

**Comparison of Background Nutrient and Chlorophyll *a* Concentrations among Estuaries (ANOVA)**

SSB, SSK, SJ - 'O' stations only

NH<sub>3</sub>-N

Table A1-1: Summary of all Effects; design: (wq1002.sta)  
1-ESTUARY, 2-TIDE

	df Effect	MS Effect	df Error	MS Error	F	p-level
1	2	0.1249	44	0.0407	3.06469	0.05675
2	1	0.0003	44	0.0407	0.00767	0.9306
12	2	0.0441	44	0.0407	1.08133	0.34798

Table A1-2  
Newman-Keuls test; NH<sub>3</sub>-N (wq1002.sta)  
Homogeneous Groups, alpha=.05  
MAIN EFFECT: ESTUARY

	Mean	1	
SSK .... (2)	0.1835	xxxx	
SJ .... (1)	0.2134	xxxx	
SSB .... (3)	0.3375	xxxx	

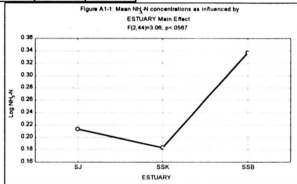


Table A1-3  
Newman-Keuls test; NH<sub>3</sub>-N (wq1002.sta)  
Homogeneous Groups, alpha=.05  
MAIN EFFECT: TIDE

	Mean	1	
.... Ebb (2)	0.2413	xxxx	
.... Flood (1)	0.2483	xxxx	

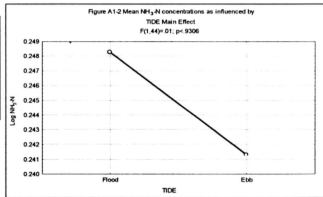
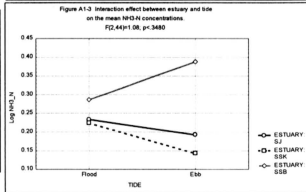


Table A1-4  
Newman-Keuls test; NH<sub>3</sub>-N (wq1002.sta)  
Homogeneous Groups, alpha=.05  
INTERACTION: 1 x 2

	Mean	1	
SSK Ebb (4)	0.1428	xxxx	
SJ Ebb (2)	0.1927	xxxx	
SSK Flood (3)	0.2241	xxxx	
SJ Flood (1)	0.2341	xxxx	
SSB Flood (5)	0.2866	xxxx	
SSB Ebb (6)	0.3885	xxxx	



**Comparison of Background Nutrient and Chlorophyll a Concentrations among Estuaries**

SSB, SSK, SJ - 'O' stations only

NO<sub>3</sub>-N

Table A2-1: Summary of all Effects; design: (wq1002.sta)  
1-ESTUARY, 2-TIDE

	df	MS	df	MS	F	p-level
	Effect	Effect	Error	Error		
1	2	0.081	44	0.011154	7.24296	0.001909 #
2	1	0.099	44	0.011154	8.88315	0.004674 #
12	2	0.143	44	0.011154	12.8205	4.1E-05 #

Note: # denotes p<0.05

Table A2-2  
Newman-Keuls test; NO<sub>3</sub>-N (wq1002.sta)  
Homogeneous Groups, alpha=.05  
MAIN EFFECT: ESTUARY

	Mean	1	2
SJ .... {1}	0.703	xxxx	
SSK .... {2}	0.892		xxxx
SSB .... {3}	0.927		xxxx

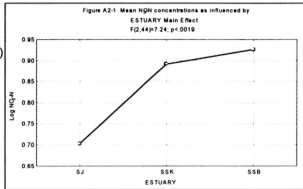


Table A2-3  
Newman-Keuls test; NO<sub>3</sub>-N (wq1002.sta)  
Homogeneous Groups, alpha=.05  
MAIN EFFECT: TIDE

	Mean	1	2
... Ebb {2}	0.779	xxxx	
... Flood {1}	0.902		xxxx

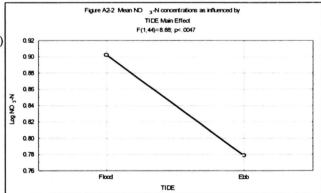
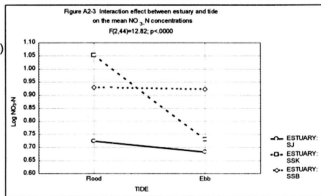


Table A2-4  
Newman-Keuls test; NO<sub>3</sub>-N (wq1002.sta)  
Homogeneous Groups, alpha=.05  
INTERACTION: 1 x 2

	Mean	1	2
SJ Ebb {2}	0.682	xxxx	
SJ Flood {1}	0.723	xxxx	
SSK Ebb {4}	0.731	xxxx	
SSB Ebb {6}	0.923		xxxx
SSB Flood {5}	0.93		xxxx
SSK Flood {3}	1.053		xxxx



**Comparison of Background Nutrient and Chlorophyll a Concentrations among Estuaries**  
 SSB, SSK, SJ - 'O' stations only  
 NO<sub>2</sub>-N

Table A3-1: Summary of all Effects; design: (wq1002.sta)  
 1-ESTUARY, 2-TIDE

	df Effect	MS Effect	df Error	MS Error	F	p-level
1	2	0.117	44	0.00696	16.7541	3.89329E-06 #
2	1	0.097	44	0.00696	13.9487	0.000537029 #
12	2	0.263	44	0.00696	37.7871	2.80506E-10 #

Note: # denotes p<0.05

Table A3-2  
 Newman-Keuls test; NO<sub>2</sub>-N (wq1002.sta)  
 Homogeneous Groups, alpha=.05  
 MAIN EFFECT: E

	Mean	1	2
SJ .... (1)	0.2593	xxxx	
SSB .... (3)	0.5057		xxxx
SSK .... (2)	0.5134	xxxx	xxxx

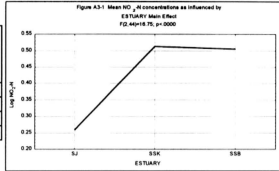


Table A3-3  
 Newman-Keuls test; NO<sub>2</sub>-N (wq1002.sta)  
 Homogeneous Groups, alpha=.05  
 MAIN EFFECT: TIDE

	Mean	1	2
.... Ebb (2)	0.365	xxxx	
.... Flood (1)	0.4872		xxxx

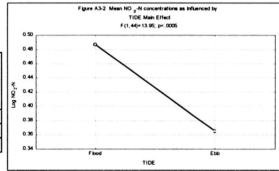
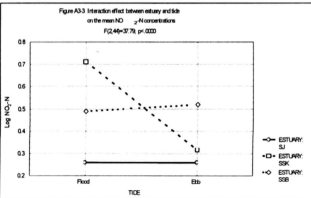


Table A3-4  
 Newman-Keuls test; NO<sub>2</sub>-N (wq1002.sta)  
 Homogeneous Groups, alpha=.05  
 INTERACTION: 1 x 2

	Mean	1	2	3
SJ Ebb (2)	0.2589	xxxx		
SJ Flood (1)	0.2597	xxxx		
SSK Ebb (4)	0.3158	xxxx		
SSB Flood (5)	0.491		xxxx	
SSB Ebb (6)	0.5203		xxxx	
SSK Flood (3)	0.7109			xxxx



**Comparison of Background Nutrient and Chlorophyll a Concentrations among Estuaries**  
 SSB, SSK, SJ - 'O' stations only  
 $PO_4^{3-}$

Table A4-1: Summary of all Effects; design: (wq1002.sta)  
 1-ESTUARY, 2-TIDE

	df Effect	MS Effect	df Error	MS Error	F	p-level
1	2	0.01	44	0.0024	6.04788	0.004781 #
2	1	0.01	44	0.0024	4.83577	0.033177 #
12	2	0.04	44	0.0024	15.9923	6.03E-06 #

Note: # denotes  $p < 0.05$

Table A4-2  
 Newman-Keuls test;  $PO_4$  (wq1002.sta)  
 Homogeneous Groups,  $\alpha = .05$   
 MAIN EFFECT: ESTUAR

	Mean	1
SSK .... {2}	0.1756	xxxx
SJ .... {1}	0.1905	xxxx
SSB .... {3}	0.2282	xxxx

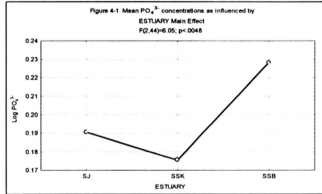


Table A4-3  
 Newman-Keuls test;  $PO_4$  (wq1002.sta)  
 Homogeneous Groups,  $\alpha = .05$   
 MAIN EFFECT: TIDE

	Mean	1	2
.... Ebb {2}	0.177	xxxx	
.... Flood {1}	0.2192		xxxx

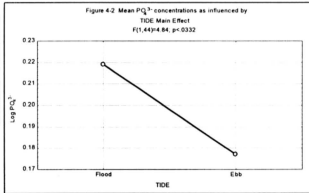
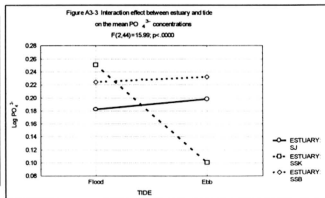


Table A4-4  
 Newman-Keuls test;  $PO_4$  (wq1002.sta)  
 Homogeneous Groups,  $\alpha = .05$   
 INTERACTION: 1 x 2

	Mean	1	2
SSK Ebb {4}	0.1005	xxxx	
SJ Flood {1}	0.1826		xxxx
SJ Ebb {2}	0.1984		xxxx
SSB Flood {5}	0.2242		xxxx
SSB Ebb {6}	0.2322		xxxx
SSK Flood {3}	0.2507		xxxx



**Comparison of Background Nutrient and Chlorophyll a Concentrations among Estuaries**  
 SSB, SSK, SJ - 'O' stations only  
 Chlorophyll a

Table A5-1: Summary of all Effects; design: (wq1002.sta)  
 1-ESTUARY, 2-TIDE

	df	MS	df	MS	F	p-level	
	Effect	Effect	Error	Error			#
1	2	0.21	44	0.018	11.5554	9.26E-05	#
2	1	0.021	44	0.018	1.15353	0.288666	
12	2	0.077	44	0.018	4.22204	0.02102	#

Note: # denotes p<0.05

Table A5-2  
 Newman-Keuls test; CHL\_A (wq1002.sta)  
 Homogeneous Groups, alpha=.05  
 MAIN EFFECT: ESTUAR

	Mean	1	2
SSK .... (2)	1.332	xxxx	
SSB .... (3)	1.365	xxxx	
SJ .... (1)	1.677		XXXX

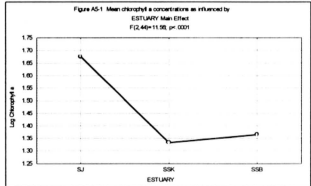


Table A5-3  
 Newman-Keuls test; CHL\_A (wq1002.sta)  
 Homogeneous Groups, alpha=.05  
 MAIN EFFECT: TIDE

	Mean	1	
.... Ebb (2)	1.43	xxxx	
.... Flood (1)	1.486	xxxx	

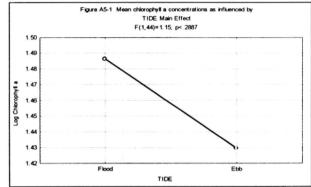
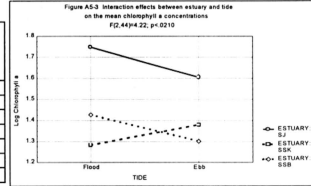


Table A5-4  
 Newman-Keuls test; CHL\_A (wq1002.sta)  
 Homogeneous Groups, alpha=.05  
 INTERACTION: 1 x 2

	Mean	1	2	3
SSK Flood (3)	1.284	xxxx		
SSB Ebb (6)	1.302	xxxx		
SSK Ebb (4)	1.381	xxxx		
SSB Flood (5)	1.427	xxxx	xxxx	
SJ Ebb (2)	1.606		xxxx	xxxx
SJ Flood (1)	1.748			xxxx



Comparison of Fish Cage Culture Estuaries In relation to Seasonal and Tidal Effects (ANOVA)  
SSB & SJ  
NH<sub>3</sub>-N

Table B1-1: Summary of all Effects; design: (wq1002.sta)  
1-SEASON, 2-ESTUARY, 3-TIDE, 4-STATION

	df Effect	MS Effect	df Error	MS Error	F	p-level
1	1	0.139	156	0.04	3.5862	0.060111
2	1	0.007	156	0.04	0.1835	0.668985
3	1	<b>1.493</b>	156	0.04	<b>38.42</b>	<b>4.88E-09</b> #
4	3	<b>0.977</b>	156	0.04	<b>25.125</b>	<b>2.57E-13</b> #
12	1	0.49	156	0.04	12.598	0.000511 #
13	1	1.39	156	0.04	35.749	1.47E-08 #
23	1	5E-04	156	0.04	0.0126	0.910664
14	3	0.004	156	0.04	0.1101	0.954087
24	3	0.037	156	0.04	0.9555	0.415385
34	3	0.033	156	0.04	0.8366	0.475695
123	1	0.153	156	0.04	3.9388	0.048937 #
124	3	0.009	156	0.04	0.2251	0.878855
134	3	0.014	156	0.04	0.3479	0.7907
234	3	0.055	156	0.04	1.4083	0.242477
1234	3	0.057	156	0.04	1.467	0.225702

