

***RCB Model Fit to Redwing Flaxseed Data with PROC GLM
Fixed block effects***

The GLM Procedure

Class Level Information		
Class	Levels	Values
treat	6	a b c d e f
block	4	1 2 3 4

Number of Observations Read	24
Number of Observations Used	24

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The GLM Procedure

Dependent Variable: oil

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	8	34.79333333	4.34916667	3.31	0.0219
Error	15	19.71625000	1.31441667		
Corrected Total	23	54.50958333			

R-Square	Coeff Var	Root MSE	oil Mean
0.638298	3.226870	1.146480	35.52917

Source	DF	Type I SS	Mean Square	F Value	Pr > F
treat	5	31.65208333	6.33041667	4.82	0.0080
block	3	3.14125000	1.04708333	0.80	0.5147

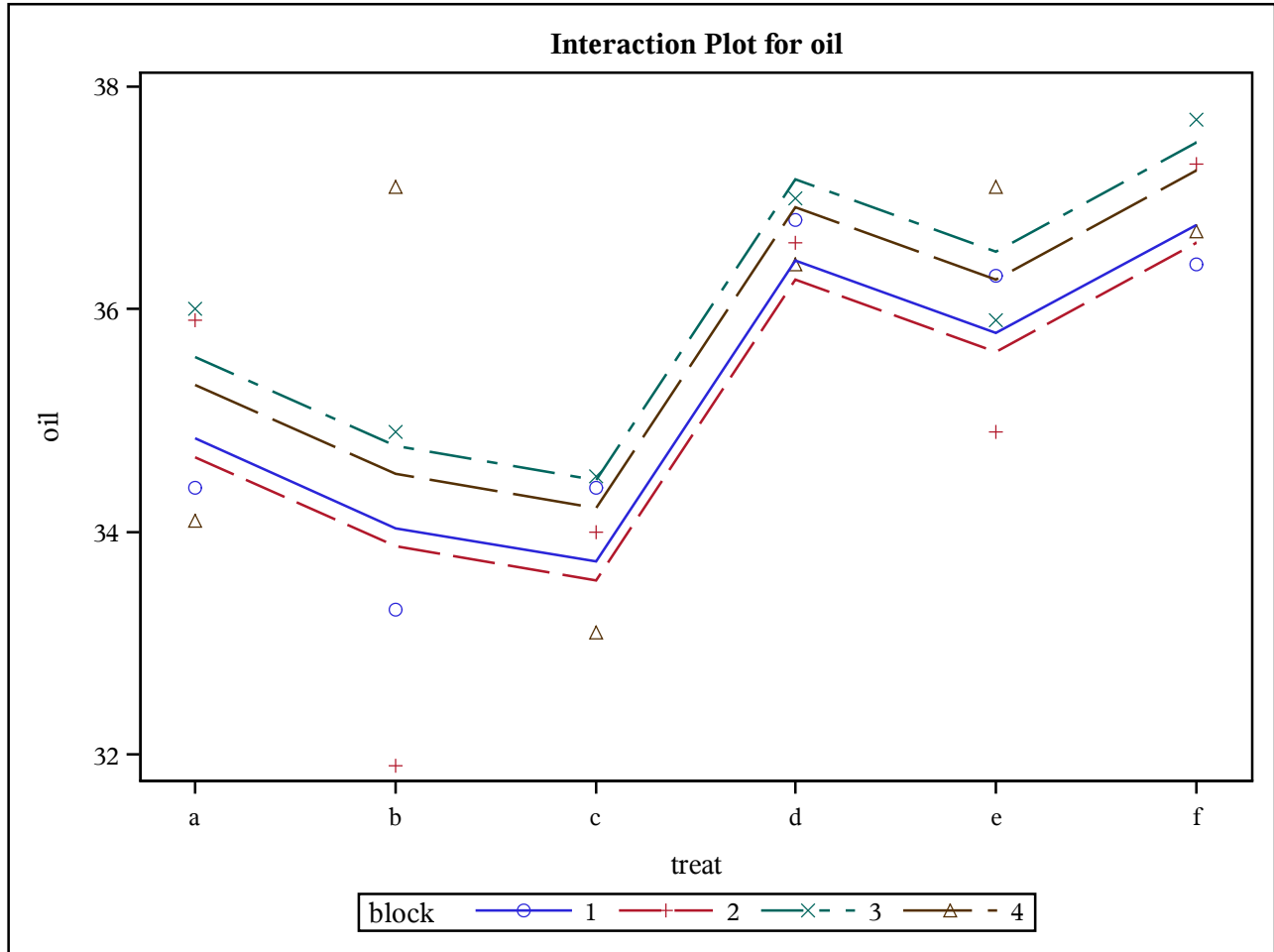
Source	DF	Type III SS	Mean Square	F Value	Pr > F
treat	5	31.65208333	6.33041667	4.82	0.0080
block	3	3.14125000	1.04708333	0.80	0.5147

