

2000 Bivalve Condition Index Analysis

Prepared for

The Regional Monitoring Program for Trace Substances in the San Francisco Estuary

April 12, 2001

APPLIED *marine* SCIENCES

Bivalve Survival

Site Name	Code	Species	# Depl.	#ORG	#TM	#CI	Dead	Arch.	Discard	Surv %	Comments ²
Coyote Creek	BA10	CGIG	134	20	19	30	26	0	39	81	
Coyote Creek	BA10	MCAL	81	0	0	30	3	48	0	96	archive
Coyote Creek	BA10	MEDU	78	0	0	30	2	46	0	97	archive
Dumbarton Bridge	BA30	CGIG	132	20	20	30	30	0	32	77	
Dumbarton Bridge	BA30	MCAL	38	0	0	0	0	38	0	100	
Redwood Creek	BA40	CGIG	35	0	0	0	8	27	0	77	
Redwood Creek	BA40	MCAL	123	30	29	30	2	0	32	98	caged
Redwood Creek	BA40	MCAL	40	0	0	30	0	0	10	100	bagged
Redwood Creek	BA40	MEDU	41	0	0	31	5	0	5	88	
Alameda	BB71	CGIG	35	0	0	0	8	27	0	77	
Alameda	BB71	MCAL	108	30	30	30	3	0	15	97	
Alameda	BB71	MEDU	76	0	0	27	4	45	0	95	
Yerba Buena Island	BC10	MCAL	89	30	28	22	9	0	0	90	caged
Yerba Buena Island	BC10	MCAL	40	0	0	0	40	0	0	0	bagged (predation)
Yerba Buena Island	BC10	MEDU	80	0	0	0	80	0	0	0	predation
Horseshoe Bay	BC21	MCAL	80	15	15	30	4	16	0	95	bagged
Horseshoe Bay	BC21	MCAL	79	15	15	30	2	17	0	97	caged
Horseshoe Bay	BC21	MEDU	40	0	0	0	4	36	0	90	
Red Rock	BC60	MCAL	155	30	29	29	5	0	62	97	
Red Rock	BC60	MEDU	40	0	0	0	3	37	0	93	
Pinole Point	BD30	MEDU	40	0	0	0	1	39	0	98	
Pinole Point	BD30	MCAL	111	30	28	29	6	0	18	95	
Pinole Point	BD30	CGIG	32	0	0	0	2	30	0	94	
San Pablo Bay	BD20	CGIG	73	15	13	13	32	0	0	56	bagged
San Pablo Bay	BD20	CGIG	72	15	14	15	28	0	0	61	caged
Petaluma River	BD15	CGIG	124	25	19	24	56	0	0	55	
Petaluma River	BD15	MCAL	40	0	0	0	6	34	0	85	
Petaluma River	BD15	MEDU	40	0	0	0	4	36	0	90	
Davis Point	BD40	CGIG	139	25	22	30	46	0	16	67	
Davis Point	BD40	MCAL	40	0	0	0	1	39	0	98	
Davis Point	BD40	MEDU	40	0	0	0	0	40	0	100	
Napa River	BD50	CGIG	106	25	23	27	31	0	0	71	bagged
Napa River	BD50	CGIG	36	0	0	12	24	0	0	33	caged
Napa River	BD50	MCAL	80	0	0	0	3	77	0	96	
Napa River	BD50	MEDU	80	0	0	0	5	75	23	94	
Grizzly Bay	BF20	N/A	-	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Sacramento River	BG20	N/A	-	√ ¹	√ ¹	30	N/A	N/A	N/A	N/A	
San Joaquin River	BG30	N/A	-	√ ¹	√ ¹	30	N/A	N/A	N/A	N/A	

¹Clams for chemical analysis allocated by volume, rather than number²All bivalves bagged unless otherwise noted

Bivalve Precision Analysis

#	<i>C. gigas</i> volume (ml)	<i>M. californianus</i> volume (ml)	<i>C. fluminea</i> volume (ml)
1	50.97	19.26	7.36
2	50.98	19.29	7.27
3	50.98	19.33	7.29
4	51.05	19.31	7.30
5	51.16	19.26	7.29
6	50.95	19.30	7.29
7	50.81	19.27	7.23
8	50.86	19.26	7.30
9	50.97	19.22	7.30
10	50.94	19.27	7.38
Mean	50.97	19.28	7.30
Std. Error	0.030	0.010	0.013
Std. Dev.	0.095	0.031	0.042

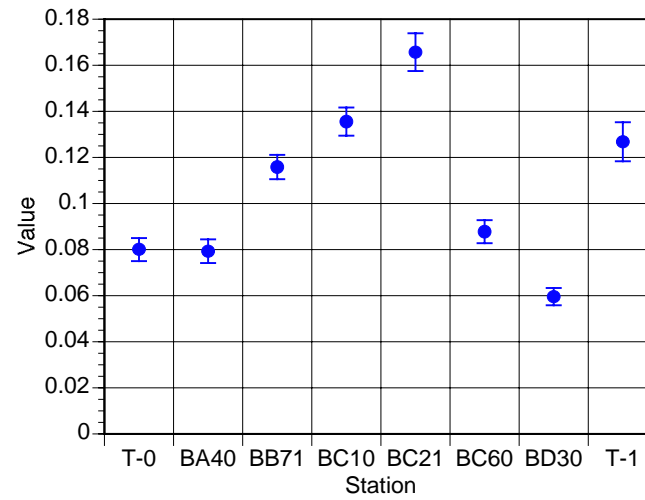
Note: Precision analysis performed by taking ten volumetric measurements on the same sealed bivalve.

Summary Statistics for *Mytilus californianus*, Condition Index

	T - 0	BA40	BB71	BC10	BC21	BC60	BD30	T-1
	Bodega Head	Redwood Cr.	Alameda	Y.B.I.	Horseshoe Bay	Red Rock	Pinole Pt.	Bodega Head
Mean	0.0801	0.0792	0.1158	0.1355	0.1657	0.0877	0.0595	0.1268
Standard Error	0.0025	0.0026	0.0026	0.0031	0.0041	0.0025	0.0019	0.0042
Median	0.0822	0.0750	0.1143	0.1358	0.1717	0.0854	0.0561	0.1285
Std. Dev.	0.0125	0.0128	0.0129	0.0150	0.0207	0.0124	0.0093	0.0212
Minimum	0.0450	0.0605	0.0919	0.1076	0.1178	0.0653	0.0492	0.0753
Maximum	0.1012	0.1091	0.1329	0.1667	0.2002	0.1248	0.0865	0.1572
Count	25	25	25	23	25	25	25	25

**Condition Index Statistics for *Mytilus californianus*,
2000 RMP Bivalve Cruise**

Condition Index = Dry Flesh Weight of All Tissue / Cavity Volume



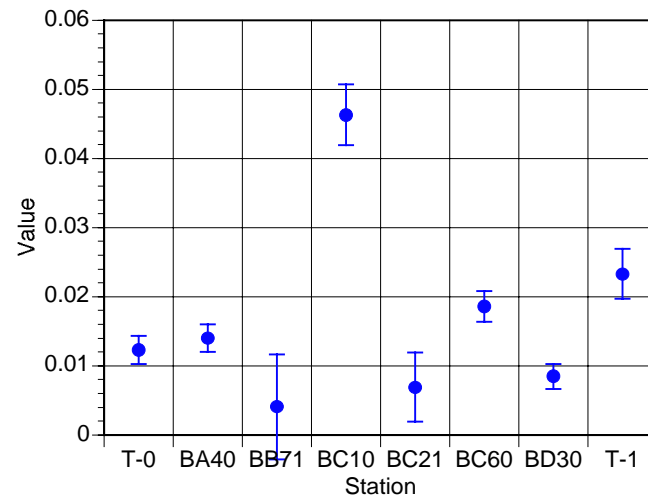
Error bars equal +/- 2 standard error

Summary Statistics for *Mytilus californianus*, Gonad Index

	T - 0 Bodega Head	BA40 Redwood Cr.	BB71 Alameda	BC10 Y.B.I.	BC21 orseshoe Bay	BC60 Red Rock	BD30 Pinole Pt.	T-1 Bodega Head
Mean CI (g/ml)	0.0123	0.0140	0.0441	0.0463	0.0669	0.0186	0.0085	0.0233
Standard Error	0.0010	0.0010	0.0038	0.0022	0.0025	0.0011	0.0009	0.0018
Median	0.0121	0.0139	0.0422	0.0474	0.0691	0.0183	0.0065	0.0249
Std. Dev.	0.0050	0.0049	0.0189	0.0106	0.0127	0.0056	0.0047	0.0090
Minimum	0.0030	0.0066	0.0147	0.0245	0.0430	0.0046	0.0013	0.0051
Maximum	0.0239	0.0294	0.0992	0.0684	0.0888	0.0318	0.0192	0.0367
Count	25	25	25	23	25	25	25	25

