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## **Proposed Thermal Marks for Brood Year 2015 Salmon in Alaska**

by

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# **Proposed Thermal Marks for Brood Year 2015 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 2015, approximately 65 million sockeye, 856 million pink salmon, 697 million chum, 10 million Coho, and 9 million Chinook salmon will be marked at 29 different hatcheries using 97 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 2015 brood year stocks**

The proposed thermal marks for brood year 2015 salmon are listed in Table 1. We plan to mark approximately 65 million sockeye, 856 million pink salmon, 697 million chum, 10 million Coho, and 9 million Chinook salmon at 29 different hatcheries using 97 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 2015.

SPECIES: SOCKEYE

ID#	MARK TYPE	BROOD YEAR	RELEASE YEAR	SPECIES	STATE/ PROVINCE	REGION RELEASE	AGENCY	FACILITY
AK15-01	S	2015	2016	Sockeye	Alaska	Southcentral	PWSA	Gulkana
AK15-02	T	2015	2016	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes
AK15-03	T	2015	2017	Sockeye	Alaska	Southcentral	PWSA	Main Bay
AK15-04	T	2015	2017	Sockeye	Alaska	Southcentral	PWSA	Main Bay
AK15-05	T	2015	2017	Sockeye	Alaska	Southcentral	PWSA	Main Bay
AK15-06	T	2015	2017	Sockeye	Alaska	Southcentral	PWSA	Main Bay
AK15-07	T	2015	2017	Sockeye	Alaska	Southcentral	PWSA	Main Bay
AK15-08	T	2015	2016	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes
AK15-09	T	2015	2016	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes
AK15-10	T	2015	2016	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes
AK15-11	T	2015	2016	Sockeye	Alaska	Southeast	DIPC	Snettisham
AK15-12	T	2015	2016	Sockeye	Alaska	Southeast	DIPC	Snettisham
AK15-13	T	2015	2017	Sockeye	Alaska	Southeast	DIPC	Snettisham
AK15-14	T	2015	2017	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes
AK15-15	T	2015	2017	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes
AK15-16	T	2015	2016	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes
AK15-17	T	2015	2017	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes
AK15-18	T	2015	2016	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes
AK15-19	T	2015	2017	Sockeye	Alaska	Southeast	DIPC	Snettisham
AK15-20	T	2015	2016	Sockeye	Alaska	Southeast	DIPC	Snettisham
AK15-21	T	2015	2016	Sockeye	Alaska	Southcentral	CIAA	Trail Lakes
AK15-22	T	2015	2016	Sockeye	Alaska	Southeast	DIPC	Snettisham
AK15-23	T	2015	2016	Sockeye	Alaska	Southeast	DIPC	Snettisham
AK15-24	T	2015	2017	Sockeye	Alaska	Southeast	DIPC	Snettisham
AK15-25	T	2015	2017	Sockeye	Alaska	Southeast	DIPC	Snettisham
AK15-26	T	2015	2016	Sockeye	Alaska	Southeast	DIPC	Snettisham
AK15-27	D	2015	2016	Sockeye	Alaska	Westward	KRAA	Pillar Creek
AK15-28	D	2015	2016	Sockeye	Alaska	Westward	KRAA	Pillar Creek
AK15-29	D	2015	2016	Sockeye	Alaska	Westward	KRAA	Kitoi Bay

