

REPORT OF THE
ICES COMPILATION OF MICROTAG, FINCLIP AND
EXTERNAL TAG RELEASES 1998
by
THE WORKING GROUP ON NORTH ATLANTIC SALMON

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Conseil International pour l'Exploration de la Mer

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1 TERMS OF REFERENCE

The terms of reference for the 1999 Working Group on North Atlantic Salmon (C.Res. 1998/2:4:11) stated that the Group should:

“With respect to Atlantic salmon in the NASCO area, provide a compilation of microtag, finclip and external tag releases by ICES Member Countries in 1998”

Data were provided by Working Group members for national tagging programmes, as far as possible including all agencies and organizations. These compilations for 1998 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).

ICES COMPILATION OF MICROTAG, FIN CLIP, AND EXTERNAL TAG RELEASES

Marking Season: 1998

Country: Belgium

Grand Total Primary Marks

	JUVENILES		ADULTS	
	Hatchery	Wild	All	
Microtags	16961	0	0	
External Tags	0	0	0	
Adipose Clip	0	0	0	
Other clips, External marks	0	0	0	
TOTAL FISH MARKED	16961	0		

MARKING AGENCY	AGE	LIFE STAGE	H/W	STOCK ORIGIN	PRIMARY TAG or MARK	NUMBER MARKED	CODE OR SERIAL	AUX CLIP	REL DATE	PLACE OF RELEASE	COMMENT
FUNDP - Namur	0+	parr	H	French - R. Nive	CWT	1440	23-03-03	left pelvic fin clip	16/07/98	R. Samson	-
FUNDP - Namur	0+	parr	H	Irish - R. Cong	CWT	1440	23-03-03	right pelvic fin clip	16/07/98	R. Samson	-
FUNDP - Namur	0+	parr	ll	French - R. Nive	CWT	10550	23-03-05 & 06	-	14/07/98	R. Lesse	-
FUNDP - Namur	0+	parr	H	French - Bretagne (Monts d'Avr�e)	CWT	1668	23-03-06	adipose fin clip	14/07/98	R. Lesse	-
FUNDP - Namur	0+	parr	H	Scottish - R. Esk	CWT	1863	23-16-33	-	17/07/98	R. Antrogne	-

ICES COMPILATION OF MICROTAG, FIN CLIP, AND EXTERNAL TAG RELEASES

Marking Season: 1998

Country: Canada

Grand Total Primary Marks

JUVENILES	Hatchery		Wild	ADULTS	All	
	Microtags	External Tags	Adipose Clip		Other clips, External marks	TOTAL FISH MARKED
Microtags	0		0			0
External Tags	12448		0			12535
Adipose Clip	556830		0			0
Other clips, External marks	0		0			0
TOTAL FISH MARKED	569278		0			12535

MARKING AGENCY	AGE	LIFE STAGE	H/W	STOCK ORIGIN	PRIMARY TAG or MARK	NUMBER MARKED	CODE OR SERIAL	AUX CLIP	REL DATE	PLACE OF RELEASE	COMMENT
Maritimes Region	1+	smolt	H	LaHave	Carlin	2000	GG9000-10999	AD	May	LaHave River	Blue
	1+	smolt	H	LaHave	Carlin	2000	GG11000-12999	AD	May	LaHave River	Blue
	1+	smolt	H	LaHave	Carlin	150	AA47300-47499	AD	May	LaHave River	Green
	1+	smolt	H	LaHave	AD	600			May	LaHave River	100 l ven clip 100 r ven clip
	1+	smolt	H	LaHave	AD	41490			May	LaHave River	
	1+	smolt	H	LaHave	AD	9000			May	Mushamush River	
	1+	smolt	H	LaHave	AD	9600			May	Petite River	
	1+	smolt	H	LaHave	AD	4000			May	Jordan River	
	1+	smolt	H	LaHave	AD	12000			May	Clyde River	
	1+	smolt	H	LaHave	AD	12000			May	Mersey River	
	1+	smolt	H	LaHave	AD	1000			May	Sackville River	
	1+	smolt	H	Tusket	AD	37125			May	Tusket River	
	1+	smolt	H	Tusket	AD	10000			May	Bear River	
	1+	smolt	H	Medway	AD	38160			May	Medway River	
	1+	smolt	H	Musquodohuit	AD	21400			May	Musquodohuit R	
	1+	smolt	H	Salmon (Digby)	AD	21840			May	Salmon River	
	1+	smolt	H	Gold	AD	19100			May	Gold River	
	1+	smolt	H	Sackville	AD	16580			May-Jun	Sackville River	
	1+	smolt	H	Annapolis	AD	18600			May	Annapolis River	
	1+	smolt	H	Liscomb	AD	37104			June	Liscomb River	
	0+	parr	H	LaHave	AD	15000			Oct	Petite River	
	0+	parr	H	LaHave	AD	7500			Nov	Mushamush River	
	0+	parr	H	LaHave	AD	44160			Dec	LaHave River	
0+	parr	H	Sackville	AD	14248			Nov	Sackville River		
0+	parr	H	Gaspereau	AD	13946			Nov	Gaspereau River		
	adult	6H 8W		LaHave	Carlin	14	AA79705-79792		Jun-Jul	LaHave River	Green - some radio tagged
	adult	2H 3W		LaHave	Carlin	5	M78188 & FF53333-53336		Jun	LaHave River	Blue
	adult	2H 9W		LaHave	Carlin	11	2276-2296		Jun-Sep	LaHave River	Orange - radio tag test group

Maritimes Region		adult	6H 9W	LaHave	Carlin	15	1526-1595		Sep-Nov	LaHave River	Yellow - radio tag test group
	2+	smolt	H	Annapolis	AD	7612			May	Annapolis River	
	2+	smolt	H	Gaspereau	AD	12858			May	Gaspereau River	
	2+	smolt	H	Stewiacke	AD	10920			May/June	Stewiacke River	
	1+	smolt	H	East R Pictou	Carlin	300	FF68200-68499	AD	May	Middle R Pictou	Blue
	1+	smolt	H	East R Pictou	AD	2172			May	Middle R Pictou	
	1+	smolt	H	Liscomb	AD	24962			June	Liscomb River	
	1+	smolt	H	Liscomb	AD	12000			May	East R Sh Hbr	
	1+	smolt	H	East R Sh Hbr	AD	14000			May	East R Sh Hbr	
	1+	smolt	H	Grand	AD	15463			May/June	Grand River	
	2+	smolt	H	Salmon R Mira	AD	4624			May	Salmon R Mira	
	1+	smolt	H	Saint John	Carlin	7998	GG13000-20999		May	Saint John River	Blue
	1+	parr	H	St. Croix	AD	24000			May	St. Croix River	
		adult	6H 27W	Saint John	Carlin	33	1220-1257		Oct/Nov	Saint John River	Red - Broodstock
		adult	7H 1W	Saint John	Carlin	8	3833-3840		Oct/Nov	Saint John River	Yellow - Broodstock
		adult	2H 2W	Saint John	Carlin	4	4000-4005		Oct/Nov	Saint John River	Red - Broodstock
		adult	17H 39W	Saint John	Carlin	56	13829-13899		Oct/Nov	Saint John River	White - Broodstock
		adult	37H 43W	Saint John	Carlin	80	18257-19368		Oct/Nov	Saint John River	White - Broodstock
		adult	H/W	St. Croix	Carlin	12	T53502-53518		Sep/Oct	St. Croix River	Blue
		adult	W	Buctouche	Carlin	58	zz63022-63079		Sep-Oct	Buctouche River	Blue - Estuary
MSW	adult	W	Miramichi	Carlin	599	zz73375-73999 excluding 73349, 73500-73524 & 73912		June-Oct	SW Miramichi R	Blue - Estuary	
MSW	adult	W	Miramichi	Carlin	71	zz74429-74499		June-Oct	NW Miramichi R	Blue - Estuary	
MSW	adult	W	Miramichi	Carlin	238	zz74553-74799 excluding 74741-74749		June-Oct	NW Miramichi R	Blue - Estuary	
MSW	adult	W	Miramichi	Carlin	390	zz75609-75999 excluding 75825		June-Oct	SW Miramichi R	Blue - Estuary	
ISW	adult	W	Miramichi	Carlin	193	zz76551-76795 excluding 76569, 76600-76649 & 76776		June-Oct	NW Miramichi R	Blue - Estuary	
ISW	adult	W	Miramichi	Carlin	100	zz77600-77699		June-Oct	SW Miramichi R	Blue - Estuary	
ISW	adult	W	Miramichi	Carlin	77	zz77723-77799		June-Oct	SW Miramichi R	Blue - Estuary	
ISW	adult	W	Miramichi	Carlin	175	zz77825-77999		June-Oct	SW Miramichi R	Blue - Estuary	
Maritimes	ISW	adult	W	Miramichi	Carlin	700	zz79299-79999		June-Oct	SW Miramichi R	Blue - Estuary

Region							excluding 79320				
	1SW	adult	W	Miramichi	Carlin	50	zz80150-80199		June-Oct	SW Miramichi R	Blue - Estuary
	MSW	adult	W	Miramichi	Carlin	6	zz80200-80205		June-Oct	NW Miramichi R	Blue - Estuary
	MSW	adult	W	Miramichi	Carlin	230	zz81000-81239		June-Oct	SW Miramichi R	Blue - Estuary
		adult	W	Miramichi	Carlin	115	zz81500-81614		June-Oct	SW Miramichi R	Blue - Estuary
		adult	W	Miramichi	Carlin	38	zz81700-81737		June-Oct	SW Miramichi R	Blue - Estuary
		adult	W	Miramichi	Carlin	13	zz50900-50912		Oct-Nov	L SW Miramichi	Blue - Sp stream
		adult	W	Miramichi	Carlin	1	zz76692		Oct-Nov	L SW Miramichi	Blue - Sp stream
		adult	W	Miramichi	Carlin	21	zz58376-58396		Oct-Nov	L SW Miramichi	Blue - Sp stream
	adult	W	Miramichi	Carlin	1	zz58369		Oct-Nov	L SW Miramichi	Blue - Sp stream	
Quebec Region	1+	smolt	H	Escoumins	AD	14573			Spring	R Escoumins	
	1+	parr	H	Escoumins	AD	9193				R Escoumins	
Nfld Region		kelt	W	Campbellton	T-Bar	347	J-40151 TO J-40500 except 40207, 40376, and 40443		May/June	Campbellton R	Orange
		adults	W	Humber	Carlin	55 48 146 76 224 14 1 1	N-3545 To N-3599 N-4728 To N-4775 N-4777 To N-4922 N-4924 To N-4999 N-5001 To N-5224 N-5226 To N-5239 N-5241 N-1664		Jun/Aug	Humber River	Green
		adults	W	Western Arm Bk	Carlin	162 56 25	N-156 To N-318 N-320 To N-375 N-400 To N-424		May/Sep	Western Arm Bk	Green
		adults	W	Torrent	Atkins	30	P-2501 To P-2530		July	Torrent River	Orange
		smolt	W	Conne	Streamer	3715	10995 - 14727		May/June	Conne River	Green
		adults	W	Gander	Carlin	225	Y7218-Y7249 Y7500- Y7744		Jun/Aug	Gander River	Green
Nfld Region		kelt	W	Campbellton	T-Bar	109	J41001-J41110 missing 41100		May/June	Campbellton R	Orange
					Archieval	52	N2048-N2049 N2079 N2159-N2562				Purple

