

## Appendix – B Analysis Output

### Method

Null hypothesis	All means are equal
Alternative hypothesis	Not all means are equal
Significance level	$\alpha = 0.05$

*Equal variances were assumed for the analysis.*

### Factor Information

Factor	Levels	Values
Factor	2	Total_Production_Non, Total_Production

### Analysis of Variance

Source	DF	Adj SS	Adj MS	F-Value	P-Value
Factor	1	27740882	27740882	53.19	0.000
Error	38	19819804	521574		
Total	39	47560686			

### Model Summary

S	R-sq	R-sq(adj)	R-sq(pred)
722.201	58.33%	57.23%	53.83%

### Means

Factor	N	Mean	StDev	95% CI
Total_Production_Non	20	1862	558	(1535, 2188)
Total_Production	20	3527	855	(3200, 3854)

*Pooled StDev = 722.201*

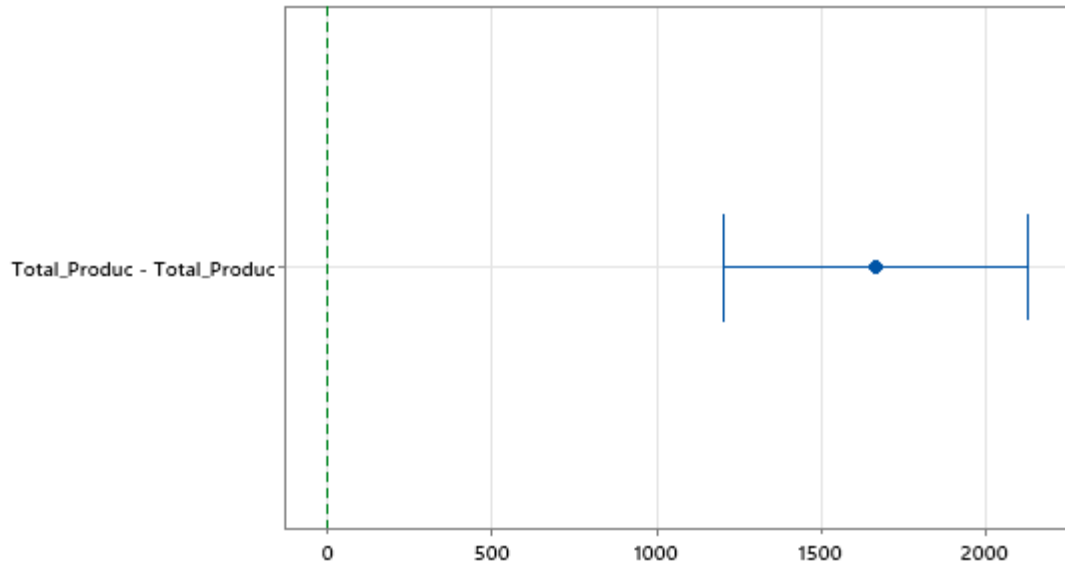
### Grouping Information Using the Fisher LSD Method and 95% Confidence

Factor	N	Mean	Grouping
Total_Production	20	3527	A
Total_Production_Non	20	1862	B

*Means that do not share a letter are significantly different.*

### Fisher Individual 95% CIs

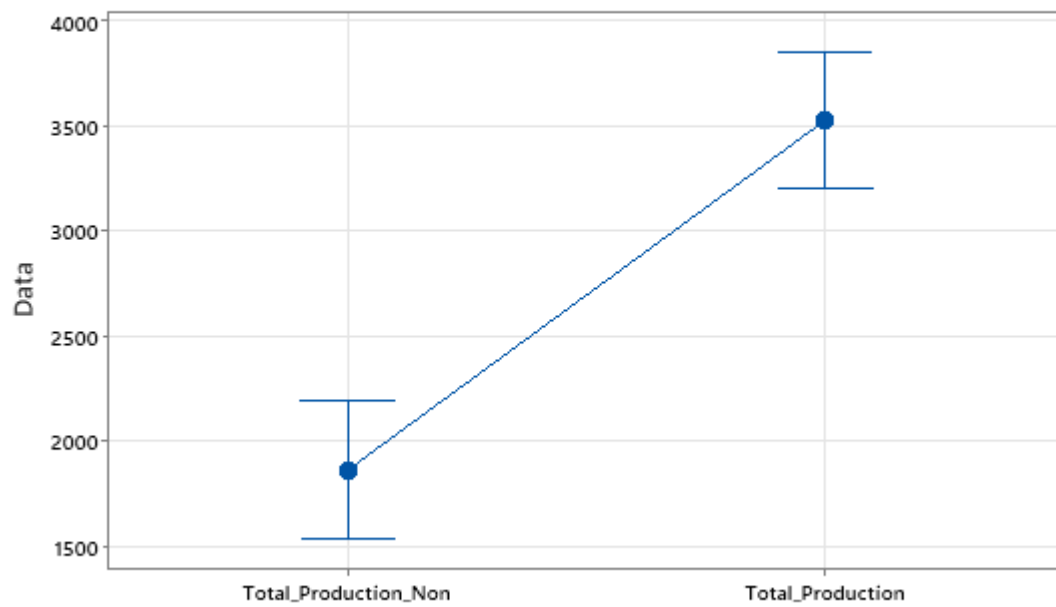
Difference of Means for Total\_Product, Total\_Product