**Gonad Index Statistics for *Mytilus californianus*,
2000 RMP Bivalve Cruise**

Gonad Index = Dry Flesh Weight of Gonad / Cavity Volume



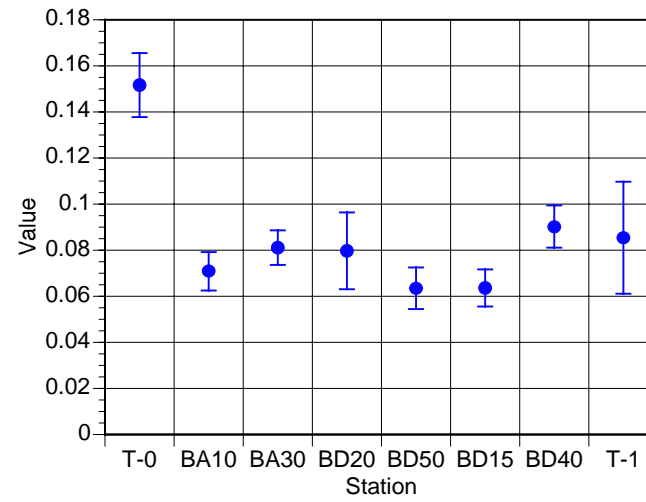
Error bars equal +/- 2 standard error

Summary Statistics for *Crassostrea gigas*, Condition Index

	T - 0	BA10	BA30	BD20	BD50	BD15	BD40	T-1
	Tomales Bay	Coyote Creek	Dumbarton Bridge	San Pablo Bay	Napa River	Petaluma River	Davis Point	Tomales Bay
Mean CI (g/ml)	0.1516	0.0709	0.0811	0.0797	0.0635	0.0636	0.0902	0.0854
Standard Error	0.0069	0.0042	0.0037	0.0083	0.0045	0.0041	0.0046	0.0121
Median	0.1625	0.0733	0.0857	0.0760	0.0591	0.0587	0.0951	0.0736
Std. Dev.	0.0347	0.0208	0.0187	0.0288	0.0226	0.0199	0.0228	0.0607
Minimum	0.0804	0.0321	0.0561	0.0392	0.0269	0.0286	0.0354	0.0491
Maximum	0.2134	0.1145	0.1354	0.1384	0.1287	0.1109	0.1278	0.3669
Count	25	25	25	12	25	24	25	25

**Condition Index Statistics for *Crassostrea gigas*,
2000 RMP Bivalve Cruise**

Condition Index = Dry Flesh Weight of All Tissue / Cavity Volume



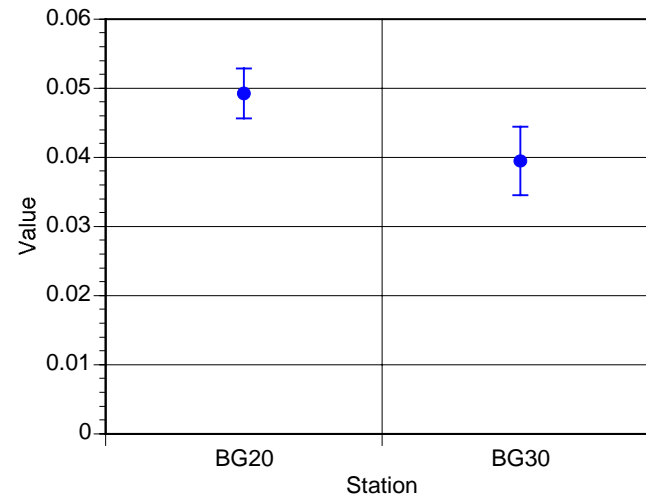
Error bars equal +/- 2 standard error

Summary Statistics for *Corbicula fluminea*, Condition Index

	BG20 Sacramento River	BG30 San Joaquin River
Mean CI (g/ml)	0.0493	0.0395
Standard Error	0.0018	0.0025
Median	0.0506	0.0398
Std. Dev.	0.0091	0.0119
Minimum	0.0286	0.0188
Maximum	0.0670	0.0744
Count	25	23

**Condition Index Statistics for *Corbicula fluminea*,
2000 RMP Bivalve Cruise**

Condition Index = Dry Flesh Weight of All Tissue/ Cavity Volume



Error bars equal +/- 2 standard error

Condition Index Statistics, 2000 RMP Bivalve Cruise

Comparison of Bagged vs. Caged Bivalves

Site Species Method	BA40 MCAL Bagged	BA40 MCAL Caged	BD20 CGIG Bagged	BD20 CGIG Caged	BD50 CGIG Bagged	BD50 CGIG Caged
Mean CI (g/ml)	0.0792	0.0742	0.0797	0.0774	0.0635	0.0646
Standard Error	0.0026	0.0020	0.0083	0.0052	0.0045	0.0048
Median	0.0750	0.0718	0.0760	0.0761	0.0591	0.0693
Std. Dev.	0.0128	0.0102	0.0288	0.0188	0.0226	0.0165
Minimum	0.0605	0.0485	0.0392	0.0454	0.0269	0.0242
Maximum	0.1091	0.0963	0.1384	0.1177	0.1287	0.0805
Count	25	25	12	13	25	12

No.	Sealed shell vol. (ml)	Open shell vol. (ml)	Dry Flesh Weight (g)	Tare (g)	Condition Index
1	17.18	7.65	4.13	2.53	0.17
2	16.16	7.43	3.83	2.53	0.15
3	19.91	8.87	4.45	2.53	0.17
4	20.68	9.20	4.34	2.53	0.16
5	23.49	10.38	4.69	2.53	0.16
6	15.24	6.57	3.53	2.53	0.12
7	32.15	17.90	4.04	2.53	0.11
8	17.55	8.14	4.36	2.53	0.19
9	18.69	8.33	3.69	2.53	0.11
10	18.16	7.60	4.42	2.53	0.18
11	27.49	13.22	4.11	2.53	0.11
12	18.64	10.30	4.31	2.53	0.21
13	29.20	12.53	5.69	2.53	0.19
14	18.11	8.36	4.31	2.53	0.18
15	19.43	9.15	4.20	2.53	0.16
16	15.74	6.77	3.86	2.53	0.15
17	19.86	10.08	3.53	2.53	0.10
18	19.86	8.79	3.42	2.53	0.08
19	16.39	7.29	3.70	2.53	0.13
20	17.33	8.08	4.21	2.53	0.18
21	21.22	9.92	4.02	2.53	0.13
22	20.30	10.37	4.19	2.53	0.17
23	26.72	12.60	5.11	2.53	0.18
24	17.18	7.81	3.61	2.53	0.12
25	22.38	8.88	4.88	2.53	0.17