ICES COMPILATION OF MICROTAG, FIN CLIP, AND EXTERNAL TAG RELEASES

Marking Season: 1998

Country: Denmark

Grand Total Primary Marks

	JUVENILES		ADULTS	
	Hatchery	Wild	All	
Microtags	27107	0	0	
External Tags	1900	0	0	
Adipose Clip	45371	0	0	
Other clips, External marks	24400	0	0	
TOTAL FISH MARKED	98778	0	0	

MARKING AGENCY	AGE	LIFE STAGE	H/W	STOCK ORIGIN	PRIMARY TAG or MARK	NUMBER MARKED	CODE OR SERIAL	AUX CLIP	REL DATE	PLACE OF RELEASE	COMMENT
Danish Inst. Fish. Res.	2+	smolts	H	Skjern river	External	900	139000-139900	no	1998	N. Atl. rivers	
Danish Inst. Fish. Res.	1+	smolts	H	Corrib	External	1000	140000-140999	no	1998	N. Atl. rivers	
Fos-laks	1+ / 2+	smolts	H	Corrib/Conon/Burrisshole/Aetran	Microtag	27107		AD	1998	N. Atl. rivers	
Fos-laks	1+	smolts	H	Corrib/Conon/Burrisshole/Aetran	AD	45371		AD	1998	N. Atl. rivers	
Fos-laks	2+	smolts	H	Corrib/Conon/Burrisshole/Aetran	Other	24400		no	1998	N. Atl. rivers	

ICES COMPILATION OF MICROTAG, FIN CLIP, AND EXTERNAL TAG RELEASES

Marking Season: 1998

Country: Finland

Grand Total Primary Marks

	JUVENILES		ADULTS
	Hatchery	Wild	
Microtags	0	0	0
External Tags	0	0	0
Adipose Clip	0	0	0
Other clips, External marks	0	0	0
TOTAL FISH MARKED	0	0	0

MARKING AGENCY	AGE	LIFE STAGE	H/W	STOCK ORIGIN	PRIMARY TAG or MARK	NUMBER MARKED	CODE OR SERIAL	AUX CLIP	REL DATE	PLACE OF RELEASE	COMMENT
Finland reported that no Atlantic salmon were marked during 1998.											

6 FRANCE

ICES COMPILATION OF MICROTAG, FIN CLIP, AND EXTERNAL TAG RELEASES

Marking Season: 1998

Country: France

Grand Total Primary Marks

	JUVENILES		ADULTS	
	Hatchery	Wild		All
Microtags	35463	123		
External Tags				
Adipose Clip	305423	524		
Other clips, External marks				
TOTAL FISH MARKED	340886	647		0

MARKING AGENCY	AGE	LIFE STAGE	H/W	STOCK ORIGIN	PRIMARY TAG or MARK	NUMBER MARKED	CODE OR SERIAL	AUX CLIP	REL DATE	PLACE OF RELEASE	COMMENT
Conseil Supérieur de la Pêche	1+	Parr	H	ALLIER	ADC	100			APRIL 98	BRUCHE	RHINE BASIN
	1+	Smolt	H	ALLIER	ADC	198			APRIL 98	BRUCHE	RHINE BASIN
	2+	Smolt	H	ALLIER	ADC	118			APRIL 98	BRUCHE	RHINE BASIN
	1-2	Smolt	W	BRESLE	CWT	123	(A23D)05/02	ADC	APR-MAY 98	BRESLE	NORMANDY
	1	Smolt	H	OIR	ADC	4600			MARCH 98	SELUNE	NORMANDY
	1-2	Smolt	W	OIR	ADC	524			MARCH-APRIL 98	OIR (SELUNE)	NORMANDY
	0+	Parr	H	BRITTANY	ADC	59650			JUNE 98	COUESNON	BRITTANY
	1+	Smolt	H	BRITTANY	ADC	17000			MARCH 98	TRIEUX	BRITTANY
	0+	Parr	H	BRITTANY	ADC	52100			JUL-OCT 98	TRIEUX	BRITTANY
	1	Smolt	H	BRITTANY	ADC	30440			MAY 98	DOUFFINE (AULNE)	BRITTANY
	0+	Parr	H	BRITTANY	ADC	139040			OCT - DEC 98	AULNE	BRITTANY
	1	Smolt	H	ALLIER	CWT	3579	17/33	ADC	MARCH 98	GARTEMPE	LOIRE BASIN
	1	Smolt	H	ALLIER	PIT	413			APRIL 98	ARIEGE (GARONNE)	SOUTH WEST - downstream migration experiment
1	Smolt	H	ALLIER	PIT	406			APR - MAY 98	GARONNE	SOUTH WEST - downstream migration experiment	
1	Smolt	H	ALLIER	PJ	1358			APR - MAY 98	GARONNE	SOUTH WEST - downstream migration experiment	
0+	Parr	H	ALLIER	CWT	15725	8B81	ADC	MARCH 98	GARONNE	SOUTH WEST	
1	Smolt	H	ALLIER	CWT	7273	8B84	ADC	APRIL 98	ARIEGE (GARONNE)	SOUTH WEST	
1	Parr	H	ALLIER	CWT	8886	8B84	ADC	APRIL 98	ARIEGE (GARONNE)	SOUTH WEST	
IN RA	1-2	Smolt	W	SCORFF	VI	923	see the list below		APR-MAY 98	SCORFF	BRITTANY

List of the VI codes for the Scorff :

BM0 to BZ9, DY0 to DY6, E10 to E99, EA0 to EF9, EH0 to EH9, EJ0 to EZ9, HA0 to HF9, HH0 to HH9, HJ0 to HN9, HP0 to HP9, JY4 to JY9, KA0 to KA9, KJ5 to KL9, KU0 to KZ9, LF0 to LF9, LH0 to LH9, LJ0 to LJ9, TA0 to TF9, TH0 to TH9, TJ0 to TL9.

ICES COMPILATION OF MICROTAG, FIN CLIP, AND EXTERNAL TAG RELEASES

Marking Season: 1998

Country: Iceland

Grand Total Primary Marks

JUVENILES		Hatchery	Wild	ADULTS		All
Microtags		146717	3852			0
External Tags		36	0			2439
Adipose Clip		0	0			0
Other clips, External marks		0	0			0
TOTAL FISH MARKED		146753	3852			2439

MARKING AGENCY	AGE	LIFE STAGE	H/W	STOCK ORIGIN	PRIMARY TAG or MARK	NUMBER MARKED	CODE OR SERIAL	AUX CLIP	REL DATE	PLACE OF RELEASE	COMMENT
Institute of Freshwater fisheries	0+	Smolt	H	Hofsá	CWT	2920	062363ser	Adipose	June/July	Hofsá	
	0+	Smolt	H	Miðjarðará	CWT	2902	062463ser	Adipose	June/July	Miðjarðará	
	0+	Smolt	H	Vatnsdalsá	CWT	1959	062463ser	Adipose	June/July	Vatnsdalsá	
	0+	Smolt	H	Vatnsdalsá	CWT	47	062463ser	Adipose	June/July	Vatnsdalsá	
	0+	Smolt	H	Ellidaár	CWT	2613	062663ser	Adipose	June/July	Ellidaár	
	0+	Smolt	H	Ellidaár	CWT	2415	062663ser	Adipose	June/July	Ellidaár	
	0+	Smolt	H	Ellidaár	CWT	2511	062663ser	Adipose	June/July	Ellidaár	
	0+	Smolt	H	Ellidaár	CWT	805	062663ser	Adipose	June/July	Ellidaár	
	0+	Smolt	H	Vatnsdalsá	CWT	2002	062663ser	Adipose	June/July	Vatnsdalsá	
	0+	Smolt	H	Vatnsdalsá	CWT	1072	062663ser	Adipose	June/July	Vatnsdalsá	
	0+	Smolt	H	Ellidaár	CWT	1711	062763ser	Adipose	June/July	Ellidaár	
	0+	Smolt	H	Ellidaár	CWT	5011	062763ser	Adipose	June/July	Ellidavatn	
	0+	Smolt	H	Hofsá	CWT	4997	062763ser	Adipose	June/July	Hofsá	
	0+	Smolt	H	Ellidaár	CWT	2528	062863ser	Adipose	June/July	Ellidaár	
	1+	Smolt	H	Ellidaár	CWT	2503	062863ser	Adipose	June/July	Ellidaár	
	1+	Smolt	H	Ellidaár	CWT	1834	062863ser	Adipose	June/July	Ellidaár	
	0+	Smolt	H	Hofsá	CWT	2116	062863ser	Adipose	June/July	Hofsá	
	1+	Smolt	H	Selá	CWT	2200	062863ser	Adipose	June/July	Selá	
	1+	Smolt	H	Laxá Aðaldal+Breiðdalsá	CWT	1005	062963ser	Adipose	June/July	Breiðdalsá	
	1+	Smolt	H	Laxá Aðaldal+Breiðdalsá	CWT	412	062963ser	Adipose	June/July	Breiðdalsá	
2+	Smolt	H	Laxá í Kjós	CWT	1550	062963ser	Adipose	June/July	Laxá í Kjós		
2+	Smolt	H	Laxá í Kjós	CWT	147	062963ser	Adipose	June/July	Laxá í Kjós		
Institute of Freshwater fisheries	1+	Smolt	H	Laxá í Kjós	CWT	888	062963ser	Adipose	June/July	Laxá í Kjós	
	2+	Smolt	H	Laxá í Kjós	CWT	3	062963ser	Adipose	June/July	Laxá í Kjós	
	1+	Smolt	H	Rangá	CWT	1000	062963ser	Adipose	June/July	Yrti Rangá	