Contrast	DF	Contrast SS	Mean Square	F Value	Pr > F
treat vs. control	1	10.74008333	10.74008333	8.17	0.0120
seedling vs. other	1	0.08450000	0.08450000	0.06	0.8033
bloom vs. ripening	1	3.30750000	3.30750000	2.52	0.1335
within bloom (i)	1	0.18000000	0.18000000	0.14	0.7165
within bloom (ii)	1	17.34000000	17.34000000	13.19	0.0025
Inoculation timing	4	20.91200000	5.22800000	3.98	0.0215

Parameter	Estimate	Standard Error	t Value	Pr > t
treat vs. control	-1.7950000	0.62795302	-2.86	0.0120
control mean	37.0250000	0.57324006	64.59	<.0001

The GLM Procedure

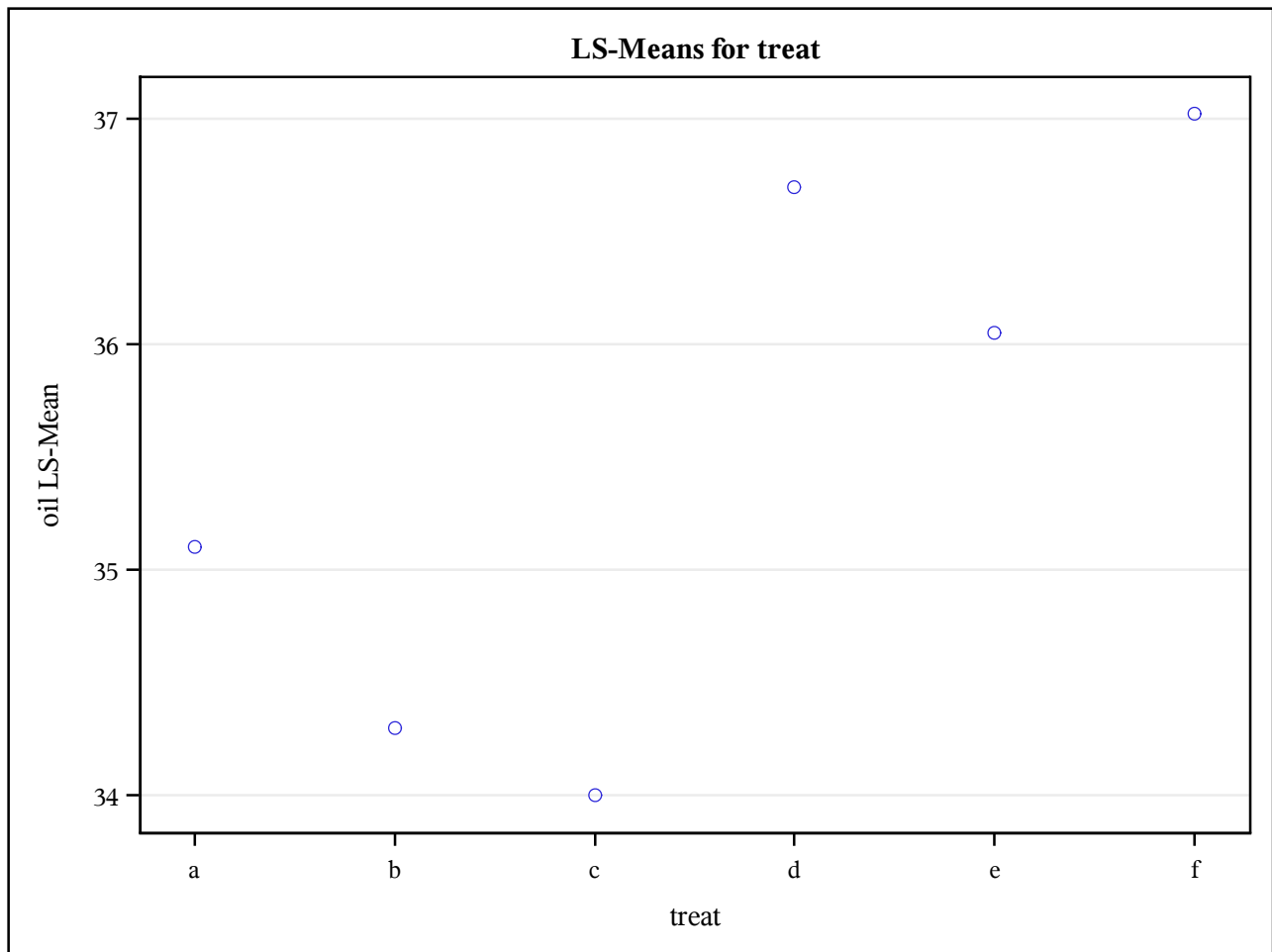
Dependent Variable: oil



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The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Dunnett

treat	oil LSMEAN	Standard Error	H0:LSMEAN=0	H0:LSMean=Control
			Pr > t	Pr < t
a	35.1000000	0.5732401	<.0001	0.1129
b	34.3000000	0.5732401	<.0001	0.0190
c	34.0000000	0.5732401	<.0001	0.0092
d	36.7000000	0.5732401	<.0001	
e	36.0500000	0.5732401	<.0001	0.5124
f	37.0250000	0.5732401	<.0001	0.9243



*The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Dunnett*