Station Location: T-0
Station ID:
Sample Date: 6/29/00
Species: CGIG

CI Statistics

Mean	0.151631631
Standard Error	0.006942828
Median	0.162451362
Standard Deviation	0.034714141
Sample Variance	0.001205072
Kurtosis	-0.866165969
Skewness	-0.339413315
Range	0.133031786
Minimum	0.080397471
Maximum	0.213429257
Sum	3.79079078
Count	25

No.	Sealed shell vol. (ml)	Open shell vol. (ml)	Dry Flesh Weight (g)	Tare (g)	Condition Index
26	23.36	10.34	3.39	2.54	0.07
27	18.07	8.90	3.37	2.54	0.09
28	22.02	11.05	3.40	2.54	0.08
29	25.46	9.90	3.69	2.54	0.07
30	22.66	10.63	3.23	2.54	0.06
31	18.44	8.24	3.49	2.54	0.09
32	31.48	14.84	3.14	2.54	0.04
33	23.56	11.44	3.17	2.54	0.05
34	22.72	11.52	2.86	2.54	0.03
35	20.72	9.90	3.74	2.54	0.11
36	18.11	9.49	2.95	2.54	0.05
37	18.60	8.89	3.37	2.54	0.09
38	21.05	10.43	3.17	2.54	0.06
39	23.23	10.94	3.42	2.54	0.07
40	33.98	16.68	3.42	2.54	0.05
41	14.86	7.79	2.91	2.54	0.05
42	26.40	12.80	3.33	2.54	0.06
43	24.17	11.11	3.35	2.54	0.06
44	22.52	10.55	3.08	2.54	0.05
45	23.04	10.94	3.60	2.54	0.09
46	22.38	9.84	3.19	2.54	0.05
47	20.96	9.18	3.05	2.54	0.04
48	20.13	9.83	3.28	2.54	0.07
49	13.67	6.62	2.92	2.54	0.05

Station Location: Petaluma River
Station ID: BD15
Sample Date: 9/18/00
Species: CGIG

CI Statistics

Mean	0.063624009
Standard Error	0.004058675
Median	0.058705135
Standard Deviation	0.019883366
Sample Variance	0.000395348
Kurtosis	-0.0249576
Skewness	0.539408736
Range	0.082334302
Minimum	0.028571429
Maximum	0.11090573
Sum	1.526976205
Count	24

No.	Sealed shell vol. (ml)	Open shell vol. (ml)	Dry Flesh Weight (g)	Tare (g)	Condition Index
51	22.24	10.59	3.35	2.55	0.07
52	16.59	7.92	2.89	2.55	0.04
53	23.69	12.31	3.25	2.55	0.06
54	24.53	13.41	3.39	2.55	0.08
55	33.16	17.84	4.07	2.55	0.10
56	26.25	12.23	4.49	2.55	0.14
57	27.53	14.80	3.33	2.55	0.06
58	19.26	10.03	3.43	2.55	0.10
59	24.18	12.19	3.61	2.55	0.09
60	26.45	10.82	3.19	2.55	0.04
61	18.29	8.34	3.31	2.55	0.08
62	27.78	13.06	4.19	2.55	0.11

Station Location: San Pablo Bay **Bagged**
Station ID: BD20
Sample Date: 9/18/00
Species: CGIG

CI Statistics

Mean	0.079690782
Standard Error	0.008307926
Median	0.075960739
Standard Deviation	0.0287795
Sample Variance	0.00082826
Kurtosis	0.160789627
Skewness	0.493261403
Range	0.099158066
Minimum	0.039215686
Maximum	0.138373752
Sum	0.956289387
Count	12

No.	Sealed shell vol. (ml)	Open shell vol. (ml)	Dry Flesh Weight (g)	Tare (g)	Condition Index
76	19.79	9.07	3.58	2.55	0.10
77	24.62	11.35	3.51	2.55	0.07
78	18.45	8.6	3.35	2.55	0.08
79	26.18	12.17	3.58	2.55	0.07
80	34.08	16.29	3.92	2.55	0.08
81	20.09	8.27	3.3	2.55	0.06
82	16.09	6.34	2.95	2.55	0.04
83	25.48	16.33	3.51	2.55	0.10
84	19.54	10.44	3.25	2.55	0.08
85	17.82	8.88	3.29	2.55	0.08
86	17.08	8.36	2.83	2.55	0.03
87	19.61	8.7	3.26	2.55	0.07
88	22.46	11.04	3.21	2.55	0.06
89	20.84	8.88	3.44	2.55	0.07
90	21.9	9.28	3.41	2.55	0.07
91	25.22	12.98	3.4	2.55	0.07
92	19.97	9.58	3.74	2.55	0.11
93	32.05	14.84	4.17	2.55	0.09
94	31.17	16.04	3.75	2.55	0.08
95	28.39	15.93	3	2.55	0.04
96	21.79	10.86	3.12	2.55	0.05
97	18.51	8.43	3.22	2.55	0.07
98	22.36	11.17	3.37	2.55	0.07
99	15.83	7.84	2.83	2.55	0.04
100	18.67	9.74	3.31	2.55	0.09

Station Location: Coyote Creek
Station ID: BA10
Sample Date: 9/20/00
Species: CGIG

CI Statistics

Mean	0.070895691
Standard Error	0.0041614
Median	0.073279714
Standard Deviation	0.020807001
Sample Variance	0.000432931
Kurtosis	0.032370729
Skewness	-0.125395044
Range	0.082423113
Minimum	0.032110092
Maximum	0.114533205
Sum	1.77239227
Count	25

No.	Sealed shell vol. (ml)	Open shell vol. (ml)	Dry Flesh Weight (g)	Tare (g)	Condition Index
101	31.16	15.59	4.3	2.53	0.11
102	28.1	15.98	3.98	2.53	0.12
103	23.53	11.68	3.82	2.53	0.11
104	18.35	8.79	3.06	2.53	0.06
105	41.07	19.45	4.43	2.53	0.09
106	34.68	17.55	3.91	2.53	0.08
107	35.65	18.71	4.29	2.53	0.10
108	16.37	8.01	3.01	2.53	0.06
109	17.22	8.75	3.02	2.53	0.06
110	24.72	10.99	3.84	2.53	0.10
111	21.98	10.95	2.92	2.53	0.04
112	49.41	29.45	5.08	2.53	0.13
113	25.03	12.18	3.9	2.53	0.11
114	23.64	11.28	3.8	2.53	0.10
115	35.32	17.29	4.07	2.53	0.09
116	21.66	9.88	3.65	2.53	0.10
117	24.53	12.59	3.4	2.53	0.07
118	32.82	15.01	4.26	2.53	0.10
119	37.5	18.5	4.62	2.53	0.11
120	24.11	11.48	3.9	2.53	0.11
121	29.94	14.83	3.51	2.53	0.06
122	32.34	15.12	4.14	2.53	0.09
123	24.94	11.75	3.54	2.53	0.08
124	27.64	14.58	3.72	2.53	0.09
125	35.78	19.15	4.30	2.53	0.11

Station Location: Davis Point
Station ID: BD40
Sample Date: 9/21/00
Species: CGIG

CI Statistics

Mean	0.090182188
Standard Error	0.004560346
Median	0.095076401
Standard Deviation	0.022801732
Sample Variance	0.000519919
Kurtosis	-0.063490676
Skewness	-0.667561103
Range	0.092397397
Minimum	0.035358114
Maximum	0.127755511
Sum	2.254554693
Count	25