1+	Smolt	H	Rangá	CWT	1009	062963ser	Adipose	June/July	Ytri Rangá	
1+	Smolt	H	Rangá	CWT	1006	062963ser	Adipose	June/July	Ytri Rangá	
1+	Smolt	H	Laxá Aðaldal+Breiðdalsá	CWT	598	063063ser	Adipose	June/July	Breiðdalsá	
1+	Smolt	H	Laxá Aðaldal+Breiðdalsá	CWT	989	063063ser	Adipose	June/July	Breiðdalsá	
0+	Smolt	H	Fnjóská	CWT	5010	063063ser	Adipose	June/July	Fnjóská	
0+	Smolt	H	Fnjóská	CWT	4763	063063ser	Adipose	June/July	Fnjóská	
1+	Smolt	H	Laxá Aðaldal	CWT	2534	063163ser	Adipose	June/July	Laxá Aðaldal	
1+	Smolt	H	Sandá	CWT	3200	063163ser	Adipose	June/July	Sandá	
1+	Smolt	H	Selá	CWT	3022	063163ser	Adipose	June/July	Selá	
1+	Smolt	H	Skjálfafljót	CWT	2824	063163ser	Adipose	June/July	Skjálfafljót	
1+	Smolt	H	Hofsá	CWT	10001	063263ser	Adipose	June/July	Hofsá	
1+	Smolt	H	Sandá	CWT	834	063263ser	Adipose	June/July	Sandá	
1+	Smolt	H	Rangár	CWT	556	063263ser	Adipose	June/July	Ytri Rangá	
1+	Smolt	H	Laxá Aðaldal	CWT	3505	063363ser	Adipose	June/July	Laxá Aðaldal	
1+	Smolt	H	Miðfjarðará	CWT	4009	063363ser	Adipose	June/July	Miðfjarðará	
1+	Smolt	II	Vatnsdalsá	CWT	3000	063363ser	Adipose	June/July	Vatnsdalsá	
2+	Smolt	H	?	CWT	1003	063463ser	Adipose	June/July	Eystri Rangá	
2	Smolt	H	Koll	CWT	1022	063463ser	Adipose	June/July	Eystri Rangá	
2	Smolt	H	Koll	CWT	1002	063463ser	Adipose	June/July	Eystri Rangá	
2	Smolt	H	Koll	CWT	1003	063463ser	Adipose	June/July	Eystri Rangá	
1+	Smolt	H	Koll	CWT	1003	063463ser	Adipose	June/July	Eystri Rangá	
1+	Smolt	H	Koll	CWT	814	063463ser	Adipose	June/July	Dverá	
1+	Smolt	II	Koll	CWT	800	063463ser	Adipose	June/July	Dverá	
2+	Smolt	II	?	CWT	650	063463ser	Adipose	June/July	Ytri Rangá	
2	Smolt	H	Koll	CWT	1002	063463ser	Adipose	June/July	Ytri Rangá	
2	Smolt	H	Koll	CWT	1006	063463ser	Adipose	June/July	Ytri Rangá	
1+	Smolt	H	Koll	CWT	1003	063463ser	Adipose	June/July	Ytri Rangá	
2	Smolt	H	Koll	CWT	1000	063463ser	Adipose	June/July	Ytri Rangá	
1+	Smolt	H	Lárós	CWT	1011	063563ser	Adipose	June/July	Eystri Rangá	
1+	Smolt	H	Laxá í Leir	CWT	4990	063563ser	Adipose	June/July	Laxá í Leirársveit	
1+	Smolt	H	Laxá í Leir	CWT	5014	063563ser	Adipose	June/July	Laxá í Leirársveit	
2+	Smolt	H	?	CWT	357	063563ser	Adipose	June/July	Ytri Rangá	
1+	Smolt	H	Rangár	CWT	2449	063663ser	Adipose	June/July	Ytri Rangá	
1+	Smolt	H	Rangár	CWT	3005	063663ser	Adipose	June/July	Ytri Rangá	
1+	Smolt	H	Rangár	CWT	3003	063663ser	Adipose	June/July	Ytri Rangá	
1	Smolt	H	Rangár	CWT	3006	063663ser	Adipose	June/July	Ytri Rangá	
1+	Smolt	II	Koll	CWT	503	063763ser	Adipose	June/July	Eystri Rangá	
1+	Smolt	II	Koll	CWT	1004	063763ser	Adipose	June/July	Eystri Rangá	
1+	Smolt	II	Koll	CWT	1005	063763ser	Adipose	June/July	Hróarslækur	
1+	Smolt	II	Lárós	CWT	2235	063763ser	Adipose	June/July	Lárós	

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	1+	Smolt	H	Lárós	CWT	2651	063763ser	Adipose	June/July	Lárós	
	1+	Smolt	H	Norðurá	CWT	3001	063763ser	Adipose	June/July	Norðurá	
	1+	Smolt	H	Koll	CWT	1005	063763ser	Adipose	June/July	Ytri Rangá	
		Smolt	W	Elliðaár	CWT	15	063863ser	Adipose	June/July	Elliðaár	
		Smolt	W	Elliðaár	CWT	121	063863ser	Adipose	June/July	Elliðaár	
		Smolt	W	Elliðaár	CWT	97	063863ser	Adipose	June/July	Elliðaár	
		Smolt	W	Elliðaár	CWT	71	063863ser	Adipose	June/July	Elliðaár	
		Smolt	W	Elliðaár	CWT	84	063863ser	Adipose	June/July	Elliðaár	
		Smolt	W	Elliðaár	CWT	87	063863ser	Adipose	June/July	Elliðaár	
		Smolt	W	Elliðaár	CWT	68	063863ser	Adipose	June/July	Elliðaár	
		Smolt	W	Elliðaár	CWT	54	063863ser	Adipose	June/July	Elliðaár	
		Smolt	W	Elliðaár	CWT	36	063863ser	Adipose	June/July	Elliðaár	
		Smolt	W	Elliðaár	CWT	24	063863ser	Adipose	June/July	Elliðaár	
		Smolt	W	Elliðaár	CWT	22	063863ser	Adipose	June/July	Elliðaár	
		Smolt	W	Elliðaár	CWT	11	063863ser	Adipose	June/July	Elliðaár	
		Smolt	W	Elliðaár	CWT	51	063863ser	Adipose	June/July	Elliðaár	
		Smolt	W	Elliðaár	CWT	13	063863ser	Adipose	June/July	Elliðaár	
	1+	Smolt	H	Norðurá	CWT	3018	063963ser	Adipose	June/July	Gljúfurá	
	1+	Smolt	H	Lárós	CWT	140	063963ser	Adipose	June/July	Lárós	
	1+	Smolt	H	Sogið	CWT	1996	063963ser	Adipose	June/July	Sogið	
	1+	Smolt	H	Sogið	CWT	2005	063963ser	Adipose	June/July	Sogið	
		Smolt	W	Austurá	CWT	25	064063ser	Adipose	June/July	Austurá	
		Smolt	W	Austurá	CWT	135	064063ser	Adipose	June/July	Austurá	
		Smolt	W	Austurá	CWT	80	064063ser	Adipose	June/July	Austurá	
		Smolt	W	Austurá	CWT	43	064063ser	Adipose	June/July	Austurá	
		Smolt	W	Austurá	CWT	7	064063ser	Adipose	June/July	Austurá	
		Smolt	W	Austurá	CWT	37	064063ser	Adipose	June/July	Austurá	
		Smolt	W	Austurá	CWT	16	064063ser	Adipose	June/July	Austurá	
		Smolt	W	Austurá	CWT	4	064063ser	Adipose	June/July	Austurá	
		Smolt	W	Austurá	CWT	26	064063ser	Adipose	June/July	Austurá	
		Smolt	W	Austurá	CWT	8	064063ser	Adipose	June/July	Austurá	
		Smolt	W	Austurá	CWT	16	064063ser	Adipose	June/July	Austurá	
		Smolt	W	Austurá	CWT	48	064063ser	Adipose	June/July	Austurá	
		Smolt	W	Austurá	CWT	22	064063ser	Adipose	June/July	Austurá	
		Smolt	W	Austurá	CWT	13	064063ser	Adipose	June/July	Austurá	
		Smolt	W	Austurá	CWT	31	064063ser	Adipose	June/July	Austurá	
		Smolt	W	Austurá	CWT	15	064063ser	Adipose	June/July	Austurá	
		Smolt	W	Austurá	CWT	4	064063ser	Adipose	June/July	Austurá	
		Smolt	W	Austurá	CWT	61	064063ser	Adipose	June/July	Austurá	
		Smolt	W	Austurá	CWT	10	064063ser	Adipose	June/July	Austurá	

