

**The GLM Procedure**

Class Level Information		
Class	Levels	Values
Trt	3	C F S
loc	5	Loc1 Loc2 Loc3 Loc4 Loc5

Number of Observations Read	30
Number of Observations Used	30

## The GLM Procedure

Dependent Variable: Y

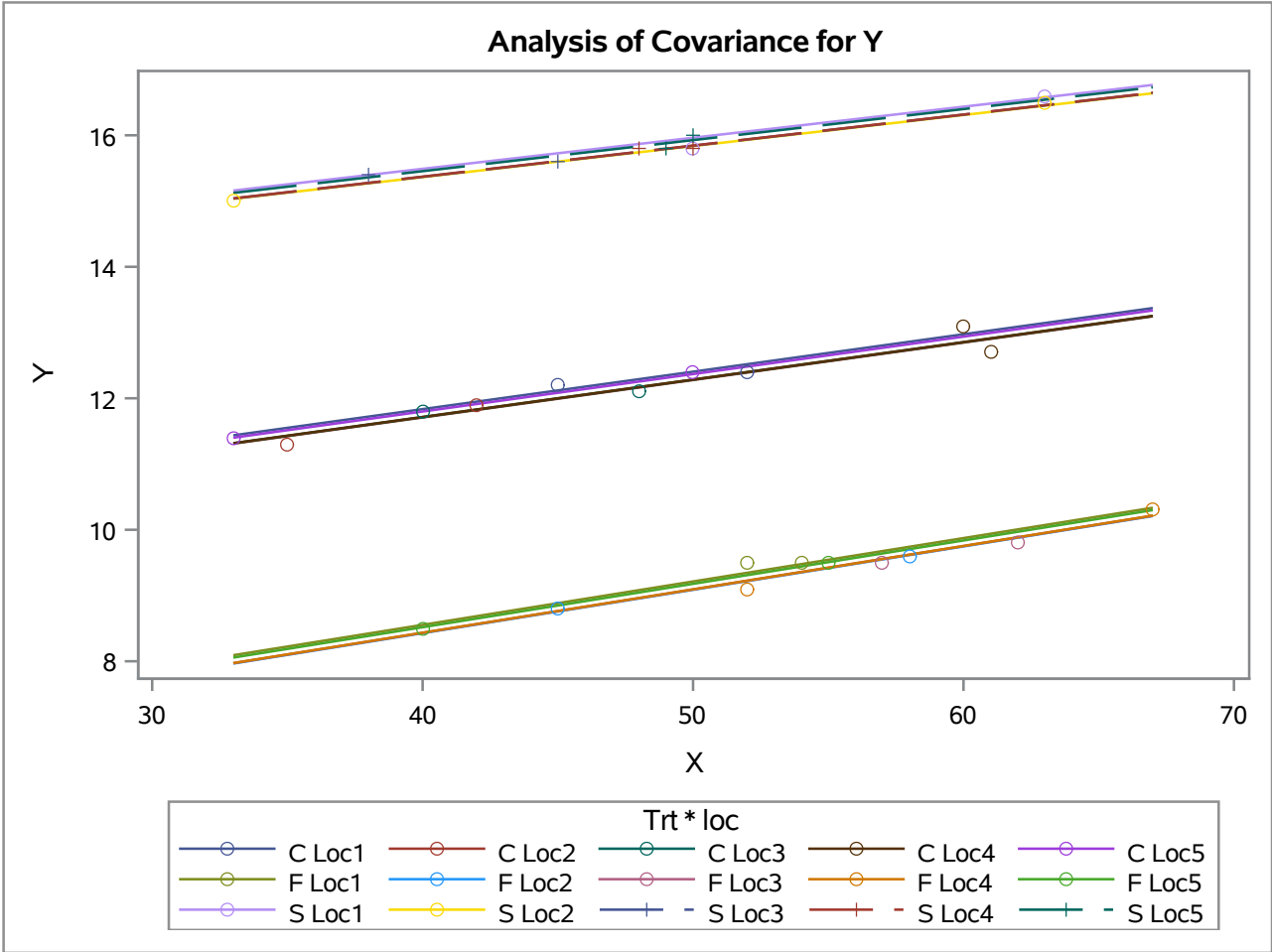
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	10	4869.567682	486.956768	34497.0	<.0001
Error	20	0.282318	0.014116		
Uncorrected Total	30	4869.850000			

R-Square	Coeff Var	Root MSE	Y Mean
0.998686	0.953789	0.118810	12.45667

Source	DF	Type I SS	Mean Square	F Value	Pr > F
Trt	3	4862.739000	1620.913000	114829	<.0001
loc	4	1.685333	0.421333	29.85	<.0001
X*Trt	3	5.143349	1.714450	121.46	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
Trt	2	5.81789053	2.90894527	206.08	<.0001
loc	4	0.07412400	0.01853100	1.31	0.2992
X*Trt	3	5.14334868	1.71444956	121.46	<.0001

