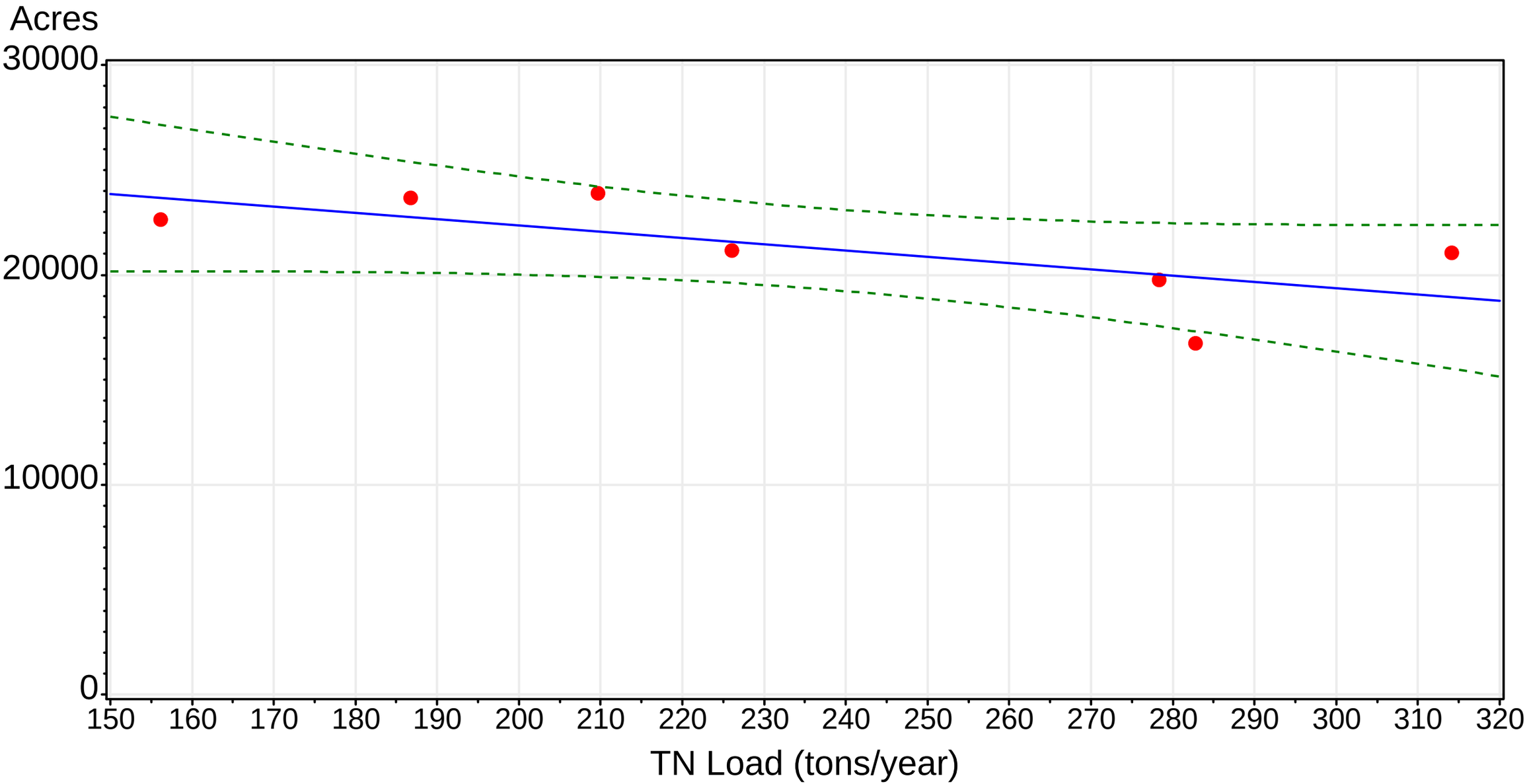
APPENDIX A

Annual Seagrass-Loading Regressions

Banana River Lagoon

Annual Seagrass Coverage
Related to Annual TN Load



Banana River Lagoon
Annual Seagrass Coverage
Related to Annual TN Load

The REG Procedure
Model: MODEL1
Dependent Variable: acres

Sublagoon=Banana River Lagoon

Number of Observations Read	**7**
Number of Observations Used	**7**

