

**Annex to ICES CM 2000/ACFM:13**

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**Report of the**

**ICES COMPILATION OF MICROTAGS, FINCLIP AND  
EXTERNAL TAG RELEASES 1999**

**by**

**THE WORKING GROUP ON NORTH ATLANTIC SALMON**

**This report is not to be quoted without prior consultation with the General Secretary.** The document is a report of an expert group under the auspices of the International Council for the Exploration of the Sea and does not necessarily represent the view of the Council.

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## 1 TERMS OF REFERENCE

The terms of reference for the 2000 Working Group on North Atlantic Salmon (C.Res. 1999/2ACFM07) stated that the Group should

“With respect to the Atlantic salmon in the NASCO area, provide a compilation of microtag, finclip and external tag releases by ICES Member Countries in 1999”

Data were provided by Working Group members for national tagging programme, as far as possible including all agencies and organisations. These compilations for 1999 are presented by country together with a summary of the tags and finclips by all countries (Table 1). Data were supplied in the standard format agreed by the Working Group in 1997. A list of national tag clearing houses is also given (Appendix 1).

Table 2. Number of coded wire tags, fin clips, and external tags applied to Atlantic salmon in Canada, 1999.

Marking Agency <sup>1</sup>	Age	Life Stage	Hatchery or Wild <sup>2</sup>	Stock Origin	Primary Tag or Mark <sup>3</sup>	Number Marked	Code or Serial	Secondary Mark <sup>3</sup>	Release Date	Release Location	Comment
DFO-M		adult	H,W	St. John	Carlin-yellow	46	3898, 4349, 4100-4130, 4141-4152, 4265	none	Oct-Nov	St. John R	Broodstock
DFO-M		adult	H,W	St. John	Carlin-white	57	18531-18535 18500-18558	none	Oct-Nov	St. John R	Broodstock
DFO-M		adult	H,W	St. John	Carlin-red	146	4006-4007 1021-1096 1200-1299	none	Oct-Nov	St. John R	Broodstock
DFO-M		adult	H,W	St. John	Carlin-blue	70	1200-1270	none	Oct-Nov	St. John R	Broodstock
DFO-M		adult	H	St. John	Carlin-blue	3	1225, 1279	none	Jun-Jul	St. John R	
DFO-M		adult	H	St. John	Carlin-red	2	1019, 1020	none	Sep	St. John R	
DFO-M		adult	W	St. John	Carlin-white	100	19500-19599	none	Jun-Jul	St. John R	
DFO-M		adult	W	St. John	Carlin-orange	100	2600-2699	none	Jun-Jul	St. John R	
DFO-M		adult	W	St. John	Carlin-yellow	358	3396-3398, 3845-3899, 4000-4099, 4131-4140 4153-4399 1394-1399	none	Jun-Jul	St. John R	
DFO-M							GG31000-GG35999				
DFO-M	1+	smolt	H	St. John	Carlin-blue	5000		ADC	Apr-May	St. John R	
DFO-M	1+	smolt	H	St. John	ADC	308901		none	Apr-May	St. John R	
DFO-M	1+	smolt	H	St. John	ADC	15021		none	May	Petitcodiac R	
DFO-M	0+	parr	H	St. John	ADC	354639		none	Sep-Nov	St. John R	
DFO-M	0+	parr	H	St. John	ADC,PVC-L	1996		none	Oct	St. John R	
DFO-M	2+	smolt	H	Musquodoboit	ADC	8992		none	May	Musquodoboit R	
DFO-M	1+	smolt	H	Indian Bk	ADC	9384		none	May	Indian Bk	
DFO-M	2+	smolt	H	East R Sh Hbr	ADC	8212		none	May	East R Sh Hbr	
DFO-M	2+	smolt	H	East R Sh Hbr	CWT	4039	agency 62 4/2	ADC	May	East R Sh Hbr	
DFO-M	1+	smolt	H	East R Sh Hbr	CWT	8050	agency 62 4/1, 2/26,	ADC	May	East R Sh Hbr	
DFO-M	2+	smolt	H	Liscomb	ADC	17875		none	May	Liscomb R	
DFO-M	0+	parr	H	Medway	ADC	24853		none	Nov	Medway R	
DFO-M	1+	smolt	H	Lahave	ADC	9715		none	May	Lahave R	
DFO-M	1+	smolt	H	Sackville	ADC	4548		none	May	Sackville R	
DFO-M	1+	smolt	H	Musquodoboit	ADC	9960		none	May	Musquodoboit R	
DFO-M	1+	smolt	H	East R Sh Hbr	ADC	8768		none	May	East R Sh Hbr	
DFO-M	0+	parr	H	Lahave	ADC	12936		none	Oct	Petite Riviere	
DFO-M	0+	parr	H	Lahave	ADC	12936		none	Oct	Mushamush R	
DFO-M	1+	smolt	H	Lahave	ADC	9544		none	May	Mushamush R	
DFO-M	1+	smolt	H	Lahave	ADC	10804		none	May	Petite Riviere	
DFO-M	1+	smolt	H	Lahave	ADC	9960		none	May	Mersey R	
DFO-M	1+	smolt	H	Lahave	ADC	4980		none	May	Jordan R	
DFO-M	0+	parr	H	Lahave	ADC	23637		none	Oct	Lahave R	
DFO-M	1+	smolt	H	Tusket	ADC	15504		none	May	Bear R	
DFO-M	1+	smolt	H	Tusket	ADC	41465		none	Apr-May	Tusket R	
DFO-M	0+	parr	H	East R Sh Hbr	ADC	4364		none	Oct	East R Sh Hbr	
DFO-M	0+	parr	H	Liscomb	ADC	4833		none	Oct	Liscomb R	
DFO-M	0+	parr	H	Tusket	ADC	2826		none	Nov	Tusket R	
DFO-M	1+	parr	H	Lahave	ADC	19510		none	May	Lahave R	

DFO-M	0+	parr	H	Lahave	ADC	21000		none	Nov	Lahave R	
DFO-M	1+	smolt	H	Liscomb	ADC	38190		none	May	Liscomb R	
DFO-M	1+	smolt	H	Sackville	ADC	15968		none	May	Sackville R	
DFO-M	0+	parr	H	Musquodoboit	ADC	28000		none	Oct	Musquodoboit R	
DFO-M	0+	parr	H	Lahave	ADC	28384		none	Oct	Lahave R	
DFO-M	1+	smolt	H	Tusket	Carlin	3992	GG27000-GG30999	ADC	Apr-May	Tusket R	
DFO-M	1+	smolt	H	Salmon, Digby	ADC	7032		none	Apr	Salmon R Digby	
DFO-M	1+	smolt	H	Medway	ADC	41640		none	Apr	Medway R	
DFO-M	0+	parr	H	Salmon, Digby	ADC	14292		none	Oct	Salmon R Digby	
DFO-M	0+	parr	H	Lahave	ADC	12180		none	Oct	Lahave R	
DFO-M	0+	parr	H	Sackville	ADC	26598		none	Oct	Sackville R	
DFO-M	0+	parr	H	Gaspereau	ADC	22312		none	Sep	Gaspereau R	
DFO-M	1+	smolt	H	Lahave	ADC	11552		none	Apr	Clyde R	
DFO-M	1+	smolt	H	Gold	ADC	16432		none	Apr	Gold R	
DFO-M	1+	smolt	H	Gaspereau	ADC	17139		none	Apr	Gaspereau R	
DFO-M	0+	parr	H	Liscomb	ADC	18364		none	Oct	Liscomb R	
DFO-M	0+	parr	H	Tusket	ADC	25434		none	Oct	Tusket R	
DFO-M	0+	parr	H	Tusket	ADC	14130		none	Oct	Metegan R	
DFO-M	2+	smolt	H	Annapolis	ADC	4776		none	May	Annapolis R	
DFO-M	2+	smolt	H	Gaspereau	ADC	8337		none	May	Gaspereau R	
DFO-M	2-4	smolt	W	Tay	STR-green	877	9000-9884	ADC	Apr-May	Tay R	
DFO-M	2-4	smolt	W	Tay	ADC	888		none	Apr-May	Tay R	
DFO-M	0+ to 3+	parr	W	Tobique	STR-green	590	101-250,451-700, 1501-1762	none	Sep-Nov	Tobique R. - Nictau	
DFO-M	0+ to 3+	parr	H	Tobique	STR-green	63	101-250,451-700, 1501-1762				
DFO-M	0+ to 3+	parr	W	Tobique	STR-green	458	701-1100,1901-2065	none	Sep-Nov	Tobique R. - Gulquac	
DFO-M	0+ to 3+	parr	H	Tobique	STR-green	100	701-1100,1901-2065	none	Sep-Nov	Tobique R. - Gulquac	
DFO-M	0+ to 3+	parr	W	Tobique	STR-green	189	1101-1310	none	Sep-Nov	Tobique R. - Odell	
DFO-M	0+ to 3+	parr	H	Tobique	STR-green	20	1101-1310	none	Sep-Nov	Tobique R. - Odell	
DFO-M	1SW	adult	W/H	Tobique	Carlin-blue	52	8800-8852	none	Aug-Sep	Saint John R	Perth Andover
DFO-M	1SW,MSW	adult	W/H	Hammond	Carlin-orange	23	4102-4125	none	Aug-Sep	Hammond R	Estuary
DFO-M	1SW,MSW	adult	W/H	Hammond	Carlin-orange	2	4177,4188	none	Aug-Sep	Hammond R	Estuary
DFO-M	0+	parr	H	St. Croix	ADC	22450		none	Aug-Sep	St. Croix R	
DFO-M	0+	parr	H	St. John	ADC	182616		none	Sep	St. John R	
DFO-M	0+	parr	H	St. John	ADC	168425		none	Oct	St. John R	
DFO-M	0+	parr	H	St. John	ADC	8676		none	Nov	St. John R	
DFO-M	2+	smolt	H	NW Miramichi	ADC	4723		none	May	NW Miramichi R.	
DFO-M	1+	parr	H	Little River	ADC	7330		none	May	NW Miramichi R.	
DFO-M	0+	parr	H	Black Brook	ADC	10462		none	Nov	SW Miramichi R.	
DFO-M	0+	parr	H	Cains	ADC	16667		none	Oct	SW Miramichi R.	
DFO-M	0+	parr	H	Clearwater	ADC	56700		none	Nov	SW Miramichi R.	
DFO-M	0+	parr	H	Juniper	ADC	6600		none	Nov	SW Miramichi R.	
DFO-M	0+	parr	H	NW Miramichi	ADC	13577		none	Oct	NW Miramichi R.	
DFO-M	0+	parr	H	Rocky Brook	ADC	20689		none	Oct	SW Miramichi R.	
DFO-M	0+	parr	H	Sevogle	ADC	9123		none	Oct	NW Miramichi R.	
DFO-M	0+	parr	H	SW Miramichi	ADC	20262		none	Oct	SW Miramichi R.	
DFO-M	1+	parr	H	Little River	ADC	7330		none	May	NW Miramichi R.	
DFO-M	2+	smolt	H	Morell	ADC	21000		none	Apr-May	Trout R	
DFO-M	2+	smolt	H	Morell	ADC	45224		none	Apr-May	Morell R	