# denotes p<0.05

Table B1-2  
Newman-Keuls test; NH<sub>3</sub>-N (wq1002.sta)  
Probabilities for Post Hoc Tests  
MAIN EFFECT: TIDE

	(1)	(2)
	.4328	.2036011
.... Flood .... (1)		9E-06
.... Ebb .... (2)	9E-06	

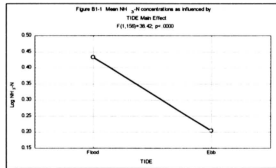


Table B1-3  
Newman-Keuls test; NH<sub>3</sub>-N (wq1002.sta)  
Probabilities for Post Hoc Tests  
MAIN EFFECT: STATION

	(1)	(2)	(3)	(4)
	.2849	.5286	.2189	.24037
.... N (1)		9E-06	0.298	0.32
.... I (2)	9E-06		8E-06	0
.... M (3)	0.298	8E-06		0.63
.... O (4)	0.316	2E-05	0.629	

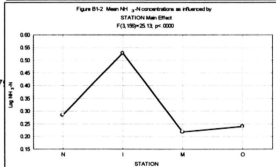
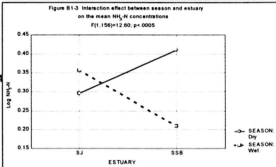


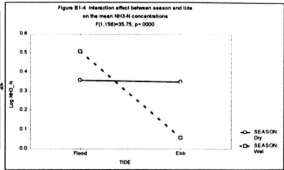
Table B1-4  
Newman-Keuls test; NH<sub>3</sub>-N (wq1002.sta)  
Probabilities for Post Hoc Tests  
INTERACTION: 1 x 2

	(1)	(2)	(3)	(4)
	.2955	.4109	.3567	.20964
Dry SJ .... (1)		0.031	0.18	0.06
Dry SSB .... (2)	0.031		0.235	0
Wet SJ .... (3)	0.18	0.235		0
Wet SSB .... (4)	0.06	7E-05	0.004	



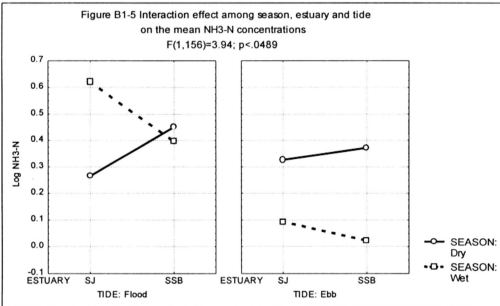
**Table B1-5**  
Newman-Keuls test; NH<sub>3</sub>-N (wq1002.sta)  
Probabilities for Post Hoc Tests  
INTERACTION: 1 x 3

	(1)	(2)	(3)	(4)
	.3572	.3491	.5083	.05804
Dry ... Flood ... (1)		0.844	2E-04	0
Dry ... Ebb ... (2)	0.844		3E-04	0
Wet ... Flood ... (3)	2E-04	3E-04		0
Wet ... Ebb ... (4)	2E-05	9E-06	8E-06	



**Table B1-6**  
Newman-Keuls test; NH<sub>3</sub>-N (wq1002.sta)  
Probabilities for Post Hoc Tests  
INTERACTION: 1 x 2 x 3

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	.2649	.3260	.4495	.3722	.620657	.0928141	.3960229	.0232686
Dry SJ Flood ... (1)		0.345	0.035	0.22	2E-05	0.007802	0.178266	0.000561
Dry SJ Ebb ... (2)	0.345		0.224	0.48	7E-05	0.000919	0.525637	2.38E-05
Dry SSB Flood ... (3)	0.035	0.224		0.46	0.0082	2.05E-05	0.407567	2.57E-05
Dry SSB Ebb ... (4)	0.221	0.475	0.456		0.0007	9.76E-05	0.713247	1.77E-05
Wet SJ Flood ... (5)	2E-05	7E-05	0.008	0		2.57E-05	0.001505	3.21E-05
Wet SJ Ebb ... (6)	0.008	9E-04	2E-05	0	3E-05		4.29E-05	0.282324
Wet SSB Flood ... (7)	0.178	0.526	0.408	0.71	0.0015	4.29E-05		2.02E-05
Wet SB Ebb ... (8)	6E-04	2E-05	3E-05	0	3E-05	0.282324	2.02E-05	



Comparison of Fish Cage Culture Estuaries in relation to Seasonal and Tidal Effects

SSB & SJ

NO<sub>3</sub>-N

Table B2-1: Summary of all Effects, design: (wq1002 sta)  
1-SEASON, 2-ESTUARY, 3-TIDE, 4-STATION

	df	MS	df	MS	F	p-level
Effect			Error	Error		
1	1	0.011	156	0.013	0.881	0.3493
2	1	<b>3.241</b>	<b>166</b>	<b>0.01</b>	<b>265</b>	<b>0</b>
3	1	<b>1.678</b>	<b>166</b>	<b>0.01</b>	<b>132</b>	<b>2E-22</b>
4	3	0.009	156	0.013	0.721	0.5408
12	1	<b>0.123</b>	<b>166</b>	<b>0.01</b>	<b>9.678</b>	<b>0.0022</b>
13	1	<b>1.031</b>	<b>166</b>	<b>0.01</b>	<b>81.11</b>	<b>7E-16</b>
23	1	4E-04	156	0.013	0.028	0.8673
14	3	0.018	156	0.013	1.424	0.238
24	3	0.005	156	0.013	0.379	0.7681
34	3	0.012	156	0.013	0.959	0.4137
123	1	0.005	156	0.013	0.422	0.5168
124	3	0.015	156	0.013	1.145	0.3329
134	3	0.003	156	0.013	0.243	0.8665
234	3	<b>0.034</b>	<b>166</b>	<b>0.01</b>	<b>2.704</b>	<b>0.0474</b>
1234	3	0.01	156	0.013	0.767	0.5139

# denotes p<0.05

Table B2-2  
Newman-Keuls test; NO<sub>3</sub>-N (wq1002 sta)  
Probabilities for Post Hoc Tests  
MAIN EFFECT: ESTUARY

	(1)	(2)
	.64870	.9863659
...SJ .... (1)		<b>9E-06</b>
...SSB .... (2)	<b>9E-06</b>	

Table B2-3  
Newman-Keuls test; NO<sub>3</sub>-N (wq1002 sta)  
Probabilities for Post Hoc Tests  
MAIN EFFECT: TIDE

	(1)	(2)
	.93902	.6960483
.... Flood .... (1)		<b>9E-06</b>
.... Ebb .... (2)	<b>9E-06</b>	

Table B2-4  
Newman-Keuls test; NO<sub>3</sub>-N (wq1002 sta)  
Probabilities for Post Hoc Tests  
INTERACTION: 1 x 2

	(1)	(2)	(3)	(4)
	.69152	.96340	.605	1.0093
Dry SJ .... (1)		<b>9E-06</b>	<b>0 2E-05</b>	
Dry SSB .... (2)	<b>9E-06</b>		<b>0 0.079</b>	
Wet SJ .... (3)	<b>0.001</b>	<b>2E-05</b>		<b>8E-06</b>
Wet SSB .... (4)	<b>2E-05</b>	<b>0.079</b>	<b>0</b>	

Figure B2-1 Mean NO<sub>3</sub>-N concentrations as influenced by ESTUARY Main Effect  
F(1,166)=265.00, p=0.000

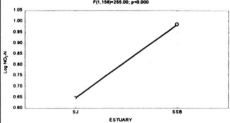


Figure B2-2 Mean NO<sub>3</sub>-N concentrations as influenced by TIDE Main Effect  
F(1,166)=122.00, p=0.000

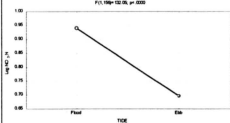


Figure B2-3 Interaction effect between season and estuary on the mean NO<sub>3</sub>-N concentrations  
F(1,130)=68.00, p=0.002

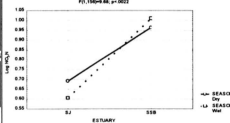




Table B2-5  
Newman-Keuls test; NO<sub>3</sub>-N (wq1002.sta)  
Probabilities for Post Hoc Tests  
INTERACTION: 1 x 3

	(1)	(2)	(3)	(4)
	85373	80118	1.02	5909099
Dry .... Flood .... (1)		0.025	0	2E-05
Dry .... Ebb .... (2)	0.025		0	9E-06
Wet .... Flood .... (3)	9E-06	2E-05		8E-06
Wet .... Ebb .... (4)	2E-05	9E-06	0	

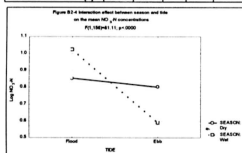
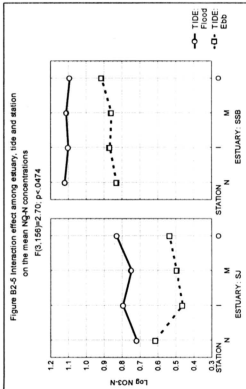


Table B2-6  
Newman-Keuls test; NO<sub>3</sub>-N (wq1002.sta)  
Probabilities for Post Hoc Tests  
INTERACTION: 2 x 3 x 4

	{1}	{2}	{3}	{4}	{5}	{6}	{7}	{8}	{9}	{10}	{11}	{12}	{13}	{14}	{15}	{16}
.....SJ Flood N {1}	.71737	.79416	.746	.8296	.61131	.461551	.49515	.53377	1.12	1.1005	1.1120	1.0916	.83008	.86629	.85663	.91358
.....SJ Flood I {2}		0.394	0.62	0.226	0.072	0.0002	0.001	0.005	0	1E-05	1E-05	1E-05	0.311	0.15	0.17	0.02
.....SJ Flood M {3}		0.394		0.42	0.548	0.01	3E-05	3E-05	1E-04	0	4E-05	1E-05	3E-05	0.815	0.738	0.714
.....SJ Flood O {4}		0.394		0.338	0.056	4E-05	0.0002	0.002	0	1E-05	1E-05	3E-05	0.491	0.326	0.337	0.07
.....SJ Flood N {5}		0.226	0.548	0.34		0.002	3E-05	3E-05	0	1E-04	7E-05	1E-04	0.994	0.925	0.891	0.612
.....SJ Ebb I {6}		0.072	0.01	0.06	0.002		0.054	0.1197	0.189	0	1E-05	2E-05	1E-05	0.003	4E-04	2E-05
.....SJ Ebb M {7}		0.072	0.01	0.06	0.002		0.054	0.1197	0.189	0	1E-05	2E-05	1E-05	0.003	4E-04	2E-05
.....SJ Ebb O {8}		0.005	1E-04	0.3E-05	0.12	0.5688	0.438	0	0.512	0	2E-05	2E-05	2E-05	3E-05	1E-05	1E-05
.....SSB Flood N {9}		0.005	1E-04	0.3E-05	0.12	0.5688	0.438	0	0.512	0	2E-05	2E-05	2E-05	3E-05	1E-05	1E-05
.....SSB Flood I {10}		0.005	1E-04	0.3E-05	0.12	0.5688	0.438	0	0.512	0	2E-05	2E-05	2E-05	3E-05	1E-05	1E-05
.....SSB Flood M {11}		0.005	1E-04	0.3E-05	0.12	0.5688	0.438	0	0.512	0	2E-05	2E-05	2E-05	3E-05	1E-05	1E-05
.....SSB Flood O {12}		0.005	1E-04	0.3E-05	0.12	0.5688	0.438	0	0.512	0	2E-05	2E-05	2E-05	3E-05	1E-05	1E-05
.....SSB Ebb N {13}		0.311	0.815	0.49	0.994	0.003	1E-05	3E-05	0	8E-05	6E-05	1E-04	0.812	0.653	0.489	
.....SSB Ebb M {14}		0.15	0.738	0.33	0.925	4E-04	1E-05	1E-05	0	4E-04	3E-04	4E-04	0.812	0.653	0.87	0.599
.....SSB Ebb O {15}		0.17	0.714	0.34	0.891	6E-04	1E-05	1E-05	0	4E-04	2E-04	4E-04	0.653	0.87	0.599	
.....SSB Ebb O {16}		0.02	0.328	0.07	0.612	2E-05	2E-05	1E-05	0	0.004	0.004	0.003	0.489	0.423	0.599	



**Comparison of Fish Cage Culture Estuaries in relation to Seasonal and Tidal Effects**  
**SSB & SJ**  
**NO<sub>2</sub>-N**