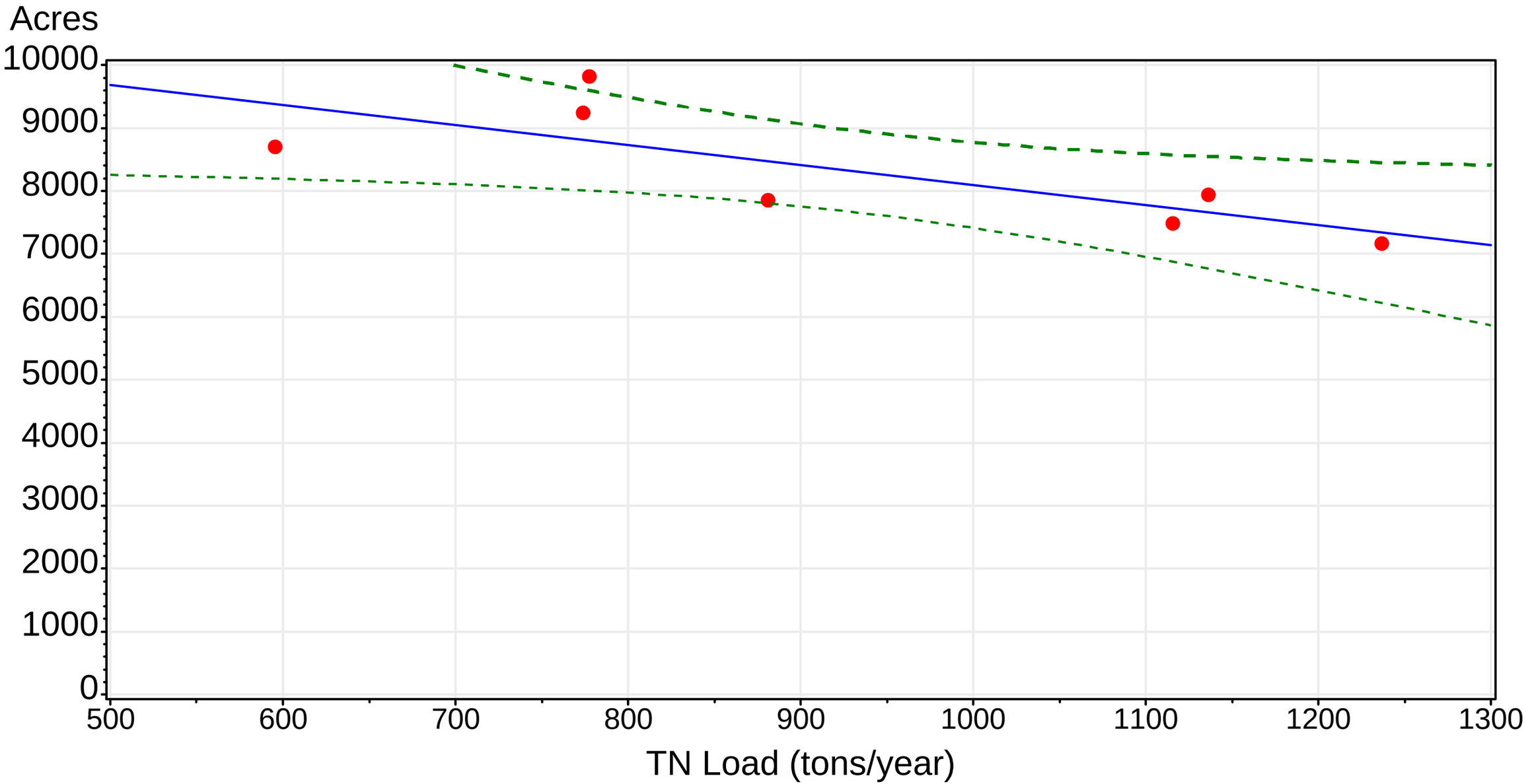
Analysis of Variance					
Source	**DF**	**Sum of Squares**	**Mean Square**	**F Value**	**Pr > F**
Model	**1**	**17548578**	**17548578**	**4.45**	**0.0886**
Error	**5**	**19709993**	**3941999**		
Corrected Total	**6**	**37258571**			

Root MSE	**1985.44668**	**R-Square**	**0.4710**
Dependent Mean	**21270**	**Adj R-Sq**	**0.3652**
Coeff Var	**9.33435**		