The GLM Procedure  
Dependent Variable: Y



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**The GLM Procedure****Dependent Variable: Y**

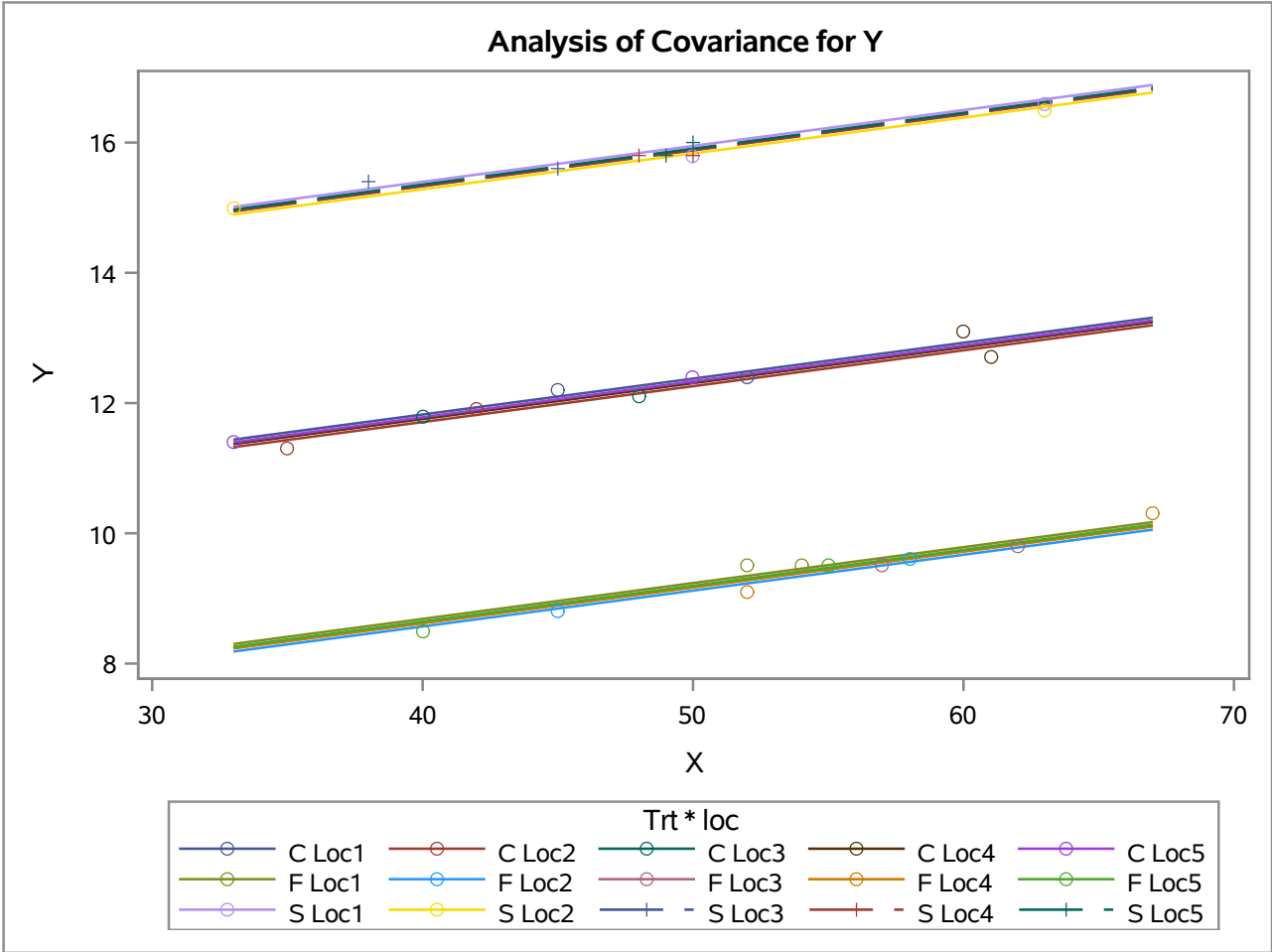
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	7	214.4175490	30.6310784	1791.68	<.0001
<b>Error</b>	22	0.3761177	0.0170963		
<b>Corrected Total</b>	29	214.7936667			

R-Square	Coeff Var	Root MSE	Y Mean
0.998249	1.049660	0.130753	12.45667

Source	DF	Type I SS	Mean Square	F Value	Pr > F
<b>Trt</b>	2	207.6826667	103.8413333	6073.92	<.0001
<b>loc</b>	4	1.6853333	0.4213333	24.64	<.0001
<b>X</b>	1	5.0495490	5.0495490	295.36	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
<b>Trt</b>	2	210.7629592	105.3814796	6164.01	<.0001
<b>loc</b>	4	0.0415951	0.0103988	0.61	0.6609
<b>X</b>	1	5.0495490	5.0495490	295.36	<.0001

The GLM Procedure  
Dependent Variable: Y



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Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	9	214.5113487	23.8345943	1688.49	<.0001
Error	20	0.2823180	0.0141159		
Corrected Total	29	214.7936667			