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	Smolt	W	Austurá	CWT	9	064063ser	Adipose	June/July	Austurá	
	Smolt	W	Austurá	CWT	18	064063ser	Adipose	June/July	Austurá	
	Smolt	W	Austurá	CWT	9	064063ser	Adipose	June/July	Austurá	
	Smolt	W	Austurá	CWT	1	064063ser	Adipose	June/July	Austurá	
	Smolt	W	Austurá	CWT	13	064063ser	Adipose	June/July	Austurá	
	Smolt	W	Austurá	CWT	6	064063ser	Adipose	June/July	Austurá	
	Smolt	W	Austurá	CWT	1	064063ser	Adipose	June/July	Austurá	
	Smolt	W	Austurá	CWT	18	064063ser	Adipose	June/July	Austurá	
	Smolt	W	Austurá	CWT	11	064063ser	Adipose	June/July	Austurá	
	Smolt	W	Austurá	CWT	3	064063ser	Adipose	June/July	Austurá	
	Smolt	W	Austurá	CWT	20	064063ser	Adipose	June/July	Austurá	
	Smolt	W	Austurá	CWT	9	064063ser	Adipose	June/July	Austurá	
	Smolt	W	Austurá	CWT	6	064063ser	Adipose	June/July	Austurá	
	Smolt	W	Austurá	CWT	9	064063ser	Adipose	June/July	Austurá	
	Smolt	W	Austurá	CWT	14	064063ser	Adipose	June/July	Austurá	
	Smolt	W	Austurá	CWT	23	064063ser	Adipose	June/July	Austurá	
	Smolt	W	Austurá	CWT	5	064063ser	Adipose	June/July	Austurá	
	Smolt	W	Austurá	CWT	9	064063ser	Adipose	June/July	Austurá	
	Smolt	W	Austurá	CWT	8	064063ser	Adipose	June/July	Austurá	
Institute of Freshwater fisheries	Smolt	W	Núpsá	CWT	195	064063ser	Adipose	June/July	Núpsá	
	Smolt	W	Núpsá	CWT	59	064063ser	Adipose	June/July	Núpsá	
	Smolt	W	Núpsá	CWT	264	064063ser	Adipose	June/July	Núpsá	
	Smolt	W	Núpsá	CWT	63	064063ser	Adipose	June/July	Núpsá	
	Smolt	W	Núpsá	CWT	181	064063ser	Adipose	June/July	Núpsá	
	Smolt	W	Núpsá	CWT	59	064063ser	Adipose	June/July	Núpsá	
	Smolt	W	Núpsá	CWT	309	064063ser	Adipose	June/July	Núpsá	
	Smolt	W	Núpsá	CWT	41	064063ser	Adipose	June/July	Núpsá	
	Smolt	W	Núpsá	CWT	80	064063ser	Adipose	June/July	Núpsá	
	Smolt	W	Vesturdalsá	CWT	25	064063ser	Adipose	June/July	Vesturdalsá	
	Smolt	W	Vesturdalsá	CWT	31	064063ser	Adipose	June/July	Vesturdalsá	
	Smolt	W	Vesturdalsá	CWT	105	064063ser	Adipose	June/July	Vesturdalsá	
	Smolt	W	Vesturdalsá	CWT	163	064063ser	Adipose	June/July	Vesturdalsá	
	Smolt	W	Vesturdalsá	CWT	17	064063ser	Adipose	June/July	Vesturdalsá	
	Smolt	W	Vesturdalsá	CWT	23	064063ser	Adipose	June/July	Vesturdalsá	
	Smolt	W	Vesturdalsá	CWT	43	064063ser	Adipose	June/July	Vesturdalsá	
	Smolt	W	Vesturdalsá	CWT	42	064063ser	Adipose	June/July	Vesturdalsá	
	Smolt	W	Vesturdalsá	CWT	94	064063ser	Adipose	June/July	Vesturdalsá	
	Smolt	W	Vesturdalsá	CWT	73	064063ser	Adipose	June/July	Vesturdalsá	
	Smolt	W	Vesturdalsá	CWT	40	064063ser	Adipose	June/July	Vesturdalsá	
Smolt	W	Vesturdalsá	CWT	71	064063ser	Adipose	June/July	Vesturdalsá		

	Smolt	W	Vesturdalsá	CWT	67	064063ser	Adipose	June/July	Vesturdalsá	
	Smolt	W	Vesturdalsá	CWT	56	064063ser	Adipose	June/July	Vesturdalsá	
	Smolt	W	Vesturdalsá	CWT	51	064063ser	Adipose	June/July	Vesturdalsá	
	Smolt	W	Vesturdalsá	CWT	66	064063ser	Adipose	June/July	Vesturdalsá	
	Smolt	W	Vesturdalsá	CWT	62	064063ser	Adipose	June/July	Vesturdalsá	
	Smolt	W	Vesturdalsá	CWT	17	064063ser	Adipose	June/July	Vesturdalsá	
	Smolt	W	Vesturdalsá	CWT	8	064063ser	Adipose	June/July	Vesturdalsá	
	Smolt	H		Spaghetti	36	IS61150-IS61185		June/July	Laxá í Kjós	
	Adult	W		Spaghetti	59	Gímsá 1042-1100		July	Grímsá	Blue-Catch and release
	Adult	W		Spaghetti	31	Gímsá 1151-1181		July	Grímsá	Blue-Catch and release
	Adult	W		Spaghetti	61	Gímsá 1251-1310		July	Grímsá	Blue-Catch and release
	Adult	W		Spaghetti	30	Gímsá 1351-1380		July	Grímsá	Blue-Catch and release
	Adult	W		Spaghetti	14	Gímsá 1451-1465		July	Grímsá	Blue-Catch and release
Institute of Freshwater fisheries	Adult	W		Spaghetti	30	Gímsá 1602-1631		July	Grímsá	Blue-Catch and release
	Adult	W		Spaghetti	93	Gímsá 1890-1982		July	Grímsá	Blue-Catch and release
	Adult	W		Spaghetti	8	IS67538-IS67545		July/August	Laxá Aðaldal-Árnes	Green-Catch and release
	Adult	W		Spaghetti	31	IS67606-IS67647		July/August	Laxá Aðaldal-Árnes	Green-Catch and release
	Adult	W		Spaghetti	1250	IS65700-IS66949		July/August	Norðlingafjót	Green-Ocean ran/Put & Take
	Adult	W		Spaghetti	600	IS67000-IS67599		July/August	Hellisá	Green-Ocean ran/Put & Take
	Adult	W		Spaghetti	68	IS67700-IS67758		July/August	Hellisá	Green-Ocean ran/Put & Take
	Adult	W		Spaghetti	71	IS65500-IS65570		July/August	Núpa	Green-Ocean ran/Put & Take
	Adult	W		Spaghetti	75	IS65600-IS65674		July/August	Núpa	Green-Ocean ran/Put & Take
	Adult	W		Spaghetti	10	IS02651-IS02661		Mai	Botsá	White - Repeat spawner
	Adult	W		Spaghetti	1	IS61125+DST		July	Hraunsfjordur	Green- DST=Data storage tag/Ocean release
	Adult	W		Spaghetti	1	IS61126+DST		July	62°40'30"N-27°08'07"W	Green- DST=Data storage tag/Ocean release
	Adult	W		Spaghetti	1	IS61127+DST		July	62°40'30"N-27°08'07"W	Green- DST=Data storage tag/Ocean release
	Adult	W		Spaghetti	1	IS61128+DST		July	62°40'30"N-27°08'07"W	Green- DST=Data storage tag/Ocean release
	Adult	W		Spaghetti	1	IS61355+DST+USON		August	Breidafjord	Green- USON=Ultra sonic tag/Ocean release
	Adult	W		Spaghetti	1	DST		August	Breidafjord	Green- DST=Data storage tag/Ocean release
	Adult	W		Spaghetti	1	IS61356+DST+USON		August	Hraunsfjordur	Green- USON=Ultra sonic tag/Ocean release
	Adult	W		Spaghetti	1	IS61357		August	Hraunsfjordur	Green- Ocean release

ICES COMPILATION OF MICROTAG, FIN CLIP, AND EXTERNAL TAG RELEASES

Marking Season: 1998

Country: Ireland

Grand Total Primary Marks

JUVENILES	Hatchery		Wild	ADULTS	All
Microtags	257365		3776		0
External Tags	0		0		0
Adipose Clip	160089		0		0
Other clips, External marks	0		0		0
TOTAL FISH MARKED	417454		3776		0

MARKING AGENCY	AGE	LIFE STAGE	H/W	STOCK ORIGIN	PRIMARY TAG or MARK	NUMBER MARKED	CODE OR SERIAL	AUX CLIP	REL DATE	PLACE OF RELEASE	COMMENT
Marine Institute DOM	1+	Parr	H	Shannon	CWT	11225	47/19/63	Adipose	22/04/98	Shannon	pump-msw
	1+	Parr	H	Shannon	CWT	11153	47/19/60	Adipose	22/04/98	Shannon	pump-msw
	1+	Parr	H	Shannon	CWT	7623	47/19/51	Adipose	22/04/98	Shannon	pump-msw
	1+	Parr	H	Shannon	CWT	11371	47/19/52	Adipose	22/04/98	Shannon	pump-msw-f
	1+	Parr	H	Shannon	CWT	10780	47/19/50	Adipose	22/04/98	Shannon	pump-msw-f
	1+	Parr	H	Shannon		98109		Adipose	22/04/98	Shannon	grilse line
	1+	Parr	H	Delphi	CWT	9964	47/19/45	Adipose	22/04/98	Bundorragha	
	1+	Parr	H	Delphi	CWT	8038	47/19/46	Adipose	22/04/98	Bundorragha	
	1+	Parr	H	Delphi	CWT	9622	47/19/47	Adipose	22/04/98	Bundorragha	
	1+	Parr	H	Burrishoole	CWT	11486	47/19/48	Adipose	22/04/98	Bundorragha	
	1+	Parr	H	Burrishoole	CWT	1377	47/19/49	Adipose	22/04/98	Bundorragha	
	1+	Parr	H	Burrishoole	CWT	4815	47/20/01	Adipose	28/04/98	Burrishoole	vaccinated
	1+	Parr	H	Burrishoole	CWT	4670	47/20/04	Adipose	28/04/98	Burrishoole	vaccinated
	1+	Parr	H	Burrishoole	CWT	8005	47/20/05	Adipose	28/04/98	Burrishoole	ranchd
	1+	Parr	H	Burrishoole	CWT	8654	47/20/06	Adipose	28/04/98	Burrishoole	ranchd
	1+	Parr	H	Burrishoole	CWT	7855	47/20/07	Adipose	28/04/98	Burrishoole	ranchd
	1+	Parr	H	Erne	CWT	6501	47/20/08	Adipose	05/05/98	Erne	tailrace
	1+	Parr	H	Erne	CWT	6407	47/20/09	Adipose	06/05/98	Erne	fishpass
	1+	Parr	H	Erne	CWT	6472	47/19/21a	Adipose	05/05/98	Erne	tailrace
	1+	Parr	H	Erne	CWT	6648	47/19/06a	Adipose	06/05/98	Erne	fishpass
1+	Parr	H	Erne	CWT	5780	47/19/41	Adipose	05/05/98	Erne	tailrace	
1+	Parr	H	Erne		61980		Adipose	05/05/98	Erne	tailrace	
1+	Parr	H	Screebe	CWT	10022	47/20/10	Adipose	03/04/98	Screebe		
1+	Parr	H	Shannon	CWT	6516	47/17/55	Adipose	14/04/98	Lee	Parteen L*L	

