

The following supplement accompanies the article

Spawning success of cultured and wild male Atlantic cod *Gadus morhua* does not differ during paired contests

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Table S1. Identities of the fish that were used more than once, and the rounds in which they were used.

Start Date	Exp. Rnd	Tank	Fish	PIT Tag	ID#	Times Used	Weight (g)	Length (cm)	L PF (mm)	R PF (mm)	First Spawn	Prop. Cultured Male	Second Spawn	Prop. Cultured Male	Third Spawn	Prop. Cultured Male	Fourth Spawn	Prop. Cultured Male	Fifth Spawn	Prop. Cultured Male	Sixth Spawn	Prop. Cultured Male							
Mar. 18, 2010	1	1	Female	357108	NA		1277	46	41.7	44.54	Did not spawn																		
	1	1	Cultured Male	359077	NA		1662	47	59.51	52.05																			
			Wild Male	066 605 031	5		1816	50.5	79.05	76.82																			
Mar. 18, 2010	1	2	Female	345807	10	2	1925	50	54	50	Apr. 14, 2010	0.70																	
	1	2	Cultured Male	273889	10		1610	48	55.87	54.85																			
	1	2	Wild Male	060 028 101	1	2	2146	57.5	85.19	77.37																			
Mar. 18, 2010	1	3	Female	363101	NA		2240	49.5	41.48	51.35	Did not spawn																		
	1	3	Cultured Male	276888	NA		1763	46	51.92	52.05																			
	1	3	Wild Male	066 281 523	NA		3219	65.5	69	71																			
Mar. 18, 2010	1	4	Female	356002	13		1839	46.5	40	53	Apr. 10, 2010 Behaviour Data	1.00	Apr. 14, 2010 Behaviour Data	0.14															
	1	4	Cultured Male	345031	14		1510	45	51.38	49.29																			
	1	4	Wild Male	060 557 596	2	2	1759	55	72.39	71.28																			
Mar. 18, 2010	1	5	Female	354425	NA		1950	50	46.81	46.57	Did not spawn																		
	1	5	Cultured Male	346674	NA		2336	51	48.78	56.27																			
	1	5	Wild Male	066 020 024	NA		1902	54.5	66.47	74.77																			
Mar. 18, 2010	1	6	Female	275578	7	2	2334	48	57	52	Apr. 4, 2010	0.06	Apr. 10, 2010	0.39	Apr. 13, 2010	0.10	Apr. 14, 2010	0.00											
	1	6	Cultured Male	275594	12		1500	49	52.16	51.79																			
	1	6	Wild Male	069 269 109	13	3	1363	52.5	63.4	69.55																			
Mar. 18, 2010	1	7	Female	151828	NA		2132	49.5	53.27	53.66	Did not spawn																		
	1	7	Cultured Male	275336	NA		1288	47	45.46	50.24																			
	1	7	Wild Male	No Tag	15	3	2114	56.5	66.78	69.02																			
Mar. 18, 2010	1	8	Female	349539	NA		1836	47	47.38	54.99	Did not spawn																		
	1	8	Cultured Male	365746	NA		1395	47	59.41	56.75																			
	1	8	Wild Male	068 868 872	7		1636	54.5	74.28	77.08																			

