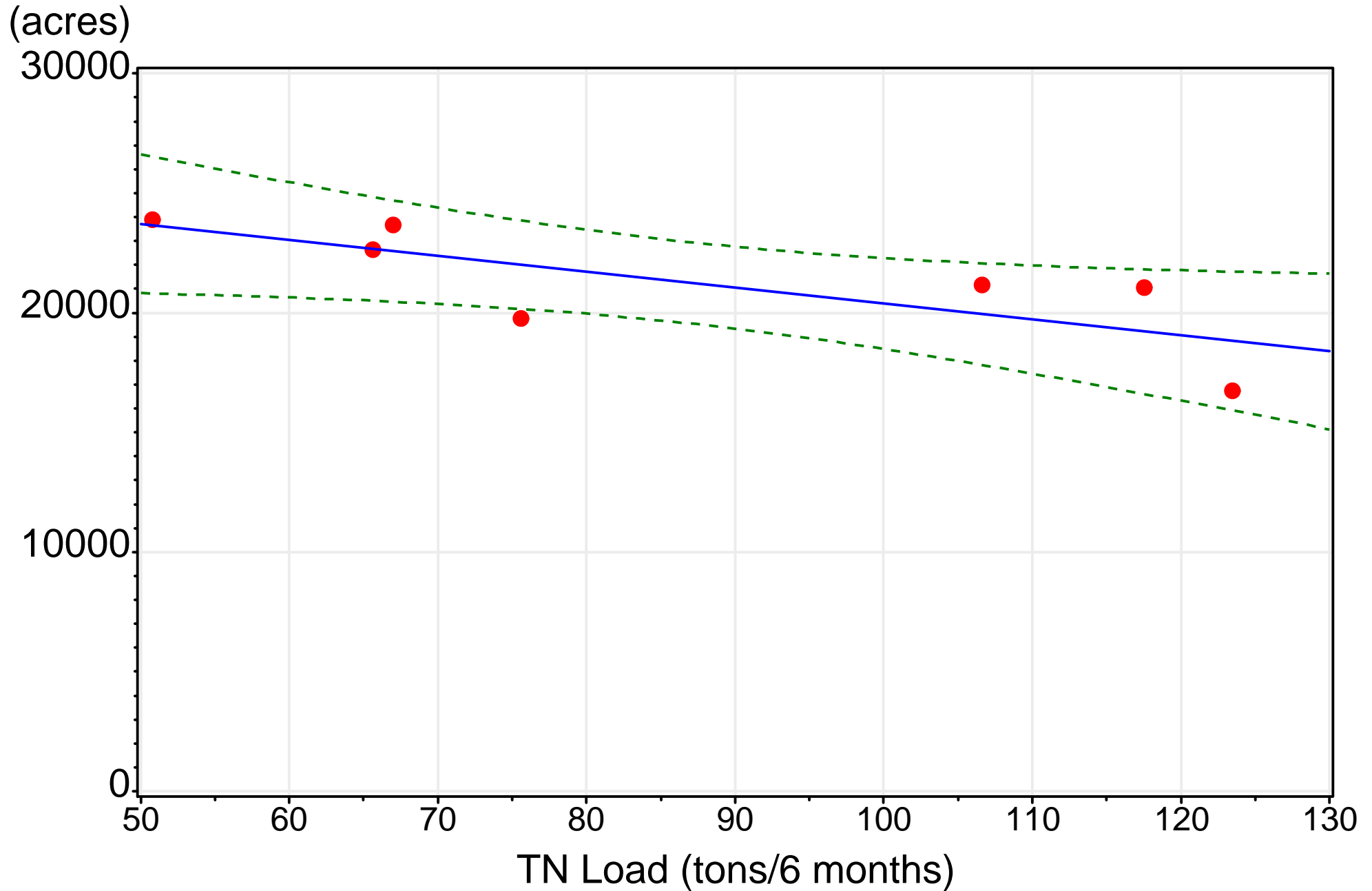


APPENDIX B

Seagrass-Loading Regressions 6, 12, 18 and 24 Month Loadings

Banana River Lagoon

Annual Seagrass Coverage Related to 6-Month Cumulative TN Load



Banana River Lagoon
Annual Seagrass Coverage
Related to 6-Month Cumulative TN Load

The REG Procedure
 Model: MODEL1
 Dependent Variable: acres

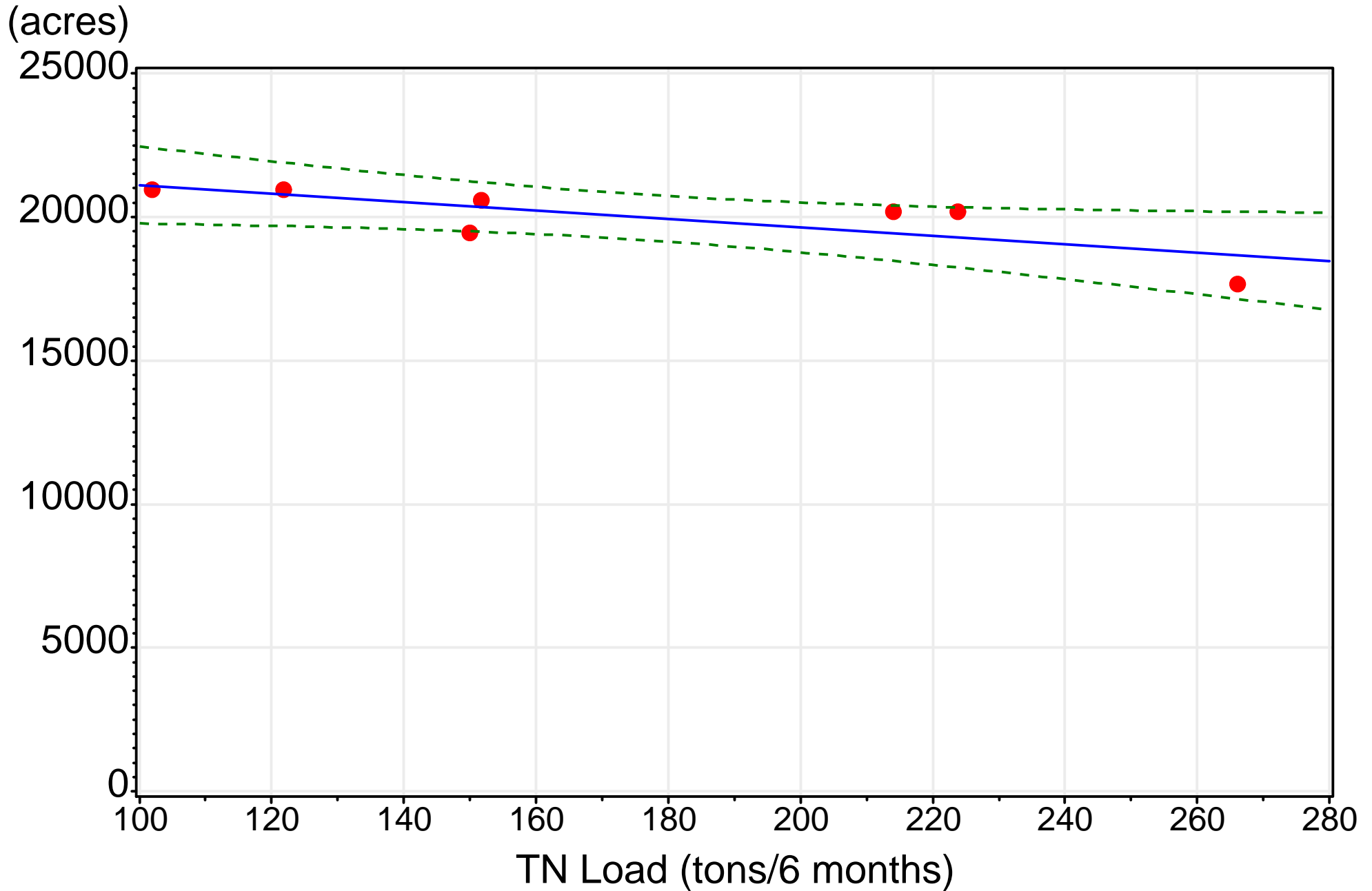
Number of Observations Read	7
Number of Observations Used	7

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	21950828	21950828	7.17	0.0439
Error	5	15307743	3061549		
Corrected Total	6	37258571			

Root MSE	1749.72816	R-Square	0.5891
Dependent Mean	21270	Adj R-Sq	0.5070
Coeff Var	8.22615		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	27045	2255.61606	11.99	<.0001
tn_lag6	1	-66.62151	24.88053	-2.68	0.0439

North Indian River Lagoon Annual Seagrass Coverage Related to 6-Month Cumulative TN Load



*North Indian River Lagoon
Annual Seagrass Coverage
Related to 6-Month Cumulative TN Load*

