APPENDIX P

ANOVA Tables for Macrophytes

ANALYSIS OF VARIANCE TABLES

LOCATION=STAG

ANALYSIS OF VARIANCE PROCEDURE

DEPENDENT VARIABLE ROOT BIO

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE
MODEL	89	9159.14797227	102.91177497	27.95
ERROR	180	662.82178175	3.68239879	
CORRECTED TOTAL	269	9821.97975402		

SOURCE	DF	ANOVA SS	F VALUE	PR > F
YEAR	1	35.08028701	9.53	0.0023
MONTH	2	686.66988758	93.24	0.0001
YEAR*MONTH	2	231.01302828	31.37	0.0001
STATION	14	5714.07136513	110.84	0.0001
YEAR*STATION	14	701.16014109	13.60	0.0001
MONTH*STATION	28	1116.03300882	10.82	0.0001
YEAR*MONTH*STATION	28	675.12044427	6.55	0.0001

PR > F	R-SQUARE	C.V.
0.0001	0.932515	25.6915

ROOT MSE	ROOT BIO MEAN
1.91895773	7.46924209

LOCATION=FAWN

ANALYSIS OF VARIANCE PROCEDURE

DEPENDENT VARIABLE ROOT BIO

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE
MODEL	65	5399.51242132	83.06942187	11.47
ERROR	132	956.11818124	7.24331955	
CORRECTED TOTAL	197	6355.63060257		

SOURCE	DF	ANOVA SS	F VALUE	PR > F
YEAR	1	6.82286619	0.94	0.3332
MONTH	2	3410.10612146	235.40	0.0001
YEAR*MONTH	2	105.06658385	7.25	0.0010
STATION	10	313.76874054	4.33	0.0001
YEAR*STATION	10	301.22654707	4.16	0.0001
MONTH*STATION	20	790.09956782	5.45	0.0001
YEAR*MONTH*STATION	20	472.31159240	3.26	0.0001

PR > F	R-SQUARE	C.V.
0.0001	0.849564	27.1018

ROOT MSE	ROOT BIO MEAN
2.69134159	9.93048977

ANALYSIS OF VARIANCE TABLES

LOCATION=RUSSELL

ANALYSIS OF VARIANCE PROCEDURE

DEPENDENT VARIABLE ROOT BIO

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE
MODEL	53	4100.70653026	77.37182887	8.46
ERROR	108	987.30108211	9.14167669	
CORRECTED TOTAL	161	5088.00861237		

SOURCE	DF	ANOVA SS	F VALUE	PR > F
YEAR	1	240.36193258	26.29	0.0001
MONTH	2	1707.12189811	93.37	0.0001
YEAR*MONTH	2	424.98054186	23.24	0.0001
STATION	8	517.43524132	7.08	0.0001
YEAR*STATION	8	428.57498379	6.00	0.0001
MONTH*STATION	16	293.05813212	2.00	0.0189
YEAR*MONTH*STATION	16	479.17420046	3.26	0.0001

PR > F	R-SQUARE	C.V.
0.0001	0.805955	26.2306

ROOT MSE	ROOT BIO MEAN
3.02352058	11.52669155

LOCATION=BELLE

ANALYSIS OF VARIANCE PROCEDURE

DEPENDENT VARIABLE ROOT BIO

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE
MODEL	59	3337.81042962	56.57305830	14.36
ERROR	120	472.65368452	3.93878070	
CORRECTED TOTAL	179	3810.46412413		

SOURCE	DF	ANOVA SS	F VALUE	PR > F
YEAR	1	7.40264090	1.88	0.1730
MONTH	2	1146.19815793	145.50	0.0001
YEAR*MONTH	2	240.03423606	30.47	0.0001
STATION	9	1208.67012177	34.10	0.0001
YEAR*STATION	9	83.46172419	2.35	0.0175
MONTH*STATION	18	370.10466336	5.22	0.0001
YEAR*MONTH*STATION	18	281.93855540	3.98	0.0001

PR > F	R-SQUARE	C.V.
0.0001	0.875955	21.5536

ROOT MSE	ROOT BIO MEAN
1.98463616	9.20789966

ANALYSIS OF VARIANCE TABLES

LOCATION=PTHENNEFIN

ANALYSIS OF VARIANCE PROCEDURE

DEPENDENT VARIABLE ROOT BIC

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE
MODEL	83	2225.28258227	26.85882629	5.31
ERROR	168	850.17852742	5.06058647	
CORRECTED TOTAL	251	3075.46110970		

SOURCE	DF	ANOVA SS	F VALUE	PR > F
YEAR	1	1.29563365	0.26	0.6135
MONTH	2	734.38092880	72.56	0.0001
YEAR*MONTH	2	33.74088460	3.33	0.0380
STATION	13	356.32980616	6.02	0.0001
YEAR*STATION	13	201.35779017	3.06	0.0005
MONTH*STATION	26	450.62536527	3.73	0.0001
YEAR*MONTH*STATION	26	371.55216357	2.82	0.0001

PR > F	R-SQUARE	C.V.
0.0001	0.723920	28.7364

ROOT MSE	ROOT BIC MEAN
2.24957473	7.82832253

LOCATION=STLNY

ANALYSIS OF VARIANCE PROCEDURE

DEPENDENT VARIABLE ROOT BIC

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE
MODEL	59	5142.17876615	87.15557231	10.55
ERROR	120	990.95041217	8.25792010	
CORRECTED TOTAL	179	6133.12917832		

SOURCE	DF	ANOVA SS	F VALUE	PR > F
YEAR	1	48.91450467	5.92	0.0164
MONTH	2	1209.08547674	73.21	0.0001
YEAR*MONTH	2	16.49111287	1.00	0.3715
STATION	9	2266.40056654	30.49	0.0001
YEAR*STATION	9	213.47136917	2.87	0.0043
MONTH*STATION	18	1127.82073346	7.59	0.0001
YEAR*MONTH*STATION	18	259.99500270	1.75	0.0398

PR > F	R-SQUARE	C.V.
0.0001	0.838427	25.2808

ROOT MSE	ROOT BIC MEAN
2.87365971	11.36656228