DFO-M	2+	smolt	H	Morell	ADC	3200		none	Apr-May	Valleyfield R	
DFO-M	1+	parr	H	Morell	ADC	3500		none	Oct	Valleyfield R	
DFO-M	0+	parr	H	Kedgwick	ADC	21150		none	Oct	Kedgwick	satellite rearing site
DFO-M	0+	parr	H	L Main Restig.	ADC	45940		none	Oct	L. Main Restigouche	satellite rearing site
DFO-M	0+	parr	H	L Main Restig.	ADC	35100		none	Oct	Restigouche	satellite rearing site
DFO-M	2+,3+,4+	smolt	W	NW Miramichi	STR-green	5423	NW0001-5649	none	May	NW Miramichi	smolt trap
DFO-M	2+,3+,4+	smolt	W	LSW Miramichi	STR-green	1822	NW7000-8999	none	May	LSW Miramichi	smolt wheel
DFO-M	1SW,MSW	adult	W	Tabusintac	Carlin-blue	47	zz86053-86099	none	Sep-Oct	Tabusintac R.	traps in estuary
DFO-M	1SW,MSW	adult	W	Tabusintac	Carlin-blue	100	zz54600-54699	none	Sep-Oct	Tabusintac R.	traps in estuary
DFO-M	1SW,MSW	adult	W	Tabusintac	Carlin-blue	100	zz63500-63599	none	Sep-Oct	Tabusintac R.	traps in estuary
DFO-M	1SW,MSW	adult	W	Tabusintac	Carlin-blue	50	zz86200-86249	none	Sep-Oct	Tabusintac R.	traps in estuary
DFO-M	1SW,MSW	adult	W	Miramichi	Carlin-blue	4	zz56004-56014	none	May-Oct	Miramichi	traps in estuary
DFO-M	1SW,MSW	adult	W	Miramichi	Carlin-blue	594	zz62300-62979	none	May-Oct	Miramichi	traps in estuary
DFO-M	1SW,MSW	adult	W	Miramichi	Carlin-blue	99	zz65600-65699	none	May-Oct	Miramichi	traps in estuary
DFO-M	1SW,MSW	adult	W	Miramichi	Carlin-blue	135	zz66000-66135	none	May-Oct	Miramichi	traps in estuary
DFO-M	1SW,MSW	adult	W	Miramichi	Carlin-blue	999	zz67000-67999	none	May-Oct	Miramichi	traps in estuary
DFO-M	1SW,MSW	adult	W	Miramichi	Carlin-blue	38	zz74899-74936	none	May-Oct	Miramichi	traps in estuary
DFO-M	1SW,MSW	adult	W	Miramichi	Carlin-blue	320	zz80082-80649	none	May-Oct	Miramichi	traps in estuary
DFO-M	1SW,MSW	adult	W	Miramichi	Carlin-blue	344	zz82176-82791	none	May-Oct	Miramichi	traps in estuary
DFO-M	1SW,MSW	adult	W	Miramichi	Carlin-blue	253	zz84360-84999	none	May-Oct	Miramichi	traps in estuary
DFO-M	1SW,MSW	adult	W	Miramichi	Carlin-blue	472	zz85079-85747	none	May-Oct	Miramichi	traps in estuary
DFO-M	1SW,MSW	adult	W	Miramichi	Carlin-blue	181	zz86100-86549	none	May-Oct	Miramichi	traps in estuary
DFO-M	1SW,MSW	adult	W	Miramichi	Carlin-blue	564	zz87276-87999	none	May-Oct	Miramichi	traps in estuary
DFO-M	1SW,MSW	adult	W	Restigouche	Carlin-blue	85	zz3700-3784	none	Jun-Jul	Restigouche	traps in estuary
DFO-M	1SW,MSW	adult	W	Restigouche	Carlin-blue	67	zz65100-65166	none	Jul-Sep	Restigouche	traps in estuary
DFO-M	1SW,MSW	adult	W	Restigouche	STR-green	61	NB09251-09350	none	Sep	Restigouche R.	broodstock seining
DFO-M	1SW,MSW	adult	W	LSW Miramichi	Carlin-blue	19	zz50920-50997	none	Sep-Nov	LSW Miramichi	Catamaran Bk
DFO-M	1SW,MSW	adult	W	LSW Miramichi	Carlin-blue	49	zz52911-52961	none	Sep-Nov	LSW Miramichi	Catamaran Bk
DFO-M	1SW,MSW	adult	W	Buctouche R.	Carlin-blue	69	zz63426-63494	none	Sep-Oct	Buctouche R.	traps in estuary
Québec	1+	smolt	H	riv. À Mars	ADC	65000		none	May	riv. À Mars	
Québec	2+	smolt	H	riv. À Mars	ADC	6700		none	May	riv. À Mars	
Québec		adult	W	St.-Jean Q8	T-bar	27	03068B, 03146B 03115B - 03123B 03151B - 03154B 03162B - 03166B 03172B, 03173B 03186B, 03196B 03197B	none	Jun-Jul	St. Jean Q8	
Québec		adult	W	Escoumins	T-bar	1	03697	none	Jun	Escoumins	
ASF	1	adult	W	Magaguadavic	T-bar-blue	1	4711	none	Jul	Magaguadavic R	
ASF	1	adult	W	Magaguadavic	T-bar-blue	1	4717	none	Jul	Magaguadavic R	
ASF	1	adult	W	Magaguadavic	T-bar-green	1	5448	none	Jul	Magaguadavic R	
ASF	1	adult	W	Magaguadavic	T-bar-green	1	5404	none	Jul	Magaguadavic R	
ASF	2	adult	A	Magaguadavic	T-bar-blue	1	4727	none	Jul	At Sea	
ASF	2,1	adult	A	Magaguadavic	T-bar-white	2	2702, 2703	none	Jul	At Sea	
ASF	1,1	adult	A	Magaguadavic	T-bar-white	2	2705, 2706	none	Aug	At Sea	
ASF	2,2,1	adult	A	Magaguadavic	T-bar-white	3	2707, 2708, 2709	none	Aug	At Sea	
ASF	2,1	adult	A	Magaguadavic	T-bar-white	2	2729, 2730	none	Aug	At Sea	
ASF	1,1,1	adult	A	Magaguadavic	T-bar-white	3	2732, 2733, 2734	none	Aug	At Sea	
ASF	2,1	adult	A	Magaguadavic	T-bar-white	2	2735, 2736	none	Aug	At Sea	