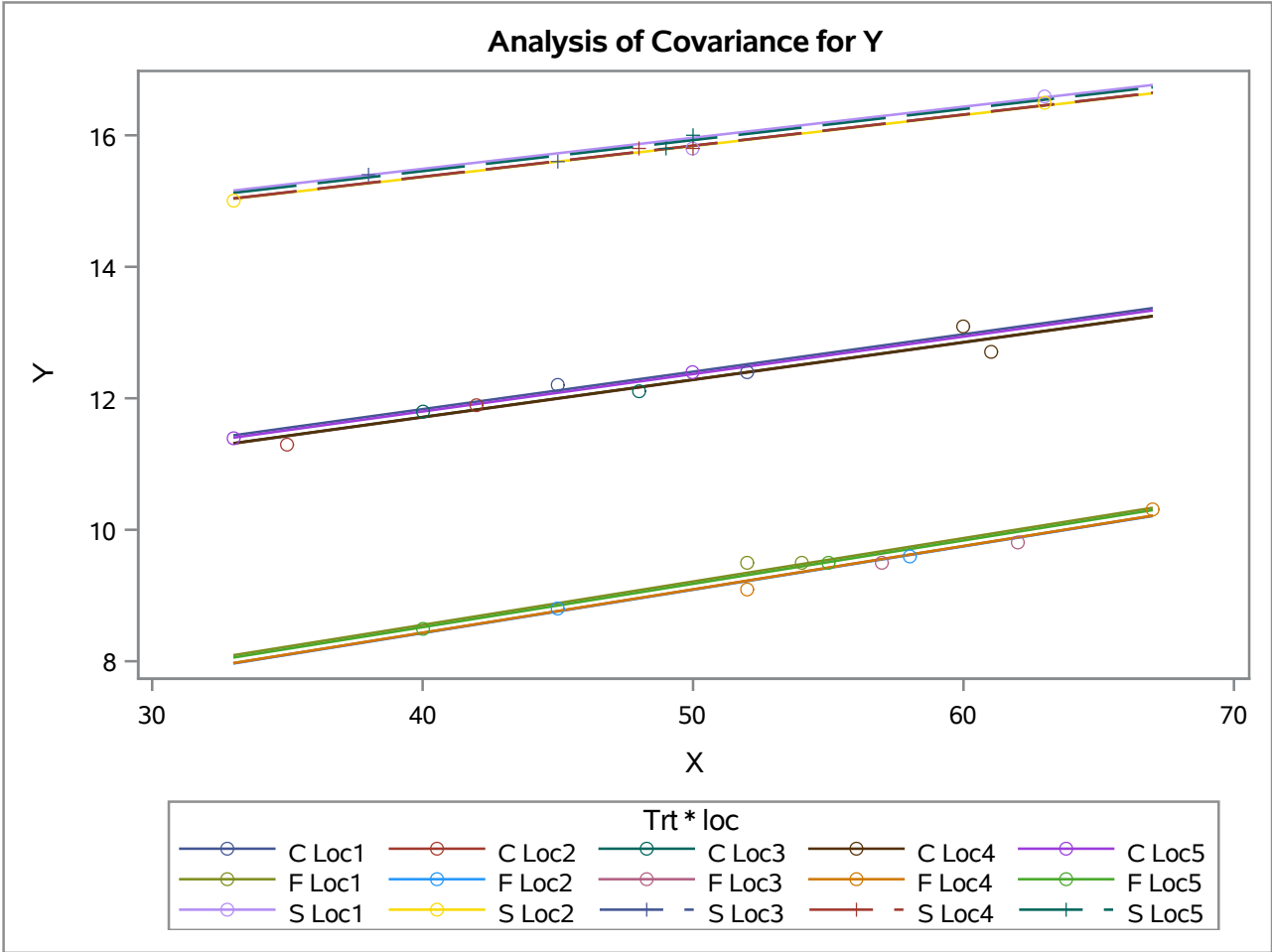
R-Square	Coeff Var	Root MSE	Y Mean
0.998686	0.953789	0.118810	12.45667

Source	DF	Type I SS	Mean Square	F Value	Pr > F
Trt	2	207.6826667	103.8413333	7356.34	<.0001
loc	4	1.6853333	0.4213333	29.85	<.0001
X	1	5.0495490	5.0495490	357.72	<.0001
X*Trt	2	0.0937997	0.0468998	3.32	0.0568

Source	DF	Type III SS	Mean Square	F Value	Pr > F
Trt	2	5.81789053	2.90894527	206.08	<.0001
loc	4	0.07412400	0.01853100	1.31	0.2992
X	1	5.10662074	5.10662074	361.76	<.0001
X*Trt	2	0.09379970	0.04689985	3.32	0.0568



The GLM Procedure  
Dependent Variable: Y



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**The GLM Procedure****Dependent Variable: Y**