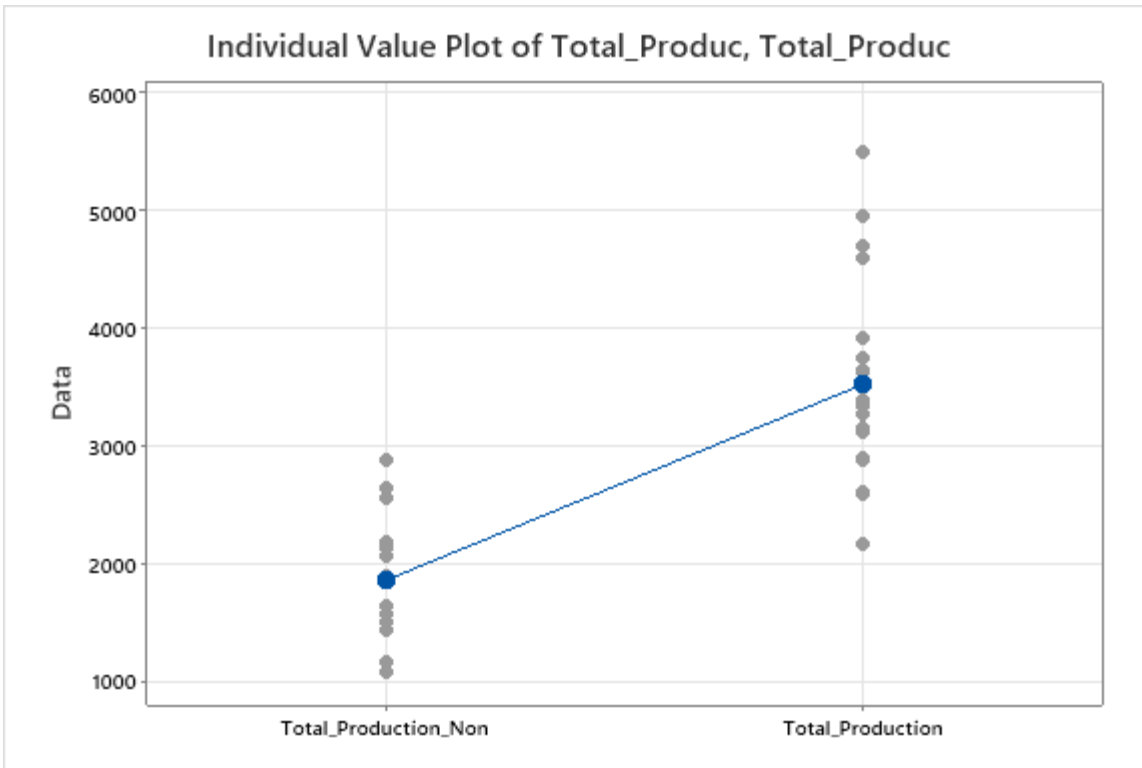
*If an interval does not contain zero, the corresponding means are significantly different.*

### Interval Plot of Total\_Product, Total\_Product

95% CI for the Mean



*The pooled standard deviation is used to calculate the intervals.*



## Method

Null hypothesis      All means are equal  
 Alternative hypothesis      Not all means are equal  
 Significance level       $\alpha = 0.05$

*Equal variances were assumed for the analysis.*

## Factor Information

Factor	Levels	Values
Factor	2	Exports_Non, Exports

## Analysis of Variance

Source	DF	Adj SS	Adj MS	F-Value	P-Value
Factor	1	22289205	22289205	55.42	0.000
Error	38	15284083	402213		
Total	39	37573288			

