

Appendix B. Summarized data on LHRH-a and GnRH-a induced individual and group spawning trials at UNCW (2002-2003). For each treatment values in left and right columns represent means and ranges respectively.

Parameter	LHRH-a												GnRH-a	
	Control		5 Slow		50 Slow		Group 50 Slow		50 Fast		100 Slow		Ovaplant	
	Mean	Range	Mean	Range	Mean	Range	Mean	Range	Mean	Range	Mean	Range	Mean	Range
No. of trials		17		12		21		10		6		9		6
No. of females/trial		1		1		1	4.00	2.00-6.00		1		1		1
No. of female mortality		0		0		0		0		0		2		1
Female body wt. (kg)	1.09	0.570-1.80	0.948	0.665-1.26	1.41	0.888-1.93	1.12	0.520-2.21	1.46	1.00-1.69	1.50	0.979-1.97	1.50	1.16-2.15
Initial MOD ^a (um)	0.454	0.339-0.503	0.480	0.418-0.523	0.450	0.338-0.526	0.462	0.354-0.527	0.473	0.422-0.559	0.488	0.451-0.569	0.470	0.421-0.545
Initial spawn (dpi)	3.14	2.00-6.00	2.6	2.00-4.00	2.53	2.00-5.00	1.44	(-1.00)-2.00	2.67	2.00-4.00	2.22	2.00-3.00	2.00	2.00
No. of spawns		8		20		60		49		19		50		20
Duration (d)	0.471	0-2.00	1.67	0-7.00	2.86	0-6.00	5.44	1.00-13.0	3.17	1.00-6.00	5.56	1.00-11.0	3.33	0-7.00
No. eggs/spawn (x 10 ³)	9.60	0-40.4	39.3	0-108	66.7	0-679	108	2.69-504	70.5	8.07-194	105	8.07-619	63.2	0-219
Fecundity (eggs/group) (x 10 ³) ^b	na ^c	na ^c	na ^c	na ^c	na ^c	na ^c	646	64.6-1710	na ^c	na ^c	na ^c	na ^c	na ^c	na ^c
Fecundity (eggs/female) (x 10 ³) ^b	10.2	0-65.9	72.0	0-476	197	0-861	na ^c	na ^c	223	17.5-356	584	69.9-1364	221	0-570
Fecundity (eggs/kg) (x 10 ³) ^b	9.40	0-72.4	85.3	0-605	121	0-420	159	66.7-175	160	13.0-306	382	42.0-744	170	0-427
Floaters (%)	17.8	0-77.8	19.1	0-73.7	13.3	0-95	21.0	0-100	2.28	0-15.8	9.28	0-53.6	1.78	0-20.0
Sinkers (%)	82.2	22.2-100	80.9	26.3-100	86.7	5.00-100	79.0	0-100	97.7	84.2-100	90.7	46.5-100	98.2	80.0-100
Fertilization (% floaters)	93.9	71.2-100	96.1	80.8-100	88.6	0-100	91.3	0-100	98.3	96.0-100	88.2	9.09-100	86.5	74.0-99.0
Fertilization (% sinkers)	0	0	na ^c	na ^c	47.9	0-100	81.5	0-100	37.5	0-100	44.1	0-100	29.4	0-100
Fertilization (% overall)	22.5	0-76.3	41.6	4.75-73.7	38.0	0-100	41.4	0-100	31.9	0-100	37.7	0-100	28.0	0-100
Spawned egg diameter (mm)	0.967	0-0.982	0.981	0.933-1.02	0.919	0.836-0.990	0.947	0.892-1.01	0.929	0.864-1.00	0.970	0.859-2.00	0.933	0.865-0.990
Hatch (% floaters)	53.1	0-86.4	42.3	17.0-56.5	51.2	18.5-94.6	51.5	2.28-99.3	21.8	5.46-43.3	36.8	8.29-72.9	53.8	31.6-76.0
Hatch (% sinkers)	0	0	na ^c	na ^c	12.7	0-38.6	25.5	4.36-41.9	43.9	1.47-87.4	8.54	0.737-17.3	16.0	0-48.1
Egg viability (% hatch overall)	19.6	0-53.0	21.3	3.40-38.4	15.6	0-40.2	18.7	0.070-44.9	31.5	0.040-87.4	11.9	0.737-26.7	14.7	0-48.1
Egg viability (% first feeding overall)	4.48	0-9.05	7.50	0.972-19.9	4.20	0-21.0	5.45	0-28.3	3.62	0.009-15.1	2.63	0-9.38	0.456	0-1.90
No. yolksac larvae/group (x 10 ³)	na ^c	na ^c	na ^c	na ^c	na ^c	na ^c	108	0-299	na ^c	na ^c	na ^c	na ^c	na ^c	na ^c
No. yolksac larvae/female (x 10 ³)	0.664	0-6.42	5.53	0-26.9	14.0	0-111	na ^c	na ^c	35.5	0-149	19.4	0-80.0	34.3	0-136
No. yolksac larvae/kg (x 10 ³)	0.680	0-6.79	5.82	0-28.4	8.76	0-63.1	23.2	0-81.3	23.4	0-101	12.7	0-58.2	28.0	0-117
No. first feeding larvae/group (x10 ³)	na ^c	na ^c	na ^c	na ^c	na ^c	na ^c	23.6	0-73.2	na ^c	na ^c	na ^c	na ^c	na ^c	na ^c
No. first feeding larvae/female (x10 ³)	0.151	0-1.10	2.09	0-10.0	2.06	0-11.1	na ^c	na ^c	4.17	0-20.4	4.42	0-24.7	0.711	0-3.93
No. first feeding larvae/kg (x 10 ³)	0.143	0-1.16	2.23	0-10.6	1.34	0-6.08	5.44	0-20.5	2.78	0-13.8	2.88	0-18.0	0.515	0-2.83

^a Mean oocyte diameter.

^b Total eggs spawned for the duration of the spawning period.

^c Not applicable.