ASF	2,2,1	adult	A	Magaguadavic	T-bar-white	3	2738, 2739, 2740	none	Aug	At Sea	
ASF	1,2,2	adult	A	Magaguadavic	T-bar-white	3	2745, 2746, 2747	none	Aug	At Sea	
ASF	2	adult	A	Magaguadavic	T-bar-white	1	2748	none	Aug	At Sea	
ASF	1	adult	A	Magaguadavic	T-bar-white	1	2752	none	Aug	At Sea	
ASF	1,1,2	adult	A	Magaguadavic	T-bar-white	3	2785, 2786, 2787	none	Aug	At Sea	
ASF	1,2	adult	A	Magaguadavic	T-bar-white	2	2793, 2795	none	Aug	At Sea	
ASF	1,1	adult	A	Magaguadavic	T-bar-white	2	2798, 2799	none	Aug	At Sea	
ASF	1	adult	A	Magaguadavic	T-bar-green	1	5445	none	Jul	At Sea	
ASF		adult	L	Landlocked	T-bar-blue	1	4725	PVC-R	Oct	Magaguadavic R	
ASF		adult	L	Landlocked	T-bar-white	1	2728	PVC-L	Oct	Magaguadavic R	
ADAM	0+	parr	H	Margaree	ADC	78995		none	Oct	Margaree R	
DFO-N		kelt	W	Highlands	DST-green	29	N2363, N2365 N2367, N2370 N2377, N2381 N2382- N2385 N2390 N2393- N2399 N2403- N2408 N2412 N2414 - N2418	none	May-Jun	Highlands	
DFO-N		kelt	W	Highlands	Carlin-green	36	P36832 - P36867	none	May-Jun	Highlands	
DFO-N		kelt	W	Highlands	Carlin-green	1	P36880	none	May-Jun	Highlands	
DFO-N		smolt	W	Conne	STR-green	1616	17884 - 19500	none	May-Jun	Conne River	
DFO-N		smolt	W	Conne	STR-green	563	1 - 564	none	May-Jun	Conne River	
DFO-N		adult	W	Gander	Carlin-yellow	38	Y7961-Y7998	none	Jun-Aug	Gander River	
DFO-N		adult	W	Gander	Carlin-yellow	37	Y7901-Y7937	none	Jun-Aug	Gander River	
DFO-N		adult	W	Gander	Carlin-yellow	1	Y7848	none	Jun-Aug	Gander River	
DFO-N		adult	W	Gander	Carlin-yellow	9	Y7940-Y7948	none	Jun-Aug	Gander River	
DFO-N		adult	W	Gander	Carlin-yellow	151	Y7250-Y7400	none	Jun-Aug	Gander River	
DFO-N		adult	W	Gander	Carlin-yellow	96	Y7402-Y7495	none	Jun-Aug	Gander River	
DFO-N		kelt	W	Campbellton	T-bar-orange	572	J41112-J41174 J41175-J41537 J41539-J41524 J41551-J41559 J41561J41670 J41672J41724 J41726J41793 J41795-J41976 J41978-J41860 J41862-J41992	none	May-Jun	Campbellton River	
DFO-N		kelt	W	Campbellton	DST	51	36, 52, 92, 127, 134, 138, 169,189,198 204, 218, 244, 255, 259, 271, 274, 299, 323, 364, 423, 426, 441, 444, 446, 448, 469, 535, 537,538,539,	none	May-Jun	Campbellton River	kiwi & atkins tags

						540, 542, 543, 544, 546, 552, 554, 557, 559, 560, 563, 564, 565, 567, 569, 570, 574, 576, 578, 580, 599			
DFO-N	adult	W	Paradise	T-bar-green	191	S3001-S3246	none	Jun-Aug	Parasie River
DFO-N	adult	W	Humber River	Carlin-green	14	P37700-P37713	none	June-July	Humber River
DFO-N	adult	W	Humber River	Carlin-green	104	P37716-P37819	none	June-July	Humber River
DFO-N	adult	W	Humber River	Carlin-green	36	P37821-P37856	none	June-July	Humber River
DFO-N	adult	W	Humber River	Carlin-green	95	P37858-P37952	none	June-July	Humber River
DFO-N	adult	W	Humber River	Carlin-green	58	P37954-P38011	none	June-July	Humber River
DFO-N	adult	W	Humber River	Carlin-green	287	P38013-P38299	none	June-July	Humber River
DFO-N	adult	W	Humber River	Carlin-green	375	P38400-P38774	none	June-July	Humber River
DFO-N	adult	W	Humber River	Carlin-green	5	P38776-P38780	none	June-July	Humber River
DFO-N	kelt	W	Western Arm Bk	Carlin-blue	1	47810	none	May-Jun	Western Arm Bk
DFO-N	kelt	W	Western Arm Bk	Carlin-green	20	N 0480 - N 0499	none	May-Jun	Western Arm Bk
DFO-N	kelt	W	Western Arm Bk	Carlin	29	N 5570 - N 5598	none	May-Jun	Western Arm Bk
DFO-N	kelt	W	Western Arm Bk	Carlin	27	N 5600 - N 5626	none	May-Jun	Western Arm Bk

<sup>1</sup> ADAM=Aquatic Development Association of Margaree; ASF=Atlantic Salmon Federation; DFO=Department of Fisheries and Oceans (-M, Maritimes region; -N, Newfoundland region)

<sup>2</sup> A=aquaculture escapees; L=landlocked salmon

<sup>3</sup> ADC=adipose fin clip; DST=data storage tag (i.e., archival); PVC-L=left pelvic fin clip; PVC-R=right pelvic fin clip; STR=streamer tag

Number of coded wire tags, fin clips, and external tags applied to Atlantic salmon in Denmark, 1999.

Marking Agency <sup>1</sup>	Age	Life Stage	Hatchery or Wild	Stock Origin	Primary Tag or Mark	Number Marked	Code or Serial	Secondary Mark	Release Date	Release Location	Comment
DIFRES	1	smolt	H	mixed origin	Carlin	1000	143000-143999	none	19-Apr	Storaa River	
DIFRES	2	smolt	H	Skjernaa river	Carlin	300	144000-144299	none	29-Mar	Skjernaa River	

<sup>1</sup> DIFRES=Danish Institute of Fisheries Research

Number of coded wire tags, fin clips, and external tags applied to Atlantic salmon in France, 1999.

Marking Agency <sup>1</sup>	Age	Life Stage	Hatchery or Wild	Stock Origin	Primary Tag or Mark <sup>2</sup>	Number Marked	Code or Serial	Secondary Mark <sup>2</sup>	Release Date	Release Location	Comment
CSP	0+	parr	H	Brittany	ADC	8180		none	Aug	Trieux	
CSP	1+	smolt	H	Brittany	ADC	21351		none	Mar-Apr	Trieux	
CSP	0+	parr	H	Brittany	ADC	12747		none	Nov	Aulne	
CSP	1+	parr	H	Brittany	ADC	66753		none	Apr-May	Aulne	
CSP	1+	smolt	H	Brittany	ADC	26500		none	May	Aulne	
CSP	0+	parr	H	Adour	ADC	37182		none	Oct	Ariège (Garonne)	
CSP	1+	parr	H	Adour	ADC	24		none	Oct	Ariège (Garonne)	
CSP	0+	parr	H	Dordogne	ADC	60500		none	June	Dordogne	
CSP	0+	parr	H	Adour	ADC	61400		none	July	Gave Mauléon	
CSP	1+	parr	H	Adour	ADC	21600		FBM	Sep	Gave Oloron	
CSP	1+	smolt	H	Adour	ADC	3800		none	Mar	Gave Pau	
INRA	1,2	smolt	W	Scorff	VIE	379	see below	none	Mar-May	Scorff	mark/recap study
INRA	0+	parr	W	Oir	PCC	566		PIT	Oct	De la Roche B.(Oir trib)	

<sup>1</sup> CSP=National Council of Fishing; INRA=National Institute for Agricultural Research

<sup>2</sup> ADC=adipose fin clip; FBM=fluorescent bone marking; PCC=pectoral fin clip; PIT=passive integrated transponder; VIE=visible implant tag near

Codes for visual implant tags: KE2-KF5, KF8-KF9, KH1-KH3, KH5-KH9, KJ0-KJ4, KJ6-KL0, KL2-KM0, KM2, KM5-KM8, KN0-KN4, KN8-KP5, KP7-KP8, KR0-KS3, KS5-KT2, KT4-KW7, KW9-KY5, KY7-L01, L03-L16, L18-L20, L22-L30, L33, L35-L46, L49-L65, L67-L72, L75-L96, L98-LC2, LC4-LD5, LD7-LF9, LH0-LH9, LJ0-LK4, LK6-LK8, LL2-LM1, LM4

Number of coded wire tags, fin clips, and external tags applied to Atlantic salmon in Iceland, 1999.