The REG Procedure
Model: MODEL1
Dependent Variable: acres

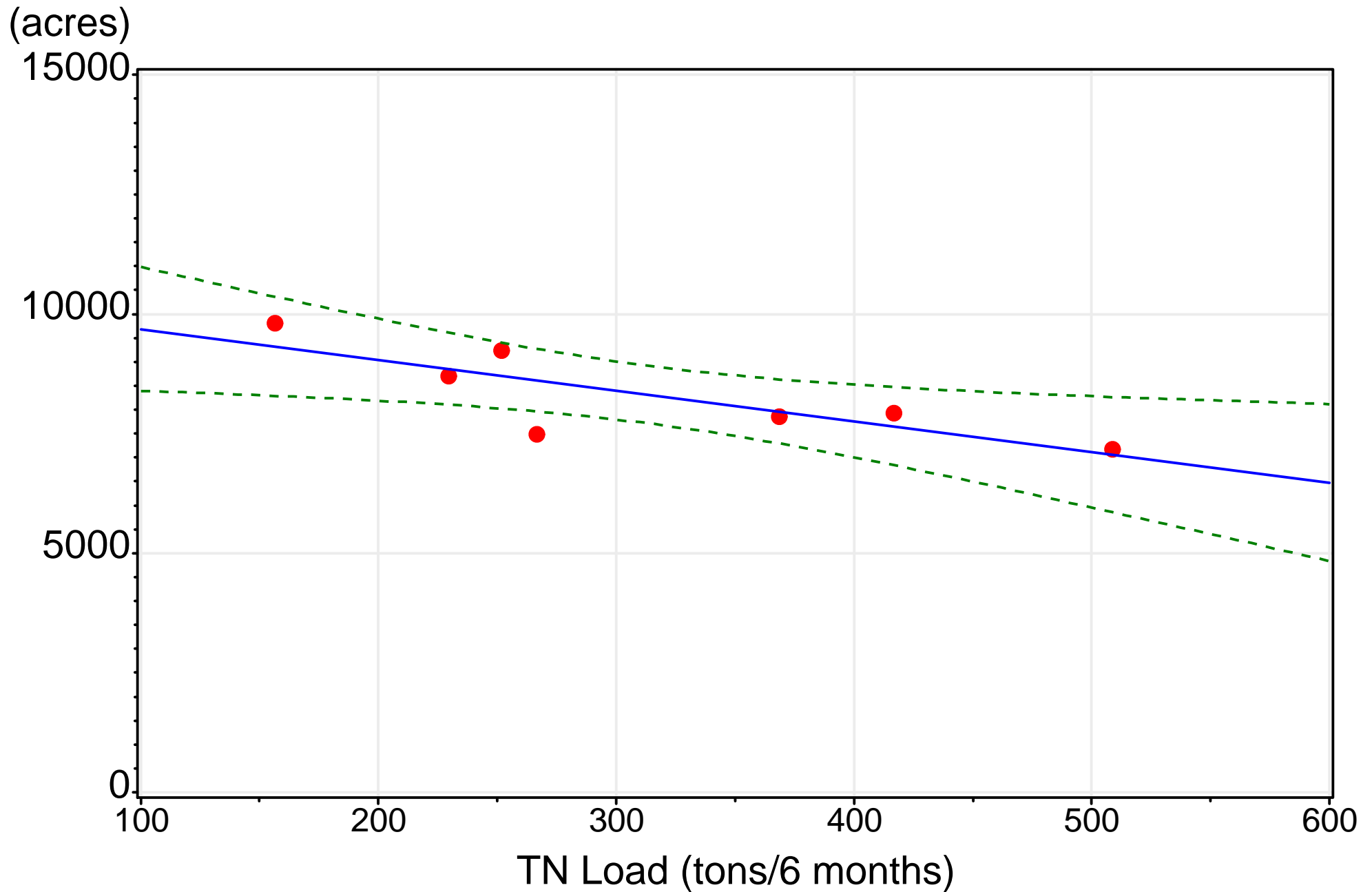
Number of Observations Read	7
Number of Observations Used	7

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	4667503	4667503	6.99	0.0457
Error	5	3336594	667319		
Corrected Total	6	8004097			

Root MSE	816.89580	R-Square	0.5831
Dependent Mean	20000	Adj R-Sq	0.4998
Coeff Var	4.08439		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	22585	1024.74189	22.04	<.0001
tn_lag6	1	-14.71515	5.56402	-2.64	0.0457

Central Indian River Lagoon Annual Seagrass Coverage Related to 6-Month Cumulative TN Load



*Central Indian River Lagoon
Annual Seagrass Coverage
Related to 6-Month Cumulative TN Load*

The REG Procedure
Model: MODEL1
Dependent Variable: acres

Number of Observations Read	7
Number of Observations Used	7

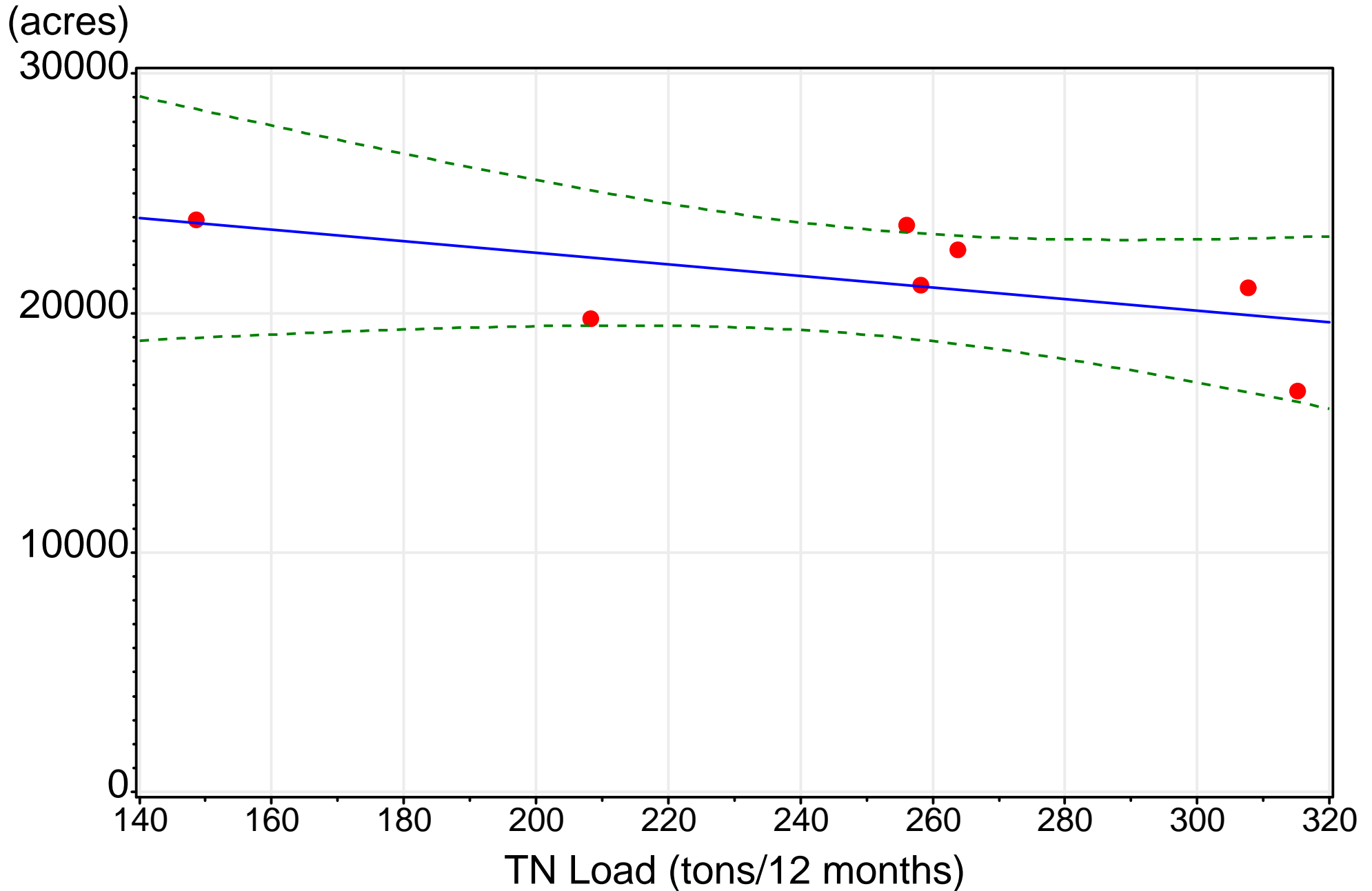
Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	3687162	3687162	9.54	0.0272
Error	5	1931683	386337		
Corrected Total	6	5618845			

Root MSE	621.55976	R-Square	0.6562
Dependent Mean	8313.22571	Adj R-Sq	0.5875
Coeff Var	7.47676		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	10330	693.74192	14.89	<.0001
tn_lag6	1	-6.42078	2.07838	-3.09	0.0272

Banana River Lagoon

Annual Seagrass Coverage Related to 12-Month Cumulative TN Load



***Banana River Lagoon
Annual Seagrass Coverage
Related to 12-Month Cumulative TN Load***

The REG Procedure
Model: MODEL1
Dependent Variable: acres

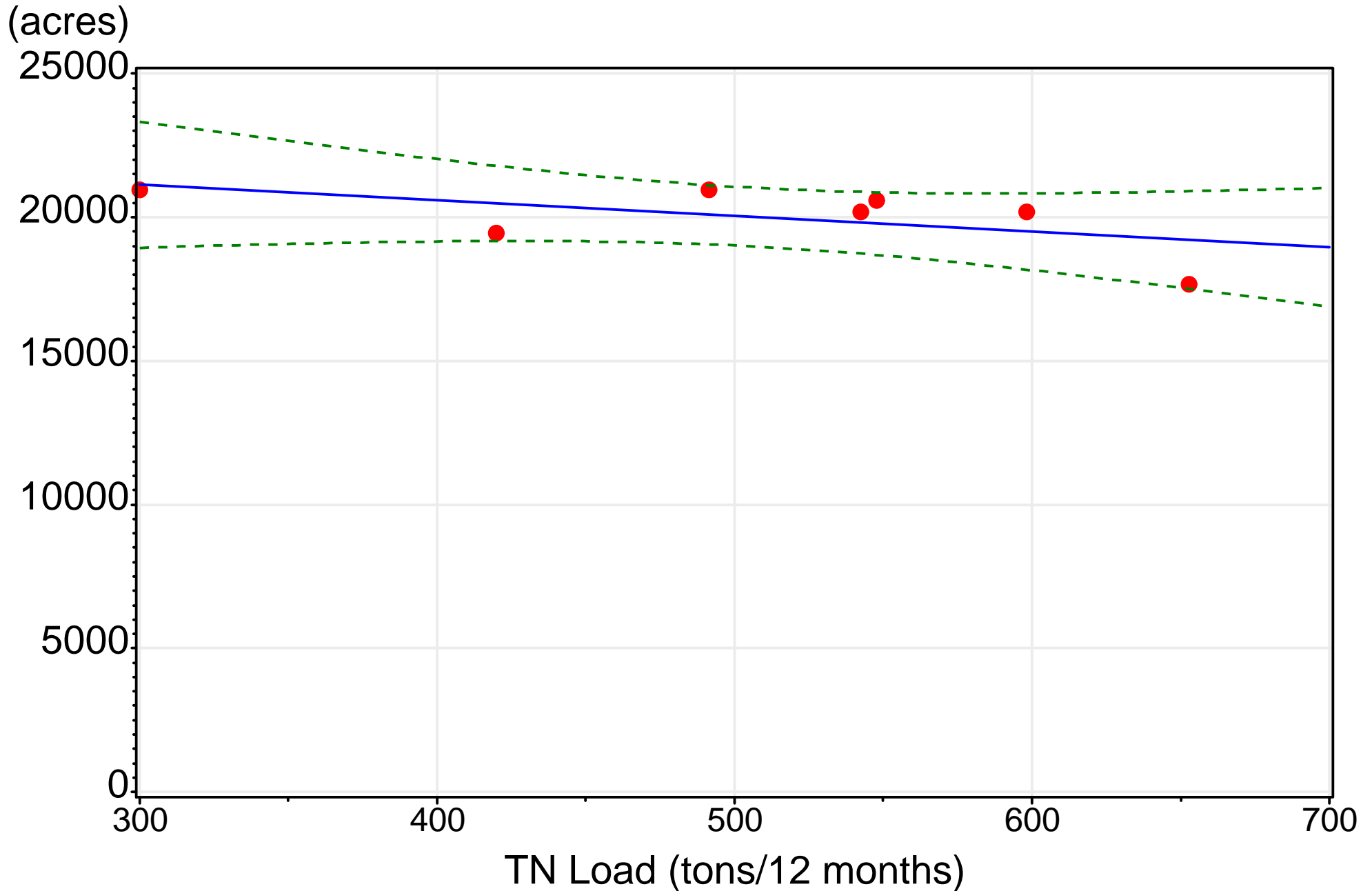
Number of Observations Read	7
Number of Observations Used	7