No.	Sealed shell vol. (ml)	Open shell vol. (ml)	Dry Flesh Weight (g)	Tare (g)	Condition Index
126	17.3	7.29	3.07	2.54	0.05
127	36.33	17.3	3.53	2.54	0.05
128	20.04	8.51	3.35	2.54	0.07
129	20.98	10.07	3.31	2.54	0.07
130	19.51	8.67	3.27	2.54	0.07
131	25.31	11.17	3.29	2.54	0.05
132	22.35	11.02	3.45	2.54	0.08
133	20.75	10.01	3.37	2.54	0.08
134	16.08	7.75	3.11	2.54	0.07
135	18.88	8.94	3.34	2.54	0.08
136	20.4	6.76	2.87	2.54	0.02
137	17.8	7.81	3.32	2.54	0.08

Station Location: Napa River Caged
Station ID: BD50
Sample Date: 9/21/00
Species: CGIG

CI Statistics

Mean	0.064580347
Standard Error	0.00476086
Median	0.069339444
Standard Deviation	0.016492103
Sample Variance	0.000271989
Kurtosis	2.161824964
Skewness	-1.412066481
Range	0.056289349
Minimum	0.024193548
Maximum	0.080482897
Sum	0.774964163
Count	12

No.	Sealed shell vol. (ml)	Open shell vol. (ml)	Dry Flesh Weight (g)	Tare (g)	Condition Index
151	31.89	10.7	4.1	2.54	0.07
152	49.25	19.48	4.89	2.54	0.08
153	34.43	14.05	4.01	2.54	0.07
154	30.65	12.34	3.66	2.54	0.06
155	36.68	14.8	4.25	2.54	0.08
156	36.3	16.42	4.26	2.54	0.09
157	25.55	8.61	3.4	2.54	0.05
158	36.57	15.16	4.58	2.54	0.10
159	30.18	10.63	3.81	2.54	0.06
160	20.84	15.47	4.51	2.54	0.37
161	42.78	16.16	4.33	2.54	0.07
162	36.95	16.01	3.95	2.54	0.07
163	34.34	14.44	3.53	2.54	0.05
164	30.62	11.46	4.27	2.54	0.09
165	27.41	11.49	4.19	2.54	0.10
166	33.55	13.99	3.5	2.54	0.05
167	26.47	11.39	3.78	2.54	0.08
168	33.92	12.47	3.81	2.54	0.06
169	33.27	14.92	3.71	2.54	0.06
170	39.85	16.06	4.7	2.54	0.09
171	39.12	15.35	3.84	2.54	0.05
172	35.55	13.66	3.92	2.54	0.06
173	29.77	12.2	4.1	2.54	0.09
174	25.3	11.72	3.88	2.54	0.10
175	30.34	14.00	3.82	2.54	0.08

Station Location: T-1
Station ID:
Sample Date: 10/19/00
Species: CGIG

CI Statistics

Mean	0.085410267
Standard Error	0.01213844
Median	0.073619632
Standard Deviation	0.060692198
Sample Variance	0.003683543
Kurtosis	21.365122
Skewness	4.468934782
Range	0.317773132
Minimum	0.049079755
Maximum	0.366852886
Sum	2.135256681
Count	25

No.	Sealed shell vol. (ml)	Open shell vol. (ml)	Dry Flesh Weight (g)	Tare (g)	Condition Index
176	26.31	13.42	3.25	2.53	0.06
177	14.87	7.07	2.97	2.53	0.06
178	18.84	7.41	3.24	2.53	0.06
179	30.27	13	4.15	2.53	0.09
180	15.11	6.93	2.99	2.53	0.06
181	17.87	8.58	2.78	2.53	0.03
182	22.94	8.67	3.78	2.53	0.09
183	20.28	10.38	3.27	2.53	0.07
184	24.36	11.62	3.07	2.53	0.04
185	14.88	6.07	2.88	2.53	0.04
186	18.9	9.41	3.04	2.53	0.05
187	21.15	10.42	3.35	2.53	0.08
188	20.58	11.28	3.12	2.53	0.06
189	17.46	8.72	2.92	2.53	0.04
190	23.43	11.5	3.38	2.53	0.07
191	18.51	8.4	2.98	2.53	0.04
192	17.81	8.98	3.09	2.53	0.06
193	22.57	10.72	3.55	2.53	0.09
194	15.39	7.12	2.79	2.53	0.03
195	22.48	10.13	3.26	2.53	0.06
196	20.26	9.09	3.1	2.53	0.05
197	18.86	8.7	3.27	2.53	0.07
198	20.26	11.79	3.62	2.53	0.13
199	21.97	14.08	3.26	2.53	0.09
200	18.16	8.13	3.05	2.53	0.05

Station Location: Napa River **Bagged**
Station ID: BD50
Sample Date: 9/21/00
Species: CGIG

CI Statistics

Mean	0.063469654
Standard Error	0.004510189
Median	0.059109312
Standard Deviation	0.022550947
Sample Variance	0.000508545
Kurtosis	1.547541895
Skewness	0.934721156
Range	0.101778836
Minimum	0.026910657
Maximum	0.128689492
Sum	1.58674134
Count	25

No.	Sealed shell vol. (ml)	Open shell vol. (ml)	Dry Flesh Weight (g)	Tare (g)	Condition Index
201	23.1	10.44	4.03	2.54	0.12
202	24.23	16.06	3.37	2.54	0.10
203	28.65	14.14	3.56	2.54	0.07
204	26.85	13.67	3.64	2.54	0.08
205	28.85	15.41	3.45	2.54	0.07
206	17.86	9.97	3.01	2.54	0.06
207	27.92	12.82	3.44	2.54	0.06
208	31.45	16.71	3.86	2.54	0.09
209	23.99	11.89	3.52	2.54	0.08
210	26.33	13.62	3.49	2.54	0.07
211	23.46	12.42	3.38	2.54	0.08
212	19.31	9.8	3.3	2.54	0.08
213	18.34	9.31	2.95	2.54	0.05

Station Location: San Pablo Bay Caged
Station ID: BD20
Sample Date: 9/18/00
Species: CGIG

CI Statistics

Mean	0.077432017
Standard Error	0.005203538
Median	0.076086957
Standard Deviation	0.018761623
Sample Variance	0.000351998
Kurtosis	0.811070686
Skewness	0.535348533
Range	0.072289315
Minimum	0.045404208
Maximum	0.117693523
Sum	1.006616215
Count	13

No.	Sealed shell vol. (ml)	Open shell vol. (ml)	Dry Flesh Weight (g)	Tare (g)	Condition Index
226	22.81	10.95	3.34	2.56	0.07
227	20.98	11.08	3.9	2.56	0.14
228	23.72	12.69	3.26	2.56	0.06
229	24.26	11.85	3.65	2.56	0.09
230	27.10	13.41	3.54	2.56	0.07
231	22.18	12.22	3.53	2.56	0.10
232	15.69	6.96	3.22	2.56	0.08
233	16.04	8.39	3.22	2.56	0.09
234	26.63	13.68	3.67	2.56	0.09
235	19.97	9.79	3.45	2.56	0.09
236	23.78	10.35	3.96	2.56	0.10
237	29.3	15.65	3.82	2.56	0.09
238	28.71	15.25	3.4	2.56	0.06
239	23.5	11.12	3.63	2.56	0.09
240	26.36	13.31	3.62	2.56	0.08
241	16.5	7.77	3.05	2.56	0.06
242	26.21	13.11	3.93	2.56	0.10
243	23.95	11.22	3.36	2.56	0.06
244	25.35	11.83	3.39	2.56	0.06
245	21.39	11.17	3.47	2.56	0.09
246	23.35	10.96	3.73	2.56	0.09
247	30.51	13.31	4.12	2.56	0.09
248	33.47	15.35	3.72	2.56	0.06
249	22.07	11.75	3.15	2.56	0.06
250	23.75	10.05	3.45	2.56	0.06

Station Location: Dumbarton Bridge
Station ID: BA30
Sample Date: 9/20/00
Species: CGIG