## Model Summary

S	R-sq	R-sq(adj)	R-sq(pred)
634.202	59.32%	58.25%	54.93%

## Means

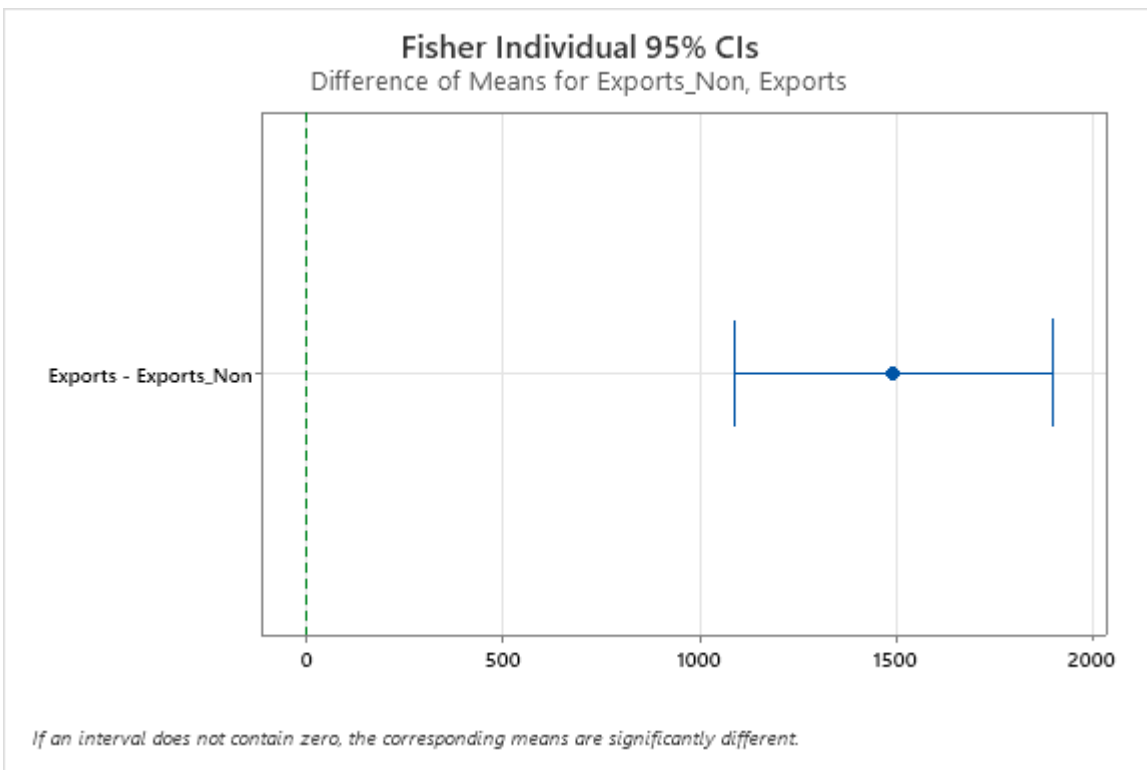
Factor	N	Mean	StDev	95% CI
Exports_Non	20	1702	539	(1415, 1989)
Exports	20	3195	717	(2908, 3482)