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	11557935	11557935	2.25	0.1940
Error	5	25700636	5140127		
Corrected Total	6	37258571			

Root MSE	2267.18487	R-Square	0.3102
Dependent Mean	21270	Adj R-Sq	0.1723
Coeff Var	10.65891		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	27322	4126.01592	6.62	0.0012
tn_lag12	1	-24.10241	16.07338	-1.50	0.1940

North Indian River Lagoon Annual Seagrass Coverage Related to 12-Month Cumulative TN Load



*North Indian River Lagoon
Annual Seagrass Coverage
Related to 12-Month Cumulative TN Load*

The REG Procedure
Model: MODEL1
Dependent Variable: acres

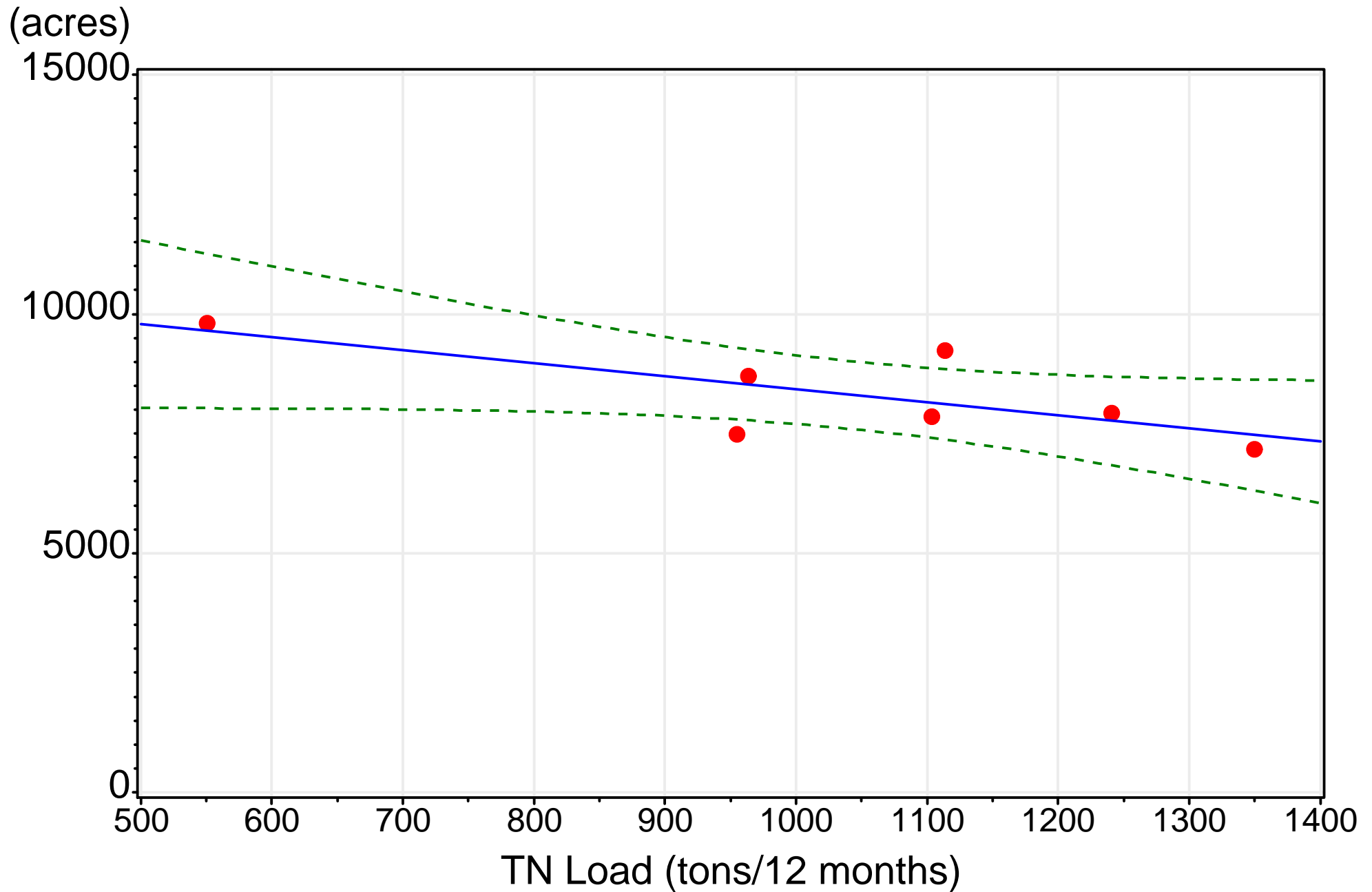
Number of Observations Read	7
Number of Observations Used	7

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	2490153	2490153	2.26	0.1932
Error	5	5513944	1102789		
Corrected Total	6	8004097			

Root MSE	1050.13752	R-Square	0.3111
Dependent Mean	20000	Adj R-Sq	0.1733
Coeff Var	5.25057		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	22778	1890.80255	12.05	<.0001
tn_lag12	1	-5.47371	3.64263	-1.50	0.1932

Central Indian River Lagoon Annual Seagrass Coverage Related to 12-Month Cumulative TN Load



**Central Indian River Lagoon
Annual Seagrass Coverage
Related to 12-Month Cumulative TN Load**

The REG Procedure
Model: MODEL1
Dependent Variable: acres

Number of Observations Read	7
Number of Observations Used	7

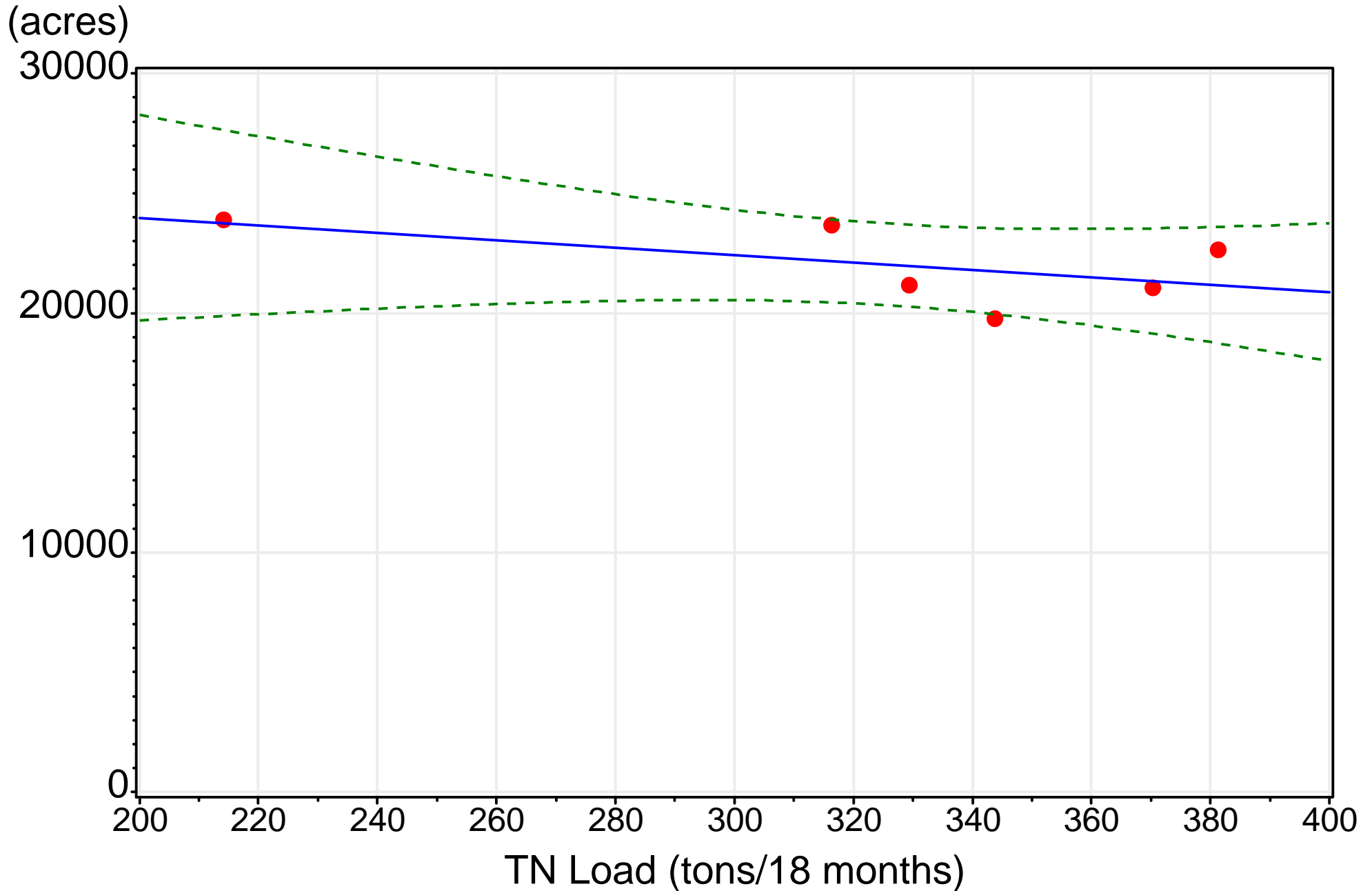
Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	2958277	2958277	5.56	0.0649
Error	5	2660568	532114		
Corrected Total	6	5618845			