CI Statistics

Mean	0.081131464
Standard Error	0.003742231
Median	0.085714286
Standard Deviation	0.018711156
Sample Variance	0.000350107
Kurtosis	1.296453648
Skewness	0.869861153
Range	0.079225242
Minimum	0.056128293
Maximum	0.135353535
Sum	2.028286606
Count	25

No.	Sealed shell vol. (ml)	Open shell vol. (ml)	Dry Flesh Weight (g)	DFW Tare (g)	Gonad DFW (g)	Gonad Tare (g)	Condition Index	Gonad Index	Shell Length (mm)
251	16.57	5.56	3.18	2.55	2.62	2.55	0.06	0.01	61.19
252	18.06	7.11	3.36	2.55	2.64	2.55	0.08	0.01	61.86
253	15.37	5.26	3.24	2.55	2.74	2.55	0.09	0.02	58.62
254	14.97	4.97	2.97	2.55	2.58	2.55	0.05	0.00	53.31
255	15.04	5.95	3.29	2.55	2.73	2.55	0.10	0.02	57.10
256	11.79	4.97	3.09	2.55	2.65	2.55	0.09	0.01	51.60
257	22.46	5.95	3.51	2.55	2.75	2.55	0.07	0.01	69.69
258	18.18	6.46	3.41	2.55	2.76	2.55	0.09	0.02	60.55
259	18.94	6.79	3.44	2.55	2.71	2.55	0.09	0.01	58.15
260	21.61	7.03	3.41	2.55	2.68	2.55	0.07	0.01	66.02
261	22.82	6.79	3.53	2.55	2.67	2.55	0.07	0.01	68.31
262	21.44	7.24	3.60	2.55	2.74	2.55	0.09	0.01	63.81
263	18.93	6.11	3.46	2.55	2.64	2.55	0.08	0.01	63.40
264	17.15	5.68	3.31	2.55	2.72	2.55	0.08	0.01	64.03
265	22.40	6.88	3.63	2.55	2.73	2.55	0.08	0.01	69.41
266	17.85	5.77	3.36	2.55	2.66	2.55	0.08	0.01	57.55
267	10.90	3.23	3.08	2.55	2.68	2.55	0.09	0.02	55.04
268	13.30	4.34	3.13	2.55	2.71	2.55	0.08	0.02	55.17
269	14.02	4.74	3.19	2.55	2.63	2.55	0.08	0.01	56.01
270	17.59	5.50	3.52	2.55	2.71	2.55	0.09	0.01	62.26
271	21.84	7.19	3.52	2.55	2.90	2.55	0.09	0.02	64.53
272	21.72	6.68	3.39	2.55	2.67	2.55	0.06	0.01	65.56
273	14.51	5.48	3.24	2.55	2.69	2.55	0.09	0.02	59.06
274	20.26	8.32	3.47	2.55	2.67	2.55	0.09	0.01	68.29
275	15.08	5.05	3.15	2.55	2.63	2.55	0.07	0.01	57.56

Station Location: T-0
 Station ID:
 Sample Date: 6/23/00
 Species: MCAL

CI Statistics

Mean	0.08006218
Standard Error	0.002496754
Median	0.082191781
Standard Deviation	0.012483769
Sample Variance	0.000155844
Kurtosis	1.103842389
Skewness	-0.881716532
Range	0.056210121
Minimum	0.045
Maximum	0.101210121
Sum	2.001554503
Count	25

No.	Sealed shell vol. (ml)	Open shell vol. (ml)	Dry Flesh Weight (g)	DFW Tare (g)	Gonad DFW (g)	Gonad Tare (g)	Condition Index	Gonad Index	Shell Length (mm)
276	22.48	8.98	3.42	2.54	2.70	2.54	0.08	0.01	62.10
277	27.21	10.83	3.48	2.54	2.70	2.54	0.07	0.01	68.11
278	16.98	5.31	3.34	2.54	2.78	2.54	0.09	0.02	60.01
279	23.87	8.46	3.46	2.54	2.69	2.54	0.07	0.01	68.29
280	19.65	7.00	3.24	2.54	2.70	2.54	0.07	0.01	59.88
281	18.22	8.98	3.27	2.54	2.68	2.54	0.09	0.02	58.98
282	28.40	9.52	3.66	2.54	2.71	2.54	0.07	0.01	69.57
283	22.06	8.58	3.37	2.54	2.62	2.54	0.07	0.01	61.09
284	17.57	5.24	3.25	2.54	2.66	2.54	0.07	0.01	60.33
285	25.50	7.54	3.56	2.54	2.78	2.54	0.07	0.01	69.95
286	19.67	6.81	3.24	2.54	2.67	2.54	0.06	0.01	62.43
287	18.47	6.04	3.40	2.54	2.69	2.54	0.08	0.01	65.40
288	22.75	7.21	3.46	2.54	2.79	2.54	0.08	0.02	65.33
289	20.56	8.01	3.12	2.54	2.57	2.54	0.05	0.00	61.07
290	15.83	5.80	3.25	2.54	2.69	2.54	0.09	0.01	55.92
291	17.70	6.18	3.28	2.54	2.69	2.54	0.08	0.01	55.78
292	27.45	9.01	3.60	2.54	2.79	2.54	0.07	0.01	68.73
293	23.25	7.38	3.48	2.54	2.72	2.54	0.07	0.01	65.02
294	12.79	4.17	3.16	2.54	2.75	2.54	0.10	0.02	53.95
295	19.69	6.45	3.40	2.54	2.70	2.54	0.08	0.01	59.83
296	16.15	5.28	3.20	2.54	2.59	2.54	0.07	0.00	59.54
297	16.90	6.52	3.30	2.54	2.61	2.54	0.08	0.01	61.47
298	18.79	6.96	3.27	2.54	2.66	2.54	0.07	0.01	60.76
299	17.86	6.33	3.26	2.54	2.69	2.54	0.08	0.01	57.04
300	15.59	5.78	3.20	2.54	2.64	2.54	0.08	0.01	54.35

Station Location: Redwood Creek Caged
Station ID: BA40
Sample Date: 9/20/00
Species: MCAL

CI Statistics

Mean	0.074232018
Standard Error	0.002032135
Median	0.071851226
Standard Deviation	0.010160674
Sample Variance	0.000103239
Kurtosis	1.241193797
Skewness	0.163511594
Range	0.047761807
Minimum	0.048525896
Maximum	0.096287703
Sum	1.855800456
Count	25

No.	Sealed shell vol. (ml)	Open shell vol. (ml)	Dry Flesh Weight (g)	DFW Tare (g)	Gonad DFW (g)	Gonad Tare (g)	Condition Index	Gonad Index	Shell Length (mm)
301	20.06	6.67	3.23	2.51	2.71	2.51	0.07	0.01	62.69
302	10.25	4.75	2.97	2.51	2.63	2.51	0.11	0.02	49.59
303	25.16	7.81	3.46	2.51	2.83	2.51	0.07	0.02	67.55
304	18.89	6.50	3.23	2.51	2.65	2.51	0.07	0.01	59.82
305	14.11	5.95	3.16	2.51	2.75	2.51	0.11	0.03	53.98
306	28.84	9.77	3.58	2.51	2.78	2.51	0.07	0.01	72.67
307	16.72	5.20	3.16	2.51	2.61	2.51	0.07	0.01	58.78
308	14.20	6.79	3.13	2.51	2.63	2.51	0.10	0.02	57.16
309	23.88	7.52	3.36	2.51	2.65	2.51	0.06	0.01	67.27
310	20.96	7.29	3.33	2.51	2.69	2.51	0.07	0.01	64.96
311	12.50	4.56	3.11	2.51	2.65	2.51	0.09	0.02	54.66
312	14.47	4.99	3.17	2.51	2.66	2.51	0.09	0.02	55.88
313	17.56	5.89	3.22	2.51	2.69	2.51	0.08	0.02	59.52
314	21.04	9.19	3.44	2.51	2.67	2.51	0.09	0.01	66.66
315	15.83	5.12	3.17	2.51	2.67	2.51	0.08	0.01	57.58
316	22.67	7.16	3.39	2.51	2.66	2.51	0.07	0.01	62.97
317	14.02	4.95	3.08	2.51	2.62	2.51	0.07	0.01	55.11
318	17.52	5.65	3.16	2.51	2.65	2.51	0.07	0.01	56.91
319	18.24	6.65	3.30	2.51	2.69	2.51	0.08	0.02	51.80
320	15.64	6.18	3.17	2.51	2.62	2.51	0.08	0.01	53.84
321	18.52	7.01	3.36	2.51	2.67	2.51	0.09	0.01	57.39
322	17.58	6.01	3.27	2.51	2.61	2.51	0.07	0.01	60.88
323	13.26	4.2	3.11	2.51	2.57	2.51	0.07	0.01	54.22
324	24.38	9.41	3.45	2.51	2.63	2.51	0.07	0.01	65.02
325	20.10	7.65	3.32	2.51	2.72	2.51	0.08	0.02	59.45