Marking Agency <sup>1</sup>	Age	Life stage	Hatchery or Wild	Stock Origin	Primary Tag or Mark <sup>2</sup>	Number Marked	Code or Serial	Secondary Mark <sup>2</sup>	Release Date	Release Location	Comment
IFF	0+	smolt	H	Norðurá	CWT	10045	063263ser	ADC	June-July	Norðurá	
IFF	1+	smolt	H	Kollafjörður	CWT	940	063963ser	ADC	June-July	Ytri Rangá	
IFF	1+	smolt	H	Fljótaá	CWT	4219	064063ser	ADC	June-July	Fljótaá	
IFF	0+	smolt	H	Elliðaár	CWT	9999	064163ser	ADC	June-July	Elliðaár	
IFF	1+	smolt	H	Kollafjörður	CWT	770	064163ser	ADC	June-July	Eystri Rangá	
IFF	1+	smolt	H	Kollafjörður	CWT	990	064163ser	ADC	June-July	Ytri Rangá	
IFF	0+	smolt	H	Þjórsá	CWT	9733	064263ser	ADC	June-July	Þjórsá	
IFF	1+	smolt	H	Elliðaár	CWT	5001	064363ser	ADC	June-July	Elliðaár	
IFF	1+	smolt	H	Elliðaár	CWT	2507	064363ser	ADC	June-July	Elliðaár	
IFF	0+	smolt	H	Sogið	CWT	3004	064363ser	ADC	June-July	Sogið	
IFF	1+	smolt	H	Kollafjörður	CWT	242	064463ser	ADC	June-July	Eystri Rangá	
IFF	0+	smolt	H	Fnjóská	CWT	10056	064463ser	ADC	June-July	Fnjóská	
IFF	1+	smolt	H	Kollafjörður	CWT	526	064463ser	ADC	June-July	Þverá	
IFF	1+	smolt	H	Laxá+Selá	CWT	2003	064563ser	ADC	June-July	Breiðdalsá	
IFF	1+	smolt	H	Laxá+Selá	CWT	999	064563ser	ADC	June-July	Breiðdalsá	
IFF	1+	smolt	H	Hölkna	CWT	1998	064563ser	ADC	June-July	Hölkna	
IFF	1+	smolt	H	Laxá í Aðaldal	CWT	6031	064563ser	ADC	June-July	Laxá í Aðaldal	
IFF	1+	smolt	H	Elliðaár	CWT	9680	064663ser	ADC	June-July	Elliðaár	
IFF	1+	smolt	H	Laxá í Leirársveit	CWT	7514	064763ser	ADC	June-July	Laxá í Leirársveit	
IFF	1+	smolt	H	Lárós	CWT	1025	064763ser	ADC	June-July	Ytri Rangá	
IFF	1+	smolt	H	Straumfjarðará	CWT	1004	064763ser	ADC	June-July	Ytri Rangá	
IFF	1+	smolt	H	Kollafjörður	CWT	1005	064863ser	ADC	June-July	Eystri Rangá	
IFF	1+	smolt	H	Lárós	CWT	1012	064863ser	ADC	June-July	Eystri Rangá	
IFF	1+	smolt	H	Reykjadalsá	CWT	1004	064863ser	ADC	June-July	Eystri Rangá	
IFF	1+	smolt	H	Straumfjarðará	CWT	1002	064863ser	ADC	June-July	Eystri Rangá	
IFF	1+	smolt	H	Gljúfurá	CWT	1970	064863ser	ADC	June-July	Gljúfurá	
IFF	2+	smolt	H	Langá	CWT	1008	064863ser	ADC	June-July	Langá	
IFF	1+	smolt	H	Norðurá	CWT	3002	064863ser	ADC	June-July	Norðurá	
IFF	1+	smolt	H	Kollafjörður	CWT	1000	064863ser	ADC	June-July	Ytri Rangá	
IFF		smolt	W	Austurá	CWT	467	064963ser	ADC	June-July	Austurá	

IFF		smolt	W	Ellidhaár	CWT	1427	064963ser	ADC	June-July	Ellidhaár	
IFF		smolt	W	Núpsá	CWT	573	064963ser	ADC	June-July	Núpsá	
IFF		smolt	W	Vesturdalsá	CWT	5	064963ser	ADC	June-July	Vesturdalsá	
IFF	1+	smolt	H	Rangár	CWT	2014	065063ser	ADC	June-July	Eystri Rangá	
IFF	1+	smolt	H	Rangár	CWT	6022	065063ser	ADC	June-July	Ytri Rangá	
IFF	1+	smolt	H	Sogið	CWT	1903	065163ser	ADC	June-July	Sogið	
IFF	1+	smolt	H	Kollafjörður	CWT	3013	065163ser	ADC	June-July	Ytri Rangá	
IFF	1+	smolt	H	Rangár	CWT	6003	065163ser	ADC	June-July	Ytri Rangá	
IFF	1+	smolt	H	Rangár	CWT	2011	065163ser	ADC	June-July	Ytri Rangá	
IFF	1+	smolt	H	Hafralónsá	CWT	204	065263ser	ADC	June-July	Hafralónsá	
IFF	1+	smolt	H	Laxá í Aðaldal	CWT	824	065263ser	ADC	June-July	Laxá í Aðaldal	
IFF	1+	smolt	H	Sogið	CWT	2104	065263ser	ADC	June-July	Sogið	
IFF		smolt	W	Austurá	CWT	19	065363ser	ADC	June-July	Austurá	
IFF		smolt	W	Núpsá	CWT	17	065363ser	ADC	June-July	Núpsá	
IFF		smolt	W	Vesturdalsá	CWT	1308	065363ser	ADC	June-July	Vesturdalsá	
IFF		adult	W		T-bar-green	26	IS64300-IS64333	DST	May	OlfusaRiver system	
IFF		adult	W		T-bar-green	1	IS47147	DST	May	OlfusaRiver system	
IFF		adult	W		T-bar-green	1	IS47147	DST	May	OlfusaRiver system	
IFF		adult	W		T-bar-green	1	IS47184	DST	May	OlfusaRiver system	
IFF		adult	W		T-bar-white	11	IS01501-IS01511	DST	May	River Botnsa	
IFF		adult	W		T-bar-green	6	IS61186-IS61191	DST	July	63° 00' 05" N 26° 28' 260" W	
IFF		adult	W		T-bar-white	2	IS01528-IS01529	DST	July	64° 47' 80" N 24° 15' 62" W	
IFF		adult	W		T-bar-blue	4	IS48395-IS48398	DST	July	Hraunsfjord	
IFF		adult	H		T-bar-green	1195	IS68001-IS69249	none	July-Aug	Nodlingaflot	Ocean ranch./put&take
IFF		adult	H		T-bar-green	50	IS66950-IS66999	none	July-Aug	Nodlingaflot	Ocean ranch./put&take
IFF		adult	H		T-bar-blue	96	IS47025-IS47171	none	July-Aug	Nodlingaflot	Ocean ranch./put&take
IFF		adult	W		T-bar-green	100	IS69500-IS69599	none	July-Aug	Laxa Adaldal	Catch and release
IFF		adult	W		T-bar-green	9	IS67825-IS67835	none	July	Hafjardara	Catch and release
IFF		adult	W		T-bar-green	10	IS67825-IS67836	none	July	Hafjardara	Catch and release
IFF		adult	W		T-bar-blue	25	Grímsá 2001-2025	none	July-Aug	Grimsa	Catch and release
IFF		adult	W		T-bar-blue	24	Grímsá 2051-2074	none	July-Aug	Grimsa	Catch and release
IFF		adult	W		T-bar-blue	38	Grímsá 2101-2138	none	July-Aug	Grimsa	Catch and release
IFF		adult	W		T-bar-blue	55	Grímsá 2201-2255	none	July-Aug	Grimsa	Catch and release
IFF		adult	W		T-bar-blue	11	Grímsá 2601-2611	none	July-Aug	Grimsa	Catch and release

<sup>1</sup> IFF=Institute of Freshwater Fisheries

<sup>2</sup> ADC=adipose fin clip; CWT=coded wire tag (i.e. microtag); DST=data storage tag

Number of coded wire tags, fin clips, and external tags applied to Atlantic salmon in Ireland, 1999.

Marking Agency <sup>1</sup>	Age	Life stage	Hatchery or Wild	Stock Origin	Primary Tag or Mark <sup>2</sup>	Number Marked	Code or Serial	Secondary Mark <sup>2</sup>	Release Date	Release Location	Comment
Marine Inst.	1+	parr	H	Shannon	CWT	8341	47/19/23A	ADC	24/04/99	Liffey	transfer - 23/02/'99
Marine Inst.	1+	parr	H	Shannon	CWT	4959	47/02/13	ADC	27/04/99	Shannon	MSW 97cm-m
Marine Inst.	1+	parr	H	Shannon	CWT	10329	47/02/12	ADC	27/04/99	Shannon	MSW 97cm-m
Marine Inst.	1+	parr	H	Shannon	CWT	8881	47/18/33A	ADC	27/04/99	Shannon	MSW 90cm-m
Marine Inst.	1+	parr	H	Shannon	CWT	9508	47/02/11	ADC	27/04/99	Shannon	MSW - all female
Marine Inst.	1+	parr	H	Shannon	CWT	6193	47/18/56A	ADC	27/04/99	Shannon	MSW - all female
Marine Inst.	1+	parr	H	Shannon	CWT	6278	47/18/57A	ADC	27/04/99	Shannon	MSW - all female
Marine Inst.	1+	parr	H	Corrib	CWT	1618	47/18/60A	ADC	29/03/99	Cong	MSW - upstream
Marine Inst.	1+	parr	H	Corrib	CWT	8565	47/18/46A	ADC	29/03/99	Cong	MSW - upstream
Marine Inst.	1+	parr	H	Corrib	CWT	3326	47/18/59A	ADC	15/04/99	Corrib	MSW - downstream
Marine Inst.	1+	parr	H	Corrib	CWT	6579	47/18/47A	ADC	15/04/99	Corrib	MSW - downstream
Marine Inst.	1+	parr	H	Erriff	CWT	648	47/18/51A	ADC	12/04/99	Erriff	transfer
Marine Inst.	1+	parr	H	Erriff	CWT	7438	47/18/36A	ADC	12/04/99	Erriff	transfer
Marine Inst.	1+	parr	H	Erriff	CWT	1487	47/17/50B	ADC	22/04/99	Erriff	transfer - direct
Marine Inst.	1+	parr	H	Bunowen	CWT	4741	47/03/03	ADC	08/04/99	Bunowen	transfer
Marine Inst.	1+	parr	H	Bunowen	CWT	10968	47/03/02	ADC	08/04/99	Bunowen	transfer
Marine Inst.	1+	parr	H	Burrishoole	CWT	10949	47/03/01	ADC	28/04/99	Bundorragha	
Marine Inst.	1+	parr	H	Burrishoole	CWT	1133	47/18/61A	ADC	28/04/99	Bundorragha	
Marine Inst.	1+	parr	H	Delphi	CWT	11079	47/02/09	ADC	28/04/99	Bundorragha	
Marine Inst.	1+	parr	H	Delphi	CWT	8898	47/02/10	ADC	28/04/99	Bundorragha	
Marine Inst.	1+	parr	H	Delphi	CWT	11186	47/02/14	ADC	28/04/99	Bundorragha	
Marine Inst.	1+	parr	H	Delphi	CWT	11080	47/02/15	ADC	28/04/99	Bundorragha	
Marine Inst.	1+	parr	H	Delphi	CWT	10985	47/02/16	ADC	28/04/99	Bundorragha	
Marine Inst.	1+	parr	H	Delphi	CWT	10938	47/02/17	ADC	28/04/99	Bundorragha	
Marine Inst.	1+	parr	H	Hybrid	CWT	5661	47/18/48A	ADC	29/04/99	Burrishoole	freeze brand - H
Marine Inst.	1+	parr	H	Fanad	CWT	9131	47/19/24A	ADC	29/04/99	Burrishoole	freeze brand - T
Marine Inst.	1+	parr	H	Hybrid	CWT	7297	47/19/22A	ADC	29/04/99	Burrishoole	freeze brand - ^
Marine Inst.	1+	parr	H	Burrishoole	CWT	2544	47/19/09A	ADC	29/04/99	Burrishoole	freeze brand - X wild
Marine Inst.	1+	parr	H	Owenmore	CWT	3894	47/17/49B	ADC	29/04/99	Burrishoole	freeze brand - O wild
Marine Inst.	1+	parr	H	Burrishoole	CWT	2913	47/18/50A	ADC	29/04/99	Burrishoole	freeze brand - S
Marine Inst.	1+	parr	H	Burrishoole	CWT	5640	47/18/27A	ADC	23/03/99	Burrishoole	vaccinated