Marine Institute DOM	1+	Parr	H	Shannon	CWT	11962	47/20/11	Adipose	14/04/98	Lee	Parteen L*L
	1+	Parr	H	Shannon	CWT	11510	47/19/18	Adipose	14/04/98	Lee	Parteen-f
	1+	Parr	H	Shannon	CWT	3650	47/18/04b	Adipose	14/04/98	Lee	Parteen-f
	1+	Parr	H	Lee	CWT	4843	47/19/12a	Adipose	14/04/98	Lee	
	1+	Parr	H	Shannon	CWT	11402	47/18/35a	Adipose	14/04/98	Lee	Parteen
	1+	Parr	H	Shannon	CWT	1779	47/18/03b	Adipose	14/04/98	Lee	Parteen
	1+	Parr	H	Shannon	CWT	524	47/18/01b	Adipose	14/04/98	Lee	Parteen
	1+	Parr	H	Coomhola	CWT	1445	47/18/58a	Adipose	01/05/98	Coomhola	S1
	1+	Parr	H	Coomhola	CWT	747	47/19/20a	Adipose	01/05/98	Coomhola	S2
	1+	Parr	H	Corrib	CWT	11012	47/19/44	Adipose	13/03/98	Corrib	upstream
	1+	Parr	H	Corrib	CWT	10855	47/19/43	Adipose	18/03/98	Corrib	downstream
	1+	Parr	H	Bunowen	CWT	10761	47/19/42	Adipose	14/04/98	Bunowen	from wild
	1+	Parr	H	Bunowen	CWT	1891	47/18/49a	Adipose	14/04/98	Bunowen	from wild
	1-3+	Smolt	W	Corrib	CWT	1326	47/18/02b	Adipose	11/05/98	Galway	trap
	1-3+	Smolt	W	Corrib	CWT	1252	47/20/13	Adipose	30/04/98	Galway	trap
	1-3+	Smolt	W	Corrib	CWT	1198	47/20/12	Adipose	24/04/98	Galway	trap

9 NORWAY

ICES COMPILATION OF MICROTAG, FIN CLIP, AND EXTERNAL TAG RELEASES.

Marking Season: 1998

Country: Norway

Grand Total Primary Marks

	JUVENILES		ADULTS	
	Hatchery	Wild	All	
Microtags	0	0	0	
External Tags	99741	3720	800	
Adipose Clip	0	0	0	
Other clips, External marks	0	0	0	
TOTAL FISH MARKED	99741	3720	800	

MARKING AGENCY	AGE	LIFE STAGE	H/W	STOCK ORIGIN	PRIMARY TAG or MARK	NUMBER MARKED	CODE OR SERIAL NO.	AUX CLIP/MARKS	RELEASE DATE	PLACE OF RELEASE	COMMENT
IMR	2+	adult	H	Matre	T-bar, anchor	800	Yellow, C09000-09817	AD	15-Apr	Matre, SW-Norway	50% triploids
NINA	2+	smolt	H	Imsa	Carlin	1980	ND-20000-21999		05 May	Imsa	
NINA	2+	smolt	H	Imsa	Carlin	1980	ND-26000-27999		05 May	Imsa	
NINA	2+	smolt	H	Figgjo	Carlin	996	ND-28000-28999		05 May	Imsa	
NINA	2+	smolt	H	Lone	Carlin	1987	ND-30000-31999		05 May	Imsa	
NINA	1+	smolt	H	Imsa	Carlin	1997	ND-32000-33999		05 May	Imsa	
NINA	2+	smolt	H	Suldal	Carlin	1094	ND-34000-35099		05 May	Imsa	
NINA		smolt	W	Figgjo	Carlin	699	NB-40300-40999		15 Apr	Figgjo	
NINA	2+	smolt	H	Figgjo	Carlin	939	ND-29000-29963		28 Apr	Figgjo	
NINA	1+	smolt	H	Figgjo	Carlin	995	ND-37000-37999		28 Apr	Figgjo	
NINA		smolt	W	Figgjo	Carlin	300	NT 44700-44999		15 Apr	Figgjo	
NINA	2+	smolt	H	Imsa	Carlin	1982	ND-22000-23999		05 May	Kaia Ims	
NINA	2+	smolt	H	Imsa	Carlin	1979	ND-24000-25999		05 May	Kaia Ims	
NINA	2+	smolt	H	Akvagen	Carlin	688	ND-35100-35799		05 May	Imsa	
NINA	2+	smolt	H	Namsen	Carlin	794	ND-35800-36599		05 May	Imsa	

NINA	2+	smolt	H	Hybrider	Carlin	1391	ND-38000-39399		05 May	Imsa	
NINA	2+	smolt	H	Hybrider	Carlin	1495	ND-39400-40899		05 May	Imsa	
NINA	2+	smolt	H	Hybrider	Carlin	1431	ND-40900-42344		05 May	Imsa	
NINA	1+	smolt	H	Imsa	Carlin	1987	ND-43000-44999		29 Apr	Frafjord	
NINA	1+	smolt	H	Imsa	Carlin	1982	ND-46000-47999		29 Apr	Dirdal	
NINA		smolt	W	Bjerkreim	Carlin	800	NA-81000-81799		17 Apr	Bjerkreim	
NINA		smolt	W	Bjerkreim	Carlin	102	NB-64800-64901		20 Apr	Bjerkreim	
NINA		smolt	W	Imsa	Carlin	277	NC-11257-11533			Imsa/fella	
NINA	1	smolt	H	Drammen	Carlin	1997	ND-78500-80499		07 May	Drammen	
NINA	1	smolt	H	Drammen	Carlin	1998	ND-80500-82499		07 May	Drammen	
NINA		smolt	W	Audna	Carlin	711	NE-2000-2718		04 Apr	Audna	
NINA	1	smolt	H	Audna	Carlin	1491	ND-71000-72499		12 May	Audna	
NINA	1	smolt	H	Audna	Carlin	998	NE-1000-1999		12 May	Audna	
NINA	1	smolt	H	Mandal	Carlin	1995	ND-69000-70999		12 May	Mandal	
NINA	1	smolt	H	Ekso	Carlin	1978	NC-54000-55999		11 May	Ekso	
NINA	1	smolt	H	Dale	Carlin	1994	ND-92000-93999		06 May	Dale/Vaksdal	
NINA	1	smolt	H	Dale	Carlin	1495	ND-94000-95499		06 May	Dale/Vaksdal	
NINA	1	smolt	H	Dale	Carlin	1493	ND-95500-96999		06 May	Dale/Vaksdal	
NINA	1	smolt	H	Dale	Carlin	989	ND-97000-97999		06 May	Dale/Vaksdal	
NINA	1	smolt	H	Dale	Carlin	1490	ND-98000-99499		06 May	Dale/Vaksdal	
NINA	1	smolt	H	Dale	Carlin	498	ND-99500-100000		06 May	Dale/Vaksdal	
NINA	1	smolt	H	Dale	Carlin	992	NE-0-999		06 May	Dale/Vaksdal	
NINA	1+	smolt	H	Suldal	Carlin	2485	NE-7000-9499		12 May	Sandsfjord	
NINA	1+	smolt	H	Suldal	Carlin	2494	NE-9500-11999		12 May	Sandsfjord	
NINA	1+	smolt	H	Suldal	Carlin	2485	NE-12000-14499		11 May	Suldal	
NINA	1+	smolt	H	Suldal	Carlin	2478	NE-14500-16999		11 May	Suldal	
NINA	1+	smolt	H	Suldal	Carlin	2497	NE-17000-19499		11 May	Suldal	
NINA	1+	smolt	H	Suldal	Carlin	2482	NE-19500-21999		11 May	Suldal	
NINA	1+	smolt	H	Suldal	Carlin	2498	NE-22000-24499		06 May	Suldal	
NINA	1+	smolt	H	Suldal	Carlin	2494	NE-24500-26999		06 May	Suldal	

NINA	2	smolt	H	Orkla	Carlin	984	ND-83000-83999		20 May	Agdenes	
NINA	2	smolt	H	Orkla	Carlin	991	ND-84000-84999		20 May	Agdenes	
NINA	2	smolt	H	Orkla	Carlin	991	ND-85000-85999		20 May	Agdenes	
NINA	2	smolt	H	Orkla	Carlin	992	ND-86000+86999		20 May	Agdenes	
NINA	2	smolt	H	Orkla	Carlin	992	ND-87000-87999		20 May	Agdenes	
NINA	2	smolt	H	Orkla	Carlin	991	ND-88000-88999		20 May	Agdenes	
NINA	2	smolt	H	Orkla	Carlin	995	ND-89000-89999		20 May	Agdenes	
NINA	2	smolt	H	Orkla	Carlin	992	ND-90000-90999		20 May	Agdenes	
NINA	2	smolt	H	Orkla	Carlin	990	ND-91000-91999		20 May	Agdenes	
NINA	2	smolt	H	Eira	Carlin	2894	ND-63000-65999		29 May	Eira	
NINA	2	smolt	H	Eira	Carlin	2989	ND-66000-68999		29 May	Eira	
NINA	1	smolt	H	Alta	Carlin	1299	NB-89700-90999		02 Jul	Alta	
NINA	1	smolt	H	Alta	Carlin	5376	NC-94600-99999		02 Jul	Alta	
NINA	1	smolt	H	Alta	Carlin	1039	ND-50000-51039		03 Jul	Alta	
NINA	1	smolt	H	Alta	Carlin	3000	ND-51175-54189		03 Jul	Alta	
NINA	1	smolt	H	Alta	Carlin	228	NM 85770-85999		02 Jul	Hals	
NINA	1	smolt	H	Alta	Carlin	170	NO 87830-87999		02-Jul	Alta	
NINA	1	smolt	H	Alta	Carlin	199	NP 77800-77999		02-Jul	Alta	
NINA	1	smolt	H	Alta	Carlin	178	NP 78810-78998		03-Jul	Alta	
NINA	1	smolt	H	Alta	Carlin	500	NU 49500-49999		02-Jul	Alta	
NINA	1	smolt	H	Alta	Carlin	135	ND-51040-51174		22-Jun	Hals	ovenf. Fella
NINA	1	smolt	H	Alta	Carlin	2501	ND-54190-56694		12-Jun	Hals	ovenf. Fella
NINA	1	smolt	H	Alta	Carlin	301	ND-56695-56995		12-Jun	Hals	ovenf. Fella
NINA		smolt	W	Hals	Carlin	253	ND-62000-62252			Hals/fella	
NINA		smolt	W	Hals	Carlin	578	NT 25422-25999			Hals/fella	
TOFA	2	smolt	H	Nidelv	Carlin	1000	NE-27000-27999		11 May	Nidelva	
TOFA	2	smolt	H	Nidelv	Carlin	1000	NE-28000-28999		12 May	Nidelva	
TOFA	2	smolt	H	Nidelv	Carlin	998	NE-29000-29999		13 May	Nidelva	
TOFA	2	smolt	H	Nidelv	Carlin	999	NE-30000-30999		19 May	Nidelva	
TOFA	2	smolt	H	Nidelv	Carlin	999	NE-31000-31999		20 May	Nidelva	