Parameter Estimates					
Variable	**DF**	**Parameter Estimate**	**Standard Error**	**t Value**	**Pr > |t|**
Intercept	**1**	**28330**	**3428.99244**	**8.26**	**0.0004**
tnload	**1**	**-29.87713**	**14.16042**	**-2.11**	**0.0886**

Central Indian River Lagoon

Annual Seagrass Coverage
Related to Annual TN Load



Central Indian River Lagoon
Annual Seagrass Coverage
Related to Annual TN Load

The REG Procedure
Model: MODEL1
Dependent Variable: acres

Sublagoon=Central Indian River Lagoon

Number of Observations Read	**7**
Number of Observations Used	**7**

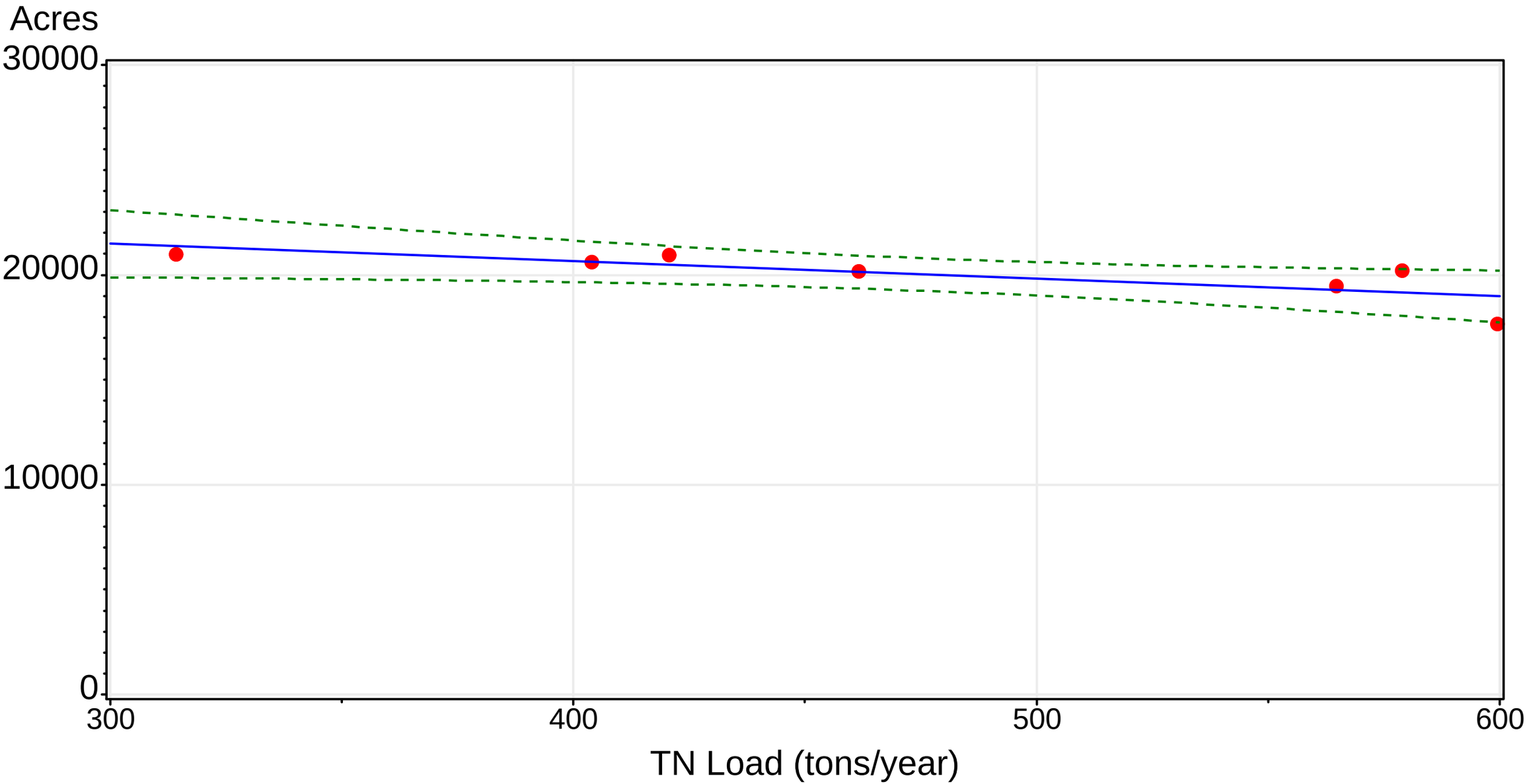
Analysis of Variance					
Source	**DF**	**Sum of Squares**	**Mean Square**	**F Value**	**Pr > F**
Model	**1**	**3393477**	**3393477**	**7.62**	**0.0398**
Error	**5**	**2225368**	**445074**		
Corrected Total	**6**	**5618845**			