Marine Inst.	1+	parr	H	Burrishoole	CWT	4353	47/19/15A	ADC	30/04/99	Burrishoole	vaccinated
Marine Inst.	1+	parr	H	Burrishoole	CWT	5616	47/01/01B	ADC	30/04/99	Burrishoole	
Marine Inst.	1+	parr	H	Burrishoole	CWT	7108	47/18/38A	ADC	30/04/99	Burrishoole	
Marine Inst.	1+	parr	H	Erne	CWT	9137	47/02/03	ADC	30/04/99	Erne	Assaroe Lake
Marine Inst.	1+	parr	H	Erne	CWT	10069	47/03/04	ADC	05/05/99	Erne	Tailrace
Marine Inst.	1+	parr	H	Erne	CWT	7838	47/03/05	ADC	29/04/99	Erne	Belleek
Marine Inst.	1+	parr	H	Erne	CWT	9060	47/03/06	ADC	04/05/99	Erne	Upstream
Marine Inst.	1+	parr	H	Erne	CWT	9502	47/03/07	ADC	19/04/99	Erne	Swanlinbar
Marine Inst.	1+	parr	H	Erne	CWT	10432	47/02/05	ADC	05/05/99	Erne	Tailrace
Marine Inst.	1+	parr	H	Erne	CWT	9038	47/03/08	none	30/03/99	Erne	Upstream
Marine Inst.	1+	parr	H	Screebe	CWT	11530	47/02/07	ADC	14/04/99	Screebe	Hatchery pool
Marine Inst.	1+ to 3+	smolt	W	Corrib	CWT	1427	47/03/09	ADC	26/04/99	Galway	Trap
Marine Inst.	1+ to 3+	smolt	W	Corrib	CWT	1352	47/03/10	ADC	29/04/99	Galway	Trap
Marine Inst.	1+ to 3+	smolt	W	Corrib	CWT	1623	47/03/11	ADC	13/05/99	Galway	Trap
Marine Inst.		smolt	H		ADC	150000		none			

<sup>1</sup> Marine Inst.=Marine Institute of Ireland

<sup>2</sup> ADC=adipose fin clip; CWT=coded wire tag (i.e. microtag); CWT-S=sequential CWT rather than batch tags

Number of coded wire tags, fin clips, and external tags applied to Atlantic salmon in Norway, 1999.

Marking Agency <sup>1</sup>	Age	Life Stage	Hatchery or Wild	Stock Origin	Primary Tag or Mark <sup>2</sup>	Number Marked	Code or Serial	Secondary Mark <sup>2</sup>	Release Date	Release Location	Comment
NINA	2+	smolt	H	Imsa	Carlin	2948	NF-20000-22999	none	04 May	Imsa	
NINA	1+	smolt	H	Imsa	Carlin	2991	NF-27000-29999	none	04 May	Imsa	
NINA	1+	smolt	H	Lone	Carlin	1000	NF-32000-32999	none	04 May	Imsa	
NINA	2+	smolt	H	Lone	Carlin	1983	NF-33000-34999	none	04 May	Imsa	
NINA	1+	smolt	H	Figgjo	Carlin	1489	NF-35000-36499	none	04 May	Imsa	
NINA	1+	smolt	H	Suldal	Carlin	1118	NF-36500-37699	none	04 May	Imsa	
NINA		smolt	W	Imsa	Carlin	381	NC-11535-11919	none		Imsa/fella	
NINA	2+	smolt	H	Figgjo	Carlin	1835	NF-30000-31849	none	06 May	Figgjo	
NINA	1+	smolt	H	Imsa	Carlin	1989	NF-23000-24999	none	10 May	Dirdal	
NINA	1+	smolt	H	Imsa	Carlin	1991	NF-25000-26999	none	10 May	Frafjord	
NINA	2+	smolt	H	Imsa	Carlin	2948	NF-20000-22999	none	04 May	Imsa	
NINA	1+	smolt	H	Imsa	Carlin	1073	NF-37700-38899	none	04 May	Imsa	
NINA	1+	smolt	H	Suldal	Carlin	1115	NF-38900-40099	none	04 May	Imsa	
NINA	1+	smolt	H	Imsa	Carlin	1092	NF-40100-41299	none	04 May	Imsa	
NINA	1	smolt	H	Suldal	Carlin	2392	NE-73100-75499	none	06 May	Suldal	
NINA	1	smolt	H	Suldal	Carlin	2485	NE-75500-77999	none	06 May	Suldal	
NINA	1	smolt	H	Suldal	Carlin	2497	NE-84000-86499	none	06 May	Suldal	
NINA	1	smolt	H	Suldal	Carlin	2486	NE-86500-88999	none	06 May	Suldal	
NINA	1	smolt	H	Suldal	Carlin	2006	NE-89000-91499	none	06 May	Sandsfjord	
NINA	1	smolt	H	Suldal	Carlin	2448	NE-91500-93999	none	06 May	Sandsfjord	
NINA	1	smolt	H	Suldal	Carlin	2497	NE-94000-96499	none	03 May	Suldal	
NINA	1	smolt	H	Suldal	Carlin	2496	NE-96500-98999	none	03 May	Suldal	
NINA	1	smolt	H	Suldal	Carlin	99	NZ37800-37899	none	06 May	Suldal	
NINA	1	smolt	H	Vikja	Carlin	3000	NE-33000-35999	none	10 May	Vikja,Sogn	
NINA	2	smolt	H	Eira	Carlin	2993	NE-36000-38999	none	07 May	Eira	
NINA	2	smolt	H	Eira	Carlin	2989	NE-39000-41999	none	07 May	Eira	
NINA	1	smolt	H	Dale	Carlin	2940	NE-78000-80957	none	20 May	Dale/Vaksdal	
NINA	1	smolt	H	Dale	Carlin	2959	NE-81000-83999	none	20 May	Dale/Vaksdal	
NINA		smolt	W	Vosso	Carlin	126	ND-48000-48125	none	23 Apr	Vosso	
NINA		smolt	W	Vosso	Carlin	991	ND-49000-49999	none	23 Apr	Vosso	
NINA		smolt	W	Ekso	Carlin	89	ND-48200-48288	none	30 Apr	Ekso	

