15,000,000	1:1.1,2.4,3.1	1,4,1H			
AK07-37	PORTCHALMERS07	Fed Fry			40,000,000	1:1.4,2.2n	4,2nH			
AK07-38	KAKE07	Fed Fry			10,000,000	1:1.1,2.2,3.3	1,2,3H			
AK07-39	17MILE07	Fed Fry			800,000	1:1.3	3H			
AK07-40	HIDDENFALLS07LL	Fed Fry			15,000,000	1:1.1,2.2,3.4	1,2,4H			Late Large
AK07-41	TAKATZ07	Fed Fry			45,000,000	1:1.3,2.2n,3.2n	3,2n,2nH			
AK07-42	HIDDENFALLS07	Fed Fry			38,000,000	1:1.3,2.4n	3,4nH			
AK07-43	DIPAC07	Fed Fry			100,000,000	1:1.4	4H			Three year rotation
AK07-44	DEEPINLETM07	Fed Fry			40,000,000	1:1.1,2.2n,3.4	1,2n,4H			Regular
AK07-45	DEEPINLETM07L/LG	Fed Fry			9,000,000	1:1.1,2.3n,3.3	1,3n,3H			Late Large
AK07-46	DEEPINLETHF07L/LG	Fed Fry			7,000,000	1:1.3n,2.4	3n,4H			Late Large
AK07-47	BEARCOVE07	Fed Fry			9,000,000	1:1.4,2.1,3.2	4,1,2H			
AK07-48	DEEPINLETHF07	Fed Fry			15,000,000	1:1.5,2.2n	5,2nH			
AK07-49	NAKATINLET07FALL	Fed Fry			8,000,000	1:1.3,2.4,3.1+4.2	3,4,1H2			Three year rotation Fall
AK07-50	NEETSBAY07FALL	Fed Fry			18,000,000	1:1.4,2.2,3.2+4.2	4,2,2H2			Three year rotation Fall
AK07-51	NAKATINLET07SUM	Fed Fry			8,000,000	1:1.4,2.3,3.1	4,3,1H			Three year rotation Summer
AK07-52	NEETSBAY07SUM	Fed Fry			49,000,000	1:1.4,2.4+3.2	4,4H2			Three year rotation Summer
AK07-53	KENDRICK07	Fed Fry			20,000,000	1:1.4n,2.2n,3.2	4n,2n,2H			Three year rotation
AK07-54	PORTARMSTRONG07CHUM	Fed Fry			20,000,000	2:1.4	H4			
AK07-55	SJ07	Fed Fry			100,000	1:1.1,2.3	1,3H			
AK07-56	ANITABAY07	Fed Fry			22,000,000	1:1.1,2.5,3.2	1,5,2H			Three year rotation
AK07-57	NOME07CHUM	Fry			170,000	1:1.1,2.2,3.1	1,2,1H			
AK07-58	NORTON07CHUMB	Egg			60,000	1:1.1,2.3,3.1	1,3,1H			
AK07-59	NORTON07CHUMA	Egg			200,000	1:1.3	3H			

Table 1 (continued). Summary of thermal mark codes to be applied to Alaska hatchery salmon in brood year 2007.

SPECIES: COHO

ID#	MARK TYPE	BROOD YEAR	RELEASE YEAR	SPECIES	STATE/ PROVINCE	REGION RELEASE	AGENCY	FACILITY	STOCK
AK07-60	TM	2007	2009	Coho	Alaska	Southcentral	ADFG	Fort Richardson Hatchery	Ship Creek
AK07-61	TM	2007	2009	Coho	Alaska	Southcentral	ADFG	Fort Richardson Hatchery	Bear Lake
AK07-62	TM	2007	2009	Coho	Alaska	Southcentral	VFDA	Solomon Gulch Hatchery	Solomon Gulch
AK07-63	TM	2007	2008	Coho	Alaska	Southcentral	CIAA	Trail Lakes Hatchery	Bear Lake
AK07-64	TM	2007	2008	Coho	Alaska	Southcentral	CIAA	Trail Lakes Hatchery	Bear Lake
AK07-65	TM	2007	2008	Coho	Alaska	Southcentral	CIAA	Trail Lakes Hatchery	Bear Lake
AK07-66	TM	2007	2009	Coho	Alaska	Southcentral	CIAA	Trail Lakes Hatchery	Bear Lake
AK07-67	TM	2007	2009	Coho	Alaska	Southcentral	PWSAC	Wally H. Noerenberg Hatchery	Wally H. Noerenberg
AK07-68	TM	2007	2009	Coho	Alaska	Southeast	SSRAA	Burnett Inlet Hatchery	Burnett Inlet
AK07-69	TM	2007	2009	Coho	Alaska	Southeast	SSRAA	Burnett Inlet Hatchery	Burnett Inlet
AK07-70	TM	2007	2008	Coho	Alaska	Western	NFA	Hobson Creek	Nome River
AK07-71	TM	2007	2008	Coho	Alaska	Western	NSED	Nome Incubation	Snake River