ICES COMPILATION OF MICROTAG, FIN CLIP, AND EXTERNAL TAG RELEASES

Marking Season: 1998

Country: Russia

Grand Total Primary Marks

JUVENILES	Hatchery		Wild	ADULTS	All
Microtags	0	0	0		0
External Tags	0	0	0		1911
Adipose Clip	404000	215			0
Other clips, External marks	0	0			0
TOTAL FISH MARKED	404000	215			1911

MARKING AGENCY	AGE	LIFE STAGE	H/W	STOCK ORIGIN	PRIMARY TAG or MARK	NUMBER MARKED	CODE OR SERIAL	AUX CLIP	REL DATE	PLACE OF RELEASE	COMMENT
Murmanrybvod	2+	smolt	H	Umba River	AD	114600			June	Umba River	
	2+	smolt	H	Kola River	AD	31000			June	Knjzhaya bay	
	1SW,2SW	adult	W	Umba River	Carlin	170	57051-57499		October	Umba River	
	1SW,2SW	adult	W	Kola River	Carlin	176	57100-57599		October	Kola River	
PINRO	1SW,2SW	adult	W	Iokanga River	Carlin	12	51069-51189		July	Iokanga River	
PINRO/ASF	1SW,2SW	adult	W	Ponoi River	Floy	1741	8001-10400		June - September	Ponoi River	
	3+,4+	smolt	W	Ponoi River	AD	215			July	Ponoi River	
Karelybvod	2+	smolt	H	Keret River	AD	111900			June	Keret River	
	2+	smolt	H	Shuja River	AD	81100			June	Shuja River	
	2+	smolt	H	Wyg River	AD	65400			June	Wyg River	

ICES COMPILATION OF MICROTAG, FIN CLIP, AND EXTERNAL TAG RELEASES

Marking Season: 1998

Country: Spain

Grand Total Primary Marks

	JUVENILES		ADULTS	
	Hatchery	Wild	All	All
Microtags	45331	0		0
External Tags	0	0		0
Adipose Clip	97100	0		0
Other clips, External marks	0	0		0
TOTAL FISH MARKED	142431	0		0

MARKING AGENCY	AGE	LIFE STAGE	H/W	STOCK ORIGIN	PRIMARY TAG or MARK	NUMBER MARKED	CODE OR SERIAL	AUX CLIP	REL DATE	PLACE OF RELEASE	COMMENT
Sección de Pesca	1	smolt	H	Sella	CWT	1000	23-20/05	yes	Jan-98	Sella	
	1	smolt	H	Sella	CWT	3981	23-17/38	yes	Jan-98	Sella	
	1	smolt	H	Narcea	Adipose clip	9800		yes	Feb-98	Narcea	
	1	smolt	H	Eo	Adipose clip	3400		yes	Dec-97	Eo	
	1	smolt	H	Piscicul.	Adipose clip	11900		yes	Feb-98	Deva-Cares	
	1	smolt	H	Pisci	Adipose clip	22000		yes	Nov-98	Narcea	
		parr	H	Sella	Adipose clip	15000		yes	Nov-98	Deva-Cares	
		parr	H	Sella	Adipose clip	25000		yes	Nov-98	Deva-Cares	
		parr	H	Esva	Adipose clip	10000		yes	Dec-98	Esva	
	1	parr	H	Eo	CWT	11350	23-40/13	yes	Nov-98	Eo	
	1	parr	H	Eo	CWT	5700	23-40/14	yes	Nov-98	Eo	
		parr	H	Sella	CWT	10900	23-20/06	yes	Oct-98	Sella	
		parr	H	Sella	CWT	7000	23-17/38	yes	Nov-98	Sella	
		parr	H	Sella	CWT	5400	23-20/05	yes	Nov-98	Sella	

ICES COMPILATION OF MICROTAG, FIN CLIP, AND EXTERNAL TAG RELEASES

Marking Season: 1998

Country: Sweden

Grand Total Primary Marks

	JUVENILES		ADULTS	All
	Hatchery	Wild		
Microtags	0	0		0
External Tags	6456	637		0
Adipose Clip	0	0		0
Other clips, External marks		0		0
TOTAL FISH MARKED	6456	637		0

MARKING AGENCY	AGE	LIFE STAGE	I/W	STOCK ORIGIN	PRIMARY TAG or MARK	NUMBER MARKED	CODE OR SERIAL	AUX CLIP	REL DATE	PLACE OF RELEASE	COMMENT
		smolt	W		Carlin	70	SN 525 930 - 999		April - May	R. Ätran	
		smolt	W		Carlin	278	SN 605 500 - 790		April - May	R. Ätran	
		smolt	W		Carlin	94	SN 605 900 - 999		April - May	R. Ätran	
	1	smolt	H		Carlin	982	SN 928 000 - 999		27-Apr	R. Lagan	
	2	smolt	H		Carlin	999	SN 929 000 - 999		27-Apr	R. Lagan	
	1	smolt	H		Carlin	491	SN 930 000 - 499		30-Apr	R. Nissan	
	2	smolt	H		Carlin	496	SN 930 500 - 999		30-Apr	R. Nissan	
	1	smolt	H		Carlin	489	SN 932 000 - 499		27-Apr	R. Lagan	Night rel.
	2	smolt	H		Carlin	497	SN 932 500 - 999		27-Apr	R. Lagan	Night rel.
	1	smolt	H		Carlin	688	SN 957 000 - 999		28-May	R. Göta älv	
	1	smolt	H		Carlin	815	SN 958 000 - 999		29-May	R. Göta älv	
		smolt	W		Carlin	12	SN 605 675 - 950		April - May	R. Ätran	Sea trout
	2	smolt	H		Carlin	500	SN 906 500 - 999		30-Apr	R. Nissan	Sea trout
		smolt	W		Carlin	183	SN 927 000 - 182		April	R. Lagan	Sea trout
	2	smolt	H		Carlin	499	SN 927 500 - 999		27-Apr	R. Lagan	Sea trout

ICES COMPILATION OF MICROTAG, FIN CLIP, AND EXTERNAL TAG RELEASES

Marking Season: 1998

Country: UK (England & Wales)

Grand Total Primary Marks

	JUVENILES		ADULTS	All
	Hatchery	Wild		
Microtags	103153	2799		
External Tags				1425
Adipose Clip	79420			
Other clips, External marks				
TOTAL FISH MARKED	182573	2799		1425

MARKING AGENCY	AGE	LIFE STAGE	H/W	STOCK ORIGIN	PRIMARY TAG or MARK	NUMBER MARKED	CODE OR SERIAL	AUX CLIP	REL DATE	PLACE OF RELEASE	COMMENT
EA North East	1+	Parr	H	Tyne	Microtag	7589	20/42/12	Adipose	03-April-98	East Kilder Burn	R.Tyne
EA North East	1+	Parr	H	Tyne	Microtag	7625	20/42/13	Adipose	03-April-98	Scaup Burn	R.Tyne
EA Thames	0+	Smolt	H	Thames	None	17669		Adipose	17-Mar - 21-Mar	R. Kennet	R. Thames
EA Thames	Var	Adult	W	Thames	Floy/Radio	5	4700-4703 Red	None	10-Jul - 04-Sep	R. Thames	
EA Thames	Var	Adult	W	Thames	Floy	1	4775 Yellow	None	29-Jul-98	R. Thames	
EA Southern	0+	Parr	H	Test	None	61751		Adipose	Var	R. Test	
EA Southern	Var	Adult	W	Test	Floy	12	C000076-C0000	None	Var	R. Test	
EA South West	1+	Parr	H	Avon/Stour	Microtag	2931		Adipose	Mar-98	R. Avon (Hamp)	
EA South West	Var	Adult	W	Avon/Stour	Floy	84		None	Var	R. Avon/Stour	
EA Welsh	1+	Smolt	H	Shannon	Microtag	10182	23/42/20	Adipose	Jan-98	R. Kennet	R. Thames