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
<b>Model</b>	7	214.4175490	30.6310784	1791.68	<.0001
<b>Error</b>	22	0.3761177	0.0170963		
<b>Corrected Total</b>	29	214.7936667			

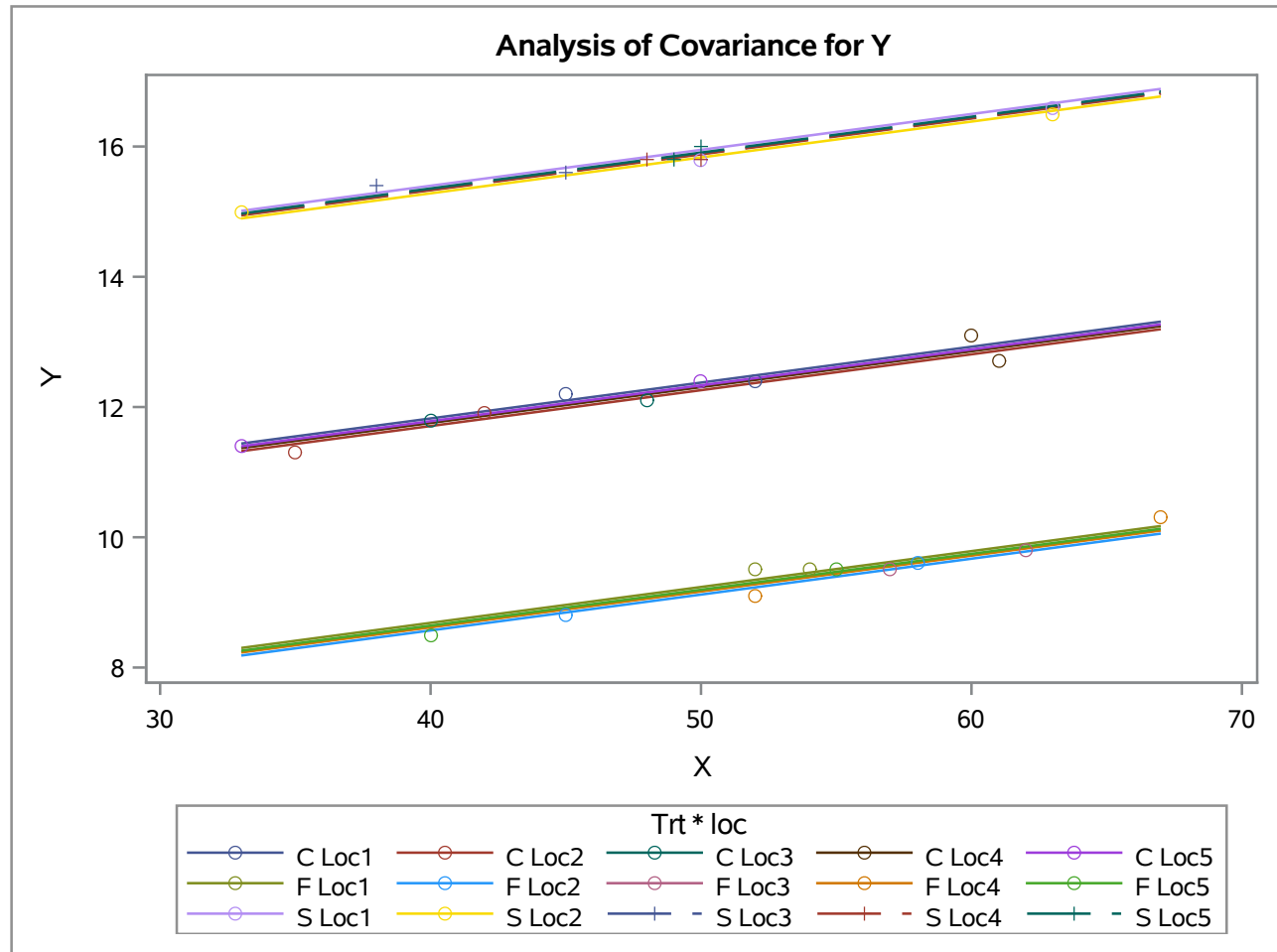
R-Square	Coeff Var	Root MSE	Y Mean
0.998249	1.049660	0.130753	12.45667

Source	DF	Type I SS	Mean Square	F Value	Pr > F
<b>Trt</b>	2	207.6826667	103.8413333	6073.92	<.0001
<b>loc</b>	4	1.6853333	0.4213333	24.64	<.0001
<b>X</b>	1	5.0495490	5.0495490	295.36	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
<b>Trt</b>	2	210.7629592	105.3814796	6164.01	<.0001
<b>loc</b>	4	0.0415951	0.0103988	0.61	0.6609
<b>X</b>	1	5.0495490	5.0495490	295.36	<.0001