ID#	MARK NAME	STOCK	STAGE	ESIMATED RELEASE	HATCH CODE	PRE-HATCH GRAPHIC	POST-HATCH GRAPHIC
AK15-01	GULKANA15	Gulkana	Emergent Fry	22,000,000	HS1		
AK15-02	TRAILLAKES15A	Bear Lk	Emergent Fry	2,400,000	4,2H		
AK15-03	MBH15A	Main Bay	Smolt	2,380,000	2,2H3		
AK15-04	MBH15B	Main Bay	Smolt	2,380,000	2,2H2,2		
AK15-05	MBH15C	Main Bay	Smolt	2,380,000	2,2H5		
AK15-06	MBH15D	Main Bay	Smolt	2,380,000	2,2H3,3		
AK15-07	MBH15E	Main Bay	Smolt	2,380,000	2,2H4,2		
AK15-08	PENINSULA15SOCKEYE	English Bay Lk	Emergent Fry	3,500,000	H2,2		
AK15-09	HAZEL15	Hazel Lk	Fed Fry	1,500,000	H2,2		
AK15-10	ENGLISHBAY15	English Bay Lk	Presmolt	150,000	2,4H		
AK15-11	TATSAMENIE15	S-Tatsamenie Lk	Emergent Fry	800,000	3n,2H		
AK15-12	TUYA15	S-Tahlitan Lk	Emergent Fry	1,200,000	4n,3H		
AK15-13	SPEELARM15A	Snettisham	Smolt	8,000,000	3,2nH		
AK15-14	TRAILLAKES15B	Bear Lk	Smolt	2,000,000	3,3,2H		
AK15-15	TRAILLAKES15C	Bear Lk	Smolt	500,000	4,6nH		
AK15-16	HIDDENLAKE15	Hidden Lk	Emergent Fry	530,000	3,2,1H		
AK15-17	PORTGRAHAM15SOCKEYE	English Bay Lk	Smolt	300,000	2,3,2H		
AK15-18	SHELLLAKE15	Shell Lk	Fed Fry	500,000	4,2,3H		
AK15-19	SPEELARM15B	Snettisham	Smolt	1,000,000	7H		
AK15-20	TAHLTAN15	S-Tahlitan Lk	Emergent Fry	2,000,000	1,4H		
AK15-21	TUTKA15	English Bay Lk	Emergent Fry	530,000	3,5H		
AK15-22	TATSAMENIE15ER	S-Tatsamenie Lk	Fingerling	200,000	3,3H		
AK15-23	SWEETHEART15	Snettisham	Emergent Fry	500,000	2,5H		
AK15-24	SPEELARM15C	Snettisham	Smolt	1,000,000	4,3nH		
AK15-25	SPEELARM15D	Snettisham	Smolt	1,000,000	5n,3H		
AK15-26	KINGSALMON15	King Salmon Lake	Smolt		6,2H3		
AK15-27	KODIAK15	Saltery	Smolt	2,000,000	6,3H		
AK15-28	KODIAK15A	Saltery	Smolt	650,000	5,2H		
AK15-29	KITOI15	Kitoi bay	Smolt	850,000	5,4H		

Table 1 (continued). Summary of thermal mark codes to be applied to Alaska hatchery salmon in brood year 2015.

SPECIES: PINK

ID#	MARK TYPE	BROOD YEAR	RELEASE YEAR	SPECIES	STATE/ PROVINCE	REGION RELEASE	AGENCY	FACILITY
AK15-30	T	2015	2016	Pink	Alaska	Southcentral	PWSA	A F Koernig
AK15-31	T	2015	2016	Pink	Alaska	Southcentral	PWSA	A F Koernig
AK15-32	T	2015	2016	Pink	Alaska	Southcentral	PWSA	Wally Noerenberg
AK15-33	T	2015	2016	Pink	Alaska	Southeast	KAKE	Gunnuk Creek
AK15-34	T	2015	2016	Pink	Alaska	Southeast	SJ	Sheldon Jackson
AK15-35	T	2015	2016	Pink	Alaska	Southeast	AKI	Port Armstrong
AK15-36	T	2015	2016	Pink	Alaska	Southeast	AKI	Port Armstrong
AK15-37	T	2015	2016	Pink	Alaska	Southeast	AKI	Port Armstrong
AK15-38	T	2015	2016	Pink	Alaska	Southcentral	VFDA	Solomon Gulch
AK15-39	T	2015	2016	Pink	Alaska	Southcentral	PWSA	Cannery Creek
AK15-40	T	2015	2016	Pink	Alaska	Southcentral	PWSA	Wally Noerenberg
AK15-41	T	2015	2016	Pink	Alaska	Southcentral	CIAA	Tutka Bay
AK15-42	T	2015	2016	Pink	Alaska	Southcentral	CIAA	Tutka Bay
AK15-43	T	2015	2016	Pink	Alaska	Southcentral	CIAA	Tutka Bay
AK15-44	T	2015	2016	Pink	Alaska	Southcentral	CIAA	Tutka Bay

ID#	MARK NAME	STOCK	STAGE	ESIMATED RELEASE	HATCH CODE	PRE-HATCH GRAPHIC	POST-HATCH GRAPHIC
AK15-30	AFK15A	A F Koernig	Fed Fry	90,000,000	4H3		
AK15-31	AFK15B	A F Koernig	Fed Fry	90,000,000	4H		
AK15-32	WNH15PINKB	Wally Noerenberg	Fed Fry	70,000,000	8H		
AK15-33	KAKE15PINK	Gunnuk Cr	Fed Fry	5,000,000	1,2,3H		
AK15-34	SJ15PINK	Indian R	Fed Fry	100,000	4,1H		
AK15-35	PORTARMSTRONG15	Port Armstrong	Fed Fry	60,000,000	3H		
AK15-36	PORTARMSTRONG15A	Port Armstrong	Fed Fry	25,000,000	3,5H		
AK15-37	HERBERT15	Port Armstrong	Fed Fry	40,000,000	3H3		
AK15-38	SGH15	Solomon Gulch	Fed Fry	200,000,000	6H		
AK15-39	CCH15	Cannery Cr	Fed Fry	140,000,000	3,3H		
AK15-40	WNH15PINKA	Wally Noerenberg	Fed Fry	120,000,000	8H3		
AK15-41	TUTKA15PINK	English Bay Lk	Fed Fry	500,000	5,3H		
AK15-42	TUTKA15PINKA	English Bay Lk	Fed Fry	14,000,000	4,4H		
AK15-43	PORTGRAHAM15	Port Graham	Fed Fry	500,000	5H3		
AK15-44	PAINT15	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 2015.