Station Location: Redwood Creek Bagged
Station ID: BA40
Sample Date: 9/20/00
Species: MCAL

CI Statistics

Mean	0.079155368
Standard Error	0.00255276
Median	0.074972437
Standard Deviation	0.012763801
Sample Variance	0.000162915
Kurtosis	0.184683715
Skewness	0.91800721
Range	0.04855518
Minimum	0.060513447
Maximum	0.109068627
Sum	1.978884204
Count	25

No.	Sealed shell vol. (ml)	Open shell vol. (ml)	Dry Flesh Weight (g)	DFW Tare (g)	Gonad DFW (g)	Gonad Tare (g)	Condition Index	Gonad Index	Shell Length (mm)
326	17.13	6.57	3.44	2.52	3	2.52	0.13	0.05	58.70
327	14.25	5.09	3.22	2.52	2.95	2.52	0.12	0.05	55.10
328	19.26	6.84	3.53	2.52	3	2.52	0.12	0.04	60.65
329	19.9	3.47	3.5	2.52	3.05	2.52	0.09	0.03	61.64
330	16.15	5.87	3.35	2.52	2.82	2.52	0.11	0.03	58.43
331	15.61	5.55	3.38	2.52	2.78	2.52	0.11	0.03	57.72
332	18.1	6.35	3.49	2.52	2.79	2.52	0.11	0.02	56.86
333	18.39	5.47	3.69	2.52	3	2.52	0.13	0.04	62.88
334	15.99	5.26	3.65	2.52	2.8	2.52	0.13	0.03	58.68
335	22.84	7.62	3.5	2.52	3.12	2.52	0.10	0.04	63.33
336	13.69	4.35	3.48	2.52	2.7	2.52	0.12	0.02	55.54
337	17.14	4.55	3.67	2.52	2.99	2.52	0.13	0.04	63.95
338	17.72	5.44	3.31	2.52	2.99	2.52	0.10	0.04	61.54
339	17.04	5.75	3.5	2.52	3.01	2.52	0.13	0.04	60.02
340	26.83	8.2	3.82	2.52	3.35	2.52	0.11	0.04	65.75
341	21.65	7.51	3.51	2.52	3.06	2.52	0.11	0.04	64.38
342	14.92	4.66	3.41	2.52	2.91	2.52	0.12	0.04	58.48
343	24.13	8.13	3.62	2.52	2.93	2.52	0.09	0.03	66.24
344	24.85	7.46	3.97	2.52	2.95	2.52	0.11	0.02	70.49
345	15.11	4.96	3.34	2.52	2.81	2.52	0.11	0.03	58.14
346	21.6	8.08	3.56	2.52	3.2	2.52	0.13	0.05	62.74
347	21.61	7.59	3.75	2.52	3.1	2.52	0.13	0.04	64.06
348	13.7	5.05	3.29	2.52	2.9	2.52	0.13	0.04	56.62
349	16.07	5.33	3.29	2.52	2.93	2.52	0.11	0.04	69.00
350	22.72	8.13	3.51	2.52	2.91	2.52	0.09	0.03	67.65

Station Location: Alameda
Station ID: BB71
Sample Date: 9/20/00
Species: MCAL

CI Statistics

Mean	0.115756824
Standard Error	0.002578362
Median	0.114331723
Standard Deviation	0.012891812
Sample Variance	0.000166199
Kurtosis	-1.117219259
Skewness	-0.287266718
Range	0.041042925
Minimum	0.091905052
Maximum	0.132947977
Sum	2.893920606
Count	25

No.	Sealed shell vol. (ml)	Open shell vol. (ml)	Dry Flesh Weight (g)	DFW Tare (g)	Gonad DFW (g)	Gonad Tare (g)	Condition Index	Gonad Index	Shell Length (mm)
351	15.37	5.46	3.4	2.5	3.04	2.5	0.15	0.05	57.80
352	25.73	8.71	3.98	2.5	3.45	2.5	0.14	0.06	72.10
353	21.08	7.02	3.84	2.5	3.22	2.5	0.15	0.05	56.58
354	23.26	7.14	3.914	2.5	3.35	2.5	0.14	0.05	68.92
355	16.1	5.57	3.41	2.5	3.02	2.5	0.14	0.05	56.71
356	14.51	5.15	3.42	2.5	3.14	2.5	0.17	0.07	54.47
357	27.91	9.82	3.88	2.5	3.5	2.5	0.13	0.06	69.00
358	16.04	5.12	3.32	2.5	2.95	2.5	0.12	0.04	57.88
359	16.45	5.02	3.45	2.5	2.78	2.5	0.11	0.02	60.97
360	18.12	5.79	3.47	2.5	2.91	2.5	0.11	0.03	58.36
361	17.25	6.01	3.53	2.5	3.1	2.5	0.15	0.05	58.40
362	21.43	6.3	3.71	2.5	2.96	2.5	0.11	0.03	65.55
363	22.75	8.1	3.86	2.5	3.03	2.5	0.13	0.04	68.38
364	18.84	5.66	3.6	2.5	3.15	2.5	0.13	0.05	64.34
365	22.5	6.35	3.77	2.5	3.44	2.5	0.14	0.06	68.46
366	16.76	5.99	3.57	2.5	3.01	2.5	0.15	0.05	60.43
367	17.29	5.64	3.56	2.5	3	2.5	0.13	0.04	60.27
368	19.64	7.12	3.83	2.5	3.09	2.5	0.15	0.05	60.73
369	20.78	6.64	3.84	2.5	3.04	2.5	0.13	0.04	65.88
370	25.37	8.84	3.93	2.5	3.02	2.5	0.12	0.03	66.28
371	15.88	4.99	3.58	2.5	3.12	2.5	0.16	0.06	61.30
372	16.38	5.73	3.53	2.5	2.98	2.5	0.14	0.05	53.01
373	16.58	5.3	3.55	2.5	2.98	2.5	0.14	0.04	59.27

Station Location: Yerba Buena Island
Station ID: BC10
Sample Date: 9/19/00
Species: MCAL

CI Statistics

Mean	0.135536971
Standard Error	0.00313783
Median	0.135802469
Standard Deviation	0.015048505
Sample Variance	0.000226458
Kurtosis	-0.165972645
Skewness	-0.204940821
Range	0.059055118
Minimum	0.107611549
Maximum	0.166666667
Sum	3.117350322
Count	23