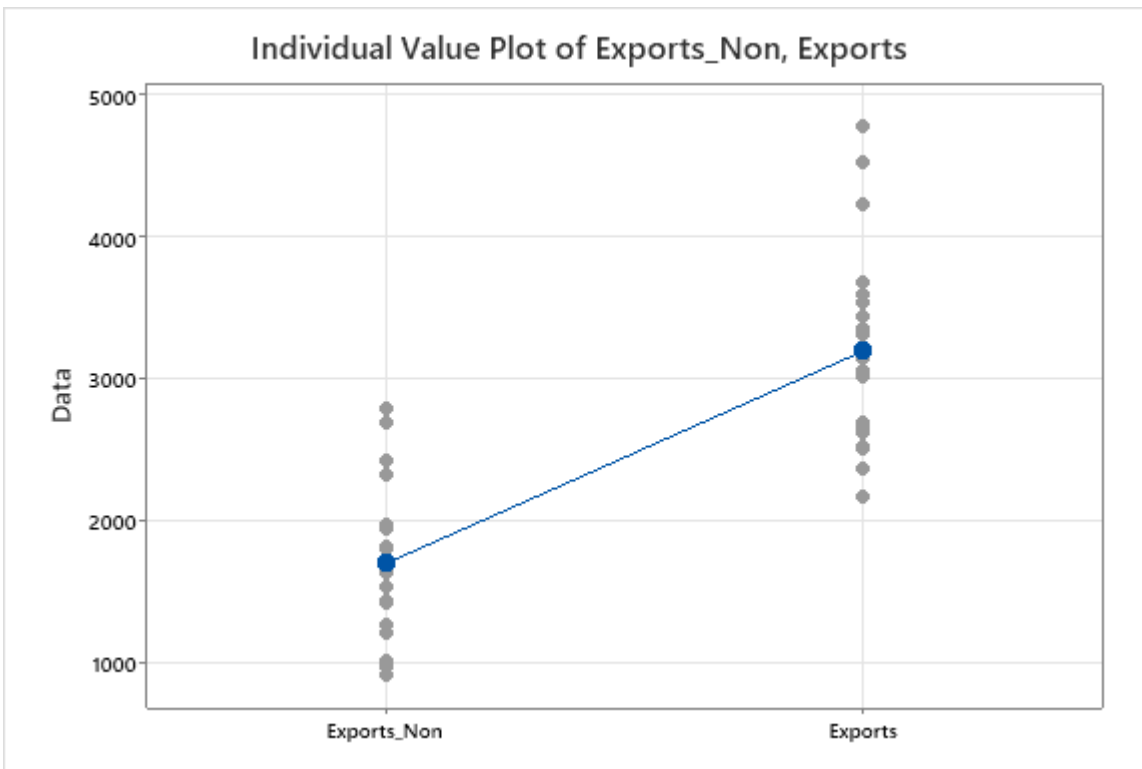
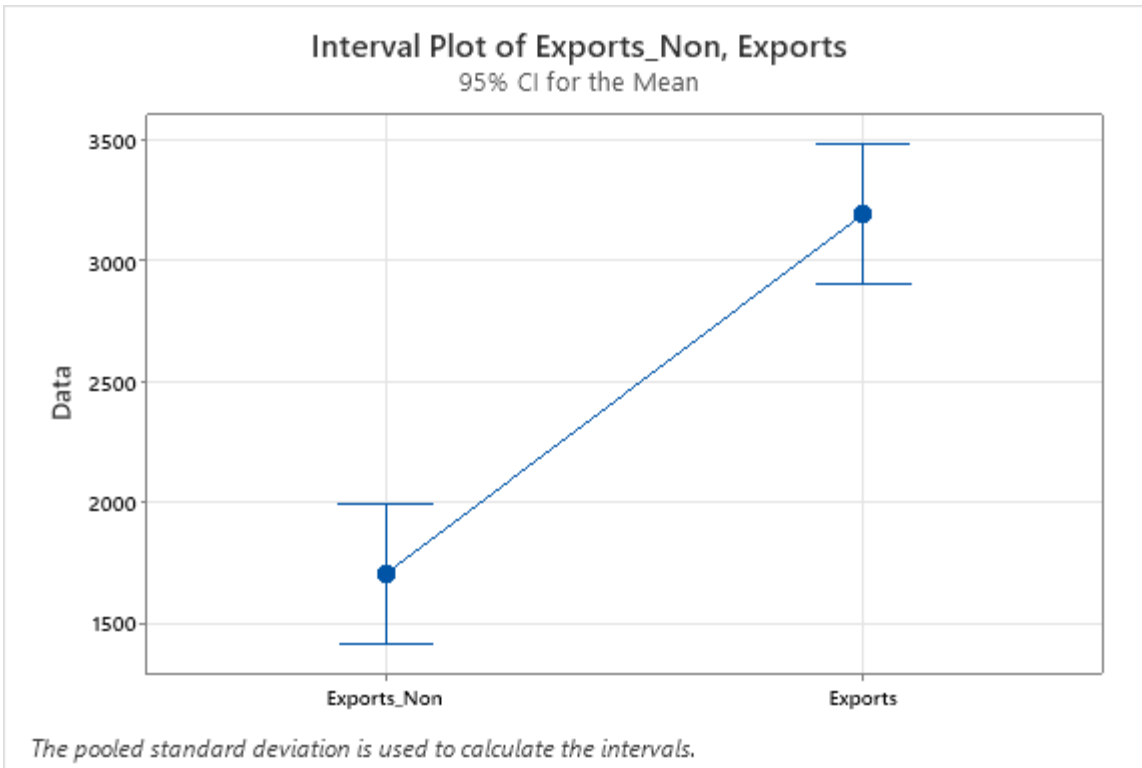
Pooled StDev = 634.202

## Grouping Information Using the Fisher LSD Method and 95% Confidence

Factor	N	Mean	Grouping
Exports	20	3195	A
Exports_Non	20	1702	B

Means that do not share a letter are significantly different.





## Method

Null hypothesis All means are equal  
 Alternative hypothesis Not all means are equal  
 Significance level  $\alpha = 0.05$

*Equal variances were assumed for the analysis.*

## Factor Information

Factor	Levels	Values
Factor	2	Price_paid_to_farmers_Non, Price_paid_to_farmers

## Analysis of Variance

Source	DF	Adj SS	Adj MS	F-Value	P-Value
Factor	1	5786	5786.0	18.36	0.000
Error	38	11978	315.2		
Total	39	17764			

## Model Summary

S	R-sq	R-sq(adj)	R-sq(pred)
17.7545	32.57%	30.80%	25.29%

## Means

Factor	N	Mean	StDev	95% CI
Price_paid_to_farmers_Non	20	25.37	14.34	(17.33, 33.41)
Price_paid_to_farmers	20	49.42	20.61	(41.39, 57.46)