SPECIES: CHUM

ID#	MARK TYPE	BROOD YEAR	RELEASE YEAR	SPECIES	STATE/ PROVINCE	REGION RELEASE	AGENCY	FACILITY
AK15-45	T	2015	2016	Chum	Alaska	Southeast	SJ	Sheldon Jackson
AK15-46	T	2015	2016	Chum	Alaska	Southeast	KAKE	Gunnuk Creek
AK15-47	T	2015	2016	Chum	Alaska	Southeast	AKI	Port Armstrong
AK15-48	T	2015	2016	Chum	Alaska	Southeast	NSRA	Medvejie
AK15-49	T	2015	2016	Chum	Alaska	Southeast	NSRA	Medvejie
AK15-50	T	2015	2016	Chum	Alaska	Southcentral	PWSA	Wally Noerenberg
AK15-51	T	2015	2016	Chum	Alaska	Southeast	NSRA	Medvejie
AK15-52	T	2015	2016	Chum	Alaska	Southeast	NSRA	Hidden Falls
AK15-53	T	2015	2016	Chum	Alaska	Southeast	NSRA	Hidden Falls
AK15-54	T	2015	2016	Chum	Alaska	Southeast	NSRA	Medvejie
AK15-55	T	2015	2016	Chum	Alaska	Southeast	NSRA	Medvejie
AK15-56	T	2015	2016	Chum	Alaska	Southcentral	PWSA	Wally Noerenberg
AK15-57	T	2015	2016	Chum	Alaska	Southeast	DIPC	Macaulay
AK15-58	T	2015	2016	Chum	Alaska	Southeast	DIPC	Macaulay
AK15-59	T	2015	2016	Chum	Alaska	Southcentral	PWSA	Wally Noerenberg
AK15-60	T	2015	2016	Chum	Alaska	Southeast	NSRA	Hidden Falls
AK15-61	T	2015	2016	Chum	Alaska	Southeast	NSRA	Hidden Falls
AK15-62	T	2015	2016	Chum	Alaska	Southeast	NSRA	Hidden Falls
AK15-63	T	2015	2016	Chum	Alaska	Southeast	NSRA	Sawmill Creek
AK15-64	T	2015	2016	Chum	Alaska	Southeast	SSRA	Neets Bay
AK15-65	T	2015	2016	Chum	Alaska	Southeast	SSRA	Neets Bay
AK15-66	T	2015	2016	Chum	Alaska	Southeast	SSRA	Neets Bay
AK15-67	T	2015	2016	Chum	Alaska	Southeast	SSRA	Neets Bay
AK15-68	T	2015	2016	Chum	Alaska	Southeast	SSRA	Neets Bay
AK15-69	T	2015	2016	Chum	Alaska	Southeast	SSRA	Neets Bay
AK15-70	T	2015	2016	Chum	Alaska	Southeast	SSRA	Neets Bay
AK15-71	T	2015	2016	Chum	Alaska	Southeast	SSRA	Neets Bay
AK15-72	T	2015	2016	Chum	Alaska	Southeast	SSRA	Neets Bay
AK15-73	T	2015	2016	Chum	Alaska	Western	NSED	Norton Sound Hatchery
AK15-74	T	2015	2016	Chum	Alaska	Southeast	NSRA	17 Mi Stream Incub
AK15-75	T	2015	2016	Chum	Alaska	Westward	KRAA	Kitoi Bay
AK15-76	T	2015	2016	Chum	Alaska	Westward	KRAA	Kitoi Bay
AK15-77	T	2015	2016	Chum	Alaska	Southeast	MIC	Tamgas Creek