No.	Sealed shell vol. (ml)	Open shell vol. (ml)	Dry Flesh Weight (g)	DFW Tare (g)	Gonad DFW (g)	Gonad Tare (g)	Condition Index	Gonad Index	Shell Length (mm)
376	21.72	7.25	3.47	2.58	3.04	2.58	0.09	0.03	66.88
377	16.34	5.38	3.41	2.58	2.79	2.58	0.09	0.02	58.93
378	17.55	6.27	3.4	2.58	2.79	2.58	0.09	0.02	61.08
379	25.84	6.81	3.83	2.58	3.04	2.53	0.09	0.03	73.64
380	21.1	7.46	3.38	2.53	2.78	2.53	0.08	0.02	60.65
381	17.34	5.62	3.35	2.53	2.78	2.53	0.09	0.02	57.53
382	16.86	5.33	3.29	2.53	2.73	2.53	0.08	0.02	58.38
383	13.17	3.89	3.13	2.53	2.7	2.53	0.08	0.02	58.27
384	15.95	5.01	3.36	2.53	2.74	2.53	0.10	0.02	58.27
385	16.57	4.63	3.28	2.53	2.64	2.53	0.07	0.01	57.35
386	20.41	6.48	3.33	2.53	2.7	2.53	0.07	0.01	58.76
387	13.7	5.61	3.42	2.53	2.65	2.53	0.12	0.01	60.91
388	24.47	8.37	3.56	2.53	2.81	2.53	0.08	0.02	59.32
389	23.73	7.2	3.56	2.53	2.87	2.53	0.08	0.02	67.62
390	19.28	5.77	3.49	2.53	2.86	2.53	0.10	0.02	63.15
391	13.76	4.85	3.2	2.53	2.71	2.53	0.10	0.02	56.90
392	17.29	5.7	3.33	2.53	2.72	2.53	0.09	0.02	63.44
393	14.5	5.12	3.29	2.53	2.78	2.53	0.11	0.03	55.22
394	17.41	5.5	3.33	2.53	2.7	2.53	0.08	0.01	61.37
395	22.29	7.05	3.45	2.53	2.79	2.53	0.08	0.02	65.17
396	14.22	4.06	3.22	2.53	2.69	2.53	0.08	0.02	59.40
397	23.87	8.00	3.49	2.53	2.80	2.53	0.08	0.02	66.43
398	17.34	5.88	3.41	2.53	2.78	2.53	0.10	0.02	59.82
399	17.51	6.63	3.19	2.53	2.58	2.53	0.07	0.00	61.47
400	21.22	6.91	3.49	2.53	2.84	2.53	0.09	0.02	63.47

Station Location: Red Rock
Station ID: BC61
Sample Date: 9/19/00
Species: MCAL

CI Statistics

Mean	0.087704167
Standard Error	0.002485224
Median	0.085418464
Standard Deviation	0.01242612
Sample Variance	0.000154408
Kurtosis	2.289477112
Skewness	0.89994778
Range	0.059588135
Minimum	0.065257353
Maximum	0.124845488
Sum	2.192604182
Count	25

No.	Sealed shell vol. (ml)	Open shell vol. (ml)	Dry Flesh Weight (g)	DFW Tare (g)	Gonad DFW (g)	Gonad Tare (g)	Condition Index	Gonad Index	Shell Length (mm)
401	22.92	6.33	3.46	2.57	2.83	2.57	0.07	0.02	65.32
402	11.4	3.7	2.95	2.57	2.58	2.57	0.05	0.00	53.46
403	20.48	6.62	3.29	2.57	2.65	2.57	0.06	0.01	62.11
404	25.32	8.66	3.45	2.57	2.75	2.57	0.06	0.01	64.92
405	14.6	4.62	3.07	2.57	2.63	2.57	0.06	0.01	54.46
406	17.91	6	3.25	2.57	2.7	2.57	0.07	0.01	58.01
407	18.96	3.34	3.26	2.57	2.65	2.57	0.05	0.01	61.50
408	15.73	4.89	3.14	2.57	2.64	2.57	0.06	0.01	57.82
409	28.78	9.14	3.45	2.57	2.66	2.57	0.05	0.00	69.86
410	27.09	4.34	3.68	2.57	2.83	2.57	0.06	0.01	70.27
411	15.78	4.91	3.11	2.57	2.6	2.55	0.05	0.00	56.86
412	17.18	5.58	3.12	2.55	2.59	2.55	0.05	0.00	60.05
413	18.6	6.18	3.17	2.55	2.61	2.55	0.05	0.00	63.28
414	17.33	5.74	3.14	2.55	2.6	2.55	0.06	0.00	59.90
415	25.26	7.59	3.08	2.55	2.89	2.55	0.05	0.02	69.26
416	14.36	4.81	3.05	2.55	2.58	2.55	0.06	0.00	55.04
417	20.48	6.76	3.29	2.55	2.68	2.55	0.06	0.01	61.73
418	26.46	8.72	3.36	2.55	2.72	2.55	0.06	0.01	69.53
419	11.87	4.47	3.08	2.55	2.66	2.55	0.09	0.01	51.35
420	19.68	6.7	3.23	2.55	2.77	2.55	0.07	0.02	60.33
421	18.14	5.85	3.12	2.55	2.62	2.55	0.05	0.01	60.89
422	17.25	5.52	3.2	2.55	2.65	2.55	0.06	0.01	60.20
423	21.05	7.92	3.42	2.55	2.71	2.55	0.08	0.01	61.99
424	17.36	5.75	3.09	2.55	2.62	2.55	0.05	0.01	58.11
425	18.99	5.93	3.2	2.55	2.69	2.55	0.06	0.01	61.32

Station Location: Pinole Point
Station ID: BD30
Sample Date: 9/20/00
Species: MCAL

CI Statistics

Mean	0.059476686
Standard Error	0.001855127
Median	0.056112224
Standard Deviation	0.009275637
Sample Variance	8.60374E-05
Kurtosis	1.897931558
Skewness	1.354698451
Range	0.037250493
Minimum	0.049235993
Maximum	0.086486486
Sum	1.486917143
Count	25

No.	Sealed shell vol. (ml)	Open shell vol. (ml)	Dry Flesh Weight (g)	DFW Tare (g)	Gonad DFW (g)	Gonad Tare (g)	Condition Index	Gonad Index	Shell Length (mm)
426	22.03	8.42	4.12	2.48	2.98	2.48	0.16	0.04	59.02
427	20.06	7.74	3.92	2.48	2.92	2.48	0.15	0.04	57.66
428	26.65	8.69	4.08	2.48	3.01	2.48	0.12	0.03	64.00
429	23.57	8.31	4.11	2.49	2.94	2.49	0.14	0.03	60.69
430	28.98	10.38	4.33	2.49	3.04	2.49	0.13	0.03	67.48
431	30.27	10.83	4.6	2.49	3.19	2.49	0.14	0.04	70.48
432	16.06	6.42	3.46	2.49	2.66	2.49	0.12	0.02	53.87
433	15.96	6.34	3.72	2.49	2.73	2.49	0.15	0.02	54.40
434	27.97	13.02	3.57	2.49	2.69	2.49	0.09	0.01	60.70
435	21.83	10.09	3.56	2.49	2.55	2.49	0.10	0.01	61.47
436	20.13	7.39	3.6	2.49	2.62	2.49	0.10	0.01	59.66
437	16.55	7.17	3.65	2.49	2.62	2.49	0.14	0.01	54.94
438	17.86	6.5	3.68	2.49	2.73	2.49	0.13	0.02	57.03
439	22.86	8.61	3.98	2.49	2.9	2.56	0.13	0.02	63.39
440	18.67	7.23	3.82	2.56	2.92	2.56	0.14	0.03	57.11
441	25.41	9.01	4.31	2.56	3.01	2.56	0.13	0.03	65.43
442	19.16	7.08	3.99	2.56	2.97	2.56	0.15	0.03	55.47
443	29.37	9.71	3.9	2.56	2.7	2.56	0.08	0.01	69.88
444	19.44	7.47	3.72	2.56	2.88	2.56	0.12	0.03	57.77
445	19.64	7.69	3.98	2.56	2.86	2.56	0.14	0.03	55.33
446	18.64	6.65	3.74	2.56	2.84	2.56	0.12	0.02	57.42
447	23.79	8.91	4.07	2.56	2.87	2.56	0.12	0.02	62.70
448	23.89	8.08	4.06	2.56	2.79	2.56	0.11	0.01	63.49
449	16.83	5.93	3.78	2.56	2.75	2.56	0.13	0.02	53.53
450	16.77	6.47	3.7	2.56	2.83	2.56	0.14	0.03	55.26