ID#	MARK NAME	STAGE	WEIGHT	LENGTH	ESIMATED RELEASE	RBr CODE	HATCH CODE	Pre-Hatch Graphic	Post-Hatch Graphic	COMMENTS
AK07-60	COOKINLET07COHO	Smolt			655,000	1:1.1,2,5	1,5H			Repeats each year
AK07-61	RESURRECTION07COHO	Smolt			240,000	1:1.2,2,4	2,4H			Repeats each year
AK07-62	SGH07COHO	Smolt			1,500,000	1:1.6	6H			Repeats each year
AK07-63	TRAILLAKES07COHOA	Fry			100,000	2:1.1,2,4,3,1	H1,4,1			
AK07-64	TRAILLAKES07SMCOHO	Fry			450,000	2:1.2,2,1,3,3	H2,1,3			Repeats each year
AK07-65	TRAILLAKES07COHOB	Fry			450,000	2:1.2,2,4	H2,4			Repeats each year
AK07-66	TRAILLAKES07LGCOHO	Smolt			150,000	2:1.3,2,2,3,1	H3,2,1			Repeats each year
AK07-67	WHN07COHO	Smolt			1,000,000	1:1.3	3H			Repeats each year
AK07-68	NECKLAKE07COHO	Smolt			1,650,000	1:1.1,2,4	1,4H			Repeats each year
AK07-69	BURNETTINLET07COHO	Smolt			200,000	1:1.2,2,1,3,2	2,1,2H			Repeats each year
AK07-70	NOME07COHO	Fry			100,000	1:1.1,2,2	1,2H			
AK07-71	NORTON07COHO	Egg			50,000	1:1.3,2,2n	3,2nH			

SPECIES: CHINOOK

ID#	MARK TYPE	BROOD YEAR	RELEASE YEAR	SPECIES	STATE/ PROVINCE	REGION RELEASE	AGENCY	FACILITY	STOCK
AK07-72	TM	2007	2009	Chinook	Alaska	Southcentral	ASLC	Alaska Sealife Center	Ressurrection Bay
AK07-73	TM	2007	2009	Chinook	Alaska	Southcentral	ASLC	Alaska Sealife Center	Ressurrection Bay
AK07-74	TM	2007	2008	Chinook	Alaska	Southcentral	ASLC	Alaska Sealife Center	Ressurrection Bay
AK07-75	TM	2007	2008	Chinook	Alaska	Southcentral	ASLC	Alaska Sealife Center	Ressurrection Bay
AK07-76	TM	2007	2008	Chinook	Alaska	Southcentral	CVEP	Chickaloon Incubation	Moose River
AK07-77	TM	2007	2009	Chinook	Alaska	Southcentral	ADFG	Fort Richardson Hatchery	Cook Inlet
AK07-78	TM	2007	2009	Chinook	Alaska	Southcentral	ADFG	Fort Richardson Hatchery	Ship Creek
AK07-79	TM	2007	2009	Chinook	Alaska	Southeast	NSRAA	Hidden Falls Hatchery	Hidden Falls
AK07-80	TM	2007	2008	Chinook	Alaska	Southeast	NSRAA	Medvejie Hatchery	Medvejie
AK07-81	TM	2007	2008	Chinook	Alaska	Southeast	NSRAA	Medvejie Hatchery	Medvejie
AK07-82	TM	2007	2009	Chinook	Alaska	Southeast	NSRAA	Medvejie Hatchery	Medvejie
AK07-83	TM	2007	2009	Chinook	Alaska	Southeast	NSRAA	Medvejie Hatchery	Medvejie
AK07-84	TM	2007	2009	Chinook	Alaska	Southeast	NSRAA	Medvejie Hatchery	Medvejie

ID#	MARK NAME	STAGE	WEIGHT	LENGTH	ESIMATED RELEASE	RBr CODE	HATCH CODE	Pre-Hatch Graphic	Post-Hatch Graphic	COMMENTS
AK07-72	SEALIFE07CHIND	Smolt			2,000	1:1.1,2,3,3,3	1,3,3H			Control Age-1
AK07-73	SEALIFE07CHINC	Smolt			10,000	1:1.3,2,1,3,3	3,1,3H			SeaReady Age-1
AK07-74	SEALIFE07CHINA	Smolt			25,000	1:1.4,2,3	4,3H			Control Age-0
AK07-75	SEALIFE07CHINB	Smolt			210,000	1:1.5,2,2	5,2H			SeaReady Age-0
AK07-76	CHICKALOON2007	Egg			100,000	1:1.3,2,2	3,2H			
AK07-77	COOKINLET07CHIN	Smolt			1,000,000	1:1.2,2,3	2,3H			Repeats each year
AK07-78	PWS07CHIN	Smolt			210,000	1:1.2,2,4	2,4H			Repeats each year
AK07-79	HIDDENFALLS07CHIN	Smolt			1,500,000	1:1.4,2,2	4,2H			Repeats each year
AK07-80	MEDVEJIE07CHINZ	Smolt			500,000	1:1.1,2,5	1,5H			Medvejie Zero Age
AK07-81	DEEPINLET07CHINZ	Smolt			1,000,000	1:1.2,2,3,3,1	2,3,1H			Deep Inlet Zero Age
AK07-82	GREENLAKE07CHIN	Smolt			850,000	1:1.3,2,3	3,3H			Green Lake Full Term
AK07-83	MEDVEJIE07CHIN	Smolt			1,000,000	1:1.4,2,1,3,2	4,1,2H			Medvejie Full Term
AK07-84	MEDVEJIESR07CHINZ	Smolt			500,000	1:1.5,2,1	5,1H			SeaReady Zeros