Root MSE	**667.13833**	**R-Square**	**0.6039**
Dependent Mean	**8313.22571**	**Adj R-Sq**	**0.5247**
Coeff Var	**8.02502**		

Parameter Estimates					
Variable	**DF**	**Parameter Estimate**	**Standard Error**	**t Value**	**Pr > |t|**
Intercept	**1**	**11285**	**1105.34234**	**10.21**	**0.0002**
tnload	**1**	**-3.19199**	**1.15599**	**-2.76**	**0.0398**

North Indian River Lagoon

Annual Seagrass Coverage
Related to Annual TN Load



North Indian River Lagoon
Annual Seagrass Coverage
Related to Annual TN Load

The REG Procedure
Model: MODEL1
Dependent Variable: acres

Sublagoon=North Indian River Lagoon

Number of Observations Read	**7**
Number of Observations Used	**7**

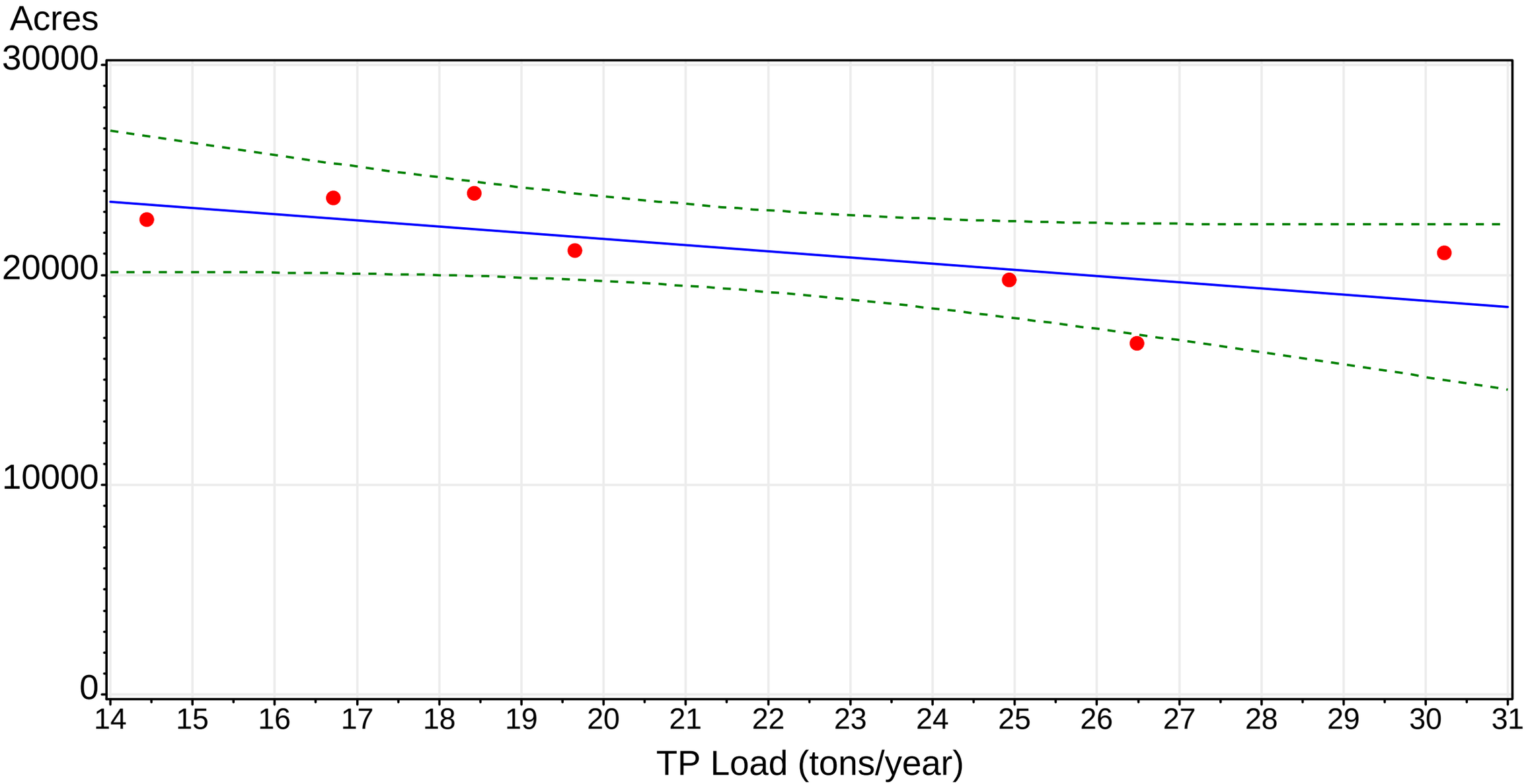
Analysis of Variance					
Source	**DF**	**Sum of Squares**	**Mean Square**	**F Value**	**Pr > F**
Model	**1**	**4790762**	**4790762**	**7.45**	**0.0413**
Error	**5**	**3213335**	**642667**		
Corrected Total	**6**	**8004097**			