Table B3-1: Summary of all Effects; design: (wq1002.sta)  
 1-SEASON, 2-ESTUARY, 3-TIDE, 4-STATION

	df	MS	df	MS	F	p-level	
	Effect	Effect	Error	Error			#
<b>1</b>	<b>1</b>	<b>0.07</b>	<b>156</b>	<b>0.012</b>	<b>6.181</b>	<b>0.014</b>	#
<b>2</b>	<b>1</b>	<b>2.65</b>	<b>156</b>	<b>0.012</b>	<b>230.8</b>	<b>0</b>	#
<b>3</b>	<b>1</b>	<b>1.4</b>	<b>156</b>	<b>0.012</b>	<b>121.7</b>	<b>3E-21</b>	#
4	3	0	156	0.012	0.175	0.913	
12	1	0.01	156	0.012	0.469	0.494	
<b>13</b>	<b>1</b>	<b>1.35</b>	<b>156</b>	<b>0.012</b>	<b>117.2</b>	<b>1E-20</b>	#
23	1	0.02	156	0.012	1.605	0.207	
14	3	0.01	156	0.012	1.229	0.301	
24	3	0	156	0.012	0.39	0.761	
34	3	0	156	0.012	0.301	0.825	
<b>123</b>	<b>1</b>	<b>0.08</b>	<b>156</b>	<b>0.012</b>	<b>7.381</b>	<b>0.007</b>	#
124	3	0	156	0.012	0.207	0.891	
134	3	0.01	156	0.012	0.541	0.655	
234	3	0.01	156	0.012	0.602	0.614	
1234	3	0.01	156	0.012	0.991	0.399	

# denotes p<0.05

Table B3-2  
 Newman-Keuls test; NO<sub>2</sub>-N (wq1002.sta)  
 Probabilities for Post Hoc Tests  
 MAIN EFFECT: SEASON

	(1)	(2)	
	.4041	.4541346	
Dry.... .. (1)		0	
Wet... .. (2)	0.002		

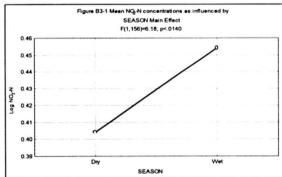


Table B3-3  
 Newman-Keuls test; NO<sub>2</sub>-N (wq1002.sta)  
 Probabilities for Post Hoc Tests  
 MAIN EFFECT: ESTUARY

	(1)	(2)	
	.2763	.5819114	
...SJ .... (1)		0	
...SSB .... (2)	9E-06		

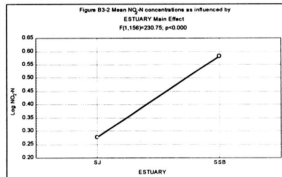


Table B3-4  
 Newman-Keuls test; NO<sub>2</sub>-N (wq1002.sta)  
 Probabilities for Post Hoc Tests  
 MAIN EFFECT: TIDE

	(1)	(2)	
	.5401	.3181548	
....Flood .... (1)		0	
....Ebb .... (2)	9E-06		

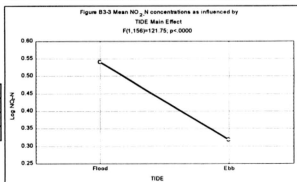


Table B3-5  
Newman-Keuls test; NO<sub>2</sub>-N (wq1002.sta)  
Probabilities for Post Hoc Tests  
INTERACTION: 1 x 3

	(1)	(2)	(3)	(4)
	.4062	.4020	.6739	.2342903
Dry .... Flood.... (1)		0.85	0	2E-05
Dry .... Ebb .... (2)	0.851		0	9E-06
Wet .... Flood.... (3)	9E-06	0		8E-06
Wet .... Ebb .... (4)	2E-05	0	0	

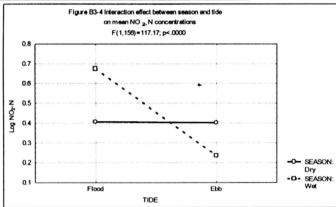
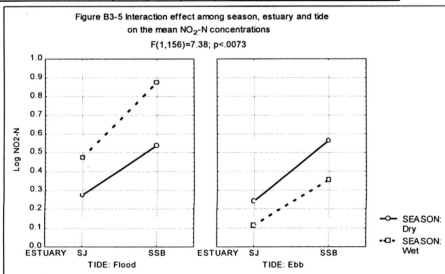


Table B3-6  
Newman-Keuls test; NO<sub>2</sub>-N (wq1002.sta)  
Probabilities for Post Hoc Tests  
INTERACTION: 1 x 2 x 3

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	.2749	.2415	.5375	.56249	.4742	.11468	.8737	.3538944
Dry SJ Flood ....(1)		0.34	0	2E-05	2E-05	4E-05	2E-05	0.025
Dry SJ Ebb ....(2)	0.343		0	2E-05	8E-06	3E-04	3E-05	0.004
Dry SSB Flood ....(3)	8E-06	0	0.478	0.072	2E-05	2E-05	2E-05	2E-05
Dry SSB Ebb ....(4)	2E-05	0	0.48	0.033	3E-05	9E-06	8E-06	8E-06
Wet SJ Flood ....(5)	2E-05	0	0.07	0.033		2E-05	8E-06	6E-04
Wet SJ Ebb ....(6)	4E-05	0	0	3E-05	2E-05		3E-05	8E-06
Wet SSB Flood ....(7)	2E-05	0	0	9E-06	8E-06	3E-05		2E-05
Wet SSB Ebb ....(8)	0.025	0	0	8E-06	6E-04	8E-06	2E-05	



**Comparison of Fish Cage Culture Estuaries in relation to Seasonal and Tidal Effects**  
**SSB & SJ**  
**PO<sub>4</sub><sup>3-</sup>**

**Table B4-1: Summary of all Effects: design: (wq1002 sta)**  
**1-SEASON, 2-ESTUARY, 3-TIDE, 4-STATION**

	df	MS	df	MS	F	p-level
	Effect	Effect	Error	Error		
1	1	0.01	156	0	3.258	0.07
2	1	0	156	0	5E-05	0.99
3	1	0.09	156	0	20.12	0 #
4	3	0.03	156	0	5.918	0 #
12	1	0	156	0	0.833	0.36
13	1	0.09	156	0	21.09	0 #
23	1	0.01	156	0	1.188	0.28
14	3	0	156	0	0.816	0.49
24	3	0.01	156	0	3.499	0.02 #
34	3	0	156	0	0.531	0.66
123	1	0	156	0	0.011	0.92
124	3	0.01	156	0	2.168	0.09
134	3	0	156	0	0.709	0.55
234	3	0	156	0	0.343	0.79
1234	3	0	156	0	0.064	0.98

# denotes p<0.05

**Table B4-2**  
**Probabilities for Post Hoc Tests**  
**MAIN EFFECT: TIDE**

	(1)	(2)	
	2183	1635486	
.... Flood... (1)		0	
.... Ebb... (2)	0		

**Table B4-3**  
**Newman-Keuls test; PO4 (wq1002 sta)**  
**Probabilities for Post Hoc Tests**  
**MAIN EFFECT: STATION**

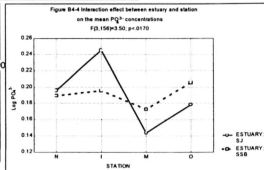
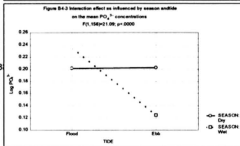
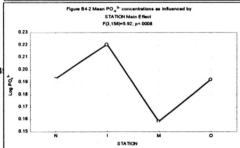
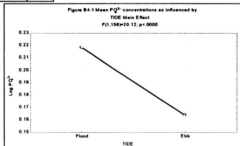
	(1)	(2)	(3)	(4)
	1927	2205	158	19214
.... N (1)		0.06	0.05	0.97
.... I (2)	0.06		0	0.13
.... M (3)	0.05	0		0.02
.... O (4)	0.97	0.13	0.02	

**Table B4-4**  
**Newman-Keuls test; PO4 (wq1002 sta)**  
**Probabilities for Post Hoc Tests**  
**INTERACTION: 1 x 3**

	(1)	(2)	(3)	(4)
	2012	2026	235	12448
Dry... Flood... (1)		0.92	0.03	0
Dry... Ebb... (2)	0.92		0.02	0
Wet... Flood... (3)	0.03	0.02		0
Wet... Ebb... (4)	0	0	0	

**Table B4-5**  
**Newman-Keuls test; PO4 (wq1002 sta)**  
**Probabilities for Post Hoc Tests**  
**INTERACTION: 2 x 4**

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	1960	2453	143	1783	1895	1958	1726	20590
.... SJ... N (1)		0.1	0.25	0.88	0.96	0.99	0.867	0.68
.... SJ... I (2)	0.1		0	0.06	0.138	0.17	0.04	0.1
.... SJ... M (3)	0.25	0		0.32	0.228	0.19	0.231	0.13
.... SJ... O (4)	0.88	0.06	0.32		0.644	0.75	0.81	0.78
.... SSB... N (5)	0.96	0.14	0.23	0.64		0.79	0.762	0.9
.... SSB... I (6)	0.99	0.17	0.19	0.75	0.793		0.769	0.91
.... SSB... M (7)	0.87	0.04	0.23	0.81	0.762	0.77		0.74
.... SSB... O (8)	0.68	0.1	0.13	0.78	0.904	0.91	0.737	



Comparison of Fish Cage Culture Estuaries in relation to Seasonal and Tidal Effects

SSB & SJ

Chlorophyll a

Table B5-1: Summary of all Effects; design: (wq1002.sta)  
1-SEASON, 2-ESTUARY, 3-TIDE, 4-STATION

	df	MS	df	MS	F	p-level
Effect	Effect	Error	Error			
1	1	1.04	156	0.02	58	2E-12 #
2	1	0.22	156	0.02	12.5	5E-04 #
3	1	0.12	156	0.02	6.47	0.012 #
4	3	0.013	156	0.02	0.7	0.554
12	1	1.51	156	0.02	84.5	2E-16 #
13	1	0.09	156	0.02	5.23	0.024 #
23	1	0.43	156	0.02	24.2	2E-06 #
14	3	0.009	156	0.02	0.493	0.688
24	3	0.038	156	0.02	2.112	0.101
34	3	0.026	156	0.02	1.455	0.229
123	1	0.34	156	0.02	19.1	2E-05 #
124	3	0.009	156	0.02	0.479	0.697
134	3	0.028	156	0.02	1.59	0.194
234	3	0.01	156	0.02	0.566	0.639
1234	3	0.011	156	0.02	0.611	0.609

# denotes p<0.05

Table B5-2  
Newman-Keuls test; CHL\_A (wq1002.sta)  
Probabilities for Post Hoc Tests  
MAIN EFFECT: SEASON

	(1)	(2)
	1.510	1.319473
Dry..... (1)		9E-06
Wet..... (2)	9E-06	

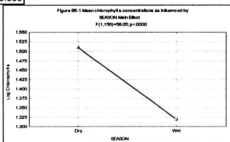


Table B5-3  
Newman-Keuls test; CHL\_A (wq1002.sta)  
Probabilities for Post Hoc Tests  
MAIN EFFECT: ESTUARY

	(1)	(2)
	1.459	1.370785
...SJ..... (1)		6E-05
...SSB... (2)	6E-05	

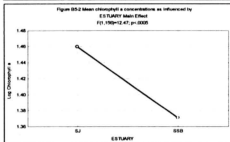


Table B5-4  
Newman-Keuls test; CHL\_A (wq1002.sta)  
Probabilities for Post Hoc Tests  
MAIN EFFECT: TIDE

	(1)	(2)
	1.383	1.447050
... Flood... (1)		0.001
... Ebb... (2)	0.001	

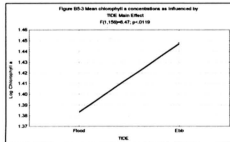
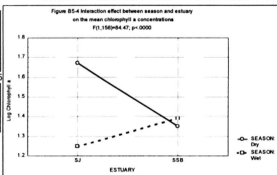


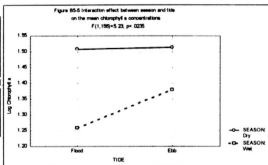
Table B5-5  
Newman-Keuls test; CHL\_A (wq1002.sta)  
Probabilities for Post Hoc Tests  
INTERACTION: 1 x 2

	(1)	(2)	(3)	(4)
	1.670	1.351	1.248	1.3905
Dry SJ..... (1)		2E-05	0	0
Dry SSB... (2)	2E-05		0	0.2
Wet SJ..... (3)	8E-06	9E-04		0
Wet SSB... (4)	9E-06	0.203	0	



