

APPENDIX

Statistical analyses

Two way table of treatment versus time (Section 2.3)

Frequency
 Expected
 Cell Chi - Square
 Percent
 Row Pct
 Col Pct

	1	2	3	4	
1	19	14	4	4	41
	9.4253	9.8966	8.0115	13.667	
	9.7625	1.7014	2.0086	6.8374	
	21.84	16.09	4.6	4.6	47.13
	46.34	34.15	9.76	9.76	
	95.00	66.67	23.53	13.79	
2	1	7	13	25	46
	10.575	11.103	8.9885	15.333	
	8.6693	1.5165	1.7903	6.0942	
	1.15	8.05	14.94	28.74	52.87
	2.17	15.22	28.26	54.32	
	5.00	33.33	76.47	86.21	
Total	20	21	17	29	87
	22.99	24.14	19.54	33.33	100.00

Statistic	DF	VALUE	PROB
Chi - square	3	38.3442	<.0001
Likelihood Ratio Chi - Square	3	43.8267	<.0001
Mantel - Haenszel Chi - Square	1	36.3627	<.0001
Phi Coefficient		0.6639	
Contingency Coefficient		0.5531	
Cramer's V		0.6639	

Effective Sample size = 87
 Frequency missing = 8

Regression analysis of number of shoots as a function of concentration paclobutrazol (Section 4.3)

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	191.24356	95.62178	8.37	0.0006
Error	61	696.50644	11.41814		
Corrected Total	63	887.75000			

Root MSE	3.37907	R-Square	0.2154
Dependant Mean	4.56250	Adj R-Sq	0.1897
Coeff Var	74.06189		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard error	t Value	Pr > t
Intercept	Intercept	1	2.79884	0.60343	4.64	<.0001
V4	Conc	1	0.17897	0.04993	3.58	0.0007
SQV4	Hormone	1	-0.00149	0.00050303	-2.96	0.0044

Analysis of variance (Section 4.3)

The ANOVA Procedure

Tukey's Studentised Range (HSD)

Alpha	0.05
Error DF	56
Error Mean Square	0.066855
Critical Value of Studentised Range	4.4523
Minimum Significant Difference	0.407

Means with the same letter are not significantly different

Tukey Grouping	Mean	N	V4
A	0.8521	8	10
B A	0.8200	8	20
B A	0.8153	8	100
B A	0.7974	8	50
B A C	0.6076	8	4
B A C	0.5935	8	2
B C	0.4188	8	1
C	0.2124	8	0