EA Welsh	1+	Smolt	H	Shannon	Microtag	10194	23/42/21	Adipose	Jan-98	R. Kennet	R. Thames
EA Welsh	1+	Smolt	H	Shannon	Microtag	10103	23/42/22	Adipose	Jan-98	R. Kennet	R. Thames
EA Welsh	1+	Smolt	H	Shannon	Microtag	10124	23/42/23	Adipose	Jan-98	R. Kennet	R. Thames
EA Welsh	1+	Smolt	H	Neath	Microtag	4885	23/42/24	Adipose	Jan-98	R. Neath	
EA Welsh	2+	Smolt	H	Taff	Microtag	10551	23/42/13	Adipose	Mar-98	R. Taff	
EA Welsh	1+	Smolt	H	Dee	Microtag	1787	23/42/01	Adipose	May-98	R. Alwen	R. Dee
EA Welsh	1+	Smolt	H	Dee	Microtag	1734	23/42/01	Adipose	Jun-98	R. Alwen	R. Dee
EA Welsh	1+	Smolt	H	Dee	Microtag	990	23/42/01	Adipose	Jul-98	R. Alwen	R. Dee
EA Welsh	1+	Smolt	H	Dee	Microtag	2620	23/42/01	Adipose	12-Jun-1998	R. Alwen	R. Dee
EA Welsh	1+	Smolt	H	Dee	Microtag	2767	22/42/36	Adipose	Jan-1998	R. Tryweryn	R. Dee
EA Welsh	Var	Adult	W	Dee	Floy	1139			Var	R. Dee	
EA Welsh	Var	Adult	W	Taff	Floy	184			Var	R. Taff	
EA North West	Var	Smolts	W	Leven	Microtag	513	01/42/21	Adipose	Var	R. Leven	
EA North West	Var	Smolts	H	Derwent	Microtag	8502	01/42/52	Adipose	01-Apr-98	R. Derwent	
CEFAS / EA Southern	Var	Smolts	W	Test	Microtag	1765	01/42/24	Adipose	Apr - May-98	R. Test	
CEFAS / EA Southern	Var	Smolts	H	Test	Microtag	2067	01/42/25	Adipose	Apr - May-98	R. Test	
EA North West	Var	Smolts	W	Leven	Microtag	513	01/42/21	Adipose	May-98	R. Leven	
EA North West	Var	Smolts	H	Leven	Microtag	8502	01/42/52	Adipose	Apr-98	R. Derwent	
CEFAS	Var	Smolts	W	Tamar	Microtag	8	01/42/09	Adipose	07-May - 12-May	R. Tamar	

ICES COMPILATION OF MICROTAG, FIN CLIP, AND EXTERNAL TAG RELEASES

Marking Season: 1998

Country: UK (N. Ireland)

Grand Total Primary Marks

JUVENILES	Hatchery		Wild		ADULTS	All
Microtags	34725		2328			0
External Tags	0		0			0
Adipose Clip	3368		0			0
Other clips, External marks	0		0			306
TOTAL FISH MARKED		38093		2328		

MARKING AGENCY	AGE	LIFE STAGE	H/W	STOCK ORIGIN	PRIMARY TAG or MARK	NUMBER MARKED	CODE OR SERIAL	AUX CLIP	REL DATE	PLACE OF RELEASE	COMMENT
Dept, Agriculture for NI	2+	smolt	H	R. Bush	CWT	1347	16/43/09	AD	10-Apr-98	R. Bush	
Dept, Agriculture for NI	1+	smolt	H	R. Bush	CWT	4888	16/43/29	AD	10-Apr-98	R. Bush	
Dept, Agriculture for NI	1+	smolt	H	R. Bush	CWT	3894	16/43/20	AD	17-Apr-98	R. Lagan	
Dept, Agriculture for NI	1+	smolt	H	R. Bush	CWT	4341	16/43/28	AD	15-Apr-98	R. Bush	
Dept, Agriculture for NI	1+	smolt	H	R. Bush	CWT	3800	16/43/27	AD	15-Apr-98	R. Bush	
Dept, Agriculture for NI	1+	smolt	H	R. Bush	CWT	2130	16/43/36	AD	15-Apr-98	R. Bush	
Dept, Agriculture for NI	1+	smolt	H	R. Bush	CWT+elastomer	3650	16/43/37	AD	15-Apr-98	R. Bush	
Dept, Agriculture for NI	1+	smolt	H	R. Bush	CWT	8704	16/43/39	AD	27-Apr-98	R. Bush	
Dept, Agriculture for NI	1+	smolt	H	R. Bush	CWT	644	16/43/11	AD	10-Apr-98	R. Bush	
Dept, Agriculture for NI	1+	smolt	H	R. Bush	CWT	1327	16/43/40	AD	01-May-98	R. Bush	
Dept, Agriculture for NI	1+2+	smolt	H	R. Bush	adipose clip	3368			22-Apr-98	R. Bush	
Dept, Agriculture for NI	1+2+	smolt	W	R. Bush	CWT	2328	01/43/01	AD	Var	R. Bush	
Dept, Agriculture for NI	1SW	adult keh	H	R. Bush	panjet	306		AD	18-Feb-98	R. Bush	

ICES COMPILATION OF MICROTAG, FIN CLIP, AND EXTERNAL TAG RELEASES

Marking Season: 1998

Country: UK (Scotland)

Grand Total Primary Marks

JUVENILES		Hatchery	Wild	ADULTS	
Microtags		5997	14413		0
External Tags		2000	4593		182
Adipose Clip		5400	0		0
Other clips, External marks		0	0		0
TOTAL FISH MARKED		13397	19006		182

MARKING AGENCY	AGE	LIFE STAGE	H/W	STOCK ORIGIN	PRIMARY TAG or MARK	NUMBER MARKED	CODE OR SERIAL	AUX CLIP	REL DATE	PLACE OF RELEASE	COMMENT
FRS	2-3-4	SMOLT	W	GIRNOCK	CWT STANDARD	1609	62/50/1	AD	16/01/98-01/06/98	GIRNOCK	
FRS	1-2-3	PARR	W	GIRNOCK	CWT SEQUENTIAL	1254	62/50/26	AD	02/09/98-11/12/98	GIRNOCK	
FRS	2-3-4	SMOLT	W	BADDOCH	CWT STANDARD	331	62/50/2	AD	09/02/98-23/03/98	BADDOCH	
FRS	2-3-4	SMOLT	W	BADDOCH	CWT STANDARD	1185	62/50/8	AD	26/3/98-11/6/98	BADDOCH	
FRS	1-2-3	PARR	W	BADDOCH	CWT SEQUENTIAL	565	62/50/25	AD	28/08/98 - 22/12/98	BADDOCH	
FRS	2	SMOLT	H	TAY	CWT STANDARD	856	62/16/36	AD	SPR.98	R. BRAAN	
FRS	2	SMOLT	W	TAY	CWT STANDARD	42	62/16/42	AD	SPR.98	R. BRAAN	May be some S3's
FRS	1+2+	Aut. PARR	W	TAY	CWT STANDARD	3477	62/16/43	AD	AUT.98	R. BRAAN	Most Should Smolt in 99
FRS	1	SMOLT	H	TAY	CWT STANDARD	1063	62/16/45	AD	SPR.98	R. BRAAN	
FRS	2	SMOLT	H	TAY	CWT STANDARD	482	62/16/49	AD	SPR.98	R. BRAAN	

FRS	2	SMOLT	H	TAY	CWT STANDARD	1496	62/16/52	AD	SPR.98	R. BRAAN	
FRS	1	SMOLT	H	TAY	CWT STANDARD	1196	62/16/53	AD	SPR.98	R. BRAAN	
FRS	2-3	SMOLT	W	CONON	CWT STANDARD	1031	62/16/55	AD	SPR.98	R. CONON	
FRS	1	SMOLT	H	TAY	CWT STANDARD	904	62/16/56	AD	SPR.98	R. BRAAN	
FRS	0+	PARR	H	TAY	AD	5400			JUNE 98	R. BRAAN	
FRS/CONON D.S.F.B.	2+/3+	PARR/SMOLT	W	BLACKWATER	PIT TAG	1000	INDIVIDUAL	NONE	APRIL/MAY 98	R. BRAAN	
FRS	1-4	SMOLT	W	NORTH ESK	MOD CARLIN (GREEN) + CWT	4593	C36318-C4398 & 62/20/10	AD	31/03/98-08/06/98	NORTH ESK	SEQ MICROTAG
FRS	1-4	SMOLT	W	NORTH ESK	CWT	1402	62/20/10	AD	07/05/98-22/05/98	NORTH ESK	SEQ MICROTAG
WESTERN ISLES FISHERIES TRUST	1+	PRE-SMOLT	H	RED RIVER (Abhainn Caslav) Catchment Isle of Lewis	FINGERLING TAG (ORANGE)	1000	298	AD	27/04/98	RED RIVER (Abhainn Caslav) Catchment Isle of Lewis	
WESTERN ISLES FISHERIES TRUST	1+	PRE-SMOLT	H	LOWER PART OF LANGAVA CATCHMENT Isle of Lewis	FINGERLING TAG (LIGHT BLUE)	1000	198	AD	01/06/98	TRIBUTARIES OF LOCHAN FHIR MHAOIL Langavet Catchment Isle of Lewis	
WEST GALLOWAY FISHERIES TRUST		SMOLT	W	R. BLADNOCH	COLOURED ELASTIC DYE INJECTION	2793	N/A	AD	APRIL-JUNE 98	R. BLADNOCH	
SPEY RESEARCH TRUST	1+/2+	PARR	W	R. FIDDICH	CWT	644	62/D20/11	AD	OCT-NOV 98	R. FIDDICH	SEQ MICROTAG
SPEY RESEARCH TRUST	2+/3+	SMOLT	W	R. FIDDICH	CWT	550	62/D20/11	AD	MAR-JUN 98	R. FIDDICH	SEQ MICROTAG
SPEY RESEARCH TRUST	0+	FRY	H	SPEY DAM	CWT	2323	62/D10/02	AD	SEP 98	SPEY DAM	SEQ MICROTAG
DEE District Salmon Fishery board		ADULT	W	DEE	FLOY TAG	182	VARIOUS	NONE	25/02/98-23/09/98	DEE	GREEN

ICES COMPILATION OF MICROTAG, FIN CLIP, AND EXTERNAL TAG RELEASES

Marking Season: 1998

Country: United States

Grand Total Primary Marks

	JUVENILES		ADULTS	
	Hatchery	Wild	All	All
Microtags	0	0		0
External Tags	0	0		2204
Adipose Clip	5672	0		0
Other clips, External marks	49894	775		79
TOTAL FISH MARKED	55566	775		2283