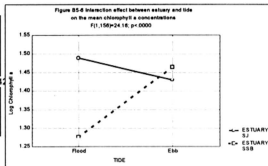
**Table B5-6**  
Newman-Keuls test, CHL\_A (wq1002.sta)  
Probabilities for Post Hoc Tests  
INTERACTION: 1 x 3

	(1)	(2)	(3)	(4)
Dry... Flood... (1)	1.507	1.513	1.258	1.380
Dry... Ebb... (2)		0.817	0	0
Wet... Flood... (3)		<b>2E-05</b>	<b>8E-06</b>	0
Wet... Ebb... (4)		<b>1E-05</b>	<b>3E-05</b>	0



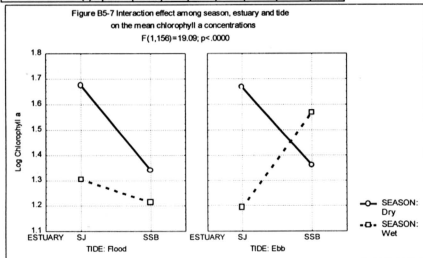
**Table B5-7**  
Newman-Keuls test, CHL\_A (wq1002.sta)  
Probabilities for Post Hoc Tests  
INTERACTION: 2 x 3

	(1)	(2)	(3)	(4)
... SJ Flood ... (1)	1.489	1.429	1.277	1.4644
... SJ Ebb ... (2)		0.131	0	0.26
... SSB Flood ... (3)		<b>8E-06</b>	<b>1E-05</b>	0
... SSB Ebb ... (4)		0.422	0.26	0



**Table B5-8**  
Newman-Keuls test, CHL\_A (wq1002.sta)  
Probabilities for Post Hoc Tests  
INTERACTION: 1 x 2 x 3

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Dry SJ Flood ... (1)	1.674	1.666	1.340	1.361	1.304	1.1925	1.2133	1.567701
Dry SJ Ebb ... (2)		0.869	0	0	<b>2E-05</b>	<b>3E-05</b>	<b>3E-05</b>	<b>0.0409</b>
Dry SSB Flood ... (3)		<b>2E-05</b>	<b>8E-06</b>	0.65	0.404	<b>0.004</b>	<b>0.0102</b>	<b>2E-05</b>
Dry SSB Ebb ... (4)		<b>8E-06</b>	<b>2E-05</b>	0.65	0.399	<b>0.001</b>	<b>0.0043</b>	<b>1E-05</b>
Wet SJ Flood ... (5)		<b>2E-05</b>	<b>2E-05</b>	0.4	0.4	<b>0.029</b>	<b>0.0383</b>	<b>8E-06</b>
Wet SJ Ebb ... (6)		<b>3E-05</b>	<b>3E-05</b>	0	0	<b>0.029</b>	0.636	<b>2E-05</b>
Wet SSB Flood ... (7)		<b>3E-05</b>	<b>2E-05</b>	<b>0.01</b>	0	<b>0.038</b>	0.636	<b>2E-05</b>
Wet SSB Ebb ... (8)		<b>0.041</b>	<b>0.024</b>	0	0	<b>8E-06</b>	<b>2E-05</b>	<b>2E-05</b>



**12-hour Study - Effects of Fish Cage Culture in relation to Tidal Effects (ANOVA)**

STATION\*TIDE, MTH =4

NH<sub>3</sub>-N

Table C1-1: Summary of all Effects; design: (wq\_data.sta)

1-STN, 2-TIDE

	df Effect	MS Effect	df Error	MS Error	F	p-level
1	2	0.616472	12	0.022442	27.46948	3.32E-05 #
2	1	0.129278	12	0.022442	5.760536	0.033512 #
12	2	0.046027	12	0.022442	2.050903	0.171333

Note: # denotes p&lt;0.05

Table C1-2

Newman-Keuls test; NH3\_N (wq\_data.sta)

Homogeneous Groups, alpha=.05

MAIN EFFECT: STN

	Mean	1	2	3
CTRL .... {1}	0.016578	XXXX		
OUT .... {3}	0.339351		XXXX	
IN .... {2}	0.696259			XXXX

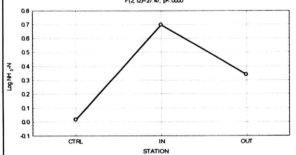
Figure C1-1 Mean NH<sub>3</sub>-N concentrations as influenced by STATION Main Effect  
F(2,12)=27.47, p<.0000

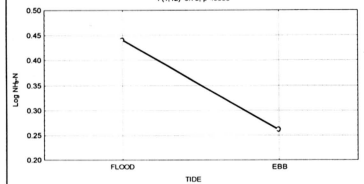
Table C1-3

Newman-Keuls test; NH3\_N (wq\_data.sta)

Homogeneous Groups, alpha=.05

MAIN EFFECT: TIDE

	Mean	1	2
.... Ebb {2}	0.260841	XXXX	
.... Flood {1}	0.440618		XXXX

Figure C1-2 Mean NH<sub>3</sub>-N concentrations as influenced by TIDE Main Effect  
F(1,12)=5.76, p<.0335



**12-hour Study - Effects of Fish Cage Culture in relation to Tidal Effects**

STATION\*TIDE, MTH =4

NO<sub>3</sub>-N

Table C2-1: Summary of all Effects; design: (wq\_data.sta)  
1-STN, 2-TIDE

	df Effect	MS Effect	df Error	MS Error	F	p-level
1	2	0.038428	12	0.025645	1.498436	0.262472
2	1	0.100103	12	0.025645	3.903383	0.071641
12	2	0.028251	12	0.025645	1.101606	0.363721

STATION\*TIDE, MTH =4

NO<sub>2</sub>-N

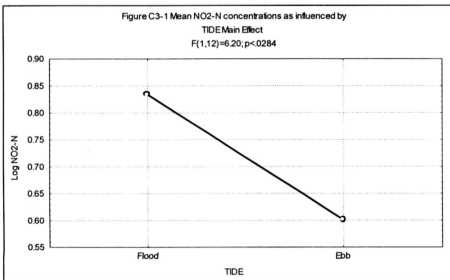
Table C3-1: Summary of all Effects; design: (wq\_data.sta)  
1-STN, 2-TIDE

	df Effect	MS Effect	df Error	MS Error	F	p-level
1	2	0.073236	12	0.034834	2.102425	0.164899
2	1	<b>0.21593</b>	12	<b>0.034834</b>	<b>6.198792</b>	<b>0.028446</b> #
12	2	0.018506	12	0.034834	0.531269	0.601066

Note: # denotes p<0.05

Table C3-2  
Newman-Keuls test; NO<sub>2</sub>-N (wq\_data.sta)  
Homogeneous Groups, alpha=.05  
MAIN EFFECT: TI

	Mean	1	2
.... EBB {2}	0.601628	xxxx	
.... FLOOD {1}	0.833969		xxxx



**12-hour Study - Effects of Fish Cage Culture in relation to Tidal Effects**

STATION\*TIDE, MTH =4

PO<sub>4</sub><sup>3-</sup>

Table C4-1: Summary of all Effects; design: (wq\_data.sta)

1-STN, 2-TIDE

	df Effect	MS Effect	df Error	MS Error	F	p-level
1	2	0.013883	12	0.005574	2.490699	0.12452223
2	1	0.010744	12	0.005574	1.927607	0.19025451
12	2	0.000661	12	0.005574	0.118549	0.8892352

STATION\*TIDE, MTH =4

Chlorophyll a

Table C5-1: Summary of all Effects; design: (wq\_data.sta)

1-STN, 2-TIDE

	df Effect	MS Effect	df Error	MS Error	F	p-level
1	2	0.031026	12	0.071371	0.434718	0.65724999
2	1	0.087413	12	0.071371	1.224763	0.29011998
12	2	0.055944	12	0.071371	0.783843	0.47868827

**12-hour Study - Effects of Fish Cage Culture in relation to Diel Effects (ANOVA)**

STATION\*DIEL, MTH =4

NH<sub>3</sub>-N

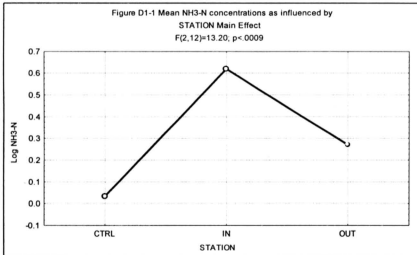
Table D1-1: Summary of all Effects; design: (wq\_data.sta)  
1-STN, 2-DIEL

	df Effect	MS Effect	df Error	MS Error	F	p-level
1	2	0.463305	12	0.035107	13.1968	0.000932 #
2	1	0.026088	12	0.035107	0.74308	0.405573
12	2	0.02163	12	0.035107	0.61611	0.556278

Note: # denotes p<0.05

Table D1-2  
Newman-Keuls test; NH3\_N (wq\_data.sta)  
Homogeneous Groups, alpha=.05  
MAIN EFFECT: STN

	Mean	1	2	3
CTRL .... {1}	0.0332	xxxx		
OUT .... {3}	0.2697		xxxx	
IN .... {2}	0.619			xxxx



STATION\*DIEL, MTH =4

NO<sub>3</sub>-N

Table D2-1: Summary of all Effects; design: (wq\_data.sta)  
1-STN, 2-DIEL

	df Effect	MS Effect	df Error	MS Error	F	p-level
1	2	0.045751	12	0.035735	1.28028	0.313342
2	1	0.004189	12	0.035735	0.11723	0.737985
12	2	0.01567	12	0.035735	0.4385	0.654938

**12-hour Study - Effects of Fish Cage Culture in relation to Diel Effects**

STATION\*DIEL, MTH =4

NO<sub>2</sub>-N

Table D3-1: Summary of all Effects; design: (wq\_data.sta)  
1-STN, 2-DIEL

	df Effect	MS Effect	df Error	MS Error	F	p-level
1	2	0.061402	12	0.049837	1.232051	0.326090753
2	1	0.003567	12	0.049837	0.071581	0.793591797
12	2	0.034669	12	0.049837	0.695646	0.517788887

STATION\*DIEL, MTH =4

PO<sub>4</sub><sup>3-</sup>

Table D4-1: Summary of all Effects; design: (wq\_data.sta)  
1-STN, 2-DIEL

	df Effect	MS Effect	df Error	MS Error	F	p-level
1	2	0.010411	12	0.004724	2.203914	0.153031483
2	1	0.003423	12	0.004724	0.724682	0.411278486
12	2	0.009422	12	0.004724	1.994503	0.178714022

STATION\*DIEL, MTH =4

Chlorophyll a

Table D5-1: Summary of all Effects; design: (wq\_data.sta)  
1-STN, 2-DIEL

	df Effect	MS Effect	df Error	MS Error	F	p-level
1	2	0.026272	12	0.070523	0.372532	0.696683228
2	1	0.169449	12	0.070523	2.402739	0.147083312
12	2	0.020012	12	0.070523	0.283766	0.757857442

**NUTRIENT LEACHING STUDY (ANOVA)**

SJ

NH<sub>3</sub>-N

Table E1-1: Summary of all Effects; design: (feedanov.sta)  
1-FEED TYPE, 2-TIME

	df	MS	df	MS	F	p-level
	Effect	Effect	Error	Error		
1	2	0.244	120	0.0374	6.5278	0.00204 #
2	4	0.014	120	0.0374	0.36771	0.83124
12	8	0.058	120	0.0374	1.5513	0.14677

Note: # denotes p&lt;0.05

Table E1-2

Newman-Keuls test; NH<sub>3</sub>-N (feedanov.sta)

Homogeneous Groups, alpha=.05

MAIN EFFECT: FEED TYPE

	Mean	1	2
CTRL ....{3}	0.577	xxxx	
PELLET ....{1}	0.697		xxxx
TRASH FISH ..{2}	0.711		xxxx

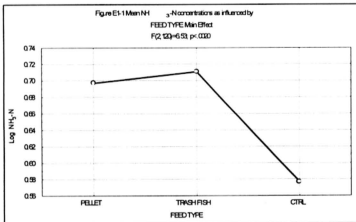
NO<sub>3</sub>-N

Table E2-1: Summary of all Effects; design: (feedanov.sta)  
1-FEED TYPE, 2-TIME

	df	MS	df	MS	F	p-level
	Effect	Effect	Error	Error		
1	2	0.017	120	0.0149	1.1543	0.31875
2	4	0.034	120	0.0149	2.30752	0.06196
12	8	0.005	120	0.0149	0.31477	0.95917

NO<sub>2</sub>-N

Table E3-1: Summary of all Effects; design: (feedanov.sta)  
1-FEED TYPE, 2-TIME

	df	MS	df	MS	F	p-level
	Effect	Effect	Error	Error		
1	2	0.008	120	0.0027	2.87774	0.06015
2	4	0.005	120	0.0027	1.89944	0.11494
12	8	0.001	120	0.0027	0.51573	0.8427

