

2011-2012 PT1 PT2 VA DATA SUGAR CONTENT SESAME 5 VAR TEST
10:20 Tuesday, February 11, 2014

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The GLM Procedure

Class Level Information

Class	Levels	Values
YEAR	2	2011 2012
REP	4	1 2 3 4
PT	2	PT1 PT2
VAR	5	22K S26 S28 S30 S32
RSPAC	2	15-INCH 30-INCH

Number of Observations Read	80
Number of Observations Used	80

The GLM Procedure

Dependent Variable: FRUC

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	64	50.39320613	0.78739385	6.34	0.0001
Error	15	1.86223322	0.12414888		
Corrected Total	79	52.25543935			

R-Square	Coeff Var	Root MSE	FRUC Mean
0.964363	36.94339	0.352348	0.953750

Source	DF	Type III SS	Mean Square	F Value	Pr > F
YEAR	1	24.35780117	24.35780117	196.20	<.0001
REP	2	0.29086346	0.14543173	1.17	0.3367
YEAR*REP	1	0.01690026	0.01690026	0.14	0.7173
PT	1	0.51349084	0.51349084	4.14	0.0601
YEAR*PT	1	1.20524232	1.20524232	9.71	0.0071
YEAR*REP*PT	2	0.01144873	0.00572437	0.05	0.9551
VAR	4	0.72278208	0.18069552	1.46	0.2647
PT*VAR	4	0.81840627	0.20460157	1.65	0.2141
YEAR*VAR	4	0.53881302	0.13470325	1.09	0.3989
YEAR*PT*VAR	4	0.58529824	0.14632456	1.18	0.3597
YEAR*REP*PT*VAR	20	2.70449391	0.13522470	1.09	0.4401
RSPAC	1	1.30446912	1.30446912	10.51	0.0055
PT*RSPAC	1	0.04876578	0.04876578	0.39	0.5403
VAR*RSPAC	4	0.39033439	0.09758360	0.79	0.5519
PT*VAR*RSPAC	4	0.01482362	0.00370590	0.03	0.9981
YEAR*RSPAC	1	3.38723418	3.38723418	27.28	0.0001
YEAR*PT*RSPAC	0	0.00000000	.	.	.

The GLM Procedure

Dependent Variable: FRUC

Source	DF	Type III SS	Mean Square	F Value	Pr > F
YEAR*VAR*RSPAC	4	0.62236848	0.15559212	1.25	0.3311
YEAR*PT*VAR*RSPAC	0	0.00000000	.	.	.

Tests of Hypotheses Using the Type III MS for YEAR*REP as an Error Term

Source	DF	Type III SS	Mean Square	F Value	Pr > F
YEAR	1	24.35780117	24.35780117	1441.27	0.0168

Tests of Hypotheses Using the Type III MS for YEAR*REP*PT as an Error Term

Source	DF	Type III SS	Mean Square	F Value	Pr > F
PT	1	0.51349084	0.51349084	89.70	0.0110
YEAR*PT	1	1.20524232	1.20524232	210.55	0.0047

Tests of Hypotheses Using the Type III MS for YEAR*REP*PT*VAR as an Error Term

Source	DF	Type III SS	Mean Square	F Value	Pr > F
VAR	4	0.72278208	0.18069552	1.34	0.2911
PT*VAR	4	0.81840627	0.20460157	1.51	0.2363
YEAR*VAR	4	0.53881302	0.13470325	1.00	0.4326
YEAR*PT*VAR	4	0.58529824	0.14632456	1.08	0.3918

The GLM Procedure

t Tests (LSD) for FRUC

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

Alpha	0.05
Error Degrees of Freedom	1
Error Mean Square	0.0169
Critical Value of t	12.70620
Least Significant Difference	0.3694

Means with the same letter are not significantly different.

t Grouping	Mean	N	YEAR
A	1.64425	40	2011
B	0.26325	40	2012

The GLM Procedure

t Tests (LSD) for FRUC

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

Alpha	0.05
Error Degrees of Freedom	2
Error Mean Square	0.005724
Critical Value of t	4.30265
Least Significant Difference	0.0728

Means with the same letter are not significantly different.

t Grouping	Mean	N	PT
A	0.97500	40	PT1
A			
A	0.93250	40	PT2

The GLM Procedure

t Tests (LSD) for FRUC

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

Alpha	0.05
Error Degrees of Freedom	20
Error Mean Square	0.135225
Critical Value of t	2.08596
Least Significant Difference	0.2712

Means with the same letter are not significantly different.

t Grouping	Mean	N	VAR
A	1.1246	16	22K
A			
B A	0.9631	16	S28
B A			
B A	0.9590	16	S30
B A			
B A	0.8725	16	S26
B A			
B	0.8496	16	S32

The GLM Procedure

t Tests (LSD) for FRUC

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

Alpha	0.05
Error Degrees of Freedom	15
Error Mean Square	0.124149
Critical Value of t	2.13145
Least Significant Difference	0.1679

Means with the same letter are not significantly different.

t Grouping	Mean	N	RSPAC
A	1.06158	40	30-INCH
B	0.84592	40	15-INCH