NINA		smolt	W	Ekso	Carlin	13	ND-48700-48712	none	30 Apr	Ekso
NINA	1	smolt	H	Mandal	Carlin	1996	NE-69000-70999	none	19 May	Mandal
NINA	1	smolt	H	Mandal	Carlin	997	NE-71000-71999	none	19 May	Mandal
NINA	1	smolt	H	Mandal	Carlin	1095	NE-72000-73099	none	19 May	Mandal
NINA	1	smolt	H	Drammen	Carlin	998	NE-65000-65999	none	19 May	Drammen
NINA	1	smolt	H	Drammen	Carlin	1000	NE-66000-66999	none	19 May	Drammen
NINA	1	smolt	H	Drammen	Carlin	982	NE-67000-67999	none	19 May	Drammen
NINA	1	smolt	H	Drammen	Carlin	997	NE-68000-68999	none	19 May	Drammen
NINA		smolt	W	Bjerkreim	Carlin	511	NE-4000-4519	none	24 Apr	Bjerkreim
NINA	1	smolt	H	Audna	Carlin	400	NE-3000-3399	none	11 May	Audna
NINA	1	smolt	H	Audna	Carlin	2596	NE-58400-60999	none	11 May	Audna
NINA		smolt	W	Audna	Carlin	81	NE-57000-57099	none	20 Mar	Audna
NINA		smolt	W	Audna	Carlin	300	NE-57200-57499	none	20 Mar	Audna
NINA		smolt	W	Audna	Carlin	300	NE-57600-57899	none	20 Mar	Audna
NINA		smolt	W	Audna	Carlin	200	NE-58000-58199	none	20 Mar	Audna
NINA		smolt	W	Audna	Carlin	30	NE-58300-58329	none	20 Mar	Audna
NINA	1	smolt	H	Alta	Carlin	1274	ND-60726-61999	none	08 July	Alta
NINA	1	smolt	H	Alta	Carlin	1736	NE-42000-43735	none	08 July	Alta
NINA	1	smolt	H	Alta	Carlin	3016	NE-43736-46751	none	08 July	Alta
NINA	1	smolt	H	Alta	Carlin	3009	NE-48958-51966	none	30 Jun	Alta
NINA	2	smolt	H	Alta	Carlin	3083	NE-51967-55049	none	01 Jul	Alta
NINA	1	smolt	H	Alta	Carlin	1342	ND-57001-58349	none	June	Halselva
NINA	2	smolt	H	Alta	Carlin	1307	ND-58350-59711	none	June	Halselva
NINA	1	smolt	H	Alta	Carlin	204	ND-59713-59916	none	05 Jul	Halselva
NINA	2	smolt	H	Alta	Carlin	202	ND-59917-60118	none	05 Jul	Halselva
NINA	1	smolt	H	Alta	Carlin	304	ND-60119-60422	none	05 Jul	Halselva
NINA	2	smolt	H	Alta	Carlin	302	ND-60423-60725	none	05 Jul	Halselva
NINA	1	smolt	H	Alta	Carlin	1406	ND-46752-48157	none	02-Jul	Halselva
NINA	1	smolt	H	Alta	Carlin	398	ND-48159-48557	none	22-Jun	Halselva
NINA	2	smolt	H	Alta	Carlin	394	NE-48558-48957	none	22-Jun	Halselva
NINA	1	smolt	H	Alta	Carlin	1603	NE-55050-56652	none	25-Jun	Halselva
NINA		smolt	W	Hals	Carlin	unknown		none		Halselva/fella
NINA		adult		Bjerkreim	Lea	74	X85301-85400	none	15-Nov	Bjerkreim

NINA		adult			Lea	21	X84108-84200	none	Jun	Agdenes
NINA		adult			Lea	135	X84401-84535	none	Jun-July	Agdenes
Rådg.biol.		smolt	W	Gloppen	Carlin	812	NE-61000-61811	none	22-Apr	Gloppenelv
Rådg.biol.		smolt	W	Ommedal	Carlin	814	NE-61812-62625	none	07-May	Ommedals-/Åelv
Rådg.biol.		smolt	W	Oselva	Carlin	1230	NE-63000-64229	none	30-Apr	Oselva, Os
Rådg.biol.		smolt	W	Jølstra	Carlin	1001	NE-99000-99999	none	30-Apr	Jølstra
Rådg.biol.		smolt	W	Jølstra	Carlin	3000	NF-50000-52999	none	30-Apr	Jølstra
TOFA	2	smolt	H	Nidelv	Carlin	998	ND-45000-45999	none	20 May	Nidelva
TOFA	2	smolt	H	Nidelv	Carlin	999	NE-32000-32999	none	20 May	Nidelva
TOFA	2	smolt	H	Nidelv	Carlin	998	NF-49000-49999	none	20 May	Nidelva
Vitensk.museum		smolt	W	Stjørdal	Carlin	1000	NC-56000-56999	none	Mar-Apr	Stjørdalselva
Vitensk.museum		smolt	W	Stjørdal	Carlin	370	NC-58130-58499	none	May-Jun	Stjørdalselva
Vitensk.museum		smolt	W	Stjørdal	Carlin	500	NC-63500-63999	none	Mar-Apr	Stjørdalselva

<sup>1</sup> NINA=Norwegian Institute of Nature Research; Rådg.biol.=Rådgivende Biologer; TOFA=Trondheim Fisheries Administration;  
Vitensk.museum=University of Trondheim

Number of coded wire tags, fin clips, and external tags applied to Atlantic salmon in Russia, 1999.

Marking Agency <sup>1</sup>	Age	Life Stage	Hatchery or Wild	Stock Origin	Primary Tag or Mark <sup>2</sup>	Number Marked	Code or Serial	Secondary Mark <sup>2</sup>	Release Date	Release Location	Comment
Murmanrybvod	2+	smolt	H	Umba R.	ADC	145600		none	June	Umba River	
Murmanrybvod	2+	smolt	H	Kola R.	ADC	141200		none	June	Kola River	
Murmanrybvod	1SW,2SW	adult	W	Kola R.	Carlin	127	57073-57999	none	Oct	Kola River	
PINRO	2+	smolt	H	Umba R.	Carlin	1000	59000-59999	none	June	Umba River	
PINRO	1SW,2SW	adult	W	Iokanga R.	Carlin	91	273031-298267	none	July	Iokanga River	
PINRO & ASF	1SW,2SW	adult	W	Ponoi R.	T-bar	1218	11001-12489	none	Jun-Sep	Ponoi River	
PINRO & ASF	3+,4+	smolt	W	Ponoi R.	ADC	207		none	July	Ponoi River	
Karelrybvod	2+	parr	H	Keret R.	ADC	123400		none	May	Keret River	
Karelrybvod	2+	parr	H	Keret R.	ADC	31100		none	May	Wyg River	
Karelrybvod	2+	smolt	H	Keret R.	ADC	43800		none	May	Keret River	
Karelrybvod	2+	smolt	H	Keret R.	ADC	12100		none	May	Wyg River	
Karelrybvod	3+	smolt	H	Kem R.	ADC	16900		none	May	Kem River	

<sup>1</sup> ASF=Atlantic Salmon Federation; PINRO=Polar Research Institute of Marine Fisheries and Oceanography

<sup>2</sup> ADC=adipose fin clip

Number of coded wire tags, fin clips, and external tags applied to Atlantic salmon in Spain, 1999.

Marking Agency	Age	Life Stage	Hatchery or Wild	Stock Origin	Primary Tag or Mark <sup>1</sup>	Number Marked	Code or Serial	Secondary Mark <sup>1</sup>	Release Date	Release Location	Comment
Sección de Pesca	1	smolt	H	Sella	ADC	6000		SI	Feb	Sella	
Sección de Pesca	1	smolt	H	Narcea	ADC	26000		SI	Feb	Narcea	
Sección de Pesca	1	smolt	H	Eo	CWT	17000		SI	Feb	Eo	
Sección de Pesca	1	parr	H	Sella	ADC	10000		SI	Nov	Sella	
Sección de Pesca	1	parr	H	Sella	ADC	15000		SI	Oct	Sella-Piloña	
Sección de Pesca	1	parr	H	Esva	ADC	5000		SI	Nov	Esva	
Sección de Pesca	1	parr	H	Esva	ADC	9000		SI	Nov	Esva	
Sección de Pesca	1	parr	H	Narcea	ADC	36000		SI	Dec	Narcea	
Sección de Pesca	1	parr	H	Narcea	ADC	36000		SI	Nov	Narcea	
Sección de Pesca	1	parr	H	Eo	CWT	30000		SI	Nov	Eo	
Gobierno de Navarra	1+	smolt	H	Bidasoa-98	CWT	5580	23/50/02	ADC	Mar	R. Bidasoa	
Gobierno de Navarra	0+	parr	H	Bidasoa-99	ADC	21159		none	Jun	R. Bidasoa	

<sup>1</sup> ADC=adipose fin clip; CWT=coded wire tag (i.e. microtag)

Number of coded wire tags, fin clips, and external tags applied to Atlantic salmon in UK (England & Wales), 1999.