**NUTRIENT LEACHING STUDY**

SJ  
PO<sub>4</sub><sup>3-</sup>

Table E4-1: Summary of all Effects; design: (feedanov.sta)  
1-FEED TYPE, 2-TIME

	df Effect	MS Effect	df Error	MS Error	F	p-level
1	2	0.21006	120	0.10773	1.9499	0.1468
2	4	0.19725	120	0.10773	1.831	0.1273
12	8	0.0987	120	0.10773	0.9162	0.5056

Chlorophyll a

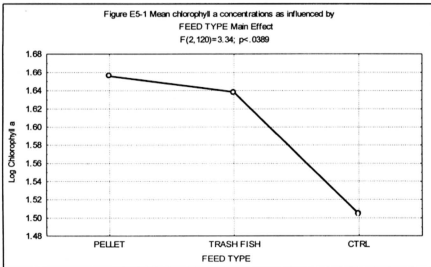
Table E5-1: Summary of all Effects; design: (feedanov.sta)  
1-FEED TYPE, 2-TIME

	df Effect	MS Effect	df Error	MS Error	F	p-level
<b>1</b>	<b>2</b>	<b>0.3109</b>	<b>120</b>	<b>0.0932</b>	<b>3.3376</b>	<b>0.0389</b> #
2	4	0.04932	120	0.09316	0.5294	0.7143
12	8	0.03321	120	0.09316	0.3565	0.9412

# denotes p<0.05

Table E5-2  
Newman-Keuls test; CHL\_A (feedanov.sta)  
Homogeneous Groups, alpha=.05  
MAIN EFFECT: FEED TYPE

	Mean	1	2
CTRL .... {3}	1.5039	xxxx	
TRASH FISH... {2}	1.6383		xxxx
PELLET .... {1}	1.6559	xxxx	xxxx



## MEAN WATER QUALITY RESULTS - SSB, SSK and SJ

Mth	stuar	Stn	Grid	Lat	Long	NH <sub>3</sub> -N	NO <sub>3</sub> -N	NO <sub>2</sub> -N	PO <sub>4</sub> <sup>3-</sup>	Chl-a	pH	Salinity (0/00)	Diel	Tide	Position
						(umol/l)	(umol/l)	(umol/l)	(umol/l)	(ug/l)					
8	SJ	A*1	8U1-0	4.76573	100.62642	2.86	5.71	1.07	0.95	25.30	7.35	18.50	D	F	N
8	SJ	A*2	8U2-0	4.76655	100.62668	0.71	4.64	0.79	0.95	55.03	7.48	19.00	D	F	M
8	SJ	A*3	8U3-0	4.76753	100.62812	1.43	4.29	0.93	0.63	57.32	7.33	19.00	D	F	O
8	SJ	A1	8V1-0	4.76608	100.62475	7.50	4.29	1.04	1.16	32.08	7.49	19.00	D	F	N
8	SJ	A2	8V2-0	4.76687	100.62440	1.43	3.57	0.93	0.74	58.35	7.41	19.00	D	F	M
8	SJ	A3	8V3-0	4.76780	100.62383	1.43	4.29	0.82	0.63	65.20	7.34	19.00	D	F	O
8	SJ	B1	8W1-0	4.76572	100.62195	0.71	3.57	0.79	0.63	23.08	7.40	19.00	D	F	N
8	SJ	B2-1	8W2-1	4.76575	100.62198	2.50	4.64	1.00	0.74	41.47	7.40	19.00	D	F	I
8	SJ	B2-2	8W2-2	4.76572	100.62197	2.14	6.07	1.29	0.84	66.55	7.44	19.00	D	F	I
8	SJ	B2-3	8W2-3	4.76557	100.62132	2.86	6.07	1.36	0.84	58.17	7.50	20.00	D	F	I
8	SJ	B2-4	8W2-4	4.76557	100.62132	2.86	4.29	1.00	0.63	61.08	7.41	19.00	D	F	I
8	SJ	B3	8W3-0	4.76680	100.62221	0.00	3.93	0.86	0.42	28.63	7.60	19.00	D	F	M
8	SJ	B4	8W4-0	4.76775	100.62093	0.71	4.29	0.93	0.42	54.55	7.53	19.00	D	F	O
8	SJ	C1	8X1-0	4.76450	100.62015	0.00	4.29	0.68	0.63	52.22	7.60	19.00	D	F	N
8	SJ	C2-1	8X2-1	4.76507	100.62018	1.43	3.21	1.00	0.53	50.29	7.59	20.00	D	F	I
8	SJ	C2-2	8X2-2	4.76507	100.62022	3.93	3.57	0.86	0.79	61.02	7.46	20.00	D	F	I
8	SJ	C2-3	8X2-3	4.76510	100.62052	6.07	3.57	0.82	0.53	55.63	7.45	20.00	D	F	I
8	SJ	C3	8X3-0	4.76641	100.62010	0.71	5.71	1.07	0.63	63.50	7.61	20.00	D	F	M
8	SJ	C4	8X4-0	4.76753	100.61987	0.71	4.29	0.71	0.63	55.34	7.76	19.00	D	F	O
8	SJ	D1	8Y1-0	4.76413	100.61825	1.43	3.57	0.71	0.53	47.31	7.63	19.00	D	F	N
8	SJ	D2	8Y2-0	4.76657	100.61797	1.43	3.57	0.57	0.74	47.10	7.70	20.00	D	F	M
8	SJ	D3	8Y3-0	4.76695	100.61793	0.00	5.36	1.14	0.53	65.21	7.84	20.00	D	F	O
8	SJ	E1	8Z1-0	4.76405	100.61703	0.71	3.57	0.79	0.42	47.64	7.61	20.00	D	F	N
8	SJ	E2	8Z2-0	4.76520	100.61723	0.71	2.14	0.43	0.53	53.44	7.74	20.00	D	F	M
8	SJ	E3	8Z3-0	4.76672	100.61745	0.71	3.57	0.68	0.32	66.61	7.84	20.00	D	F	O
8	SJ	A*1	8U1-0	4.76573	100.62642	5.00	3.57	0.50	1.53	36.23	7.21	19.50	D	E	N
8	SJ	A*2	8U2-0	4.76655	100.62668	1.43	4.29	1.07	0.84	48.15	7.27	20.00	D	E	M
8	SJ	A*3	8U3-0	4.76753	100.62812	0.71	2.14	0.43	0.32	54.89	7.73	20.00	D	E	O
8	SJ	A1	8V1-0	4.76608	100.62475	2.86	2.14	0.86	0.79	51.52	7.44	20.00	D	E	N
8	SJ	A2	8V2-0	4.76687	100.62440	2.14	2.86	0.79	0.32	54.80	7.41	20.50	D	E	M
8	SJ	A3	8V3-0	4.76780	100.62383	1.43	2.86	0.57	0.42	57.61	7.50	20.00	D	E	O
8	SJ	B1	8W1-0	4.76572	100.62195	0.71	4.64	0.93	0.53	63.21	7.37	20.00	D	E	N
8	SJ	B2-1	8W2-1	4.76575	100.62198	3.57	2.14	0.71	0.84	48.83	7.33	20.00	D	E	I
8	SJ	B2-2	8W2-2	4.76572	100.62197	2.14	3.57	0.64	0.63	51.67	7.29	20.00	D	E	I
8	SJ	B2-3	8W2-3	4.76557	100.62132	1.43	2.14	0.46	0.84	28.40	7.24	20.00	D	E	I
8	SJ	B2-4	8W2-4	4.76557	100.62132	2.86	2.86	0.71	0.53	42.56	7.35	20.00	D	E	I
8	SJ	B3	8W3-0	4.76680	100.62221	0.00	2.86	0.64	0.47	46.47	7.21	20.00	D	E	M
8	SJ	B4	8W4-0	4.76775	100.62093	0.00	2.86	0.46	0.32	49.97	7.33	21.00	D	E	O
8	SJ	C1	8X1-0	4.76450	100.62015	1.43	4.64	0.57	0.53	43.98	7.21	20.00	D	E	N
8	SJ	C2-1	8X2-1	4.76507	100.62018	2.86	2.86	0.64	0.53	47.14	7.29	20.50	D	E	I
8	SJ	C2-2	8X2-2	4.76507	100.62022	2.14	3.57	0.57	0.68	29.77	7.21	20.00	D	E	I
8	SJ	C2-3	8X2-3	4.76510	100.62052	3.57	1.43	1.04	0.63	40.38	7.45	20.00	D	E	I
8	SJ	C3	8X3-0	4.76641	100.62010	2.14	3.93	0.86	0.42	55.68	7.34	20.00	D	E	M
8	SJ	C4	8X4-0	4.76753	100.61987	1.43	5.00	1.25	0.89	30.93	7.57	20.00	D	E	O
8	SJ	D1	8Y1-0	4.76413	100.61825	1.43	2.86	0.57	0.47	55.13	7.44	20.50	D	E	N
8	SJ	D2	8Y2-0	4.76657	100.61797	2.14	3.57	0.82	0.42	59.74	7.35	20.00	D	E	M
8	SJ	D3	8Y3-0	4.76695	100.61793	2.86	4.64	1.29	0.58	41.18	7.34	20.00	D	E	O
8	SJ	E1	8Z1-0	4.76405	100.61703	1.43	3.57	0.79	0.53	50.67	7.40	20.00	D	E	N
8	SJ	E2	8Z2-0	4.76520	100.61723	2.14	2.86	0.93	0.53	53.84	7.45	20.00	D	E	M
8	SSK	A1	8P1-0	4.82680	100.58718	2.86	3.57	1.21	0.32	26.36	7.49	21.00	D	E	C
8	SSK	A2	8P2-0	4.82728	100.58793	0.00	8.93	2.21	0.32	21.74	7.49	22.00	D	E	C
8	SSK	A3	8P3-0	4.82768	100.58842	1.43	7.14	2.14	0.37	21.48	7.48	23.00	D	E	C
8	SSK	B1	8Q1-0	4.82212	100.58308	0.71	5.00	1.36	0.21	23.19	7.44	22.00	D	E	C
8	SSK	B2	8Q2-0	4.82317	100.58308	0.71	6.07	1.29	0.37	28.65	7.63	23.00	D	E	C
8	SSK	B3	8Q3-0	4.82348	100.58357	0.71	2.86	0.71	0.11	28.83	7.68	23.00	D	E	C
8	SSK	C1	8R1-0	4.82707	100.57568	0.00	2.86	1.00	0.21	20.59	7.60	22.00	D	E	C