Root MSE	729.46117	R-Square	0.5265
Dependent Mean	8313.22571	Adj R-Sq	0.4318
Coeff Var	8.77471		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	11146	1232.68109	9.04	0.0003
tn_lag12	1	-2.72491	1.15567	-2.36	0.0649

Banana River Lagoon

Annual Seagrass Coverage Related to 18-Month Cumulative TN Load



***Banana River Lagoon
Annual Seagrass Coverage
Related to 18-Month Cumulative TN Load***

The REG Procedure
Model: MODEL1
Dependent Variable: acres

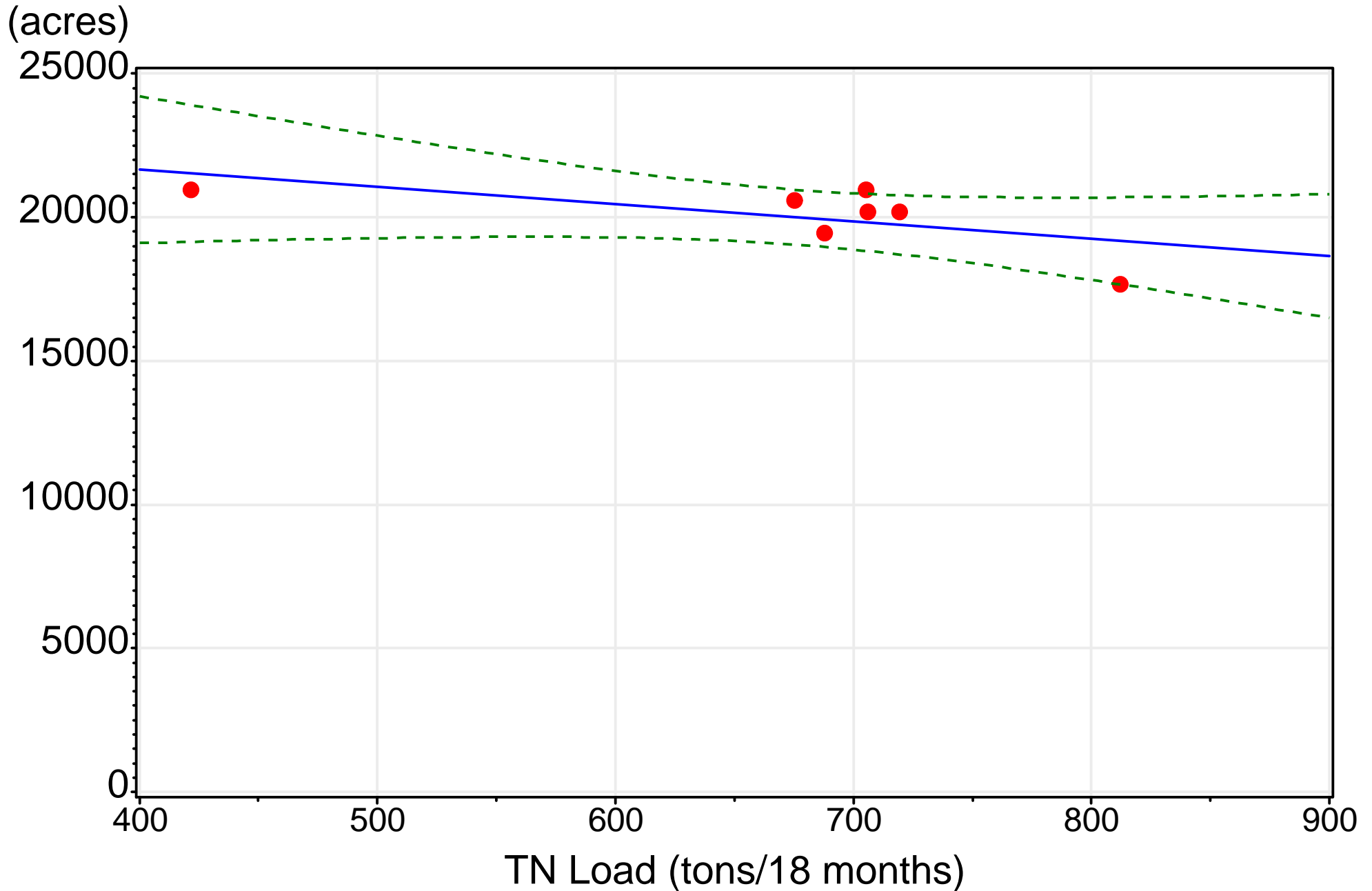
Number of Observations Read	7
Number of Observations Used	6
Number of Observations with Missing Values	1

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	4325508	4325508	1.91	0.2393
Error	4	9068810	2267203		
Corrected Total	5	13394318			

Root MSE	1505.72329	R-Square	0.3229
Dependent Mean	22024	Adj R-Sq	0.1537
Coeff Var	6.83670		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	27084	3714.43498	7.29	0.0019
tn_lag18	1	-15.52605	11.24055	-1.38	0.2393

North Indian River Lagoon Annual Seagrass Coverage Related to 18-Month Cumulative TN Load



*North Indian River Lagoon
Annual Seagrass Coverage
Related to 18-Month Cumulative TN Load*

The REG Procedure
Model: MODEL1
Dependent Variable: acres

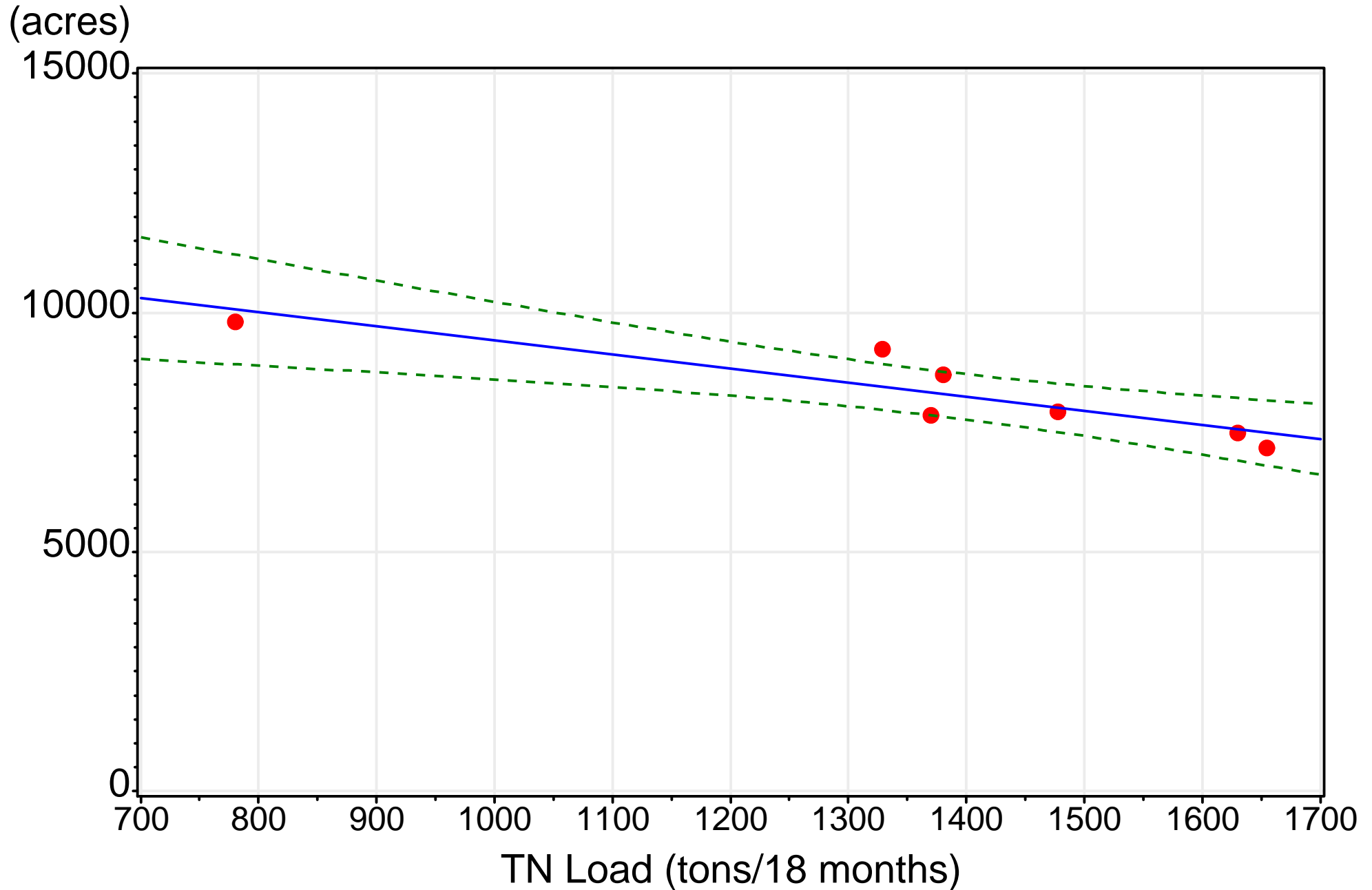
Number of Observations Read	7
Number of Observations Used	7

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	3144842	3144842	3.24	0.1319
Error	5	4859255	971851		
Corrected Total	6	8004097			

Root MSE	985.82506	R-Square	0.3929
Dependent Mean	20000	Adj R-Sq	0.2715
Coeff Var	4.92901		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	24063	2288.95178	10.51	0.0001
tn_lag18	1	-6.01447	3.34347	-1.80	0.1319

Central Indian River Lagoon Annual Seagrass Coverage Related to 18-Month Cumulative TN Load



