

Penetrometer-Holmberg

Ob s	RE P	TRM T	← 2013 →		← 2014 →		← 2015 →	
			Pen13shall ow	Pen13de ep	Pen14shall ow	Pen14de ep	Pen15shall ow	Pen15de ep
1	1	control	260	300.0	139	300	142.0	220.0
2	2	control	225	287.5	155	275	190.0	250.0
3	3	control	160	260.0	105	195	205.0	255.0
4	1	radish	225	287.5	105	275	87.5	137.5
5	2	radish	190	290.0	75	175	130.0	215.0
6	3	radish	95	300.0	85	205	90.0	220.0
7	1	compo st	100	300.0	105	245	95.0	195.0
8	2	compo st	150	280.0	96	185	140.0	260.0
9	3	compo st	145	290.0	90	225	85.0	175.0

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The GLM Procedure

Dependent Variable: Pen13shallow

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	17311.11111	4327.77778	1.96	0.2657
Error	4	8844.44444	2211.11111		
Corrected Total	8	26155.55556			

R-Square	Coeff Var	Root MSE	Pen13shallow Mean
0.661852	27.30336	47.02245	172.2222

Source	DF	Type I SS	Mean Square	F Value	Pr > F
REP	2	6872.22222	3436.11111	1.55	0.3167
TRMT	2	10438.88889	5219.44444	2.36	0.2104

Source	DF	Type III SS	Mean Square	F Value	Pr > F
REP	2	6872.22222	3436.11111	1.55	0.3167
TRMT	2	10438.88889	5219.44444	2.36	0.2104

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The GLM Procedure

t Tests (LSD) for Pen13shallow

Note: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	4
Error Mean Square	2211.111
Critical Value of t	2.77645
Least Significant Difference	106.6

**Means with the same letter are
not significantly different.**

t Grouping	Mean	N	TRMT
A	215.00	3	control
A			
A	170.00	3	radish
A			
A	131.67	3	compost

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The GLM Procedure

Dependent Variable: Pen14shallow

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	4189.111111	1047.277778	3.95	0.1061
Error	4	1061.777778	265.444444		
Corrected Total	8	5250.888889			

R-Square	Coeff Var	Root MSE	Pen14shallow Mean
0.797791	15.35416	16.29247	106.1111

Source	DF	Type I SS	Mean Square	F Value	Pr > F
REP	2	822.888889	411.444444	1.55	0.3174
TRMT	2	3366.222222	1683.111111	6.34	0.0575

Source	DF	Type III SS	Mean Square	F Value	Pr > F
REP	2	822.888889	411.444444	1.55	0.3174
TRMT	2	3366.222222	1683.111111	6.34	0.0575

Penetrometer-Holmberg

The GLM Procedure

t Tests (LSD) for Pen14shallow

Note: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	4
Error Mean Square	265.4444
Critical Value of t	2.77645
Least Significant Difference	36.934

**Means with the same letter are
not significantly different.**

t Grouping	Mean	N	TRMT
A	133.00	3	control
A			
B	97.00	3	compost
B			
B	88.33	3	radish

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The GLM Procedure

Dependent Variable: Pen15shallow

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	14195.11111	3548.77778	7.37	0.0394
Error	4	1926.77778	481.69444		
Corrected Total	8	16121.88889			

R-Square	Coeff Var	Root MSE	Pen15shallow Mean
0.880487	16.96246	21.94754	129.3889

Source	DF	Type I SS	Mean Square	F Value	Pr > F
REP	2	3093.38889	1546.69444	3.21	0.1473
TRMT	2	11101.72222	5550.86111	11.52	0.0219

Source	DF	Type III SS	Mean Square	F Value	Pr > F
REP	2	3093.38889	1546.69444	3.21	0.1473
TRMT	2	11101.72222	5550.86111	11.52	0.0219

Penetrometer-Holmberg

The GLM Procedure

t Tests (LSD) for Pen15shallow

Note: This test controls the Type I comparisonwise error rate, not the experimentwise error rate.

Alpha	0.05
Error Degrees of Freedom	4
Error Mean Square	481.6944
Critical Value of t	2.77645
Least Significant Difference	49.754

**Means with the same letter are
not significantly different.**

t Grouping	Mean	N	TRMT
A	179.00	3	control
B	106.67	3	compost
B			
B	102.50	3	radish