*Pooled StDev = 17.7545*

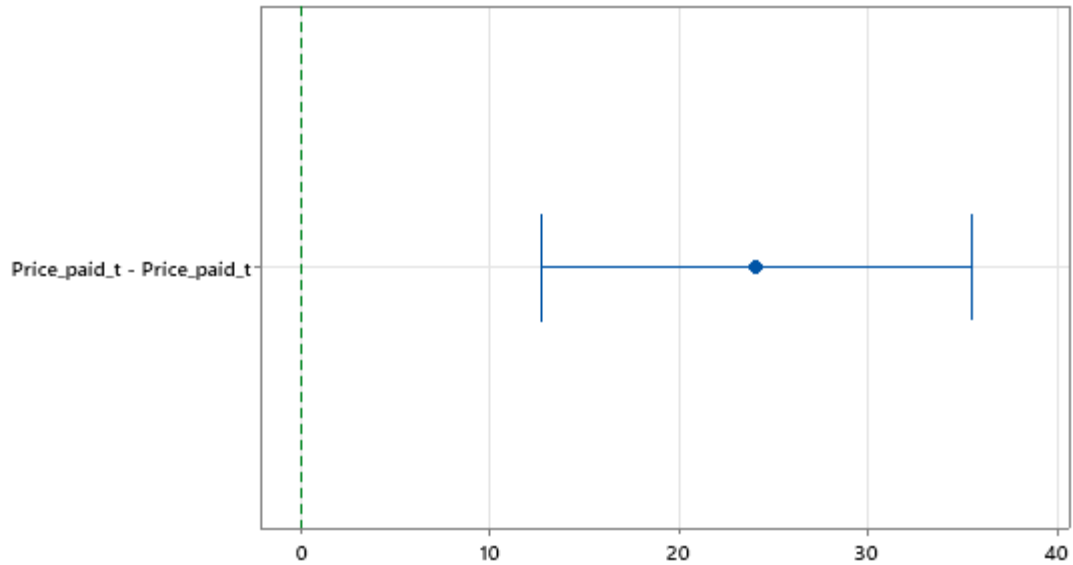
## Grouping Information Using the Fisher LSD Method and 95% Confidence

Factor	N	Mean	Grouping
Price_paid_to_farmers	20	49.42	A
Price_paid_to_farmers_Non	20	25.37	B

*Means that do not share a letter are significantly different.*

### Fisher Individual 95% CIs

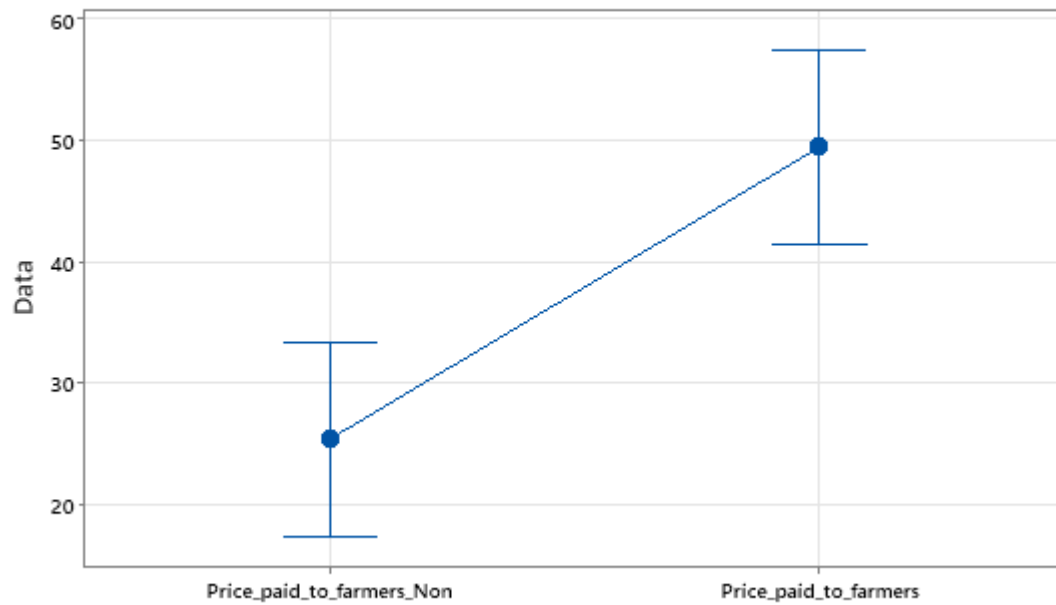
Difference of Means for Price\_paid\_t, Price\_paid\_t