ID#	MARK NAME	STOCK	STAGE	ESIMATED RELEASE	HATCH CODE	PRE-HATCH GRAPHIC	POST-HATCH GRAPHIC
AK15-45	SJ15CHUM	Indian R 112-42	Fed Fry	100,000	4,2n,1H		
AK15-46	KAKE15	Gunnuk Cr	Fed Fry	25,000,000	4H		
AK15-47	PORTARMSTRONG15CHUM	Port Armstrong	Fed Fry	30,000,000	3H4		
AK15-48	DEEPINLETMV15	Medvejie	Fed Fry	28,000,000	3,1,3H		
AK15-49	DEEPINLETMV15LL	Medvejie	Fed Fry	8,000,000	3,2,5H		
AK15-50	WNH15A	Wally Noerenberg	Fed Fry	75,000,000	4,3nH		
AK15-51	DEEPINLETHF15	Hidden Falls	Fed Fry	22,000,000	3n,2,2nH		
AK15-52	HIDDENFALLS15	Hidden Falls	Fed Fry	33,000,000	1,2,3H		
AK15-53	HIDDENFALLS15LL	Hidden Falls	Fed Fry	9,000,000	3,3,2H		
AK15-54	BEARCOVE15	Medvejie	Fed Fry	14,000,000	4,2,1H		
AK15-55	BEARCOVE15LL	Medvejie	Fed Fry	6,000,000	3n,5H		
AK15-56	WNH15B	Wally Noerenberg	Fed Fry	15,000,000	1,2,2H		
AK15-57	DIPAC15	Macaulay	Fed Fry	100,000,000	1,3H		
AK15-58	PELICAN15	Macaulay	Unfed Fry	500,000	5,1H		
AK15-59	WNH15C	Wally Noerenberg	Fed Fry	40,000,000	3,2n,1H		
AK15-60	TAKATZ15	Hidden Falls	Fed Fry	33,000,000	5n,2H		
AK15-61	TAKATZ15LL	Hidden Falls	Fed Fry	18,000,000	5n,4H		
AK15-62	SECOVE15LL	Hidden Falls	Fed Fry	46,000,000	8H		
AK15-63	CRAWFISH15	Medvejie	Fed Fry	27,000,000	6,3H		
AK15-64	ANITABAY15	Neets Bay	Fed Fry	20,000,000	1,6H		
AK15-65	KENDRICK15	Neets Bay	Fed Fry	2,000,000	5,3H		
AK15-66	NEETSBAY15SUM	Neets Bay	Fed Fry	55,000,000	4,4H		
AK15-67	BURNETTINLET15	Neets Bay	Fed Fry	5,000,000	4,4H5		
AK15-68	NEETSBAY15FALL	Neets Bay	Fed Fry	20,000,000	4,2,2H		
AK15-69	NAKATINLET15SUM	Neets Bay	Fed Fry	8,000,000	3,1,4H		
AK15-70	ANITABAYLL15	Neets Bay	Fed Fry	2,000,000	4n,4H		
AK15-71	NAKATINLET15FALL	Neets Bay	Fed Fry	8,000,000	3,4,1H		
AK15-72	BURNETTINLET15FALL	Neets Bay	Fed Fry	6,000,000	5,3n,3H		
AK15-73	NORTON15CHUM	Solomon R	Eyed Egg	160,000	1,2,2nH		
AK15-74	CHILKAT15	Chilkat Lk	Fed Fry	1,212,003	4n,3H		
AK15-75	KITOI15CHUM	Sturgeon R	Fed Fry	15,000,000	3,3,3H		
AK15-76	KITOI15CHUMA	Sturgeon R	Fed Fry	15,000,000	3,2,4H		
AK15-77	TAMGAS15	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 2015.

**SPECIES: COHO**

ID#	MARK TYPE	BROOD YEAR	RELEASE YEAR	SPECIES	STATE/ PROVINCE	REGION RELEASE	AGENCY	FACILITY
AK15-78	T	2015	2016	Coho	Alaska	Southcentral	PWSA	Wally Noerenberg
AK15-79	T	2015	2016	Coho	Alaska	Southcentral	CIAA	Trail Lakes
AK15-80	T	2015	2017	Coho	Alaska	Southcentral	CIAA	Trail Lakes
AK15-81	T	2015	2017	Coho	Alaska	Southcentral	ADFG	WJ Hernandez
AK15-82	T	2015	2017	Coho	Alaska	Southcentral	VFDA	Solomon Gulch
AK15-83	T	2015	2017	Coho	Alaska	Southcentral	ADFG	WJ Hernandez
AK15-84	T	2015	2017	Coho	Alaska	Southeast	NSRA	Medvejie
AK15-85	T	2015	2017	Coho	Alaska	Southeast	PWHA	Klawock
AK15-86	T	2015	2016	Coho	Alaska	Western	NSED	Norton Sound
AK15-87	T	2015	2016	Coho	Alaska	Southeast	SSRA	Neets Bay
AK15-88	T	2015	2016	Coho	Alaska	Western	Sunaq Tribe	Sunaq Tribe
AK15-89	T	2015	2016	Coho	Alaska	Western	VWM	White Mountain