**Central Indian River Lagoon
Annual Seagrass Coverage
Related to 18-Month Cumulative TN Load**

The REG Procedure
Model: MODEL1
Dependent Variable: acres

Number of Observations Read	7
Number of Observations Used	7

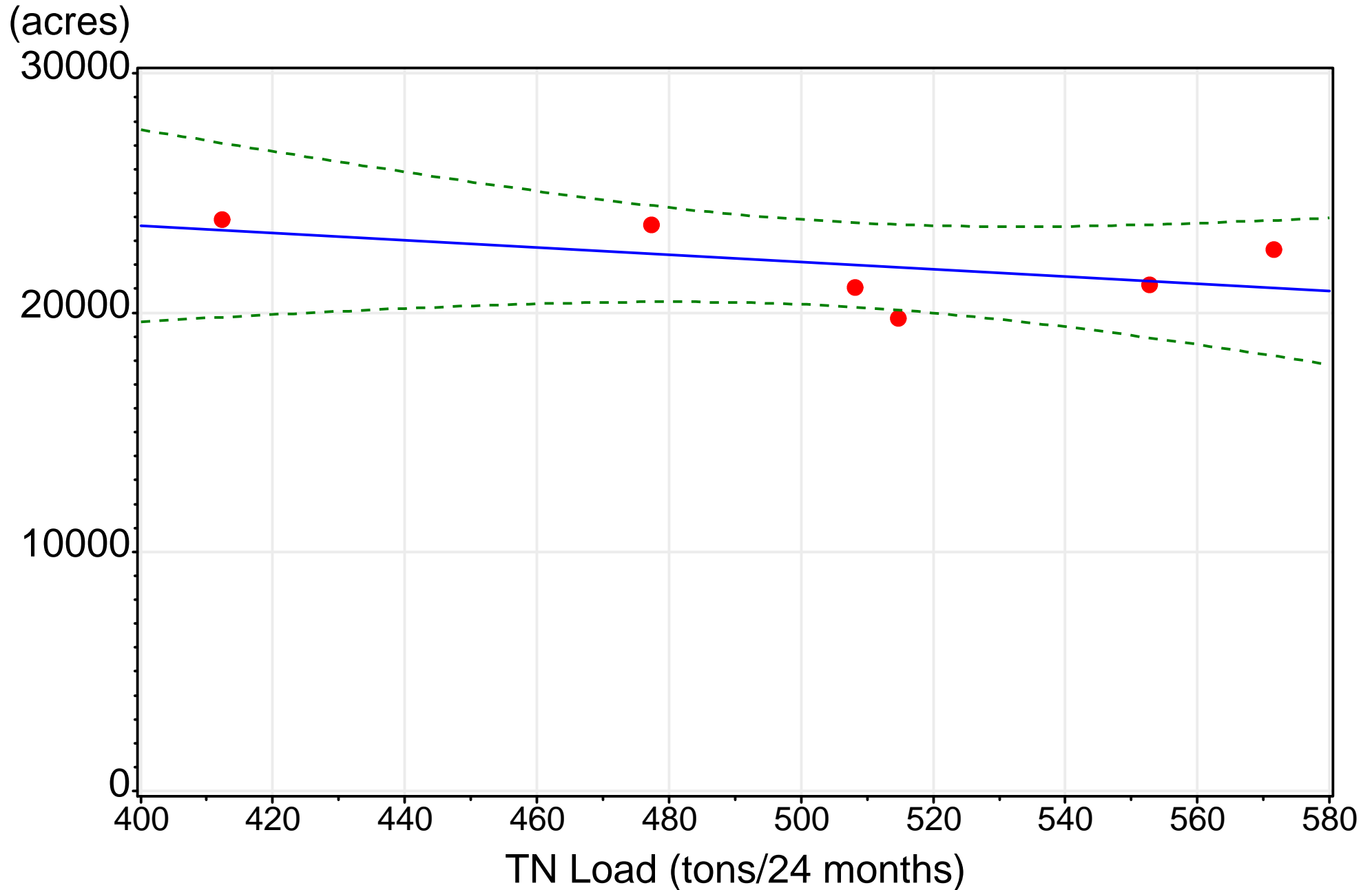
Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	4428817	4428817	18.61	0.0076
Error	5	1190028	238006		
Corrected Total	6	5618845			

Root MSE	487.85813	R-Square	0.7882
Dependent Mean	8313.22571	Adj R-Sq	0.7458
Coeff Var	5.86846		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	12363	956.75912	12.92	<.0001
tn_lag18	1	-2.94642	0.68304	-4.31	0.0076

Banana River Lagoon

Annual Seagrass Coverage Related to 24-Month Cumulative TN Load



Banana River Lagoon
Annual Seagrass Coverage
Related to 24-Month Cumulative TN Load

The REG Procedure
 Model: MODEL1
 Dependent Variable: acres

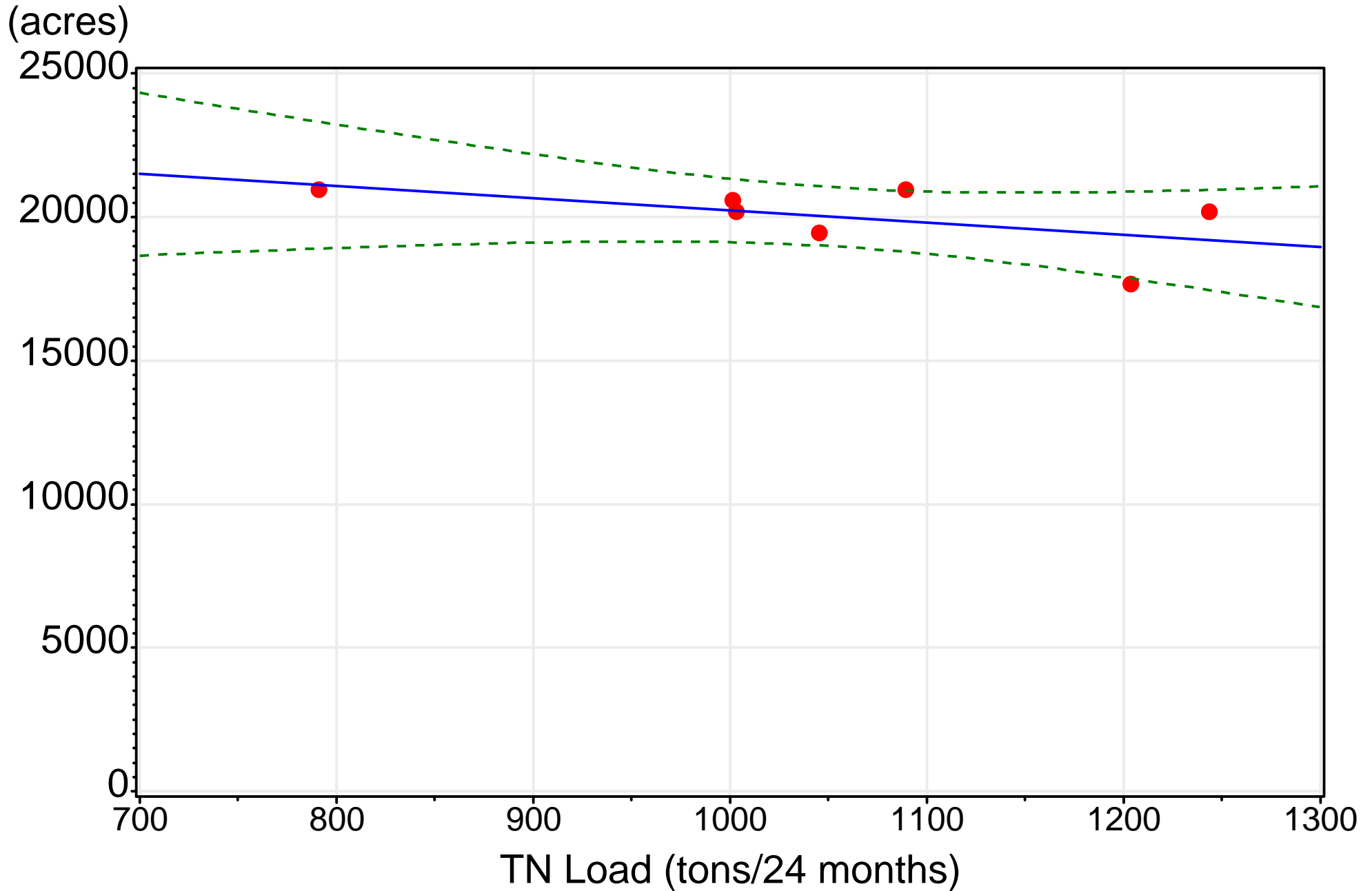
Number of Observations Read	7
Number of Observations Used	6
Number of Observations with Missing Values	1

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	3738636	3738636	1.55	0.2813
Error	4	9655682	2413920		
Corrected Total	5	13394318			

Root MSE	1553.67965	R-Square	0.2791
Dependent Mean	22024	Adj R-Sq	0.0989
Coeff Var	7.05445		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	29726	6221.47443	4.78	0.0088
tn_lag24	1	-15.21746	12.22776	-1.24	0.2813

North Indian River Lagoon Annual Seagrass Coverage Related to 24-Month Cumulative TN Load



*North Indian River Lagoon
Annual Seagrass Coverage
Related to 24-Month Cumulative TN Load*