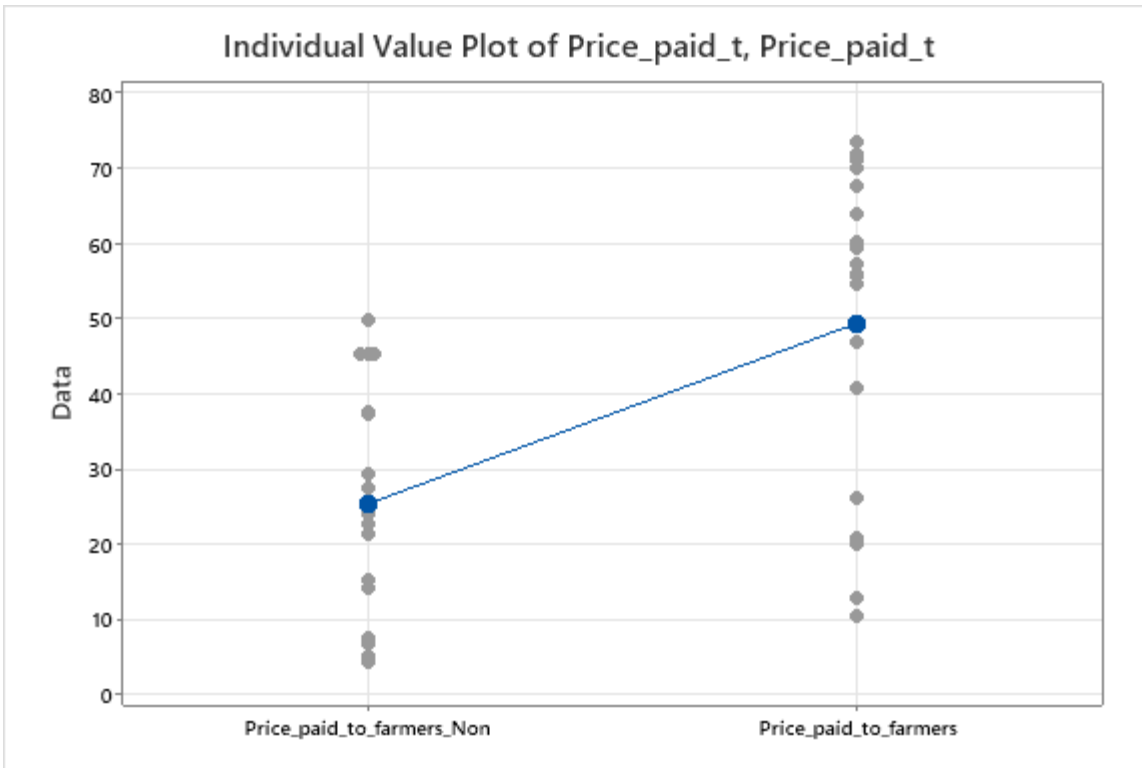
*If an interval does not contain zero, the corresponding means are significantly different.*

### Interval Plot of Price\_paid\_t, Price\_paid\_t

95% CI for the Mean



*The pooled standard deviation is used to calculate the intervals.*



## Method

Null hypothesis      All means are equal  
 Alternative hypothesis      Not all means are equal  
 Significance level       $\alpha = 0.05$

*Equal variances were assumed for the analysis.*

## Factor Information

Factor	Levels	Values
Factor	2	Income_Non, Income

## Analysis of Variance

Source	DF	Adj SS	Adj MS	F-Value	P-Value
Factor	1	1.28966E+11	1.28966E+11	29.31	0.000
Error	38	1.67206E+11	4400170573		
Total	39	2.96172E+11			