## The GLM Procedure

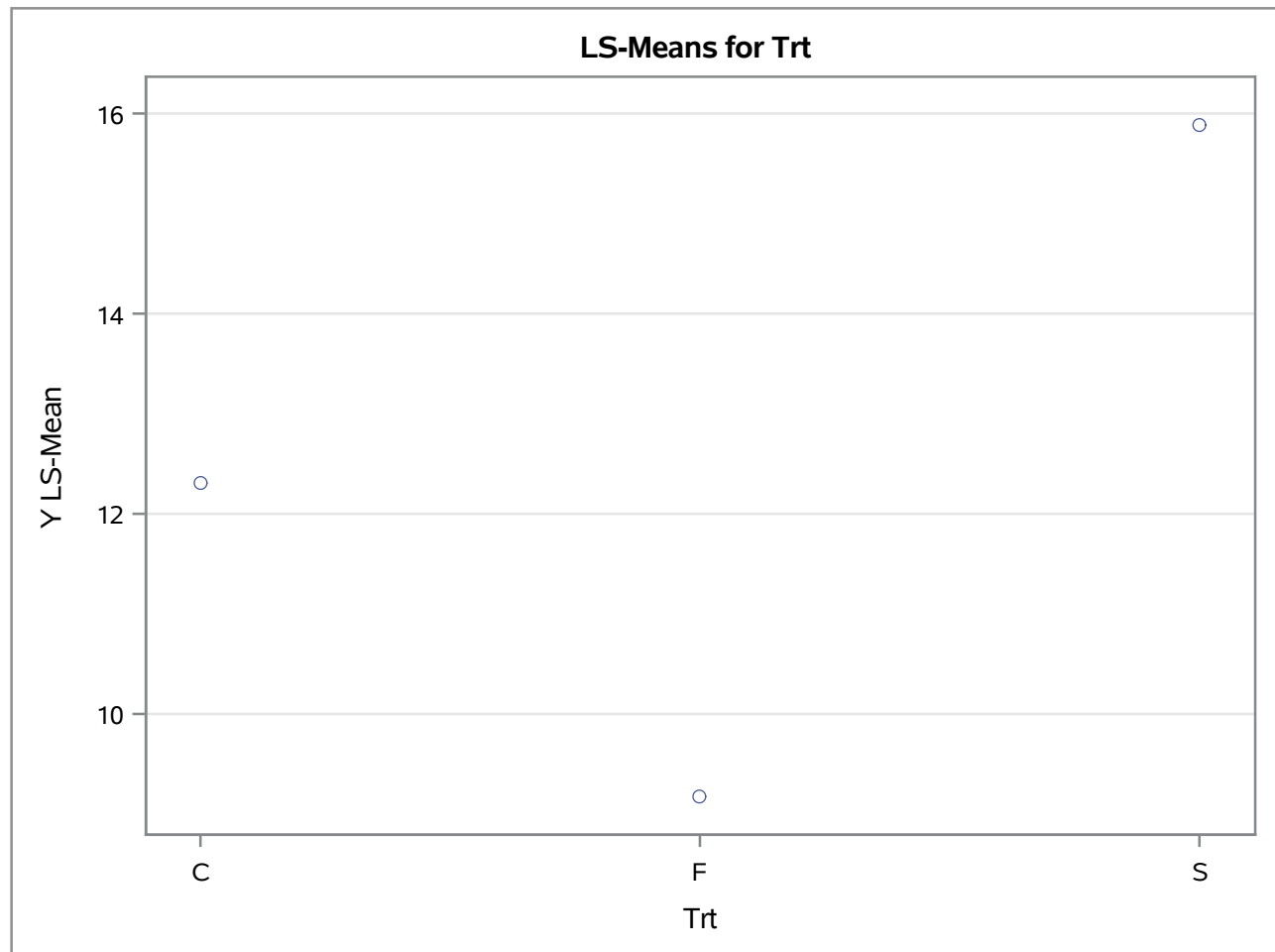
Dependent Variable: Y



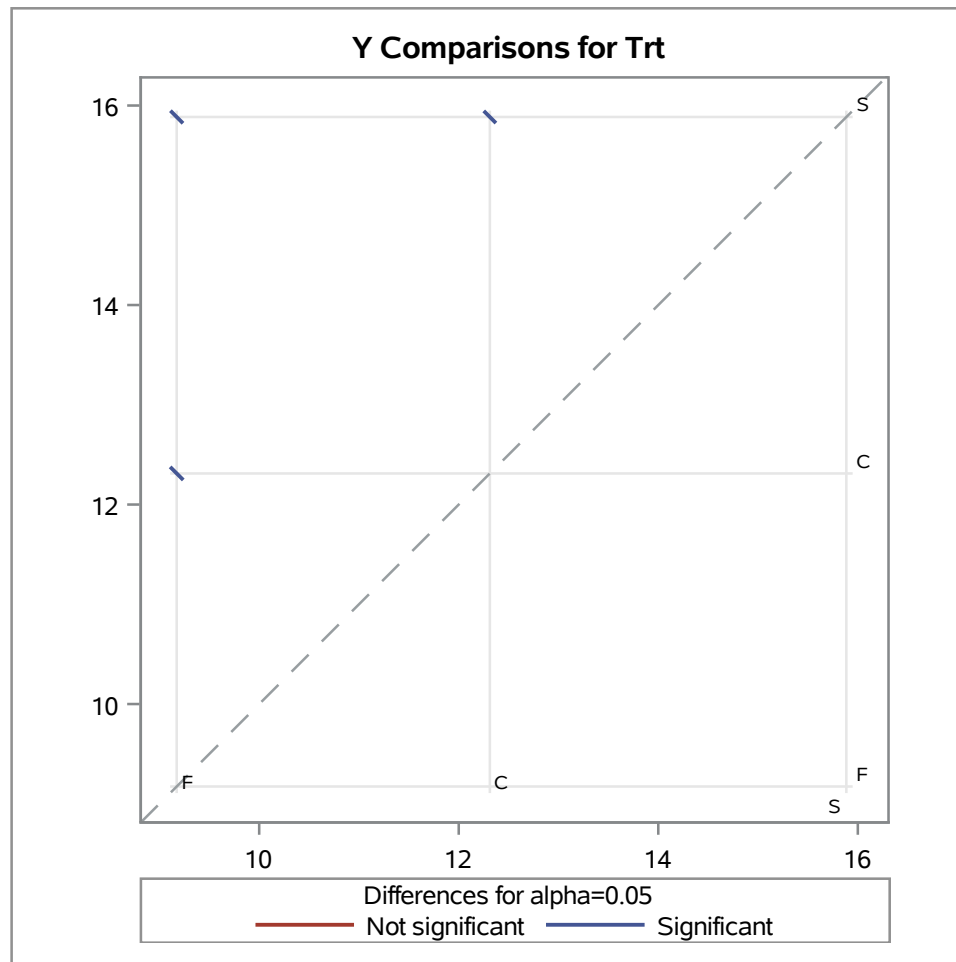
**The GLM Procedure  
Least Squares Means**

Trt	Y LSMEAN	Standard Error	Pr >  t	LSMEAN Number
C	12.3117309	0.0426784	<.0001	1
F	9.1731991	0.0435830	<.0001	2
S	15.8850700	0.0414716	<.0001	3

Least Squares Means for Effect Trt t for H0: LSMean(i)=LSMean(j) / Pr >  t			
Dependent Variable: Y			
i/j	1	2	3
1		49.54829 <.0001	-60.6298 <.0001
2	-49.5483 <.0001		-110.228 <.0001
3	60.62982 <.0001	110.2282 <.0001	



### The GLM Procedure Least Squares Means



**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.

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Number of Observations Used	30