The REG Procedure
Model: MODEL1
Dependent Variable: acres

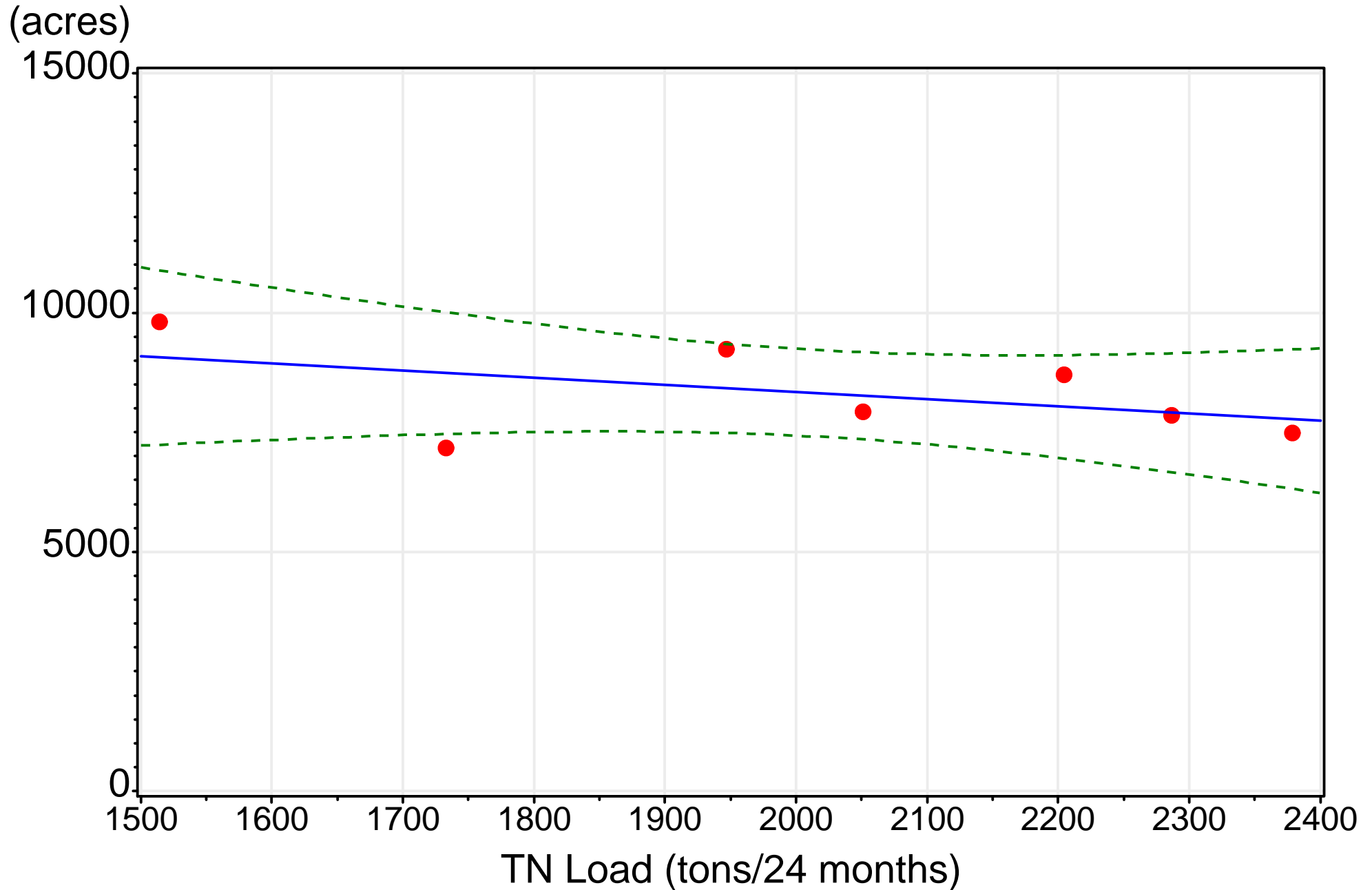
Number of Observations Read	7
Number of Observations Used	7

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	2384153	2384153	2.12	0.2051
Error	5	5619944	1123989		
Corrected Total	6	8004097			

Root MSE	1060.18340	R-Square	0.2979
Dependent Mean	20000	Adj R-Sq	0.1574
Coeff Var	5.30080		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	24445	3078.07572	7.94	0.0005
tn_lag24	1	-4.21647	2.89510	-1.46	0.2051

Central Indian River Lagoon Annual Seagrass Coverage Related to 24-Month Cumulative TN Load



**Central Indian River Lagoon
Annual Seagrass Coverage
Related to 24-Month Cumulative TN Load**

The REG Procedure
Model: MODEL1
Dependent Variable: acres

Number of Observations Read	7
Number of Observations Used	7

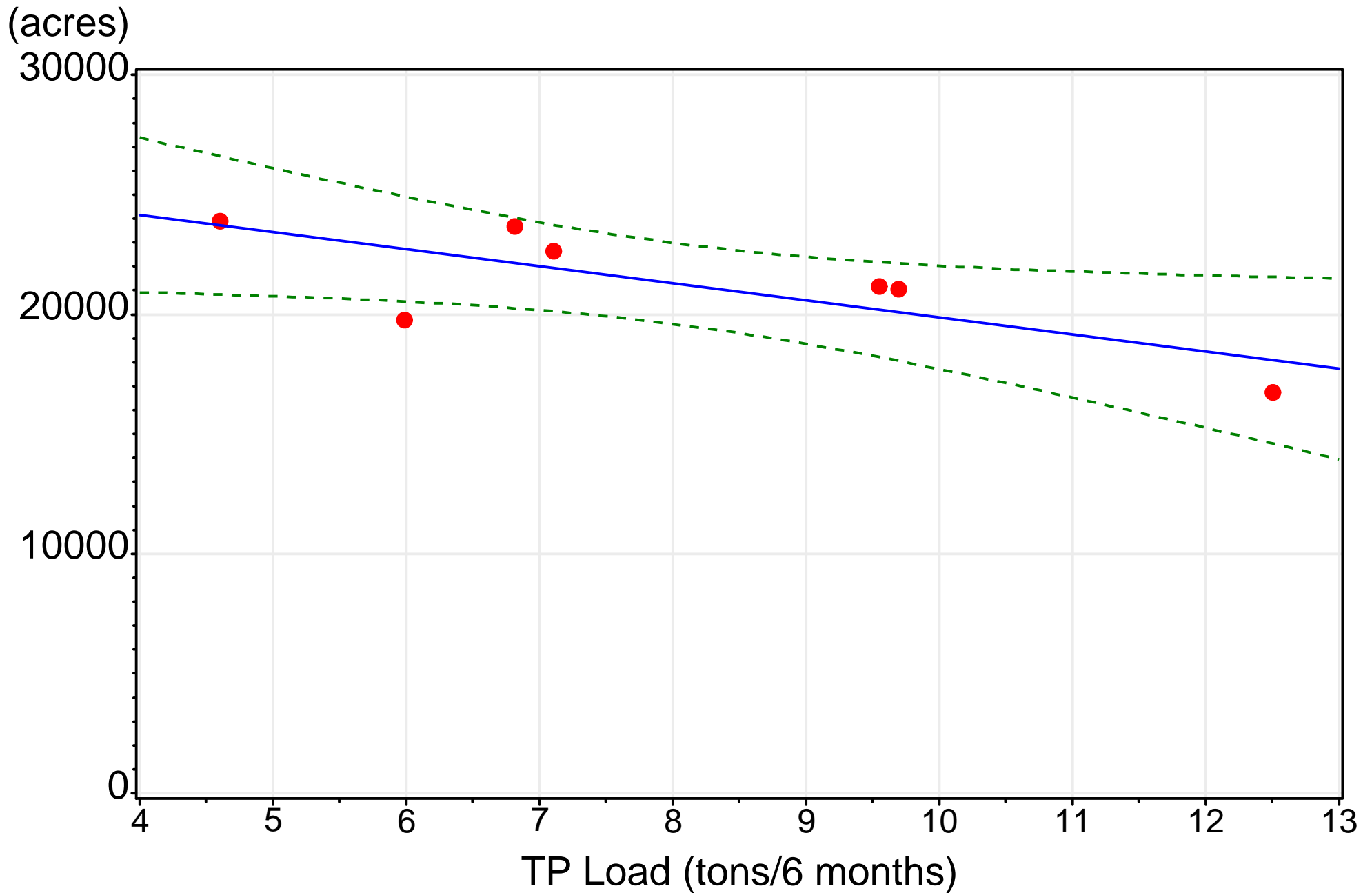
Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	1280728	1280728	1.48	0.2786
Error	5	4338117	867623		
Corrected Total	6	5618845			

Root MSE	931.46304	R-Square	0.2279
Dependent Mean	8313.22571	Adj R-Sq	0.0735
Coeff Var	11.20459		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	11313	2494.20416	4.54	0.0062
tn_lag24	1	-1.48780	1.22456	-1.21	0.2786

Banana River Lagoon

Annual Seagrass Coverage Related to 6-Month Cumulative TP Load



***Banana River Lagoon
Annual Seagrass Coverage
Related to 6-Month Cumulative TP Load***

The REG Procedure
Model: MODEL1
Dependent Variable: acres

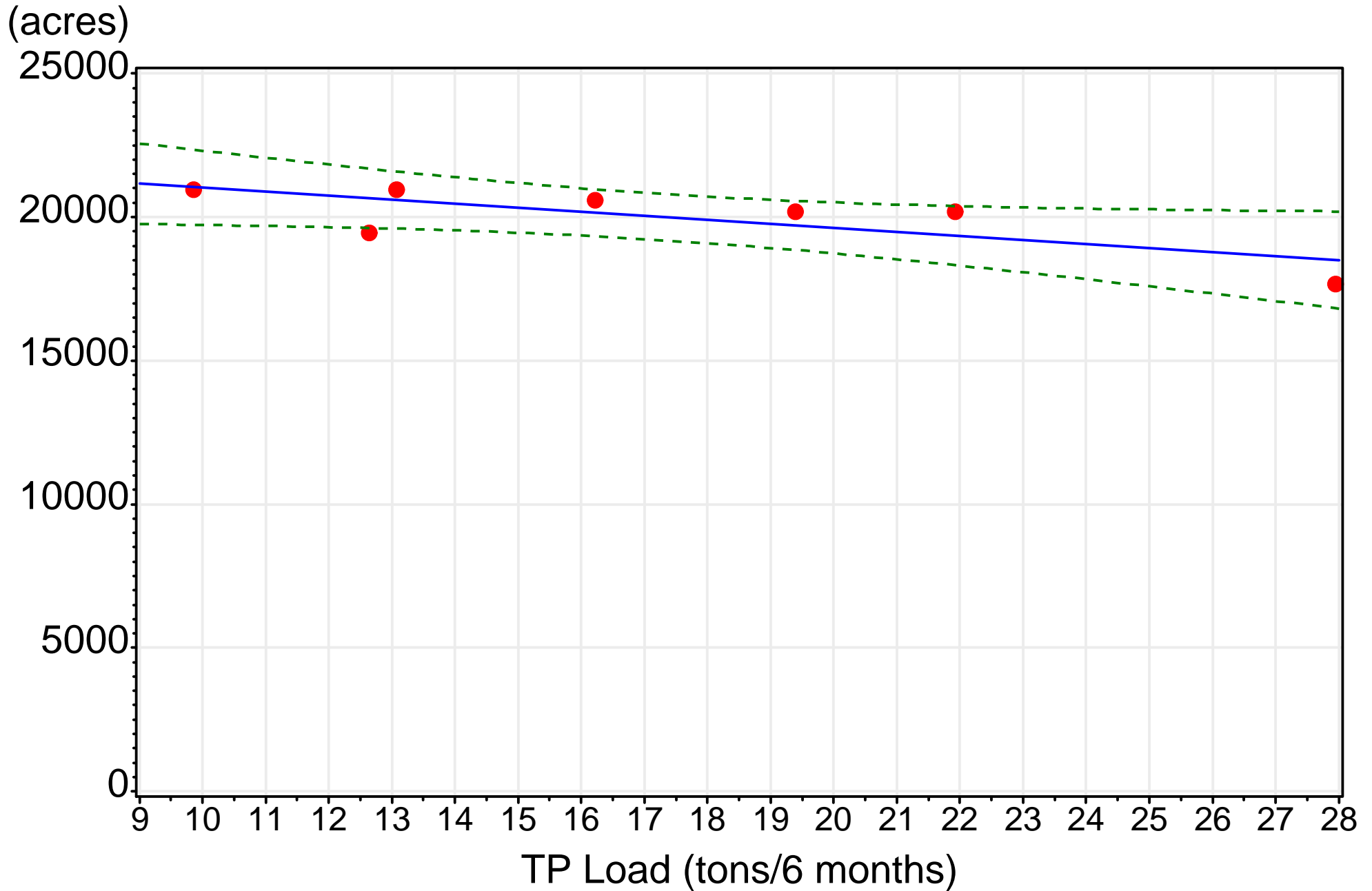
Number of Observations Read	7
Number of Observations Used	7