## Model Summary

S	R-sq	R-sq(adj)	R-sq(pred)
66333.8	43.54%	42.06%	37.45%



## Means

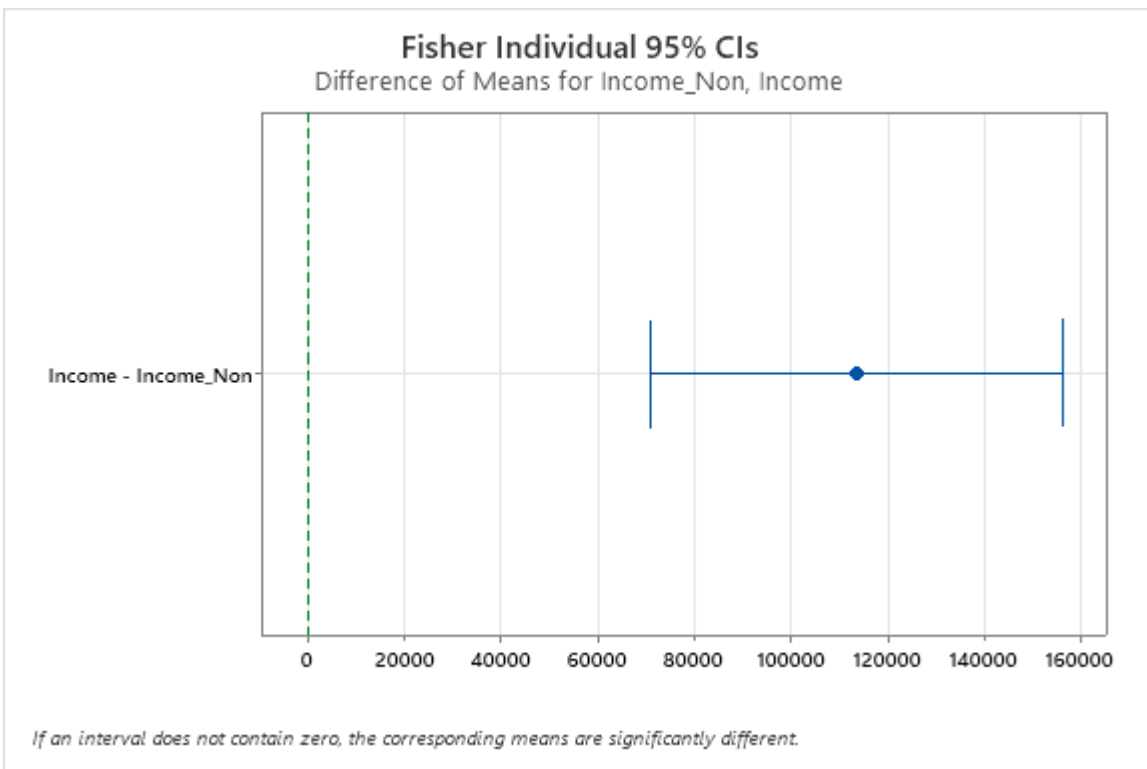
Factor	N	Mean	StDev	95% CI
Income_Non	20	49552	39922	(19525, 79580)
Income	20	163115	84892	(133088, 193143)

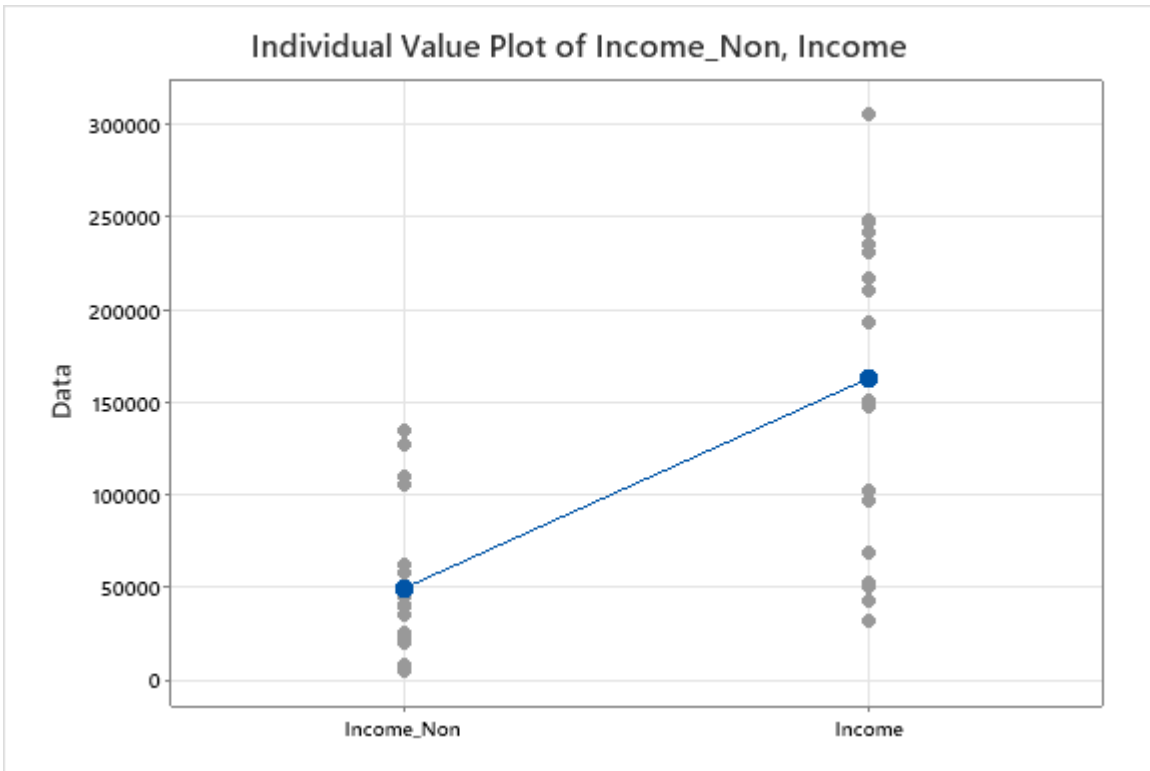
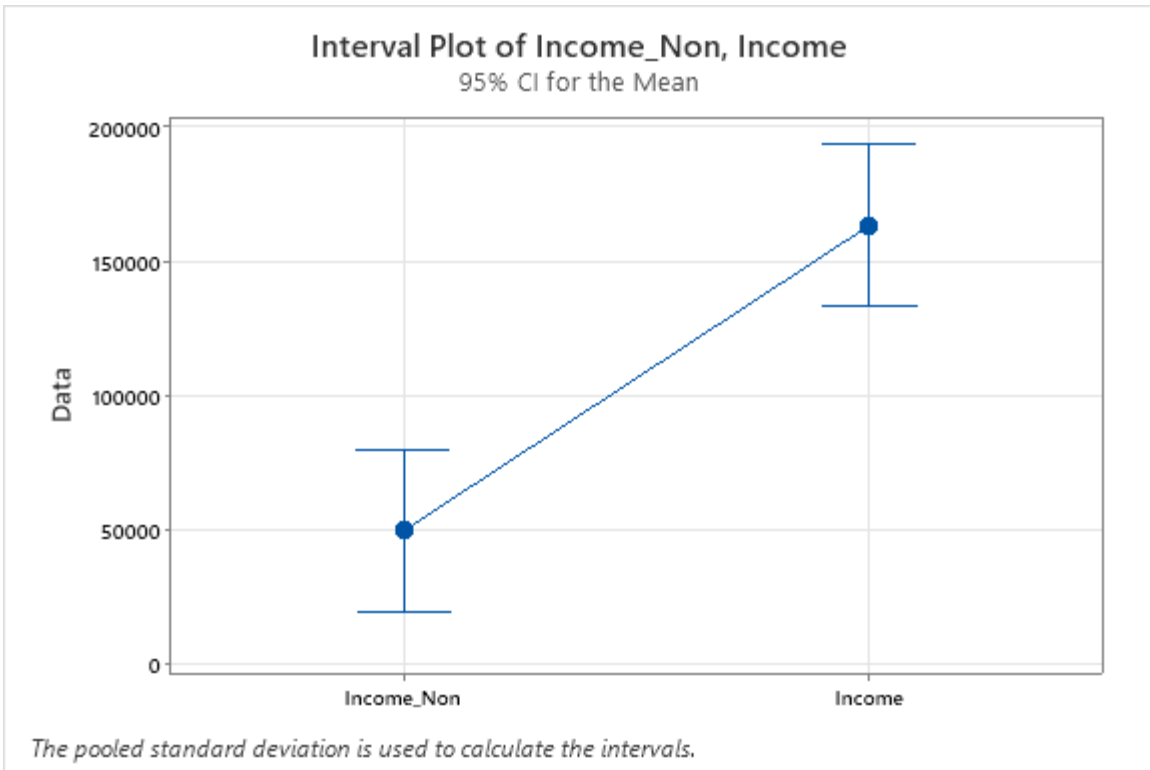
Pooled StDev = 66333.8