Root MSE	**801.66512**	**R-Square**	**0.5985**
Dependent Mean	**20000**	**Adj R-Sq**	**0.5182**
Coeff Var	**4.00824**		

Parameter Estimates					
Variable	**DF**	**Parameter Estimate**	**Standard Error**	**t Value**	**Pr > |t|**
Intercept	**1**	**23999**	**1495.69671**	**16.05**	**<.0001**
tnload	**1**	**-8.37190**	**3.06630**	**-2.73**	**0.0413**

Banana River Lagoon

Annual Seagrass Coverage
Related to Annual TP Load



Banana River Lagoon
Annual Seagrass Coverage
Related to Annual TP Load

The REG Procedure
Model: MODEL1
Dependent Variable: acres

Sublagoon=Banana River Lagoon

Number of Observations Read	**7**
Number of Observations Used	**7**

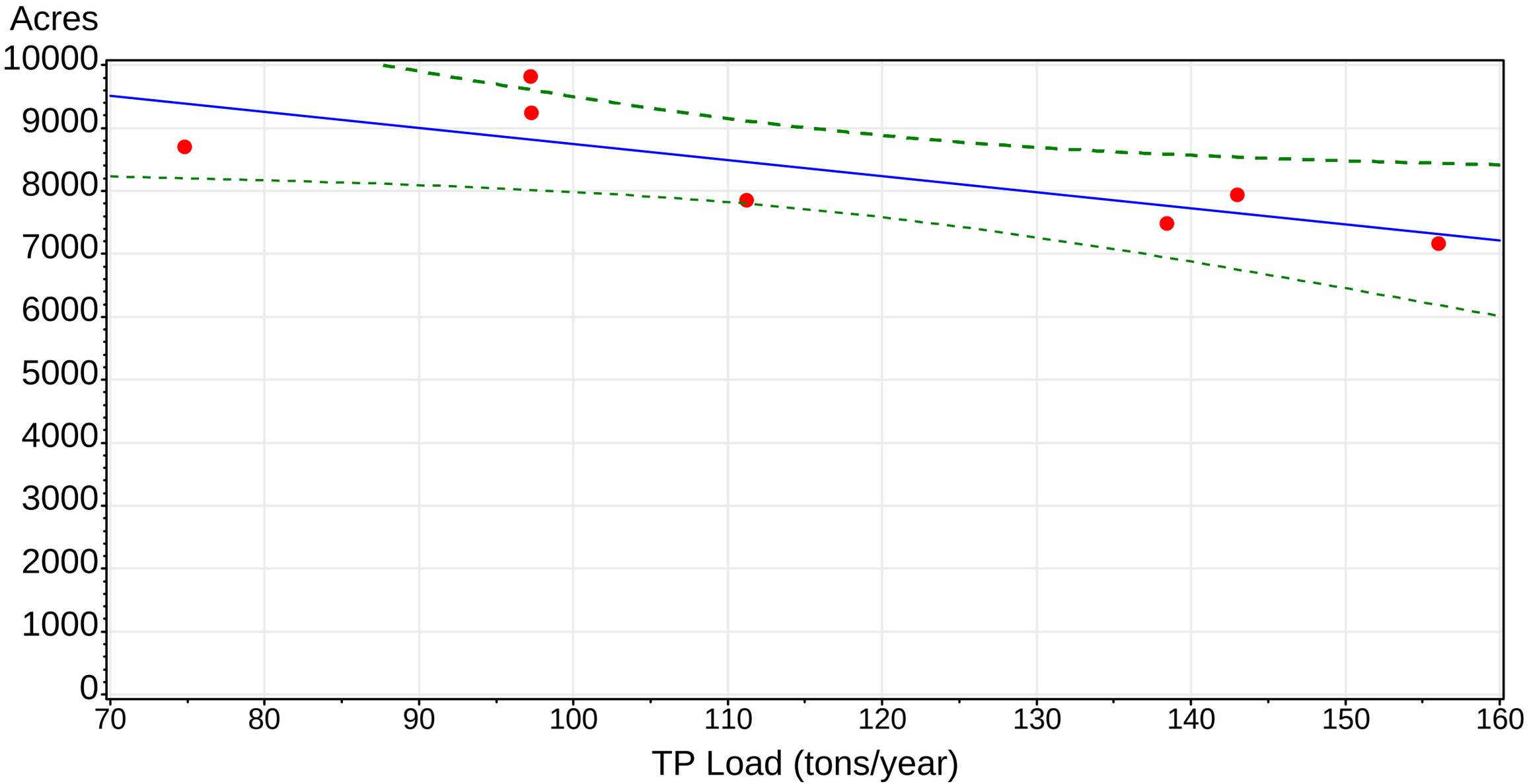
Analysis of Variance					
Source	**DF**	**Sum of Squares**	**Mean Square**	**F Value**	**Pr > F**
Model	**1**	**17340174**	**17340174**	**4.35**	**0.0913**
Error	**5**	**19918397**	**3983679**		
Corrected Total	**6**	**37258571**			