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	22058980	22058980	7.26	0.0431
Error	5	15199591	3039918		
Corrected Total	6	37258571			

Root MSE	1743.53612	R-Square	0.5921
Dependent Mean	21270	Adj R-Sq	0.5105
Coeff Var	8.19703		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	27004	2228.20581	12.12	<.0001
tp_lag6	1	-713.19437	264.75620	-2.69	0.0431

North Indian River Lagoon Annual Seagrass Coverage Related to 6-Month Cumulative TP Load



*North Indian River Lagoon
Annual Seagrass Coverage
Related to 6-Month Cumulative TP Load*

The REG Procedure
Model: MODEL1
Dependent Variable: acres

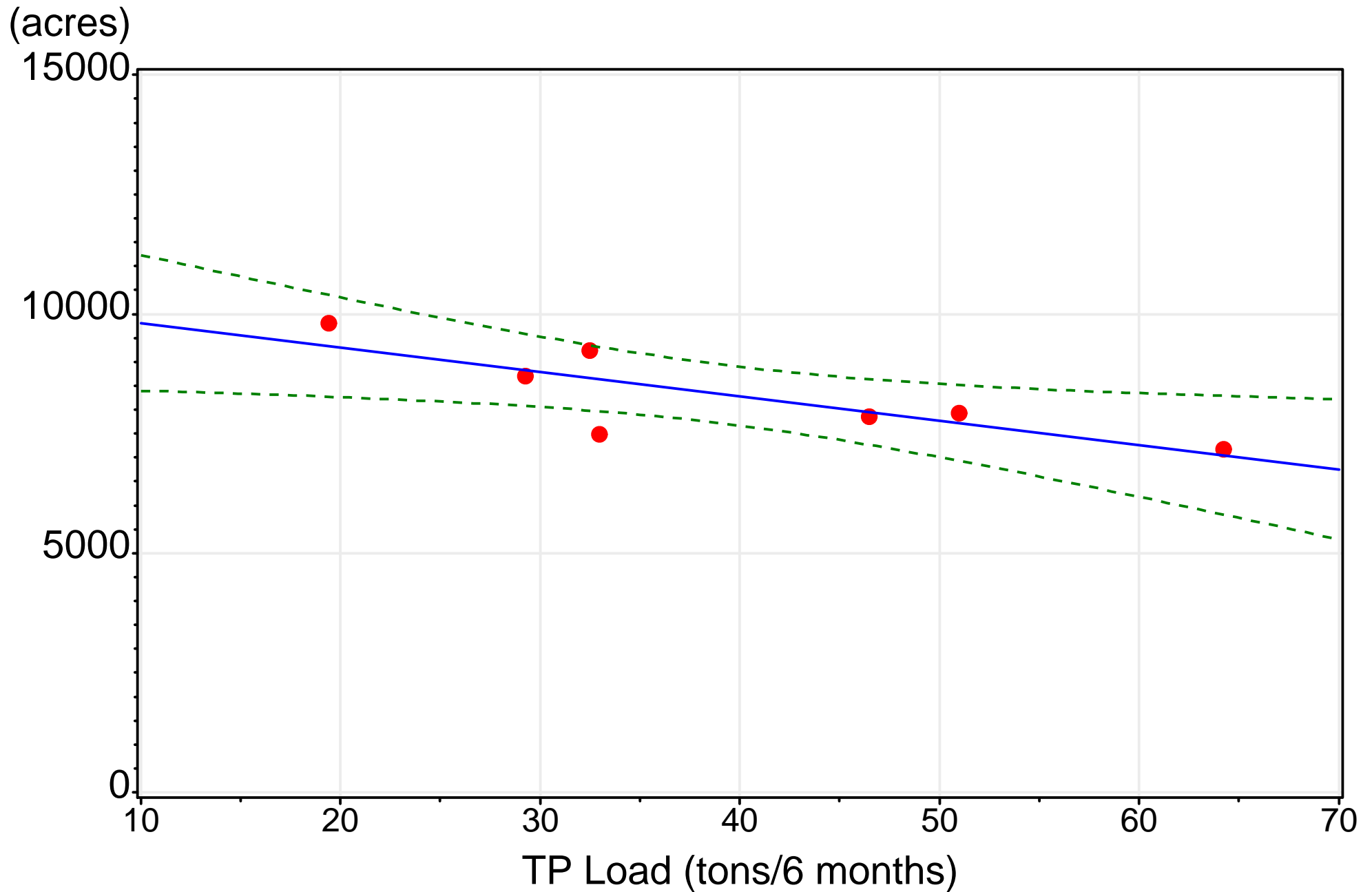
Number of Observations Read	7
Number of Observations Used	7

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	4573945	4573945	6.67	0.0493
Error	5	3430152	686030		
Corrected Total	6	8004097			

Root MSE	828.26952	R-Square	0.5715
Dependent Mean	20000	Adj R-Sq	0.4857
Coeff Var	4.14125		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	22413	985.23477	22.75	<.0001
tp_lag6	1	-139.46446	54.01194	-2.58	0.0493

Central Indian River Lagoon Annual Seagrass Coverage Related to 6-Month Cumulative TP Load



**Central Indian River Lagoon
Annual Seagrass Coverage
Related to 6-Month Cumulative TP Load**

The REG Procedure
Model: MODEL1
Dependent Variable: acres

Number of Observations Read	7
Number of Observations Used	7

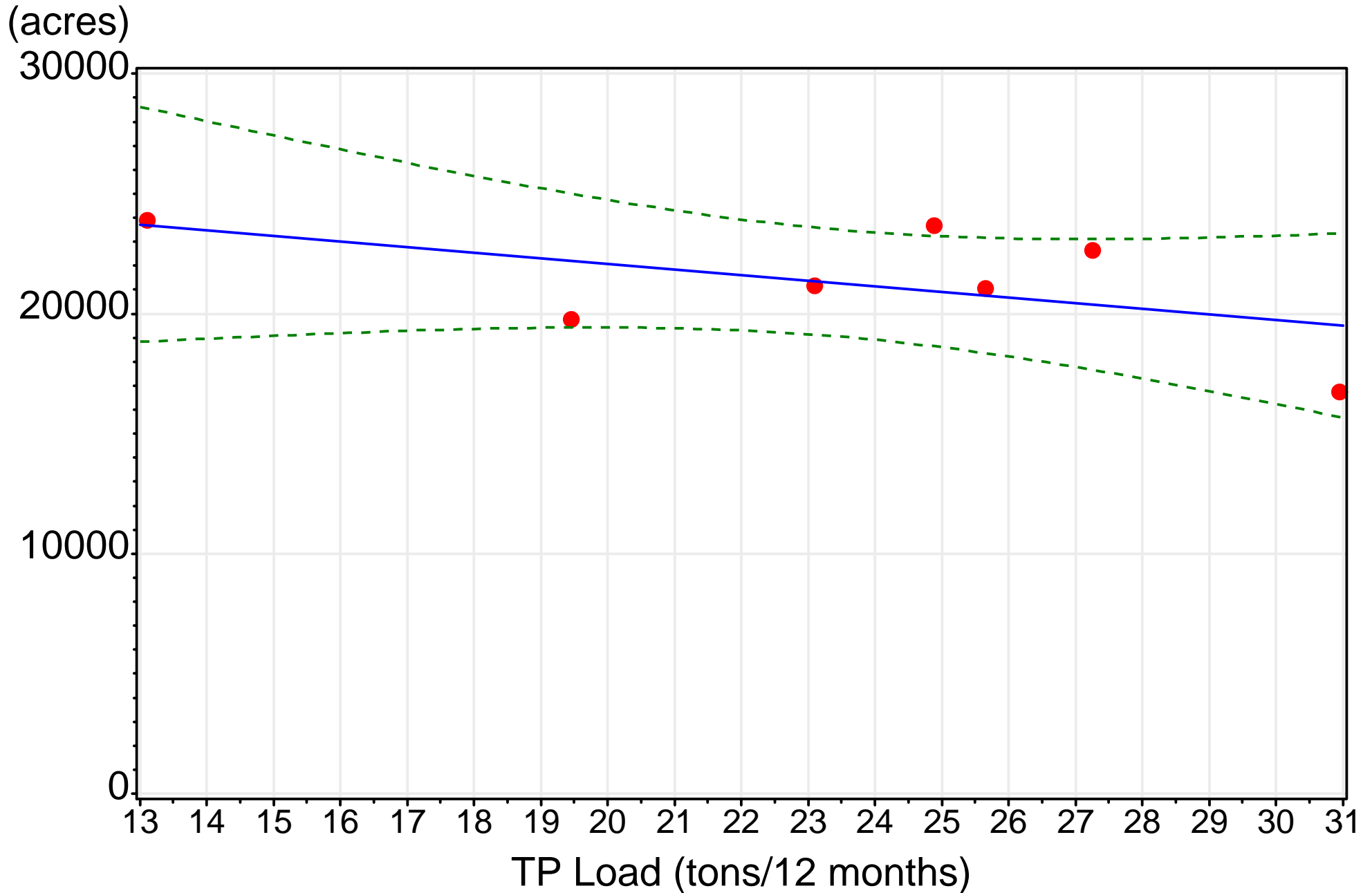
Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	3628988	3628988	9.12	0.0294
Error	5	1989857	397971		
Corrected Total	6	5618845			