## Grouping Information Using the Fisher LSD Method and 95% Confidence

Factor	N	Mean	Grouping
Income	20	163115	A
Income_Non	20	49552	B

Means that do not share a letter are significantly different.





## Regression Equation

$$\text{Exports} = 2557 + 12.91 \text{ Price\_paid\_to\_farmers}$$

## Coefficients

Term	Coef	SE Coef	T-Value	P-Value	VIF
Constant	2557	406	6.30	0.000	
Price_paid_to_farmers	12.91	7.61	1.70	0.107	1.00

## Model Summary

S	R-sq	R-sq(adj)	R-sq(pred)
683.519	13.80%	9.01%	0.00%

## Analysis of Variance

Source	DF	Adj SS	Adj MS	F-Value	P-Value
Regression	1	1345995	1345995	2.88	0.107
Price_paid_to_farmers	1	1345995	1345995	2.88	0.107
Error	18	8409564	467198		
Total	19	9755559			

## Fits and Diagnostics for Unusual Observations

Obs	Exports	Fit	Resid	Std Resid
18	4774	3383	1391	2.12 R

R Large residual

## Regression Equation

$$\text{Total\_Production} = 2594 + 18.88 \text{ Price\_paid\_to\_farmers}$$

## Coefficients

Term	Coef	SE Coef	T-Value	P-Value	VIF
Constant	2594	465	5.58	0.000	
Price_paid_to_farmers	18.88	8.71	2.17	0.044	1.00

## Model Summary

S	R-sq	R-sq(adj)	R-sq(pred)
782.586	20.70%	16.29%	7.87%

## Analysis of Variance

Source	DF	Adj SS	Adj MS	F-Value	P-Value
Regression	1	2877502	2877502	4.70	0.044
Price_paid_to_farmers	1	2877502	2877502	4.70	0.044

Error	18	11023947	612441
Total	19	13901449	

## Fits and Diagnostics for Unusual Observations

<u>Obs</u>	<u>Total_Production</u>	<u>Fit</u>	<u>Resid</u>	<u>Std Resid</u>	
20	5509	3625	1884	2.47	R

*R Large residual*