# The GLM Procedure

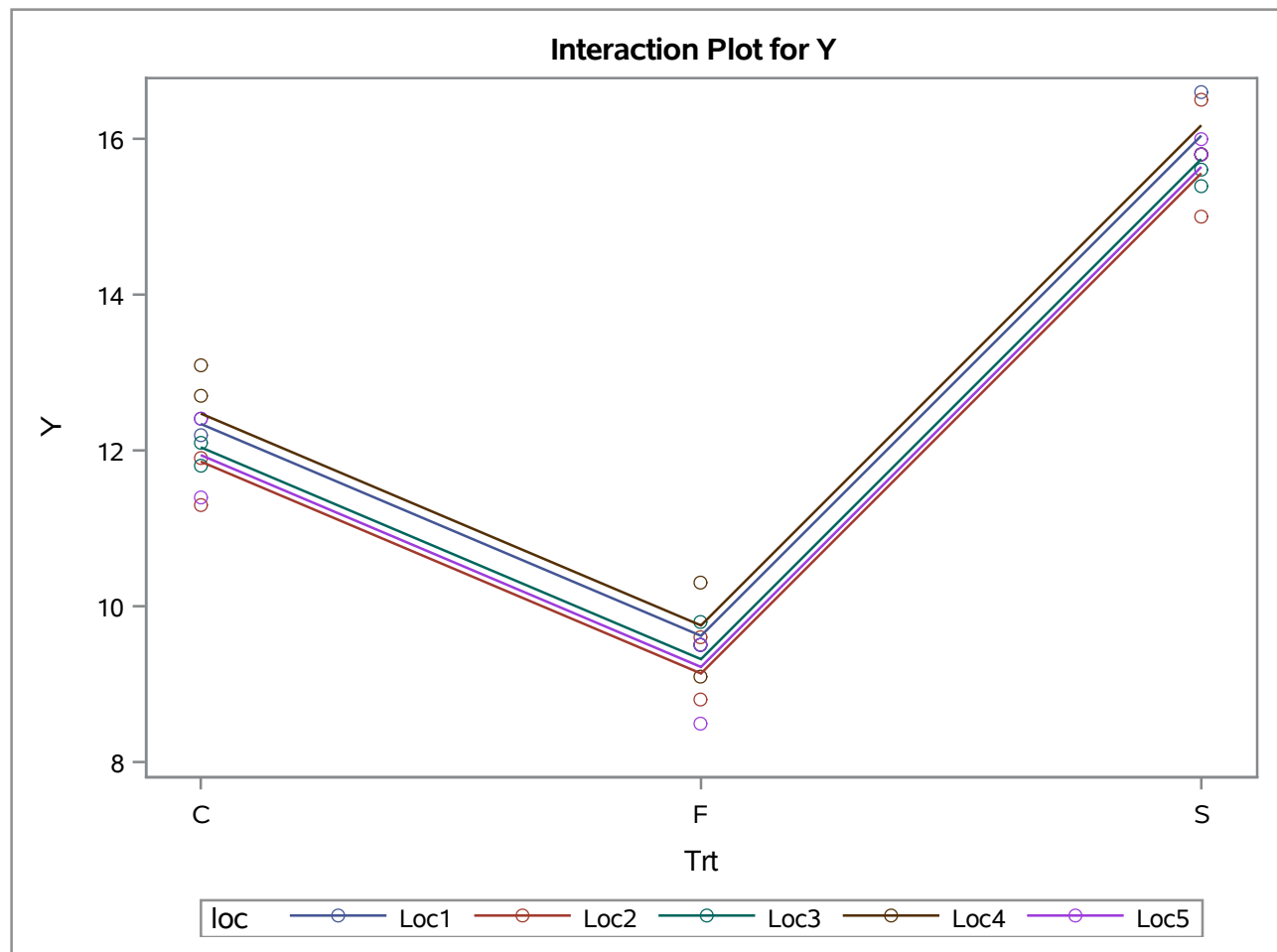
Dependent Variable: Y

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	209.3680000	34.8946667	147.92	<.0001
Error	23	5.4256667	0.2358986		
Corrected Total	29	214.7936667			

R-Square	Coeff Var	Root MSE	Y Mean
0.974740	3.899068	0.485694	12.45667

Source	DF	Type I SS	Mean Square	F Value	Pr > F
Trt	2	207.6826667	103.8413333	440.19	<.0001
loc	4	1.6853333	0.4213333	1.79	0.1660

Source	DF	Type III SS	Mean Square	F Value	Pr > F
Trt	2	207.6826667	103.8413333	440.19	<.0001
loc	4	1.6853333	0.4213333	1.79	0.1660