ID#	MARK NAME	STOCK	STAGE	ESIMATED RELEASE	HATCH CODE	PRE-HATCH GRAPHIC	POST-HATCH GRAPHIC
AK15-78	WNH15COHO	Wally Noerenberg	Smolt	1,000,000	3H		
AK15-79	TRAILLAKES15SMCOHO	Bear Lk	Emergent Fry	555,000	4,3H		
AK15-80	BEARLAKE15COHO	Bear Lk	Smolt	555,000	5H		
AK15-81	COOKINLET15COHO	Ship Cr	Smolt	655,000	1,5H		
AK15-82	SGH15COHO	Solomon Gulch	Smolt	1,950,000	6H		
AK15-83	RESURRECTION15COHO	Bear Lk	Smolt	240,000	2,4H		
AK15-84	DEEPINLET15COHO	Salmon Lk	Smolt	225,000	4H		
AK15-85	KLAWOCK15COHO	Klawock Lk	Smolt	4000000	4,2H		
AK15-86	NORTON15COHO	Snake R	Eyed Egg	200,000	2,3H		
AK15-87	NAKAT15COHO	Neets Bay	Smolt	600,000	2,5H		
AK15-88	BUSKIN15	Buskin Lk	Eyed Egg	100,000	7H		
AK15-89	FISH15	Fish River	Eyed Egg	20,000	3,2H		

**SPECIES: CHINOOK**

ID#	MARK TYPE	BROOD YEAR	RELEASE YEAR	SPECIES	STATE/ PROVINCE	REGION RELEASE	AGENCY	FACILITY
AK15-90	T	2015	2017	Chinook	Alaska	Southeast	NSRA	Hidden Falls
AK15-91	T	2015	2017	Chinook	Alaska	Southeast	NSRA	Medvejie
AK15-92	T	2015	2017	Chinook	Alaska	Southeast	SSRA	Whitman Lake
AK15-93	T	2015	2017	Chinook	Alaska	Southeast	NSRA	Medvejie
AK15-94	T	2015	2016	Chinook	Alaska	Southcentral	ADFG	WJ Hernandez
AK15-95	T	2015	2016	Chinook	Alaska	Southcentral	ADFG	WJ Hernandez
AK15-96	T	2015	2016	Chinook	Alaska	Southcentral	ADFG	WJ Hernandez
AK15-97	T	2015	2016	Chinook	Alaska	Southcentral	ADFG	WJ Hernandez
AK15-98	T	2015	2016	Chinook	Alaska	Southcentral	ADFG	WJ Hernandez
AK15-99	T	2015	2015	Chinook	Alaska	Western	NSED	Norton Sound
AK15-100	T	2015	2016	Chinook	Alaska	Southcentral	CVTC	Chickaloon
AK15-101	T	2015	2017	Chinook	Alaska	Southeast	SSRA	Crystal Lake

ID#	MARK NAME	STOCK	STAGE	ESIMATED RELEASE	HATCH CODE	PRE-HATCH GRAPHIC	POST-HATCH GRAPHIC
AK15-90	HIDDENFALLS15CHIN	Hidden Falls	Smolt	650,000	4,2H		
AK15-91	GREENLAKE15CHIN	Medvejie	Smolt	2,500,000	3,4H		
AK15-92	WHITMAN15CHIN	Whitman Lk	Smolt	1,475,000	1,5H		
AK15-93	MEDVEJIE15CHIN	Medvejie	Smolt	550,000	2,3nH		
AK15-94	COOKINLET15CHIN	Cook Inlet	Smolt	1,211,000	2,3H		
AK15-95	SHIPCREEK15CHINS	Ship Cr	Smolt	210,000	2,3H4,2		
AK15-96	SHIPCREEK15CHINL	Ship Cr	Smolt	145,000	2,3H2,4		
AK15-97	PWS15CHIN	Deception Cr Stock	Smolt	315,000	2,4H		
AK15-98	RESURRECTION15CHIN	Crooked Cr	Smolt	212,000	2,5H		
AK15-99	SOUTHRIVER15	Unalakleet	Eyed Egg	240,000	6,2H		
AK15-100	CHICKALOON15	Moose Cr	Eyed Egg	100,000	3,2H		
AK15-101	CRYSTAL15CHIN	Crystal CR	Smolt	1,500,000	5,3H		