8	SSK	C2	8R2-0	4.82790	100.57597	0.00	7.50	1.39	0.32	18.56	7.60	23.00	D	E	C
8	SSK	C3	8R3-0	4.82810	100.57600	0.00	2.14	0.50	0.11	23.86	7.78	22.00	D	E	C
8	SSK	D1	8S1-0	4.82700	100.56898	0.71	6.43	1.14	0.79	22.47	7.40	23.00	D	E	C
8	SSK	D2	8S2-0	4.82813	100.56835	0.00	5.71	1.14	0.21	28.76	7.63	23.00	D	E	C
8	SSK	D3	8S3-0	4.82947	100.56963	0.71	2.86	0.64	0.11	19.06	7.73	23.00	D	E	C
8	SSK	E1	8T1-0	4.82400	100.56398	0.00	4.64	1.07	0.32	23.85	7.69	23.00	D	E	C
8	SSK	E2	8T2-0	4.82442	100.56302	0.00	2.86	0.57	0.21	20.68	7.67	23.00	D	E	C
8	SSK	E3	8T3-0	4.82468	100.56170	0.00	2.50	0.50	0.11	20.71	7.84	23.00	D	E	C
8	SSK	A1	8P1-0	4.82680	100.58718	2.14	10.36	4.96	0.95	20.02	7.25	20.50	D	F	C
8	SSK	A2	8P2-0	4.82728	100.58793	2.14	10.71	5.07	0.95	16.35	7.25	20.00	D	F	C
8	SSK	A3	8P3-0	4.82768	100.58842	3.57	11.43	4.89	0.74	17.44	7.24	20.00	D	F	C
8	SSK	B1	8Q1-0	4.82212	100.58308	1.43	11.43	4.86	0.84	19.16	7.26	21.00	D	F	C
8	SSK	B2	8Q2-0	4.82317	100.58308	0.00	10.71	4.93	0.74	11.20	7.23	21.00	D	F	C
8	SSK	B3	8Q3-0	4.82348	100.58357	0.71	10.00	4.64	0.63	8.98	7.25	21.00	D	F	C
8	SSK	C1	8R1-0	4.82707	100.57568	0.00	10.00	4.32	0.89	22.61	7.33	21.00	D	F	C
8	SSK	C2	8R2-0	4.82790	100.57597	0.00	10.00	4.57	0.84	17.81	7.29	21.00	D	F	C
8	SSK	C3	8R3-0	4.82810	100.57600	1.43	9.64	4.43	0.53	12.74	7.29	21.00	D	F	C
8	SSK	D1	8S1-0	4.82700	100.56898	0.00	9.29	3.96	0.74	21.32	7.32	21.50	D	F	C
8	SSK	D2	8S2-0	4.82813	100.56835	0.71	11.79	3.50	0.89	20.23	7.33	22.00	D	F	C
8	SSK	D3	8S3-0	4.82947	100.56963	0.00	12.14	3.36	0.74	22.59	7.32	22.00	D	F	C
8	SSK	E1	8T1-0	4.82400	100.56398	0.00	8.57	3.29	0.68	25.32	7.38	22.00	D	F	C
8	SSK	E2	8T2-0	4.82442	100.56302	0.71	11.43	3.14	0.63	25.82	7.39	22.00	D	F	C
8	SSK	E3	8T3-0	4.82468	100.56170	0.71	7.86	2.96	1.00	21.57	7.32	22.00	D	F	C
8	SSB	Y1	8A1-0	4.84577	100.58448	0.71	10.00	5.00	0.42	21.00	8.15	20.50	D	E	N
8	SSB	Y2	8A2-0	4.84538	100.58388	0.71	11.43	3.36	0.68	22.15	7.94	20.00	D	E	W
8	SSB	Y3	8A3-0	4.84498	100.58325	1.43	10.00	4.43	0.53	22.10	8.13	19.00	D	E	M
8	SSB	Y4	8A4-0	4.84427	100.58268	2.86	8.57	3.21	0.21	20.73	8.00	21.00	D	E	O
8	SSB	X1	8B1-0	4.84857	100.58315	0.71	12.50	3.86	0.53	19.97	7.98	20.50	D	E	N
8	SSB	X2	8B2-0	4.84808	100.58190	0.00	10.71	4.57	0.53	16.81	7.91	20.00	D	E	W
8	SSB	X3	8B3-0	4.84777	100.58062	0.71	12.14	5.43	0.53	19.87	7.91	21.00	D	E	M
8	SSB	X4	8B4-0	4.84765	100.58013	3.93	15.71	3.64	0.63	13.19	7.98	20.00	D	E	O
8	SSB	A*1	8C1-0	4.85325	100.58172	3.57	7.14	1.93	1.42	8.85	7.75	20.00	D	E	N
8	SSB	A*2	8C2-0	4.85283	100.58085	0.71	10.00	3.00	0.89	18.16	7.80	21.00	D	E	W
8	SSB	A*3	8C3-0	4.85215	100.57968	0.71	10.71	3.21	0.32	20.12	7.81	21.00	D	E	M
8	SSB	A*4	8C4-0	4.85130	100.57813	2.14	10.00	4.07	0.53	9.48	7.74	20.00	D	E	O
8	SSB	A1	8D1-0	4.85448	100.58078	2.14	8.57	1.79	1.16	7.49	7.89	23.00	D	E	N
8	SSB	A2	8D2-0	4.85388	100.58052	0.00	7.86	1.96	0.53	19.20	7.83	24.00	D	E	W
8	SSB	A3	8D3-0	4.85357	100.57905	0.00	11.07	3.71	0.32	19.97	7.93	21.00	D	E	M
8	SSB	A4	8D4-0	4.85263	100.57735	0.71	10.71	2.71	0.68	17.62	7.82	21.00	D	E	O
8	SSB	B1	8E1-0	4.85747	100.57975	1.79	7.86	2.14	0.63	24.47	7.97	21.00	D	E	N
8	SSB	B2-1	8E2-1	4.85740	100.57947	1.43	7.86	2.07	0.89	14.32	7.91	22.00	D	E	I
8	SSB	B2-2	8E2-2	4.85673	100.57940	2.14	7.86	2.21	0.42	22.73	7.97	21.00	D	E	I
8	SSB	B3	8E3-0	4.85655	100.57788	0.71	8.57	3.14	0.63	26.26	7.89	21.00	D	E	M
8	SSB	B4	8E4-0	4.85547	100.57623	2.14	6.43	2.71	0.63	23.72	7.90	21.00	D	E	O
8	SSB	C1	8F1-0	4.85878	100.57902	1.43	6.43	2.64	0.58	25.57	7.91	22.00	D	E	N
8	SSB	C2-1	8F2-1	4.85843	100.57847	2.86	8.93	2.43	0.89	18.48	8.03	22.00	D	E	I
8	SSB	C2-2	8F2-2	4.85835	100.57875	1.43	7.14	1.86	0.74	22.03	7.96	22.00	D	E	I
8	SSB	C3	8F3-0	4.85825	100.57772	0.00	9.29	3.89	0.21	27.52	7.94	22.00	D	E	M
8	SSB	C4	8F4-0	4.85698	100.57590	0.71	7.86	3.21	0.68	19.24	7.90	21.00	D	E	O
8	SSB	D1	8G1-0	4.86017	100.57793	0.71	9.29	2.32	1.05	23.27	7.91	20.00	D	E	N
8	SSB	D2-1	8G2-1	4.86025	100.57750	5.36	10.00	2.64	0.74	21.35	7.90	20.00	D	E	I
8	SSB	D2-2	8G2-2	4.86005	100.57702	0.71	9.29	2.29	0.32	23.01	7.92	23.00	D	E	I
8	SSB	D2-3	8G2-3	4.85987	100.57653	0.71	7.14	2.86	0.32	23.99	8.03	22.00	D	E	I
8	SSB	D3	8G3-0	4.85933	100.57625	0.71	9.64	3.86	0.32	24.18	7.93	20.00	D	E	M
8	SSB	D4	8G4-0	4.85840	100.57502	1.43	9.29	2.57	0.79	20.03	7.83	20.00	D	E	O
8	SSB	E1	8H1-0	4.86172	100.57655	2.14	6.43	2.14	0.95	26.12	7.82	21.00	D	E	N
8	SSB	E2-1	8H2-1	4.86037	100.57548	1.79	8.21	2.39	0.47	26.02	7.94	21.00	D	E	I
8	SSB	E2-2	8H2-2	4.86082	100.57598	2.14	10.00	2.93	0.21	25.74	7.94	22.00	D	E	I
8	SSB	E2-3	8H2-3	4.86132	100.57612	0.71	8.57	4.14	0.21	19.04	7.94	22.50	D	E	I
8	SSB	E3	8H3-0	4.86023	100.57560	0.00	9.29	4.14	0.53	22.69	7.94	21.50	D	E	M
8	SSB	E4	8H4-0	4.85952	100.57425	4.29	5.00	1.14	0.53	17.85	8.04	21.00	D	E	O



8	SSB	S1	8I1-0	4.86310	100.57355	2.14	7.14	2.54	0.89	19.22	7.88	22.00	D	E	N
8	SSB	S2-1	8I2-1	4.86228	100.57352	3.93	10.00	1.71	0.95	18.28	7.88	19.00	D	E	I
8	SSB	S3	8I3-0	4.86142	100.57328	0.71	7.14	3.00	0.32	22.74	7.89	19.50	D	E	M
8	SSB	S4	8I4-0	4.86033	100.57272	2.14	7.14	2.57	0.84	17.46	7.89	21.50	D	E	O
8	SSB	R1	8J1-0	4.86317	100.57190	2.14	7.86	2.71	0.89	24.90	7.94	22.00	D	E	N
8	SSB	R2-1	8J2-1	4.86317	100.57202	3.57	7.14	2.43	0.95	19.13	7.90	22.00	D	E	I
8	SSB	R2-2	8J2-2	4.86197	100.57203	2.86	7.86	2.43	0.74	23.01	8.13	21.00	D	E	I
8	SSB	R3	8J3-0	4.86102	100.57223	0.71	8.57	3.68	0.42	23.02	8.12	22.00	D	E	M
8	SSB	R4	8J4-0	4.86055	100.57208	0.00	9.29	2.39	0.68	9.07	8.02	22.00	D	E	O
8	SSB	Q1	8K1-0	4.86348	100.56998	1.43	9.29	2.86	0.68	21.84	7.88	21.50	D	E	N
8	SSB	Q2-1	8K2-1	4.86195	100.56960	2.50	6.43	2.50	1.11	21.57	7.96	22.00	D	E	I
8	SSB	Q2-2	8K2-2	4.86280	100.56972	2.86	6.43	2.57	1.16	22.83	7.94	21.00	D	E	I
8	SSB	Q3	8K3-0	4.86055	100.57002	2.14	7.14	2.93	0.74	21.59	8.02	21.00	D	E	M
8	SSB	Q4	8K4-0	4.85953	100.57060	1.43	6.43	2.46	0.89	26.11	8.04	22.00	D	E	O
8	SSB	P1	8L1-0	4.86258	100.56815	1.07	7.14	2.86	0.63	24.77	8.08	21.00	D	E	N
8	SSB	P2-1	8L2-1	4.86160	100.56837	1.43	7.14	2.57	0.95	21.66	8.04	21.00	D	E	I
8	SSB	P3	8L3-0	4.86092	100.56870	0.71	7.14	2.79	0.32	27.10	8.02	22.00	D	E	M
8	SSB	P4	8L4-0	4.85917	100.56973	1.43	8.57	1.89	0.63	25.10	8.14	20.00	D	E	O
8	SSB	O1	8M1-0	4.86120	100.56482	1.43	7.86	2.86	0.68	29.43	8.19	22.00	D	E	N
8	SSB	O2	8M2-0	4.85978	100.56518	1.43	7.86	3.15	0.89	25.70	8.10	22.00	D	E	W
8	SSB	O3	8M3-0	4.85872	100.56555	1.43	9.64	2.71	0.21	17.22	8.12	22.00	D	E	M
8	SSB	O4	8M4-0	4.85735	100.56617	2.86	9.29	2.21	0.84	27.06	8.08	22.00	D	E	O
8	SSB	X1	8B1-0	4.84857	100.58315	3.57	10.00	3.07	0.53	6.75	8.00	19.00	D	F	N
8	SSB	X2	8B2-0	4.84808	100.58190	0.00	9.29	4.11	0.42	15.16	7.99	21.00	D	F	W
8	SSB	X3	8B3-0	4.84777	100.58062	0.71	9.29	3.36	0.47	7.75	8.02	20.00	D	F	M
8	SSB	X4	8B4-0	4.84765	100.58013	0.00	10.00	3.93	0.32	18.88	7.94	21.00	D	F	O
8	SSB	A*1	8C1-0	4.85325	100.58172	1.43	7.86	2.93	0.63	21.40	8.05	20.00	D	F	N
8	SSB	A*2	8C2-0	4.85283	100.58085	0.00	9.29	3.82	0.42	26.20	8.09	20.00	D	F	W
8	SSB	A*3	8C3-0	4.85215	100.57968	0.71	9.29	3.93	0.74	16.48	8.02	20.00	D	F	M
8	SSB	A*4	8C4-0	4.85130	100.57813	0.00	9.64	4.18	0.74	15.33	8.05	21.00	D	F	O
8	SSB	A1	8D1-0	4.85448	100.58078	0.00	9.29	3.71	0.84	20.66	8.00	21.50	D	F	N
8	SSB	A2	8D2-0	4.85388	100.58052	0.71	10.00	4.29	0.63	23.63	8.00	20.00	D	F	W
8	SSB	A3	8D3-0	4.85357	100.57905	0.00	9.29	4.54	0.63	19.82	7.94	21.00	D	F	M
8	SSB	A4	8D4-0	4.85263	100.57735	1.79	10.00	3.57	0.84	17.80	7.94	20.00	D	F	O
8	SSB	B1	8E1-0	4.85747	100.57975	0.71	11.43	3.00	0.21	19.81	8.06	20.00	D	F	N
8	SSB	B2-1	8E2-1	4.85740	100.57947	2.86	7.50	2.57	0.53	21.59	8.06	19.00	D	F	I
8	SSB	B2-2	8E2-2	4.85673	100.57940	3.57	12.14	2.93	0.42	18.53	8.10	20.00	D	F	I
8	SSB	B3	8E3-0	4.85655	100.57788	0.71	10.00	3.79	0.53	20.50	8.01	20.00	D	F	M
8	SSB	B4	8E4-0	4.85547	100.57623	0.00	7.86	2.64	0.74	15.16	8.01	20.00	D	F	O
8	SSB	C1	8F1-0	4.85878	100.57902	3.93	10.71	3.00	0.63	17.82	8.09	21.00	D	F	N
8	SSB	C2-1	8F2-1	4.85843	100.57847	2.86	9.29	3.07	0.74	23.15	8.34	21.00	D	F	I
8	SSB	C2-2	8F2-2	4.85835	100.57875	5.71	11.43	2.43	0.68	12.30	8.09	20.00	D	F	I
8	SSB	C3	8F3-0	4.85825	100.57772	0.71	10.00	3.82	0.53	10.85	7.92	21.00	D	F	M
8	SSB	C4	8F4-0	4.85698	100.57590	0.71	7.86	2.86	0.84	15.29	7.97	20.00	D	F	O
8	SSB	D1	8G1-0	4.86017	100.57793	2.14	10.71	2.86	0.89	16.66	7.72	21.00	D	F	N
8	SSB	D2-1	8G2-1	4.86025	100.57750	5.71	9.29	3.57	0.84	18.60	8.05	21.00	D	F	I
8	SSB	D2-2	8G2-2	4.86005	100.57702	3.57	9.29	3.21	0.42	20.67	8.05	21.00	D	F	I
8	SSB	D2-3	8G2-3	4.85987	100.57653	2.86	10.00	3.29	0.26	19.48	7.92	21.00	D	F	I
8	SSB	D3	8G3-0	4.85933	100.57625	0.00	8.57	2.14	0.53	13.27	7.81	22.00	D	F	M
8	SSB	D4	8G4-0	4.85840	100.57502	2.14	7.14	2.21	0.32	12.35	8.04	20.00	D	F	O
8	SSB	E1	8H1-0	4.86172	100.57655	5.36	10.36	2.64	0.47	19.94	8.14	21.00	D	F	N
8	SSB	E2-1	8H2-1	4.86037	100.57548	4.29	8.57	2.04	0.53	23.18	8.13	21.00	D	F	I
8	SSB	E2-2	8H2-2	4.86082	100.57598	2.14	10.00	2.57	0.58	15.26	7.93	21.00	D	F	I
8	SSB	E2-3	8H2-3	4.86132	100.57612	2.86	7.86	2.79	0.53	18.20	8.01	21.50	D	F	I
8	SSB	E3	8H3-0	4.86023	100.57560	1.43	9.29	2.00	0.42	38.66	7.88	21.00	D	F	M
8	SSB	E4	8H4-0	4.85952	100.57425	0.71	6.07	1.79	0.53	26.43	7.98	22.00	D	F	O
8	SSB	S1	8I1-0	4.86310	100.57355	2.50	10.00	3.14	0.74	20.29	7.99	21.00	D	F	N
8	SSB	S2-1	8I2-1	4.86228	100.57352	6.07	11.79	3.57	0.74	14.36	7.93	21.00	D	F	I
8	SSB	S3	8I3-0	4.86142	100.57328	1.43	7.14	2.18	0.53	27.78	7.91	22.00	D	F	M
8	SSB	S4	8I4-0	4.86033	100.57272	0.71	8.57	2.00	0.68	32.19	7.73	21.50	D	F	O
8	SSB	R1	8J1-0	4.86317	100.57190	2.14	8.57	1.93	0.63	19.54	7.76	20.00	D	F	N