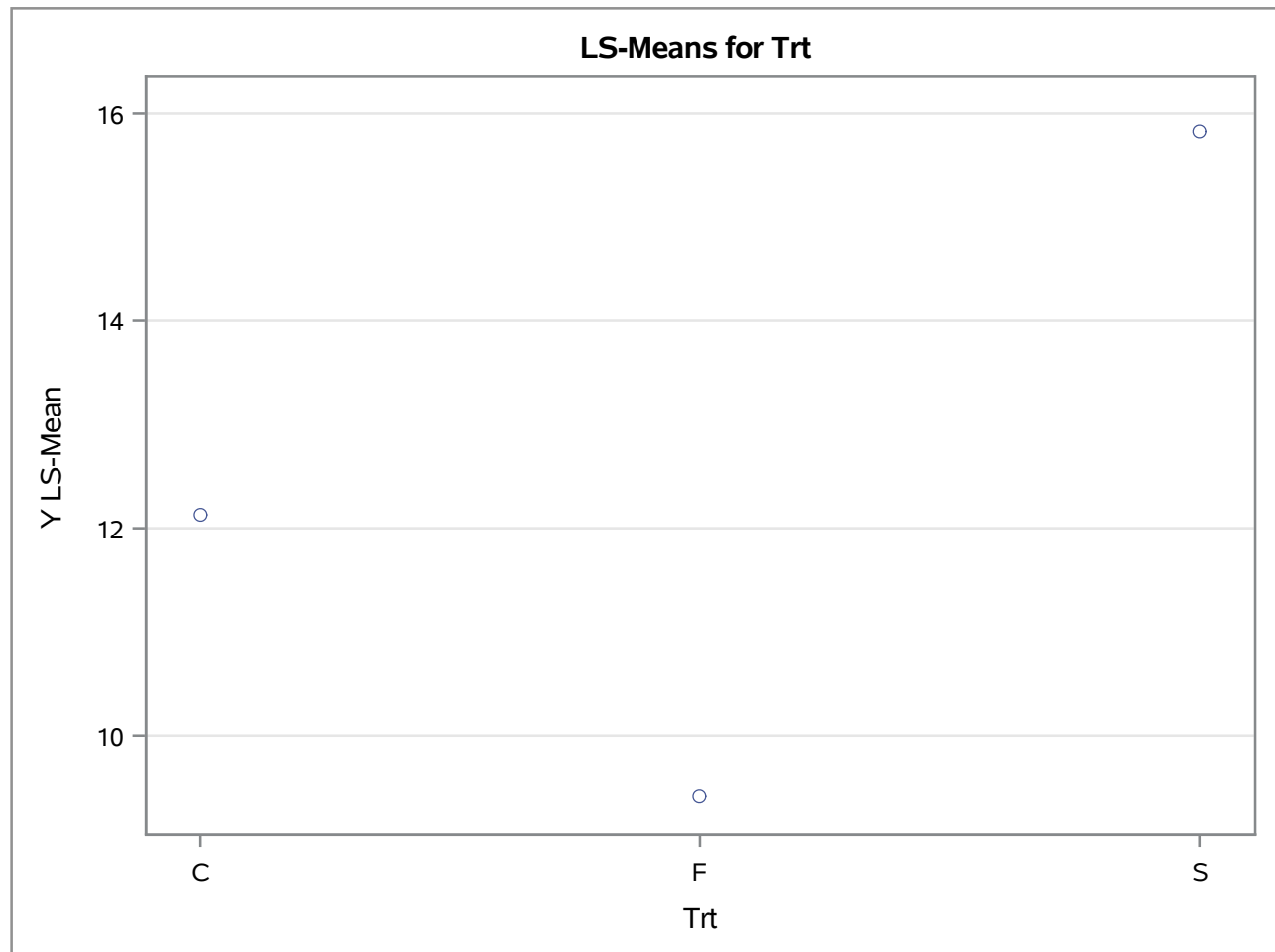




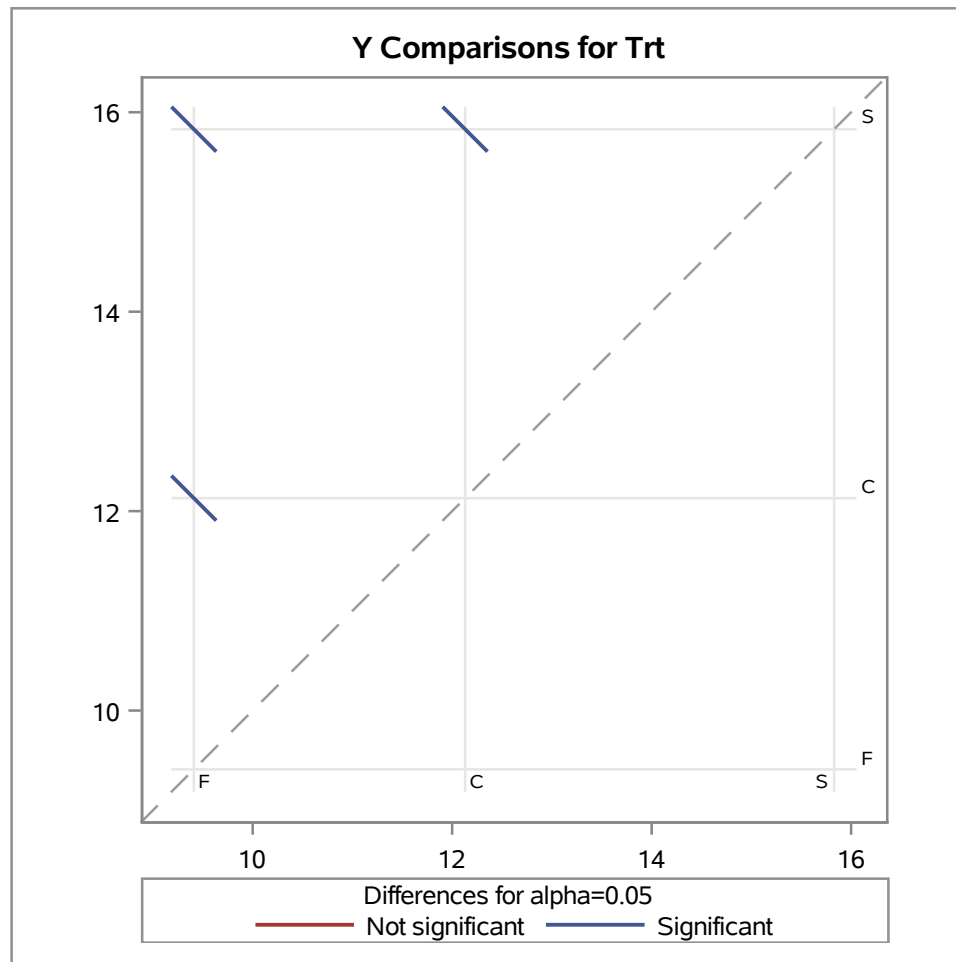
**The GLM Procedure  
Least Squares Means**

Trt	Y LSMEAN	Standard Error	Pr >  t	LSMEAN Number
C	12.1300000	0.1535899	<.0001	1
F	9.4100000	0.1535899	<.0001	2
S	15.8300000	0.1535899	<.0001	3

Least Squares Means for Effect Trt t for H0: LSMean(i)=LSMean(j) / Pr >  t			
Dependent Variable: Y			
i/j	1	2	3
1		12.52251 <.0001	-17.0343 <.0001
2	-12.5225 <.0001		-29.5568 <.0001
3	17.03429 <.0001	29.5568 <.0001	



The GLM Procedure  
Least Squares Means



**Note:** To ensure overall protection level, only probabilities associated with pre-planned comparisons should be used.