MARKING AGENCY	AGE	LIFE STAGE	H/W	STOCK ORIGIN	PRIMARY TAG or MARK	NUMBER MARKED	CODE OR SERIAL	AUX CLIP	REL DATE	PLACE OF RELEASE	COMMENT
USGS	4	adult	W	Connecticut	Radio tag	9		PIT	May-98	Connecticut R.	Westfield R. Study
USGS	5	adult	W	Connecticut	Radio tag	2		PIT	May-98	Connecticut R.	Westfield R. Study
USGS	4	adult	H	Connecticut	Radio tag	8		PIT	Jun-98	Connecticut R.	Westfield R. Study
USGS	4	adult	H	Connecticut	Radio tag	8		PIT	Sep-98	Connecticut R.	Westfield R. Study
USGS	0	juvenile	H	Connecticut	PIT	1,325			all 1998	Connecticut R.	West Brook, MA
USGS	1	juvenile	H	Connecticut	PIT	120			all 1998	Connecticut R.	West Brook, MA
USGS	2	juvenile	H	Connecticut	PIT	8			all 1998	Connecticut R.	West Brook, MA
USGS	1	juvenile	H	Connecticut	PIT	83			May-98	Connecticut R.	Sawmill R., MA
USGS	2	juvenile	H	Connecticut	PIT	4			May-98	Connecticut R.	Sawmill R., MA
USGen	3	adult	W	Connecticut	Radio tag	2			May-98	Connecticut R.	Deerfield Study
USGen	4	adult	W	Connecticut	Radio tag	20			May-98	Connecticut R.	Deerfield Study
RIDFW	1	smolt	H	Merrimack	AD	5672			Jan-98	Pawcatuck R.	
NHFG	3+,4+	adult	D	Merrimack	Floy	482	98/S		4-5/98	Merrimack R.	Yellow
NHFG	3+,4+	adult	D	Merrimack	Floy	438	98/S		4-5/98	Merrimack R.	Green
NHFG	3+	adult	D	Merrimack	Floy	119	98/S		4/98	Merrimack R.	White
NHFG	3+	adult	D	Merrimack	Floy	125	98/S		4/98	Merrimack R.	Blue
NHFG	3+,4+	adult	D	Merrimack	Floy	311	98/S		4-5/98	Merrimack R.	Red
NHFG	3+	adult	D	Merrimack	Floy	55	98/S		4/98	Merrimack R.	Orange
NHFG	3+,4+	adult	D	Merrimack	Floy	149	98/S		5,7,10/98	Merrimack R.	Gray
NHFG	3+	adult	D	Merrimack	Floy	114	98/F		12/98	Merrimack R.	Gray

NHFG	3+	adult	D	Merrimack	Floy	241	98/F		12/98	Merrimack R.	Purple
NHFG	1	smolt	H	Merrimack	LV	923			6/98	Merrimack R.	
NHFG	1+	parr	H	Merrimack	LV	3290			6/98	Merrimack R.	
USFWS	1+	parr	H	Merrimack	RV	3550			4/98	Merrimack R.	
USFWS	5	adult	C	Machias	Carlin	47	180-227	AP	10/98	Machias R.	green
ASA	0+	parr	W	Machias	VIE	81			08/98	Machias R.	red in left jaw
ASA	0+	parr	W	Machias	VIE	111			08/98	Machias R.	red in right jaw
ASA	0+	parr	W	Machias	VIE	343			08/98	Machias R.	blue in right jaw
ASA	0+	parr	W	Machias	VIE	81			08/98	Machias R.	blue in left jaw
ASA	1+	parr	W	Machias	VIE	50			08/98	Machias R.	blue in left jaw
USFWS/ASA	1	smolt	H	Machias	VIE	10800		AC	04/98	Machias R.	red in left eye
USFWS/ASA	5	adult	C	Machias	ping	8		AP	10/98	Machias R.	54-76.8 kHz
GNP	1	smolt	H	Penobscot	ping	60			04/98	Penobscot R.	40.6-40.69 MHz
USFWS/ASA	1	smolt	H	Dennys	VIE	9600		AC	04/98	Dennys R.	orange in left eye
USFWS/ASA	4, 5	adult	C	Narraguagus	Carlin	50	120-173	AP	10/98	Narraguagus R.	green
USFWS/NMFS	2	smolt	W	Narraguagus	Ping	109			5.6/98	Narraguagus R.	65.5-78.0 kHz
USFWS/ASA	1	smolt	H	Narraguagus	VIE	22		Ping	06/98	Narraguagus R.	65.5-78.0 kHz; blue elas.
USFWS/ASA	4, 5	adult	H	Narraguagus	Ping	14		AP	10/98	Narraguagus R.	double adipose punch
USFWS/ASA	4, 5	adult	C	Sheepscot	Carlin	37	001-040	AP	04/98	Sheepscot R.	green
USFWS/ASA	4, 5	adult	C	East Machias	Carlin	36	041-077	AP	04/98	East Machias R.	green
USFWS/ASA	4, 5	adult	C	East Machias	ping	8		AP	10/98	East Machias R.	54-76.8 kHz
USFWS/ASA	1	smolt	H	East Machias	VIE	10800		AC	04/98	East Machias R.	yellow in left eye

Notes

UCP = upper caudal punch

LCP = lower caudal punch

CP = caudal punch

AD = adipose clip

AP=hole punched in adipose fin (AD punch)

Ping=internally implanted ultrasonic pinger

VIA=visual implant alpha-numeric

VIE=visual implant elastomers

LV=left ventral fin clip

RV=right ventral fin clip

C=captive, wild origin held in hatchery then released

D=domestic, entire life cycle in hatchery

Table 1. Number of microtags, external tags, marks and finclips applied to Atlantic salmon by countries for 1998. ('Hatchery' and 'wild' refer to smolts or parr; adults are 'wild' and/or 'hatchery')

Country	Origin	Primary Marking Method				Auxillary Marks Applied
		Microtags	External Tags	Adipose Clip Only	Other Visible Clips/Marks	
Belgium	Hatchery	16961				4548
	Wild					
	Adult					
	Total	16961				4548
Canada	Hatchery		12448	556830		4450
	Wild					
	Adult		12535			
	Total		24983	556830		4450
Denmark	Hatchery	27107	1900	45371	24000	27107
	Wild					
	Adult					
	Total	27107	1900	45371	24000	27107
Finland	Hatchery					
	Wild					
	Adult					
	Total	0	0	0	0	0
France	Hatchery	35463		305423		3579
	Wild	123		524		123
	Adult					
	Total	35586		305947		3702
Iceland	Hatchery	146717	36			146717
	Wild	3852				3852
	Adult		2439			
	Total	150569	2475			150569
Ireland	Hatchery	257365		160089		257365
	Wild	3776				3776
	Adult					
	Total	261141		160089		261141

Table 1 continued

Norway	Hatchery		99741			
	Wild		3720			
	Adult		800			800
	Total		104261			800
Russia	Hatchery			404000		
	Wild			215		
	Adult		1911			
	Total		1911	404215		
Spain	Hatchery	45331		97100		142431
	Wild					
	Adult					
	Total	45331		97100		142431
Sweden	Hatchery		6456			
	Wild		637			
	Adult					
	Total		7093			
UK (England & Wales)	Hatchery	103153		79420		174984
	Wild	2799				2799
	Adult		1425			
	Total	105952	1425	79420		177783
UK (Northern Ireland)	Hatchery	34725		3368		34725
	Wild	2328				2328
	Adult				306	306
	Total	37053		3368	306	37359
UK (Scotland)	Hatchery	5997	2000	5400		7997
	Wild	14413	4593			19006
	Adult		182			
	Total	20410	6775	5400		27003
USA	Hatchery			5672	49894	31222
	Wild				775	
	Adult		2204		79	227
	Total		2204	5672	50748	31449
TOTALS	Hatchery	672819	122581	1662673	73894	835125
	Wild	27291	8950	739	775	31884
	Adult	0	21496	0	385	1333
	Total by Type	700110	153027	1663412	75054	868342
Grand Total Salmon Marked =			2591603			

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) Claire.Prignon@fundp.ac.be
CANADA	Atlantic Salmon Tag Clearing House Department of Fisheries & Oceans (Att. K. Rutherford)	P.O.Box 1006 Darmouth Nova Scotia, B3K2A4 RutherfordK@mar.dfo-mpo.gc.ca
DENMARK	Danmarks Fiskeri- og Havundersøgelser	Charlottenlund Slot DK-2920 Charlottenlund ffi@dfu.min.dk
FAROEES	Fiskirannsóknarstovan	Noatun, P.O. Box 3051 FR 110 Torshavn
FINLAND	Finnish Game & Fisheries Research Institute	P.O. Box 202 SF-00151 Helsinki majja.lansman@rktl.fi
FRANCE	Conseil Supérieur de la Pêche	Délégation Régionale 84, Rue de Rennes F-35510 Cesson-Sévigné jean-pierre.porcher@csp-rennes.environnement.gouv.fr
ICELAND	Institute of Freshwater Fisheries	Vagnhöfði 7 112 Reykjavik Gudni.Gudbergsson@veidimal.is
IRELAND	Marine Institute Fisheries Research Center (Att. A. Cullen)	Abbotstown, Castleknock Dublin 15
NORWAY	Norwegian Institute for Nature Research (NINA)	Tungasletta 2 N-7005 Trondheim l.p.hansen@ninaosl.ninaniku.no
PORTUGAL	Institute Superior Agronomia Dept. de Engenharia Florestal	Tapada da Ajuda 1399 Lisbon Portugal
RUSSIA	PINRO (Att. S. Prusov)	6 Knipovitch Street 183763 Murmansk inter@pinro.murmansk.ru
SPAIN (Navarra)	Gobierno de Navarra Servicio de Medio Ambiente	c/o Alhondiga, 1 E 31002 Pamplona
SPAIN (Asturias)	Principado De Asturias Consejería De Agricultura (Att. Mr. Jeronimo de la Hoz)	Seccion de Pesca fluvial c/ Coronel Coronel Arvada s/n 33005 OVIEDO.ASTURIAS. (Spain)
SWEDEN	Laxforskningsinstitutet Swedish Salmon Research Institute	Forskarstigen S-814 94 Älvkarleby Curt.Insulander@imr.no
UK (England & Wales)	MAFF, Fisheries Laboratory (Att. I. Russell)	Pakefield Road, Lowestoft Suffolk NR33 OHT russell@cefasc.co.uk

COUNTRY	INSTITUTION	ADDRESS
UK (Scotland)	Fisheries Research Services (Att. J. Higgins)	Freshwater Fisheries Lab. Field Station, 16 River Street, Montrose DD108DL j.higgins@marlab.ac.uk
UK (N Ireland)	Department of Agriculture for N. Ireland, Fishery Research Laboratory (Att. J. Moffett)	38, Castle Road Coleraine C.Londonderry BT51 3RL
USA	Northwest Fisheries Centre NMFS/NOAA (Att. R. Brown)	166 Water Street Woods Hole, MA 02543 Russell.Brown@noaa.gov