8	SSB	R2-1	8J2-1	4.86317	100.57202	1.43	7.14	2.21	0.74	22.79	7.82	22.00	D	F	I
8	SSB	R2-2	8J2-2	4.86197	100.57203	8.93	11.79	3.04	0.53	11.86	7.98	21.00	D	F	I
8	SSB	R3	8J3-0	4.86102	100.57223	1.43	8.57	2.07	0.42	26.30	7.76	20.00	D	F	M
8	SSB	R4	8J4-0	4.86055	100.57208	3.21	8.57	1.75	1.11	27.28	7.71	20.00	D	F	O
8	SSB	Q1	8K1-0	4.86348	100.56998	1.43	6.43	2.14	0.63	15.48	8.01	21.00	D	F	N
8	SSB	Q2-1	8K2-1	4.86195	100.56960	2.14	8.21	2.00	0.58	19.08	8.09	19.00	D	F	I
8	SSB	Q2-2	8K2-2	4.86280	100.56972	4.29	7.14	2.43	1.11	21.80	7.99	21.00	D	F	I
8	SSB	Q3	8K3-0	4.86055	100.57002	2.14	6.43	1.54	0.21	17.48	8.14	17.00	D	F	M
8	SSB	Q4	8K4-0	4.85953	100.57060	0.71	5.71	1.79	0.79	59.21	7.95	22.00	D	F	O
8	SSB	P1	8L1-0	4.86258	100.56815	0.00	6.43	2.39	0.53	21.91	8.01	21.50	D	F	N
8	SSB	P2-1	8L2-1	4.86160	100.56837	4.64	7.14	2.29	0.84	21.28	8.00	21.00	D	F	I
8	SSB	P3	8L3-0	4.86092	100.56870	7.86	9.29	2.29	0.79	28.30	8.01	21.00	D	F	M
8	SSB	P4	8L4-0	4.85917	100.56973	0.71	8.93	1.93	0.53	47.27	8.04	21.00	D	F	O
8	SSB	O1	8M1-0	4.86120	100.56482	1.43	8.57	2.14	1.11	24.43	7.76	22.00	D	F	N
8	SSB	O2	8M2-0	4.85978	100.56518	2.14	7.14	2.07	1.05	25.38	7.95	22.00	D	F	W
8	SSB	O3	8M3-0	4.85872	100.56555	2.14	9.29	1.79	0.32	28.63	8.14	18.00	D	F	M
8	SSB	O4	8M4-0	4.85735	100.56617	0.71	7.50	1.71	0.63	47.99	8.02	22.00	D	F	O
5	SJ	A1	5V1-0	4.76608	100.62475	0.00	5.00	1.21	1.74	11.87	7.31	16.20	D	F	N
5	SJ	A2	5V2-0	4.76687	100.62440	0.00	2.14	0.86	0.53	20.75	7.34	18.50	D	F	M
5	SJ	A3	5V3-0	4.76780	100.62383	0.71	3.57	0.93	0.47	19.58	7.41	18.20	D	F	O
5	SJ	B1	5W1-0	4.76572	100.62195	0.71	1.79	0.64	0.68	18.33	7.22	17.00	D	F	N
5	SJ	B2-1	5W2-1	4.76575	100.62198	4.29	5.00	0.93	1.74	13.22	7.21	19.20	D	F	I
5	SJ	B2-2	5W2-2	4.76572	100.62197	2.14	2.14	0.75	0.95	17.88	7.33	18.00	D	F	I
5	SJ	B2-3	5W2-3	4.76557	100.62132	2.50	5.71	1.18	1.53	18.28	7.28	17.70	D	F	I
5	SJ	B2-4	5W2-4	4.76557	100.62132	7.50	5.71	1.43	3.21	16.02	7.26	17.80	D	F	I
5	SJ	B3	5W3-0	4.76680	100.62221	0.71	1.43	0.36	0.32	15.24	7.31	17.00	D	F	M
5	SJ	B4	5W4-0	4.76775	100.62093	3.21	6.79	2.36	0.79	24.17	7.30	17.10	D	F	O
5	SJ	C1	5X1-0	4.76450	100.62015	8.21	10.00	4.14	0.89	19.32	7.29	15.80	D	F	N
5	SJ	C2-1	5X2-1	4.76507	100.62018	7.86	10.00	3.96	0.58	21.14	7.34	15.60	D	F	I
5	SJ	C2-2	5X2-2	4.76507	100.62022	8.21	11.07	4.82	0.74	24.90	7.31	15.50	D	F	I
5	SJ	C2-3	5X2-3	4.76510	100.62052	5.71	7.86	2.96	0.79	22.34	7.33	16.60	D	F	I
5	SJ	C3	5X3-0	4.76641	100.62010	7.14	11.07	3.54	0.58	17.14	7.36	15.90	D	F	M
5	SJ	C4	5X4-0	4.76753	100.61987	1.79	8.57	3.04	0.63	22.89	7.32	16.10	D	F	O
5	SJ	D1	5Y1-0	4.76413	100.61825	8.93	13.21	4.64	1.42	18.17	7.22	15.70	D	F	N
5	SJ	D2	5Y2-0	4.76657	100.61797	8.57	12.86	3.54	0.58	11.94	7.35	16.00	D	F	M
5	SJ	D3	5Y3-0	4.76695	100.61793	4.29	11.07	3.07	0.63	31.61	7.25	17.50	D	F	O
5	SJ	A1	5V1-0	4.76608	100.62475	0.00	3.21	1.14	0.47	20.33	7.64	20.00	D	E	N
5	SJ	A2	5V2-0	4.76687	100.62440	0.00	2.86	0.46	0.21	16.74	7.71	21.00	D	E	M
5	SJ	A3	5V3-0	4.76780	100.62383	0.00	2.86	0.29	0.47	14.05	7.77	22.40	D	E	O
5	SJ	B1	5W1-0	4.76572	100.62195	0.00	2.14	0.36	0.42	14.35	7.76	22.80	D	E	N
5	SJ	B2-1	5W2-1	4.76575	100.62198	4.29	1.43	0.50	0.53	19.13	7.76	24.00	D	E	I
5	SJ	B2-2	5W2-2	4.76572	100.62197	6.43	1.43	0.14	1.05	16.86	7.76	23.80	D	E	I
5	SJ	B2-3	5W2-3	4.76557	100.62132	0.71	1.43	0.43	0.47	17.37	7.81	23.50	D	E	I
5	SJ	B2-4	5W2-4	4.76557	100.62132	1.43	2.14	0.43	0.79	17.41	7.80	24.30	D	E	I
5	SJ	B3	5W3-0	4.76680	100.62221	0.00	1.07	0.21	0.21	12.06	7.83	22.20	D	E	M
5	SJ	B4	5W4-0	4.76775	100.62093	0.00	1.43	0.29	0.16	13.06	7.77	22.90	D	E	O
5	SJ	C1	5X1-0	4.76450	100.62015	0.00	1.79	0.36	0.32	14.54	7.75	23.00	D	E	N
5	SJ	C2-1	5X2-1	4.76507	100.62018	0.00	0.71	0.14	0.21	16.81	7.81	22.10	D	E	I
5	SJ	C2-2	5X2-2	4.76507	100.62022	0.00	1.07	0.14	0.37	14.40	7.84	23.90	D	E	I
5	SJ	C2-3	5X2-3	4.76510	100.62052	1.43	1.43	0.14	0.37	14.80	7.80	23.80	D	E	I
5	SJ	C3	5X3-0	4.76641	100.62010	0.00	1.43	0.36	0.16	12.58	7.81	21.50	D	E	M
5	SJ	C4	5X4-0	4.76753	100.61987	0.00	1.43	0.32	0.37	17.80	7.82	17.00	D	E	O
5	SJ	D1	5Y1-0	4.76413	100.61825	0.71	4.29	0.29	0.21	16.98	7.77	17.20	D	E	N
5	SJ	D2	5Y2-0	4.76657	100.61797	0.00	0.71	0.14	0.11	11.25	7.85	18.10	D	E	M
5	SJ	D3	5Y3-0	4.76695	100.61793	0.00	1.43	0.21	0.11	11.01	7.87	17.80	D	E	O
5	SSB	A*1	5C1-0	4.85325	100.58172	4.29	14.29	5.64	0.84	14.59	7.20	16.00	D	F	N
5	SSB	A*2	5C2-0	4.85283	100.58085	2.14	15.36	6.18	0.63	6.17	7.30	16.00	D	F	W
5	SSB	A*3	5C3-0	4.85215	100.57968	2.86	17.14	6.64	0.79	6.64	7.18	16.00	D	F	O
5	SSB	A*4	5C4-0	4.85130	100.57813	2.50	15.71	6.07	0.53	15.70	7.16	15.00	D	F	M
5	SSB	A1	5D1-0	4.85448	100.58078	1.43	17.50	6.57	0.84	8.26	7.19	16.00	D	F	N
5	SSB	A2	5D2-0	4.85388	100.58052	2.50	14.29	5.50	0.95	8.50	7.16	17.00	D	F	W