Marking Agency <sup>1</sup>	Age	Life Stage	Hatchery or Wild	Stock Origin	Primary Tag or Mark <sup>2</sup>	Number Marked	Code or Serial	Secondary Mark <sup>2</sup>	Release Date	Release Location	Comment
EA North East	1+	parr	H	Tyne	CWT	7166	20/42/18	ADC	01-Mar	Kielder Burn	R.Tyne
EA North East	1+	parr	H	Tyne	CWT	7299	20/42/19	ADC	01-Apr	Main Rede	R.Tyne
EA North East	1+	parr	H	Tyne	CWT	7126	20/42/17	ADC	01-Apr	Main S. Tyne	R.Tyne
EA Thames	1+	smolt	H	Delphi	ADC	5000		none	19-Mar	Kennet	R.Thames
EA Thames	1+	smolt	H	Delphi	ADC	3721		none	22-Mar	Kennet	R.Thames
EA Thames	1+	smolt	H	Shannon	CWT	10300	20/42/04	ADC	22-Mar	Kennet	R.Thames
EA Thames	1+	smolt	H	Shannon	CWT	10150	22/42/63	ADC	22-Mar	Kennet	R.Thames
EA Thames	1+	smolt	H	Shannon	CWT	10100	19/42/12	ADC	25-Mar	Kennet	R.Thames
EA Thames	1+	smolt	H	Shannon	CWT	10250	23/42/10	ADC	25-Mar	Kennet	R.Thames
EA Thames	2+	smolt	H	Thames	ADC	2846		none	01-Apr	Kennet	R.Thames
EA Thames	1+	smolt	H	Delphi	ADC	4923		none	23-Apr	Kennet	R.Thames
EA Thames	1+	smolt	H	Delphi	ADC	296		none	07-May	Kennet	R.Thames
EA Thames		adult	W	Thames	T-bar	34	4625 - 4657	Radio	Jun -Nov	Thames	
EA Southern		adult	W	Test	T-bar-green	10	C000091-C0000100	Radio		Test	
EA Southern		adult	W	Test	T-bar-white	4	B01151 - B01153	Radio		Test	
EA Southern	0+	parr	H	Test	CWT	9850	01/42/28	ADC	21-Dec	Test	
EA Southern	0+	parr	H	Test	ADC	45473		none		Test	
EA Wales		adult	W	Taff	T-bar	305		none	Apr-Dec	Taff	
EA Wales		adult	W	Taff	T-bar	11		none	May-Oct	Severn Est	
EA Wales		adult	W	Dee	T-bar-blue	706	1138 - 1845	none	Feb-Oct	Dee	
EA Wales	1+	smolt	H	Dee	CWT	4267	22/42/57	ADC	01-Feb	Tryweryn	R.Dee
EA Wales	1+	smolt	H	Dee	CWT	4433	22/42/56	ADC	03-Feb	Alwen	R.Dee
EA Wales	1+	smolt	H	Dee	CWT	6586	22/42/61	ADC	04-Feb	Alwen	R.Dee
EA Wales	2+	smolt	H	Taff	CWT	5000	23/42/11	ADC	19-Apr	Taff	
EA Wales	2+	smolt	H	Taff	CWT	1500	23/42/11	ADC	20-Apr	Taff	
EA Wales		smolt	W	Dee	CWT	165	01/42/22	ADC	Apr-May	R.Dee	R.Dee
CEFAS		smolt	W	R.Lyd	CWT	436	01/42/03	ADC	Apr-May	R.Lyd	R.Tamar
CEFAS		smolt	W	R.Inny	CWT	716	01/42/02	ADC	Apr-May	R.Inny	R.Tamar
EA South West	1+	smolt	H	Axe	ADC	5000		none	01-May	Axe	
EA South West	2+	smolt	H	Axe	ADC	5000		none	May	Axe	
EA South West	1+	parr	H	Avon/Stour	ADC	12250		none	Mar-Nov	Avon (Hants.)	
EA South West		adult	W	Avon/Stour	T-bar	14		none	Jun -Jul	Avon/Stour	
EA North West		adult	W	Eden	T-bar	106	0030 - 0498	Radio	Mar-Nov	Eden	

<sup>1</sup> EA=Environment Agency ; CEFAS=Center for Environment, Fisheries, and Aquaculture Science

<sup>2</sup> ADC=adipose fin clip; CWT=coded wire tag (i.e. microtag); Radio=radio transmitter

Number of coded wire tags, fin clips, and external tags applied to Atlantic salmon in UK (N. Ireland), 1999.

Marking Agency <sup>1</sup>	Age	Life Stage	Hatchery or Wild	Stock Origin	Primary Tag or Mark <sup>2</sup>	Number Marked	Code or Serial	Secondary Mark <sup>2</sup>	Release Date	Release Location	Comment
DARD	2+	smolt	H	R. Bush	CWT	1395	43/16/30	ADC	08-Apr	R. Lagan	
DARD	2+	smolt	H	R. Bush	CWT	1736	43/16/31	ADC	29-Mar	R. Bush	
DARD	2+	smolt	H	R. Bush	CWT	498	43/16/21	ADC	25-Feb	R. Bush	
DARD	1+	smolt	H	R. Bush	CWT	5857	43/16/42	ADC	10-May	R. Bush	
DARD	1+	smolt	H	R. Bush	CWT	9303	43/16/41	ADC	07-Apr	R. Bush	
DARD	1+	smolt	H	R. Bush	CWT	2180	43/16/33	ADC	08-Apr	R. Lagan	
DARD	1+	smolt	H	R. Bush	ADC	12838		none	29-Mar	R. Bush	
DARD	2+	smolt	H	R. Bush	ADC	1411		none	29-Mar	R. Bush	
DARD		kelt	W,H	R. Bush	ADC	320		none	03-Feb	R. Bush	panjetted ventral surface
DARD	1+,2+	smolt	W	R. Bush	CWT-S	1394	43/01/01	ADC	23-Apr	R. Bush	

<sup>1</sup> DARD=Department of Agriculture and Rural Development

<sup>2</sup> ADC=adipose fin clip; CWT=coded wire tag (i.e. microtag)

Number of coded wire tags, fin clips, and external tags applied to Atlantic salmon in UK (Scotland), 1999.

Marking Agency <sup>1</sup>	Age	Life Stage	Hatchery or Wild	Stock Origin	Primary Tag or Mark <sup>2</sup>	Number Marked	Code or Serial	Secondary Mark <sup>2</sup>	Release Date	Release Location	Comment
FRS	2-3-4	smolt	W	Girnock	CWT-S	2385	62/50/26	ADC	Feb-May	Girnock	Trib of Aberdeen. Dee
FRS	1-2-3	parr	W	Girnock	CWT-S	479	62/50/26	ADC	Sep-Dec	Girnock	
FRS	1-2-3	parr	W	Girnock	ADC	38		PIT	Oct-Dec	Girnock	
FRS	2-3-4	smolt	W	Baddoch	CWT-S	1363	62/50/26	ADC	Feb-May	Baddoch	Trib of Aberdeen. Dee
FRS	1-2-3	parr	W	Baddoch	CWT-S	233	62/50/26	ADC	Sep-Dec	Baddoch	
FRS	1	smolt	H	Conon	CWT	7285	62/16/46	ADC	Spring	R. Conon	
FRS	1	smolt	H	Conon	CWT	6860	62/16/47	ADC	Spring	R. Conon	
FRS		smolt	W	Conon	CWT	1244	62/16/48	ADC	Spring	R. Conon	
FRS		smolt	W	Conon	CWT	550	62/19/09	ADC	Spring	R. Conon	
FRS	0	fry-fed	H	Tay	ADC	7900		none	Summer	Cochill Burn	River Braan
FRS		parr	W	Conon	PIT	1262		none	Spring	R. Conon	
FRS		smolt	W	Conon	PIT	1248		none	Spring	R. Conon	
FRS	1-4	smolt	W	North Esk	Carlin-green & CWT-S	2524	C44200-C46741, 62/20/12	ADC	Apr-Jun	R. North Esk	
FRS	1-4	smolt	W	North Esk	CWT-S	641	62/20/12	ADC	Apr-Jun	R. North Esk	
FRS	1-3	parr	W	North Esk	CWT-S	2357	62/20/12	ADC	Aug-Sep	R. North Esk	
SRT		parr	W	Spey	CWT-S	1896	62/20/11	ADC	Oct	Fiddich	
SRT		smolt	W	Spey	CWT-S	3588	62/20/11	ADC	Apr-May	Fiddich	
SRT		smolt	W	Spey	CWT-S	1148	62/10/2	ADC	Apr-May	Fiddich	
SRT		adult	W	Spey	T-bar-yellow	34	13109-13124	none	Nov	Fiddich	Tagged as kelts
							16571-16599, 15493	none			
TF		parr	W	Tweed basin	CWT	900	A62-030/01	ADC		Tweed basin	
WGFT		smolt	W	Bladnoch	Elastomer dye	2143		ADC	Apr-May	R. Bladnoch	Eye & Jaw
WSFT		smolt	W	Manse Loch	Elastomer dye	200		none	Apr-May	Manse Loch	behind left eye

<sup>1</sup> FRS=Fisheries Research Services, SRT=Spey Research Trust, TF=Tweed Foundation, WGFT=West Galloway Fisheries Trust, WSFT=West Sutherland Fisheries Trust

<sup>2</sup> ADC=adipose fin clip; CWT=coded wire tag (i.e. microtag), CWT-S=sequential CWT rather than batch tags; PIT=passive integrated transponder

Number of coded wire tags, fin clips, and external tags applied to Atlantic salmon in USA, 1999.