Root MSE	**1995.91568**	**R-Square**	**0.4654**
Dependent Mean	**21270**	**Adj R-Sq**	**0.3585**
Coeff Var	**9.38357**		

Parameter Estimates					
Variable	**DF**	**Parameter Estimate**	**Standard Error**	**t Value**	**Pr > |t|**
Intercept	**1**	**27641**	**3145.31535**	**8.79**	**0.0003**
tpload	**1**	**-295.57916**	**141.67372**	**-2.09**	**0.0913**

Central Indian River Lagoon

Annual Seagrass Coverage
Related to Annual TP Load



Central Indian River Lagoon
Annual Seagrass Coverage
Related to Annual TP Load

The REG Procedure
Model: MODEL1
Dependent Variable: acres

Sublagoon=Central Indian River Lagoon

Number of Observations Read	**7**
Number of Observations Used	**7**

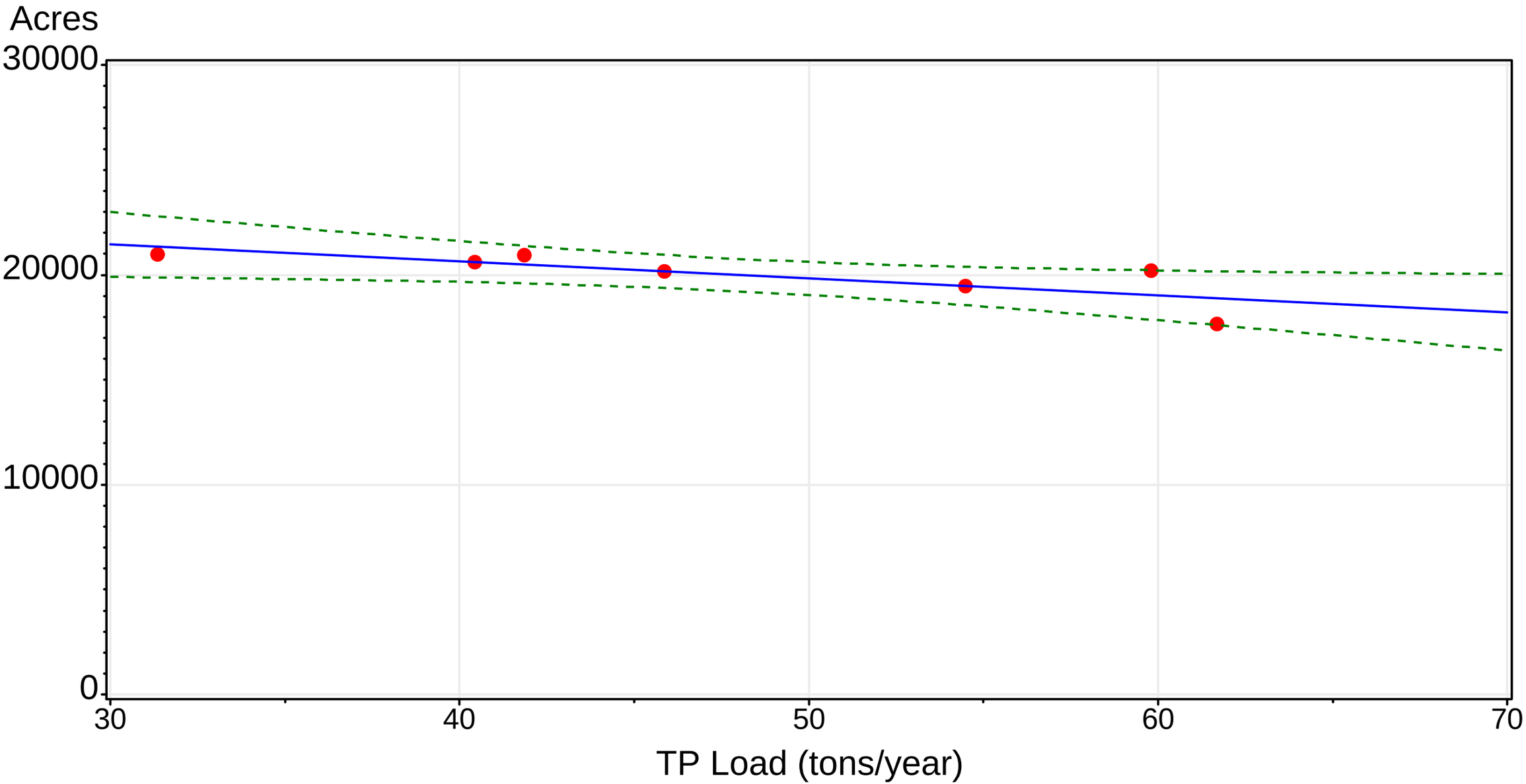
Analysis of Variance					
Source	**DF**	**Sum of Squares**	**Mean Square**	**F Value**	**Pr > F**
Model	**1**	**3413807**	**3413807**	**7.74**	**0.0388**
Error	**5**	**2205037**	**441007**		
Corrected Total	**6**	**5618845**			

Root MSE	**664.08394**	**R-Square**	**0.6076**
Dependent Mean	**8313.22571**	**Adj R-Sq**	**0.5291**
Coeff Var	**7.98828**		

Parameter Estimates					
