

























Species Country Company Started Families tested per year Atlantic Salmon Norway AquaGen ¹ 1971 400 Norway SalmoBreed 1999 300 Norway Marine Harvest 1000 Norway Rauma 1000 Chile GENTEC/AFGC 1996 Chile AquaChile 1997		
Atlantic Salmon Norway AquaGen ¹ 1971 400 Norway SalmoBreed 1999 300 Norway Marine Harvest 1000 Norway Rauma 1000 Chile GENTEC/AFGC 1996 150 Chile AquaChile 1997 2000	No of traits	Industry prod. of the strain, 1000 tons
NorwaySalmoBreed1999300NorwayMarine HarvestNorwayRaumaChileGENTEC/AFGC1996150ChileAquaChile1997200	7	200
NorwayMarine HarvestNorwayRaumaChileGENTEC/AFGC1996150ChileAquaChile1997200	7	200
NorwayRaumaChileGENTEC/AFGC1996ChileAquachile1997200		
ChileGENTEC/AFGC1996150ChileAquaChile1997200		
Chile AquaChile 1997 200	2	
	4	44
Canada ASBDP 90	2	
Faroe Island		
Iceland Stofnfiskur 1995		
Scotland Landcatch 200	6	
Ireland Marine Harvest 1998		
Coho Chile AquaChile 1997 120	4	10
Chile IFOP 1992 100	2	5
Canada		
Rainbow trout Norway AquaGen ¹ 1971 300	5	30
Norway SalmoBreed 2000 150	8	30
Finland MTT 1992		
Chile GENTEC/AFGC 1997 150	1	
Chile AquaChile 2000 120	3	7

Species	Country	Company	Started	Families	No of	Industry
				tested per year	traits	prod. of the strain, 1000 tons
Nile tilapia	Philippines	GENOMAR ¹	1989			
	Equador	/AFGC	2004			
	Vietnam	RIA 1(AF)	1999	100	3	
Seabream	Greece	ENALIOS/AFGC	2002	50	3	
Seabass	Greece	ENALIOS/AFGC	2003	50	3	
Cod	Norway	Inst. Fisheries	2003			
	Norway	MarineBreed	2002	50	3	
	Iceland		2004			
Turbut	Spain	Stolt Seafarm		50	1	
Channel catfish	USA					
Rohu carp	India	CIFA(AF)	1993	60	1	
Shrimp	Columbia	CENIACUA/AFG	1998	210	3	
	Hawai	HHA				
Pacific oysters	USA	MBP	1996	100	3	
	Australia	ASI ²	1996	50	3	0.5-1.0
	New Zealand		1997			
Scallops	Chile	APOOCH/Ifop	1998	80	1	
Mussel	New Zealand					
Abalone	Iceland	Stofnfiskur				
/ Started by AKVAFORSK(AF)	Chile	UCN	2002	100	1	



The very high genetic variability and the higher fecundity of aquatic species allows the application of higher selection intensities resulting in greater selection responses than those observed in terrestrial animals.

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10.6-14.2 %	Gjerde et al., 1986	
13.0%	Gjerde et al., 1986	
12-20 %	Dunham, 1987	
10.1 %	Hershberger et al., 199	
9.4-10.3%	Neira et al., 2002, 2005	
17.0%	Eknath, 1997	
4.4%	Fjalestad et al., 1997	
	10.0-14.2 % 13.0% 12-20 % 10.1 % 9.4-10.3% 17.0% 4.4%	





production





IDENTIFICATION

Genetic evaluation is based on individual identification of fishes



ELECTRONIC TAGGING





FREEZE MARKING (REPLICATES)