Start Date	Exp. Rnd	Tank	Fish	PIT Tag	ID#	Times Used	Weight (g)	Length (cm)	L PF (mm)	R PF (mm)	First Spawn	Prop. Cultured Male	Second Spawn	Prop. Cultured Male	Third Spawn	Prop. Cultured Male	Fourth Spawn	Prop. Cultured Male	Fifth Spawn	Prop. Cultured Male	Sixth Spawn	Prop. Cultured Male									
Mar. 18, 2010	1	9	Female	346456	11		2163	51	48.75	56.27	Apr. 10, 2010	0.41																			
	1	9	Cultured Male	154176	3		1545	NA	NA	NA																					
	1	9	Wild Male	069 039 528	11		3700	62	81.31	76.41																					
Mar. 18, 2010	1	10	Female	362080	16		1510	51.5	49.73	56.27	Apr. 14, 2010	1.00																			
	1	10	Cultured Male	149445	1		1484	48.5	63.77	61.83																					
	1	10	Wild Male	069 020 888	8		2698	68	89.98	86.78																					
Apr. 13, 2010	2	1	Female	274520	NA		1580.5	49.5	51	55	Did not spawn																				
	2	1	Cultured Male	363092	NA		1277.3	44.5	66	60																					
	2	1	Wild Male	060 557 596	2		1759	55	72.39	71.28																					
Apr. 13, 2010	2	2	Female	275733	8	2	1857	50	59	59	Apr. 20, 2010	0.44	Apr. 24, 2010	0.93	Apr. 25, 2010	0.65															
	2	2	Cultured Male	263310	5		1340.8	47.5	45.09	50.34																					
	2	2	Wild Male	069 020 888	4		2698	66	81.78	80.89																					
Apr. 13, 2010	2	3	Female	348708	12		1924.4	50.5	56	64	Apr. 20, 2010	0.08																			
	2	3	Cultured Male	272239	9		2357.2	53.5	63.85	73.23																					
	2	3	Wild Male	066 605 031	5		1816	50.5	79.05	76.82																					
Apr. 13, 2010	2	4	Female	344884	9		1216.2	43	57	61	Apr. 27, 2010 Behaviour Data	0.81																			
	2	4	Cultured Male	266688	7		1655	49	63.78	67.64																					
	2	4	Wild Male	066 020 024	3		1902	54.5	66.47	74.77																					
Apr. 13, 2010	2	5	Female	263985	3		1749.2	47	59	60	Apr. 17, 2010 Behaviour Data	0.15	Apr. 21, 2010 Behaviour Data	0.47	Apr. 22, 2010 Behaviour Data	0.55															
	2	5	Cultured Male	355126	18		2841.3	NA	NA	NA																					
	2	5	Wild Male	069 039 528	12		3700	62	81.31	76.41																					
Apr. 13, 2010	2	6	Female	270523	6		2115.5	51.5	59	60	Apr. 15, 2010	0.56	Apr. 26, 2010	0.00																	
	2	6	Cultured Male	271098	8		2517.3	59	81.03	65.92																					
	2	6	Wild Male	060 028 101	1	2	2146	57.5	85.19	77.37																					
Apr. 13, 2010	2	7	Female	345807	10	2	1943.8	50	43.23	41.07	Apr. 26, 2010 Behaviour Data	0.29	Apr. 27, 2010 Behaviour Data	0.40																	
	2	7	Cultured Male	368815	22		1805.6	50.5	61.22	68.21																					
	2	7	Wild Male	068 868 872	7	2	1636	54.5	74.28	77.08																					
Apr. 13, 2010	2	8	Female	275578	7	2	2304	48	44.78	46.15	Apr. 21, 2010 Behaviour Data	0.88	Apr. 24, 2010 Behaviour Data	0.85	Apr. 26, 2010 Behaviour Data	0.95	Apr. 27, 2010 Behaviour Data	0.73	Apr. 28, 2010 Behaviour Data	0.60											
	2	8	Cultured Male	263248	4		1807.4	50	55.4	62.5																					
	2	8	Wild Male	No Tag	15	3	2114	56.5	66.78	69.02																					
Apr. 13, 2010	2	9	Female	115248	1		1771.5	48	63	57	Apr. 20, 2010	0.05	Apr. 25, 2010	0.00	Apr. 28, 2010	0.00															
	2	9	Cultured Male	265643	6		1392.7	44.5	58	53																					
	2	9	Wild Male	069 269 109	13	3	1363	52.5	63.4	69.55																					
Apr. 13, 2010	2	10	Female	369594	NA		1750	48	43.3	PF Missing	Did not spawn																				
	2	10	Cultured Male	276487	NA		1405.2	47.5	50	59																					
	2	10	Wild Male	066 304 091	NA		1679	59.5	79.82	72.68																					