Variable	**DF**	**Parameter Estimate**	**Standard Error**	**t Value**	**Pr > |t|**
Intercept	**1**	**11293**	**1099.89361**	**10.27**	**0.0002**
tpload	**1**	**-25.49482**	**9.16337**	**-2.78**	**0.0388**

North Indian River Lagoon

Annual Seagrass Coverage
Related to Annual TP Load



North Indian River Lagoon
Annual Seagrass Coverage
Related to Annual TP Load

The REG Procedure
Model: MODEL1
Dependent Variable: acres

Sublagoon=North Indian River Lagoon

Number of Observations Read	**7**
Number of Observations Used	**7**

Analysis of Variance					
Source	**DF**	**Sum of Squares**	**Mean Square**	**F Value**	**Pr > F**
Model	**1**	**4850565**	**4850565**	**7.69**	**0.0392**
Error	**5**	**3153532**	**630706**		
Corrected Total	**6**	**8004097**			

Root MSE	**794.17023**	**R-Square**	**0.6060**
Dependent Mean	**20000**	**Adj R-Sq**	**0.5272**
Coeff Var	**3.97076**		

Parameter Estimates					
Variable	**DF**	**Parameter Estimate**	**Standard Error**	**t Value**	**Pr > |t|**
Intercept	**1**	**23866**	**1425.88423**	**16.74**	**<.0001**
tpload	**1**	**-80.66199**	**29.08616**	**-2.77**	**0.0392**