5	SSB	A3	5D3-0	4.85357	100.57905	1.43	18.57	6.39	0.95	6.39	7.05	17.00	D	F	M
5	SSB	A4	5D4-0	4.85263	100.57735	2.14	20.36	6.64	0.74	12.76	7.07	16.00	D	F	O
5	SSB	B1	5E1-0	4.85747	100.57975	1.79	17.14	6.93	0.47	17.59	7.13	17.00	D	F	N
5	SSB	B2-1	5E2-1	4.85740	100.57947	7.86	15.00	4.00	0.63	12.98	7.10	17.00	D	F	I
5	SSB	B2-2	5E2-2	4.85673	100.57940	8.57	15.00	4.93	1.11	16.82	7.12	17.00	D	F	I
5	SSB	B3	5E3-0	4.85655	100.57788	1.43	17.14	6.79	0.74	16.55	7.12	17.00	D	F	M
5	SSB	B4	5E4-0	4.85547	100.57623	1.79	14.64	2.57	1.26	15.51	7.15	16.00	D	F	O
5	SSB	C1	5F1-0	4.85878	100.57902	1.79	16.43	6.21	0.42	17.02	7.12	17.00	D	F	N
5	SSB	C2-1	5F2-1	4.85843	100.57847	7.14	17.14	6.57	1.05	11.68	7.12	17.00	D	F	I
5	SSB	C2-2	5F2-2	4.85835	100.57875	5.71	15.00	6.71	0.95	14.25	7.17	17.00	D	F	I
5	SSB	C3	5F3-0	4.85825	100.57772	2.14	17.86	7.39	0.58	18.10	7.17	16.50	D	F	M
5	SSB	C4	5F4-0	4.85698	100.57590	1.07	18.93	8.14	1.16	16.03	7.18	17.00	D	F	O
5	SSB	D1	5G1-0	4.86017	100.57793	2.86	17.86	7.79	0.74	13.05	7.13	17.00	D	F	N
5	SSB	D2-1	5G2-1	4.86025	100.57750	1.79	14.29	6.32	0.63	17.31	7.20	18.00	D	F	I
5	SSB	D2-2	5G2-2	4.86005	100.57702	6.43	15.71	6.64	1.16	10.81	7.17	18.00	D	F	I
5	SSB	D2-3	5G2-3	4.85987	100.57653	3.21	14.29	5.86	1.05	17.33	7.20	18.00	D	F	I
5	SSB	D3	5G3-0	4.85937	100.57625	1.79	17.14	7.36	0.95	16.25	7.19	17.00	D	F	M
5	SSB	D4	5G4-0	4.85840	100.57502	0.71	17.14	7.57	0.53	16.10	7.22	17.00	D	F	O
5	SSB	E1	5H1-0	4.86172	100.57655	3.21	15.71	6.57	0.95	12.98	7.21	19.00	D	F	N
5	SSB	E2-1	5H2-1	4.86037	100.57548	4.29	17.14	6.71	0.63	16.36	7.26	19.00	D	F	I
5	SSB	E2-2	5H2-2	4.86082	100.57598	4.29	12.14	5.29	0.74	12.74	7.14	19.00	D	F	I
A	SSB	E2-3	5H2-3	4.86132	100.57612	2.96	15.71	6.21	0.42	13.87	7.24	18.00	D	F	I
5	SSB	E3	5H3-0	4.86023	100.57560	0.00	16.43	6.64	0.95	18.83	7.24	19.00	D	F	M
5	SSB	E4	5H4-0	4.85952	100.57425	0.00	17.14	7.18	0.63	19.07	7.19	18.50	D	F	O
5	SSB	F1	5I1-0	4.86310	100.57355	0.00	14.64	8.57	0.53	26.34	7.22	19.00	D	F	N
5	SSB	F3	5I3-0	4.86142	100.57328	0.71	13.57	6.07	0.53	18.65	7.27	18.00	D	F	M
5	SSB	F4	5I4-0	4.86033	100.57272	0.00	16.43	7.00	0.42	22.08	7.26	18.00	D	F	O
5	SSB	Q1	5K1-0	4.86348	100.56998	0.71	16.43	7.57	0.53	20.40	7.34	19.00	D	F	N
5	SSB	Q2-1	5K2-1	4.86195	100.56960	2.50	13.93	4.57	0.63	14.09	7.27	19.00	D	F	I
5	SSB	Q2-2	5K2-2	4.86280	100.56972	1.43	14.29	6.21	0.42	0.00	7.25	19.00	D	F	I
5	SSB	Q3	5K3-0	4.86055	100.57002	0.00	17.14	7.71	0.58	14.92	7.28	18.50	D	F	M
5	SSB	Q4	5K4-0	4.85953	100.57060	0.00	17.86	7.71	0.42	15.25	7.27	18.50	D	F	O
5	SSB	P1	5L1-0	4.86258	100.56815	0.00	13.57	5.50	0.16	20.77	7.27	19.00	D	F	N
5	SSB	P2-1	5L2-1	4.86160	100.56837	2.50	13.57	5.79	0.63	13.65	7.25	18.00	D	F	I
5	SSB	P2-2	5L2-2	4.86140	100.56844	2.14	12.86	5.68	0.63	15.25	7.22	19.00	D	F	I
5	SSB	P3	5L3-0	4.86092	100.56870	0.00	13.57	5.79	0.42	18.55	7.38	19.50	D	F	M
5	SSB	P4	5L4-0	4.85917	100.56973	4.29	16.07	8.29	0.53	18.58	7.37	17.00	D	F	O
5	SSB	O1	5M1-0	4.86120	100.56482	0.00	14.29	4.71	0.42	26.98	7.36	19.00	D	F	N
5	SSB	O2	5M2-0	4.85978	100.56518	0.36	15.00	5.07	0.21	20.12	7.28	19.00	D	F	W
5	SSB	O3	5M3-0	4.85872	100.56555	1.43	13.21	5.29	0.58	16.79	7.30	19.50	D	F	M
5	SSB	O4	5M4-0	4.85735	100.56617	2.14	11.43	5.29	0.74	28.38	7.32	19.00	D	F	O
5	SSB	A*1	5C1-0	4.85325	100.58172	0.71	1.79	0.64	0.16	44.83	7.70	18.20	D	E	N
5	SSB	A*4	5C4-0	4.85130	100.57813	0.00	5.71	1.43	0.21	27.79	7.63	19.00	D	E	O
5	SSB	A1	5D1-0	4.85448	100.58078	0.00	9.29	3.11	0.21	37.61	7.63	19.00	D	E	N
5	SSB	A3	5D3-0	4.85357	100.57905	0.00	5.71	1.43	0.16	39.76	7.66	19.00	D	E	M
5	SSB	B2-1	5E2-1	4.85740	100.57947	0.36	10.00	3.43	0.32	28.49	7.59	18.80	D	E	I
5	SSB	B2-2	5E2-2	4.85673	100.57940	0.71	7.14	1.64	0.53	44.48	7.55	19.00	D	E	I
5	SSB	C1	5F1-0	4.85878	100.57902	0.00	7.14	1.86	0.42	37.12	7.36	19.00	D	E	N
5	SSB	C2-1	5F2-1	4.85843	100.57847	0.71	8.21	2.93	0.47	28.58	7.56	18.10	D	E	I
5	SSB	C2-2	5F2-2	4.85835	100.57875	0.00	10.00	4.36	0.42	27.87	7.49	18.00	D	E	I
5	SSB	C4	5F4-0	4.85698	100.57590	0.00	12.14	4.50	0.42	33.20	7.50	20.00	D	E	O
5	SSB	D2-1	5G2-1	4.86025	100.57750	0.00	5.00	1.07	0.16	26.86	7.62	19.50	D	E	I
5	SSB	D2-2	5G2-2	4.86005	100.57702	0.71	5.71	0.64	0.53	31.74	7.78	18.50	D	E	I
5	SSB	D2-3	5G2-3	4.85987	100.57653	0.71	6.07	0.82	0.53	21.41	7.71	19.90	D	E	I
5	SSB	E1	5H1-0	4.86172	100.57655	0.00	7.86	1.36	0.53	46.90	7.54	19.20	D	E	N
5	SSB	E2-1	5H2-1	4.86037	100.57548	0.00	3.57	0.79	0.32	34.64	7.73	19.00	D	E	I
5	SSB	E2-2	5H2-2	4.86082	100.57598	0.71	4.29	1.00	0.16	36.00	7.63	19.80	D	E	I
5	SSB	E2-3	5H2-3	4.86132	100.57612	0.00	5.71	1.54	0.32	35.00	7.39	19.80	D	E	I
5	SSB	E3	5H3-0	4.86023	100.57560	0.00	7.14	2.18	0.53	24.47	7.64	19.50	D	E	M
5	SSB	Q1	5K1-0	4.86348	100.56998	0.00	2.50	0.46	0.21	36.41	7.65	20.50	D	E	N
5	SSB	Q2-1	5K2-1	4.86195	100.56960	0.00	3.57	0.71	0.11	35.57	7.70	20.50	D	E	I

5	SSB	Q2-2	5K2-2	4.86280	100.56972	0.00	2.86	0.61	0.21	24.04	7.72	20.50	D	E	I
5	SSB	Q3	5K3-0	4.86055	100.57002	0.00	5.71	1.18	0.53	45.97	7.60	20.00	D	E	M
5	SSB	Q4	5K4-0	4.85953	100.57060	0.00	4.29	0.96	0.32	37.12	7.58	21.50	D	E	O
5	SSB	P1	5L1-0	4.86258	100.56815	0.00	2.14	0.50	0.21	36.92	7.78	19.50	D	E	N
5	SSB	P2-1	5L2-1	4.86160	100.56837	0.00	2.14	0.46	0.11	40.53	7.79	19.50	D	E	I
5	SSB	P2-2	5L2-2	4.86140	100.56844	0.00	2.14	0.43	0.11	29.22	7.80	20.20	D	E	I
5	SSB	P3	5L3-0	4.86092	100.56870	0.00	2.14	0.50	0.11	44.59	7.82	21.00	D	E	M
5	SSB	P4	5L4-0	4.85917	100.56973	0.00	6.43	0.86	0.32	41.45	7.60	21.00	D	E	O
5	SSB	O1	5M1-0	4.86120	100.56482	0.71	2.14	0.32	0.11	25.09	7.98	21.50	D	E	N
5	SSB	O2	5M2-0	4.85978	100.56518	0.00	6.43	0.43	0.16	29.99	7.94	21.50	D	E	W
5	SSB	O3	5M3-0	4.85872	100.56555	0.71	2.14	0.50	0.26	40.86	7.80	21.00	D	E	M
5	SSB	O4	5M4-0	4.85735	100.56617	0.00	2.86	0.43	0.21	37.73	7.86	21.00	D	E	O
4	SSB	S1-1	4E2-2	4.85673	100.57940	3.57	11.43	5.39	0.89	16.24	7.32	32.90	D	F	I
4	SSB	S1-1	4E2-2	4.85673	100.57940	10.00	13.21	5.14	1.79	9.77	7.30	23.70	D	F	I
4	SSB	S1-1	4E2-2	4.85673	100.57940	5.36	12.14	4.82	1.58	9.36	7.44	24.20	D	F	I
4	SSB	S1-1	4E2-2	4.85673	100.57940	2.14	12.14	4.54	0.79	45.01	7.38	23.40	D	E	I
4	SSB	S1-1	4E2-2	4.85673	100.57940	2.86	5.71	1.57	0.58	64.96	7.51	22.80	D	E	I
4	SSB	S1-1	4E2-2	4.85673	100.57940	2.86	14.29	6.21	1.26	18.80	7.34	23.80	N	E	I
4	SSB	S1-1	4E2-2	4.85673	100.57940	2.14	8.21	3.07	1.47	12.43	7.16	23.40	N	E	I
4	SSB	S1-0	4E4-0	4.85547	100.57623	1.79	7.86	6.25	1.26	16.29	7.33	24.90	D	E	O
4	SSB	S1-0	4E4-0	4.85547	100.57623	2.14	17.50	8.79	1.26	14.15	7.36	21.80	D	F	O
4	SSB	S1-0	4E4-0	4.85547	100.57623	3.21	10.71	5.07	1.16	20.46	7.38	25.00	D	F	O
4	SSB	S1-0	4E4-0	4.85547	100.57623	1.79	11.43	6.14	1.26	41.13	7.33	24.60	D	F	O
4	SSB	S1-0	4E4-0	4.85547	100.57623	0.00	11.07	3.75	0.84	44.99	7.44	23.80	D	E	O
4	SSB	S1-0	4E4-0	4.85547	100.57623	0.00	8.57	3.46	0.74	16.82	7.47	22.60	N	E	O
4	SSB	S1-0	4E4-0	4.85547	100.57623	1.43	10.71	4.79	0.95	8.27	7.20	23.50	N	E	O
4	SSK	K2	4R2-0	4.82790	100.57597	0.00	12.50	5.71	0.95	24.22	7.25	25.20	D	F	C
4	SSK	K2	4R2-0	4.82790	100.57597	0.00	10.36	4.39	0.63	32.55	7.25	23.10	D	F	C
4	SSK	K2	4R2-0	4.82790	100.57597	0.00	6.43	1.50	0.47	46.00	7.12	25.60	D	F	C
4	SSK	K2	4R2-0	4.82790	100.57597	0.00	2.50	0.50	0.32	28.28	7.70	26.70	D	F	C
4	SSK	K2	4R2-0	4.82790	100.57597	0.00	2.86	0.46	0.63	23.24	7.45	26.20	D	E	C
4	SSK	K2	4R2-0	4.82790	100.57597	0.00	8.57	2.39	0.95	46.39	7.25	26.50	N	E	C
4	SSK	K2	4R2-0	4.82790	100.57597	0.36	8.21	5.07	0.89	10.59	6.91	26.30	N	E	C

## LEGEND

Estuary	SJ	Sg. Jaha
	SSK	Sg. Sangga Kecil
	SSB	Sg. Sangga Besar
Tide	F	Flood
	E	Ebb
Diel	D	Day
	N	Night
Position	N	Outside cage and on the same side of river bank
	I	Inside cage
	M	Outside cage and at middle of river section
	O	Outside cage and on opposite side of river bank
	W	Outside cage along same longitudinal axis
	C	Without cage (control)