Station Location: T-1
 Station ID:
 Sample Date: 9/30/00
 Species: MCAL

CI Statistics

Mean	0.126795982
Standard Error	0.004234533
Median	0.128494624
Standard Deviation	0.021172663
Sample Variance	0.000448282
Kurtosis	0.339083735
Skewness	-0.81316719
Range	0.08195757
Minimum	0.075279756
Maximum	0.157237325
Sum	3.169899562
Count	25

No.	Sealed shell vol. (ml)	Open shell vol. (ml)	Dry Flesh Weight (g)	DFW Tare (g)	Gonad DFW (g)	Gonad Tare (g)	Condition Index	Gonad Index	Shell Length (mm)
451	22.54	7.35	3.87	2.54	3.3	2.55	0.14	0.05	65.88
452	31.48	10.49	4.77	2.54	3.78	2.55	0.16	0.06	73.23
453	21.22	7.97	3.9	2.54	3.52	2.55	0.18	0.07	63.23
454	28.67	8.56	4.46	2.54	3.94	2.55	0.16	0.07	73.35
455	15.88	5.92	3.6	2.54	3.24	2.55	0.18	0.07	56.29
456	18.35	6.19	3.83	2.54	3.21	2.55	0.16	0.05	65.61
457	22.91	8.5	3.88	2.54	3.6	2.55	0.17	0.07	64.40
458	21.02	7.52	3.88	2.54	3.45	2.55	0.17	0.07	65.27
459	18.22	6.41	3.87	2.54	3.34	2.55	0.18	0.07	61.74
460	17.99	5.79	3.82	2.54	3.52	2.55	0.18	0.08	63.23
461	29.58	8.15	4.38	2.54	3.92	2.55	0.15	0.06	74.63
462	24.99	7.76	4.43	2.54	3.8	2.55	0.18	0.07	70.66
463	19.86	5.69	3.74	2.54	3.16	2.55	0.13	0.04	66.46
464	18.89	6.59	3.62	2.54	3.55	2.55	0.17	0.08	61.49
465	17.12	5.5	3.57	2.54	3.11	2.55	0.14	0.05	59.29
466	16.92	5.48	3.89	2.54	3.35	2.55	0.19	0.07	58.39
467	20.05	7.29	3.89	2.54	3.42	2.55	0.17	0.07	64.56
468	24.63	8.42	4.01	2.54	3.95	2.55	0.18	0.09	67.50
469	23.5	8.12	4.07	2.54	3.7	2.55	0.17	0.07	65.50
470	22.83	7.28	4.14	2.54	3.62	2.55	0.17	0.07	66.19
471	25.28	8.91	4.34	2.54	3.71	2.55	0.18	0.07	69.35
472	24.60	9.54	3.81	2.54	3.31	2.55	0.13	0.05	64.92
473	18.55	6.61	3.87	2.54	3.61	2.55	0.20	0.09	63.72
474	22.27	7.75	3.61	2.54	3.19	2.55	0.12	0.04	68.58
475	17.07	5.21	3.77	2.54	3.51	2.55	0.18	0.08	61.99

Station Location: Horseshoe Bay, Bagged
Station ID: BC21
Sample Date: 9/19/00
Species: MCAL

CI Statistics

Mean	0.165713274
Standard Error	0.004132201
Median	0.17170418
Standard Deviation	0.020661004
Sample Variance	0.000426877
Kurtosis	0.063045471
Skewness	-0.852015575
Range	0.082398909
Minimum	0.117768595
Maximum	0.200167504
Sum	4.142831842
Count	25

No.	Sealed shell vol. (ml)	Open shell vol. (ml)	Dry Flesh Weight (g)	Tare (g)	Condition Index
476	4.48	1.78	2.65	2.52	0.05
477	6.78	3.14	2.72	2.52	0.05
478	3.45	1.52	2.6	2.52	0.04
479	3.36	1.53	2.62	2.52	0.05
480	3.45	1.35	2.58	2.52	0.03
481	3.87	1.62	2.64	2.52	0.05
482	3.95	1.74	2.62	2.52	0.05
483	3.99	1.55	2.66	2.52	0.06
484	4.43	2.06	2.64	2.52	0.05
485	3.80	1.92	2.62	2.52	0.05
486	4.38	2.03	2.66	2.52	0.06
487	5.01	2.17	2.68	2.52	0.06
488	2.71	1.15	2.6	2.52	0.05
489	3.47	1.41	2.65	2.52	0.06
490	3.92	1.59	2.61	2.52	0.04
491	4.34	2.25	2.66	2.52	0.07
492	2.99	1.23	2.6	2.52	0.05
493	4.17	1.83	2.63	2.52	0.05
494	4.38	2.07	2.62	2.52	0.04
495	4.40	2.03	2.65	2.52	0.05
496	2.59	1.12	2.6	2.52	0.05
497	3.79	1.53	2.61	2.52	0.04
498	2.94	1.05	2.58	2.52	0.03
499	3.81	1.53	2.62	2.52	0.04
500	3.52	1.21	2.63	2.52	0.05

Station Location: Sacramento River
Station ID: BG20
Sample Date: 9/22/00
Species: CFLU

CI Statistics

Mean	0.049261297
Standard Error	0.001820165
Median	0.050632911
Standard Deviation	0.009100825
Sample Variance	8.2825E-05
Kurtosis	0.190769828
Skewness	-0.376040515
Range	0.038414217
Minimum	0.028571429
Maximum	0.066985646
Sum	1.231532431
Count	25

No.	Sealed shell vol. (ml)	Open shell vol. (ml)	Dry Flesh Weight (g)	Tare (g)	Condition Index
501	8	3.54	2.75	2.56	0.04
502	6.7	2.91	2.76	2.56	0.05
503	7.48	3.44	2.7	2.56	0.03
504	6.73	2.89	2.73	2.56	0.04
505	10.9	4.28	2.9	2.56	0.05
506	6.33	3.03	2.67	2.56	0.03
507	7.48	3.46	2.72	2.56	0.04
508	10.32	4.58	2.79	2.56	0.04
509	8.22	3.78	2.69	2.56	0.03
510	8.93	3.26	2.74	2.56	0.03
511	9.1	3.18	2.78	2.56	0.04
512	10.59	4.49	2.83	2.56	0.04
513	4.73	1.94	2.71	2.56	0.05
514	9.4	4.16	2.73	2.56	0.03
515	6.72	3.03	2.75	2.56	0.05
516	7.68	3.41	2.73	2.56	0.04
517	8.9	3.56	2.7	2.56	0.03
518	8.92	3.47	2.72	2.56	0.03
519	9.56	4.26	2.72	2.56	0.03
520	9.51	4.18	2.66	2.56	0.02
521	9.91	4.09	2.8	2.56	0.04
522	5.47	2.38	2.79	2.56	0.07
523	7.76	2.99	2.72	2.58	0.03

Station Location: San Joaquin River
Station ID: BG30
Sample Date: 9/22/00
Species: CFLU

CI Statistics

Mean	0.039494113
Standard Error	0.002484491
Median	0.039800995
Standard Deviation	0.011915201
Sample Variance	0.000141972
Kurtosis	2.079210382
Skewness	1.034862294
Range	0.055671931
Minimum	0.018761726
Maximum	0.074433657
Sum	0.908364601
Count	23