Agency <sup>1</sup>	Age	Life Stage	Hatchery or Wild <sup>2</sup>	Stock Origin	Primary Tag or Mark <sup>3</sup>	Number Marked	Code or Serial	Secondary Mark <sup>3</sup>	Release Date	Release Location	Comment
VTCFWRU	1	smolt	H	Connecticut R.	ADC	74		PIT	May	Connecticut R.	Smith Bk. Study VT
	1	smolt	H	Connecticut R.	ADC	77		PIT	May	Connecticut R.	CTR mainstem MA
	4	adult	W	Connecticut R.	T-bar	10		PIT	Jan	Connecticut R.	CTR mainstem MA
	1	smolt	H	Connecticut R.	ADC	21136		none	April	Connecticut R.	Farmington R. CT
	4	adult	W	Connecticut R.	T-bar	2		PIT	Dec	Connecticut R.	CTR mainstem MA
	5	adult	W	Connecticut R.	T-bar	1		PIT	Dec	Connecticut R.	CTR mainstem MA
	4	adult	W	Connecticut R.	Radio	16		PIT	May	Connecticut R.	Deerfield R. - MA
	5	adult	W	Connecticut R.	Radio	4		PIT	May	Connecticut R.	Deerfield R. - MA
	3	adult	W	Connecticut R.	T-bar	1		PIT	Dec	Connecticut R.	Salmon R. CT
	1	smolt	H	Connecticut R.	Radio	150		none	May	Connecticut R.	Deerfield R. - MA
	1	smolt	H	Connecticut R.	Radio	100		none	May	Connecticut R.	Deerfield R. - MA
	2	smolt	W	Connecticut R.	Ping	50		none	May	Connecticut R.	Holyoke-Windsor
	1	parr	W	Connecticut R.	PIT	400		none	Oct	Connecticut R.	Smith Bk. Study VT
	1+, 2+	parr	W	Connecticut R.	PIT	260		none	July	Connecticut R.	UVM B Willms W.
	1-2	parr	W	Connecticut R.	PIT	1023		none	Mar-Dec	Connecticut R.	W. Br. Study, MA
	1-2	parr	W	Connecticut R.	PIT	141		none	Mar-Dec	Connecticut R.	Sawmill R-MA
	3+, 4+	adult	H	Merrimack R.	T-bar-yellow	700		none	Apr-May	Merrimack R.	
	3+, 4+	adult	H	Merrimack R.	T-bar-green	797		none	Apr-May	Merrimack R.	
	3+	adult	H	Merrimack R.	T-bar-white	309		none	April	Merrimack R.	
	3+	adult	H	Merrimack R.	T-bar-blue	365		none	April	Merrimack R.	
	3+, 4+	adult	H	Merrimack R.	T-bar-red	703		none	Apr-May	Merrimack R.	
	3+	adult	H	Merrimack R.	T-bar-gray	190		none	Nov	Merrimack R.	
	3+	adult	H	Merrimack R.	T-bar-purple	211		none	Nov	Merrimack R.	
	1	smolt	H	Merrimack R.	PVC-R	3144		none	April	Merrimack R.	
	1+	parr	H	Merrimack R.	PVC-L	2130		none	June	Merrimack R.	
	1+	parr	H	Merrimack R.	PVC-R	2220		none	April	Merrimack R.	
	3+	adult	W	Merrimack R.	Radio	7		none	Oct	Merrimack R.	Baker R. Study
	3+	adult	H	Merrimack R.	Radio	1		none	Oct	Merrimack R.	Baker R. Study
	1	smolt	H	Merrimack R.	PVC-L	754		none	June	Merrimack R.	Strp Bass study
	1	smolt	H	Penobscot R.	Radio	87	40.6-40.69 mHz	none	April	Penobscot R.	
MASC	5	adult	C	Dennys R.	PIT	15		none	Nov	Dennys R.	
MASC	4	adult	C	Dennys R.	PIT	56		none	Nov	Dennys R.	surplus broodstock
	0+	parr	H	Penobscot R.	PVC-L	82100		none	Sep	Union R.	
MFS	2	smolt	W	Narraguagus R.	Radio	102	65.5-76.8 kHz	none	April	Narraguagus R.	smolt study
MFS	1	smolt	H	Narraguagus R.	Radio	24	65.5-76.8 kHz	none	April	Narraguagus R.	smolt study
	1	smolt	H	Penobscot R.	Radio	300	149.32 mHz	none	May	Saco R.	15 day transmitter
MFS	0+	parr	W	Pleasant R.	PIT	134		none	Aug	Pleasant R.	parr to smolt est.
MFS	1+	parr	W	Pleasant R.	ADC	695		PIT	Aug	Pleasant R.	parr to smolt est.

=Connecticut Department of Environmental Protection; FPL=Florida Power & Light ; GNP=Great Northern Paper Company ; MASC=Maine Atlantic Salmon Commission; New Hampshire Fish & Game; NUSCO=Northeast Utilities Service Company ; PGE=Philadelphia Gas & Electric ; USFWS=U.S. Fish & Wildlife Service; USGS=U.S. Geological Survey; VTCFWRU=Vermont Cooperative Fish & Wildlife Research Unit

fish that were collected as juveniles and held in captivity until maturity

dipose fin clip; Ping=sonic transmitter; PIT=passive integrated transponder; PVC-L=left pelvic fin clip; PVC-R=right pelvic fin clip; Radio=radio transmitter; STR=streamer

Table 1. Summary of the number of coded wire tags, fin clips, and external tags applied to Atlantic salmon in the North Atlantic, 1999. 'Hatchery' and 'Wild' refer to smolts or parr; 'Adult' refers to wild and/or hatchery fish. Data from Belgium were not available. Fish were not tagged in Finland.

Country	Origin	Primary Tag or Mark				Secondary Mark <sup>2</sup>
		Coded wire tag	External tag	Adipose clip <sup>1</sup>	Other visible clip or mark	
Canada	Hatchery	12089	9175	2209362	0	17089
	Wild	0	11538	888	0	877
	Adult	0	7937	0	0	2
	Total	12089	28650	2210250	0	17968
Denmark	Hatchery	0	1300	0	0	0
	Wild	0	0	0	0	0
	Adult	0	0	0	0	0
	Total	0	1300	0	0	0
France	Hatchery	0	0	320037	0	21600
	Wild	0	0	0	945	566
	Adult	0	0	0	0	0
	Total	0	0	320037	945	22166
Iceland	Hatchery	123387	0	0	0	123387
	Wild	3816	0	0	0	0
	Adult	0	1665	0	0	52
	Total	127203	1665	0	0	123439
Ireland	Hatchery	306870	0	150000	0	297832
	Wild	4402	0	0	0	2975
	Adult	0	0	0	0	0
	Total	311272	0	150000	0	300807
Norway	Hatchery	0	91495	0	0	0
	Wild	0	11749	0	0	0
	Adult	0	230	0	0	0
	Total	0	103474	0	0	0
Russia	Hatchery	0	1000	514100	0	0
	Wild	0	0	207	0	0
	Adult	0	1436	0	0	0
	Total	0	2436	514307	0	0
Spain	Hatchery	52580	0	164159	0	0
	Wild	0	0	0	0	0
	Adult	0	0	0	0	0
	Total	52580	0	164159	0	0
Sweden	Hatchery					
	Wild		data being entered			
	Adult					
	Total	0	0	0	0	0
UK (England & Wales)	Hatchery	95344	0	84509	0	95344
	Wild	0	0	0	0	0
	Adult	0	1190	0	0	0
	Total	95344	1190	84509	0	95344

UK (N. Ireland)	Hatchery	20969	0	14249	0	20969
	Wild	1394	0	160	0	1394
	Adult	0	0	160	0	0
	Total	22363	0	14569	0	22363
UK (Scotland)	Hatchery	14145	0	7900	0	0
	Wild	16784	2558	38	2343	21489
	Adult	0	0	0	0	0
	Total	30929	2558	7938	2343	21489
USA	Hatchery	0	0	21287	91009	0
	Wild	0	0	695	152	0
	Adult	0	3289	0	28	0
	Total	0	3289	21982	91189	0
All Countries	Hatchery	625384	102970	3485603	91009	576221
	Wild	26396	25845	1988	3440	27301
	Adult	0	15747	160	28	54
	Total	651780	144562	3487751	94477	603576

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Grand total marked = 4378570

<sup>1</sup> Fish without other external marks or coded wire tags.

<sup>2</sup> Typically adipose fin clip.

## APPENDIX 1

### NATIONAL TAG CLEARING HOUSES TO WHICH ATLANTIC SALMON TAGS SHOULD BE RETURNED FOR VERIFICATION

Country	Institution	Address
BELGIUM	Unite de Recherches en Biologie des Organismes	Rue de Bruxelles, 61 B-5000 NAMUR (Belgique) <a href="mailto:Claire.Prignon@fundp.ac.be">Claire.Prignon@fundp.ac.be</a>
CANADA	Atlantic Salmon Tag Clearing House Department of Fisheries & Oceans (Att. K. Rutherford)	P.O.Box 1006 Darmouth Nova Scotia, B3K2A4 <a href="mailto:RutherfordK@mar.dfo-mpo.gc.ca">RutherfordK@mar.dfo-mpo.gc.ca</a>
DENMARK	Danmarks Fiskeri og Havundersogelser	Charlottenlund Slot DK-2920 Charlottenlund <a href="mailto:ffi@dfu.min.dk">ffi@dfu.min.dk</a>
FAROEES	Fiskirannsóknarstofan	Noatun, P.O. Box 3051 FR 110 Torshavn
FINLAND	Finnish Game & Fisheries Research Institute	P.O. Box 202 SF-00151 Helsinki <a href="mailto:majja.lansman@rktl.fi">majja.lansman@rktl.fi</a>
FRANCE	Conseil Supérieur de la Pêche	Delegation Regionale 84 Rue de Rennes F-35510 Cesson-Sevigne <a href="mailto:jean-pierre.porcher@csp-rennes.environnement.gouv.fr">jean-pierre.porcher@csp-rennes.environnement.gouv.fr</a>
ICELAND	Institute of Freshwater Fisheries	Vagnhofdi 7 112 Reykjavik <a href="mailto:Gudni.Gudbergsson@veidimal.is">Gudni.Gudbergsson@veidimal.is</a>
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