Start Date	Exp. Rnd	Tank	Fish	PIT Tag	ID#	Times Used	Weight (g)	Length (cm)	L PF (mm)	R PF (mm)	First Spawn	Prop. Cultured Male	Second Spawn	Prop. Cultured Male	Third Spawn	Prop. Cultured Male	Fourth Spawn	Prop. Cultured Male	Fifth Spawn	Prop. Cultured Male	Sixth Spawn	Prop. Cultured Male
Apr. 30, 2010	3	1	Female	360589	14		1305.9	46	46.59	53.43	May 9, 2010	0.65	May 13, 2010	0.70	May 15, 2010	0.74	May 17, 2010	0.91				
	3	1	Cultured Male	152486	2		1332.9	51	68.69	69.97												
			Wild Male	068 868 872	7	2	1636	54.5	74.28	77.08												
Apr. 30, 2010	3	2	Female	354425	2		1899.2	50	51.18	51.14	May 7, 2010	0.63	May 11, 2010	0.86	May 12, 2010	0.76	May 13, 2010	0.24	May 17, 2010	0.38	May 18, 2010	0.50
	3	2	Cultured Male	365783	21		1896.6	47	NA	NA												
	3	2	Wild Male	060 557 596	2	2	1759	55	72.39	71.28												
Apr. 30, 2010	3	3	Female	068 841 858	NA		2261	62	74.64	74.04	Did not spawn											
	3	3	Cultured Male	370927	NA		979	46	41.83	40.59												
	3	3	Wild Male	066 084 072	4		3249.5	66	81.78	80.89												
Apr. 30, 2010	3	4	Female	361879	15		1677	46	52.81	60.46	May 7, 2010 Behaviour Data	0.12	May 10, 2010	0.00								
	3	4	Cultured Male	274729	11		1344	50	64.42	61.31												
	3	4	Wild Male	069 027 029	9		2280	58.5	74.07	74.55												
Apr. 30, 2010	3	5	Female	268639	5		1981.3	48	56.2	53.37	May 7, 2010 Behaviour Data	0.79	May 18, 2010 Behaviour Data	0.08	May 22, 2010 Behaviour Data	0.06	May 23, 2010 Behaviour Data	0.05				
	3	5	Cultured Male	353840	17		1425.8	48	51.07	51.63												
	3	5	Wild Male	069 012 888	16		3208.9	68	89.98	86.78												
Apr. 30, 2010	3	6	Female	372882	17		1835.2	NA	NA	NA	May 11, 2010	0.24	Female 5 Died, and was replaced by Female 20									
	3	6	Cultured Male	360101	19		2436	51	78.86	61.93												
	3	6	Wild Male	066 605 031	6		1816	50.5	79.05	76.82												
May 16, 2010	3	6	Female	369594	20		1553.6	48	43.3	NA	May 19, 2010	0.00	May 22, 2010	0.04								
	3	6	Cultured Male	360101	19		2436	51	78.86	61.93												
	3	6	Wild Male	066 605 031	6		1816	50.5	79.05	76.82												
Apr. 30, 2010	3	7	Female	267530	4		1797.4	48	44.78	46.15	May 3, 2010 Behaviour Data	0.50	May 7, 2010 Behaviour Data	0.54	May 15, 2010 Behaviour Data	0.36						
	3	7	Cultured Male	277264	13		1542.1	47.5	50.94	52.07												
	3	7	Wild Male	069 269 109	13	3	1363	52.5	63.4	69.55												
Apr. 30, 2010	3	8	Female	374264	18		1633.6	45.5	49.8	54.59	May 11, 2010 Behaviour Data	0.64	May 13, 2010 Behaviour Data	0.63	May 16, 2010 Behaviour Data	0.94	May 17, 2010 Behaviour Data	1.00				
	3	8	Cultured Male	345953	15		1507.9	49	60.24	59.54												
	3	8	Wild Male	069 373 341	14		2310	59.5	77.69	67.52												
Apr. 30, 2010	3	9	Female	068 890 370	19		1701	53	69.16	69.67	May 7, 2010	0.50	May 16, 2010	0.10								
	3	9	Cultured Male	348441	16		1710.9	NA	NA	NA												
	3	9	Wild Male	069 034 019	10		2654	59.5	79.82	72.68												
Apr. 30, 2010	3	10	Female	275733	8	2	2050	50	59	59	May 3, 2010	0.86	May 5, 2010	0.76	May 7, 2010	0.87						
	3	10	Cultured Male	365703	20		1345.9	44.5	52.79	59.43												
	3	10	Wild Male	No Tag	15	3	2114	56.5	66.78	69.02												

Table S2. Primer sequences and characteristics of the microsatellite loci used in this study. Only the forward primers were labeled. The amount added is the volume of 10⁻⁸ M forward and reverse primer added to each PCR reaction. All primer sequences are from Miller et al. (2000).

Locus	Repeat motive	Primer sequence (5'-3')	Allele size range (bp)	Dye label	Accession Number	Amount added (μl)
<i>Gmo8</i>	GACA	R: TGG GGG AGG CAT CTG TCA TTC A F: GCA AAA CGA GAT GCA CAG ACA CC	132-184	5' NED	AF159238	0.6
<i>Gmo19</i>	GACA	R: GTC TTG CCT GTA AGT CAG CTT G F: CAC AGT GAA GTG AAC CCA CTG	134-210	5' VIC	AF159232	0.5
<i>Gmo35</i>	ACA	R: CCT TAT CAT GTA CGT TGT TAA C F: GGA GGT GCT TTG AAG ATG	128-145	5' 6-FAM	AF159235	0.5
<i>Gmo37</i>	GACA	R: CGT GGG ATA CAT GGG TAC CT F: GGC CAA TGT TTC ATA ACT CT	240-292	5' PET	AF159237	0.4