Root MSE	630.84979	R-Square	0.6459
Dependent Mean	8313.22571	Adj R-Sq	0.5750
Coeff Var	7.58851		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	10325	707.74664	14.59	<.0001
tp_lag6	1	-51.05874	16.90843	-3.02	0.0294

Banana River Lagoon

Annual Seagrass Coverage Related to 12-Month Cumulative TP Load



Banana River Lagoon
Annual Seagrass Coverage
Related to 12-Month Cumulative TP Load

The REG Procedure
 Model: MODEL1
 Dependent Variable: acres

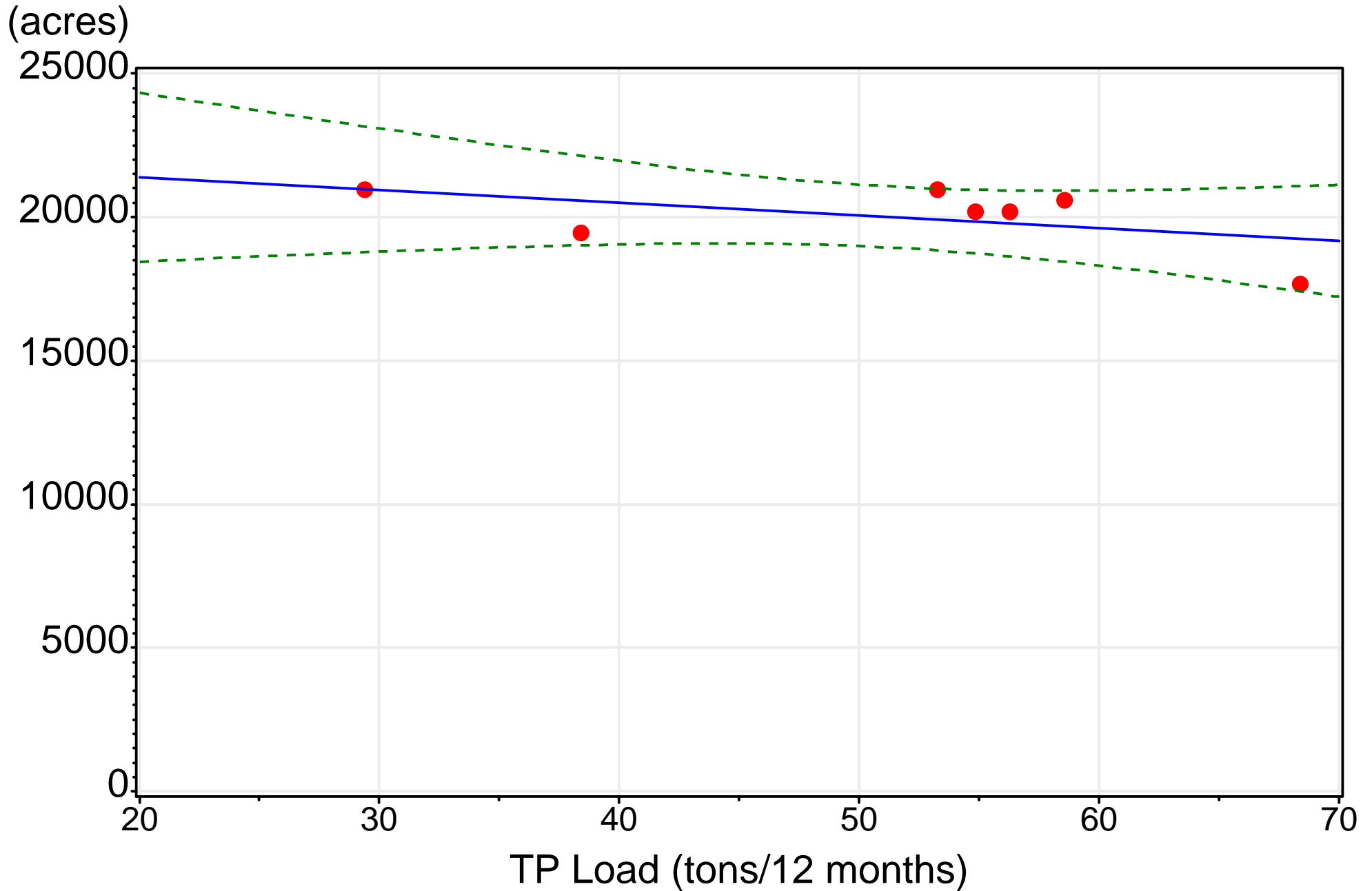
Number of Observations Read	7
Number of Observations Used	7

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	10989456	10989456	2.09	0.2077
Error	5	26269114	5253823		
Corrected Total	6	37258571			

Root MSE	2292.12192	R-Square	0.2950
Dependent Mean	21270	Adj R-Sq	0.1539
Coeff Var	10.77615		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	26769	3899.26059	6.87	0.0010
tp_lag12	1	-234.11055	161.87157	-1.45	0.2077

North Indian River Lagoon Annual Seagrass Coverage Related to 12-Month Cumulative TP Load



*North Indian River Lagoon
Annual Seagrass Coverage
Related to 12-Month Cumulative TP Load*

The REG Procedure
Model: MODEL1
Dependent Variable: acres

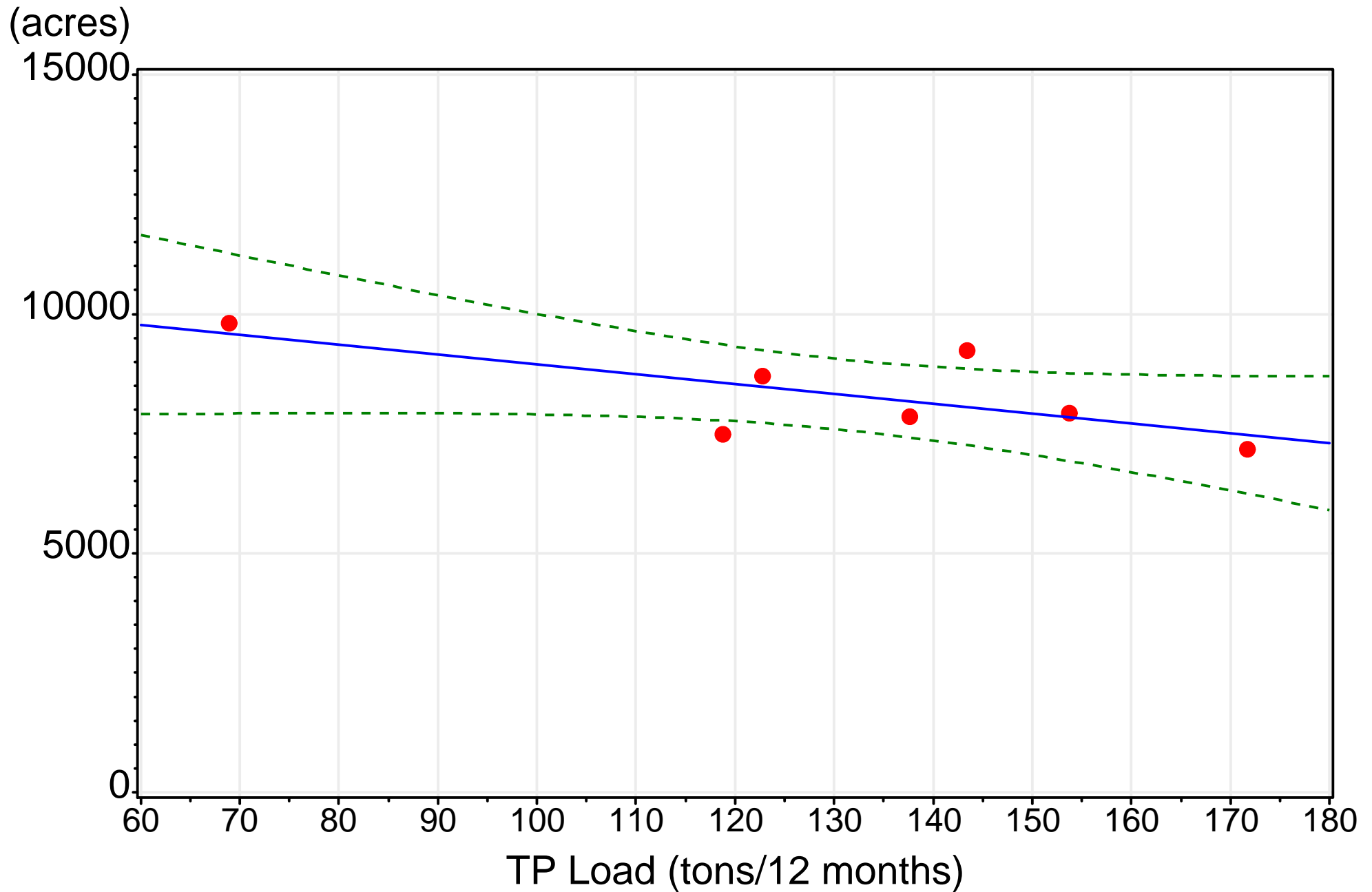
Number of Observations Read	7
Number of Observations Used	7

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	2019070	2019070	1.69	0.2507
Error	5	5985027	1197005		
Corrected Total	6	8004097			

Root MSE	1094.07740	R-Square	0.2523
Dependent Mean	20000	Adj R-Sq	0.1027
Coeff Var	5.47026		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	22269	1795.28549	12.40	<.0001
tp_lag12	1	-44.21443	34.04367	-1.30	0.2507

Central Indian River Lagoon Annual Seagrass Coverage Related to 12-Month Cumulative TP Load



**Central Indian River Lagoon
Annual Seagrass Coverage
Related to 12-Month Cumulative TP Load**

The REG Procedure
Model: MODEL1
Dependent Variable: acres

Number of Observations Read	7
Number of Observations Used	7

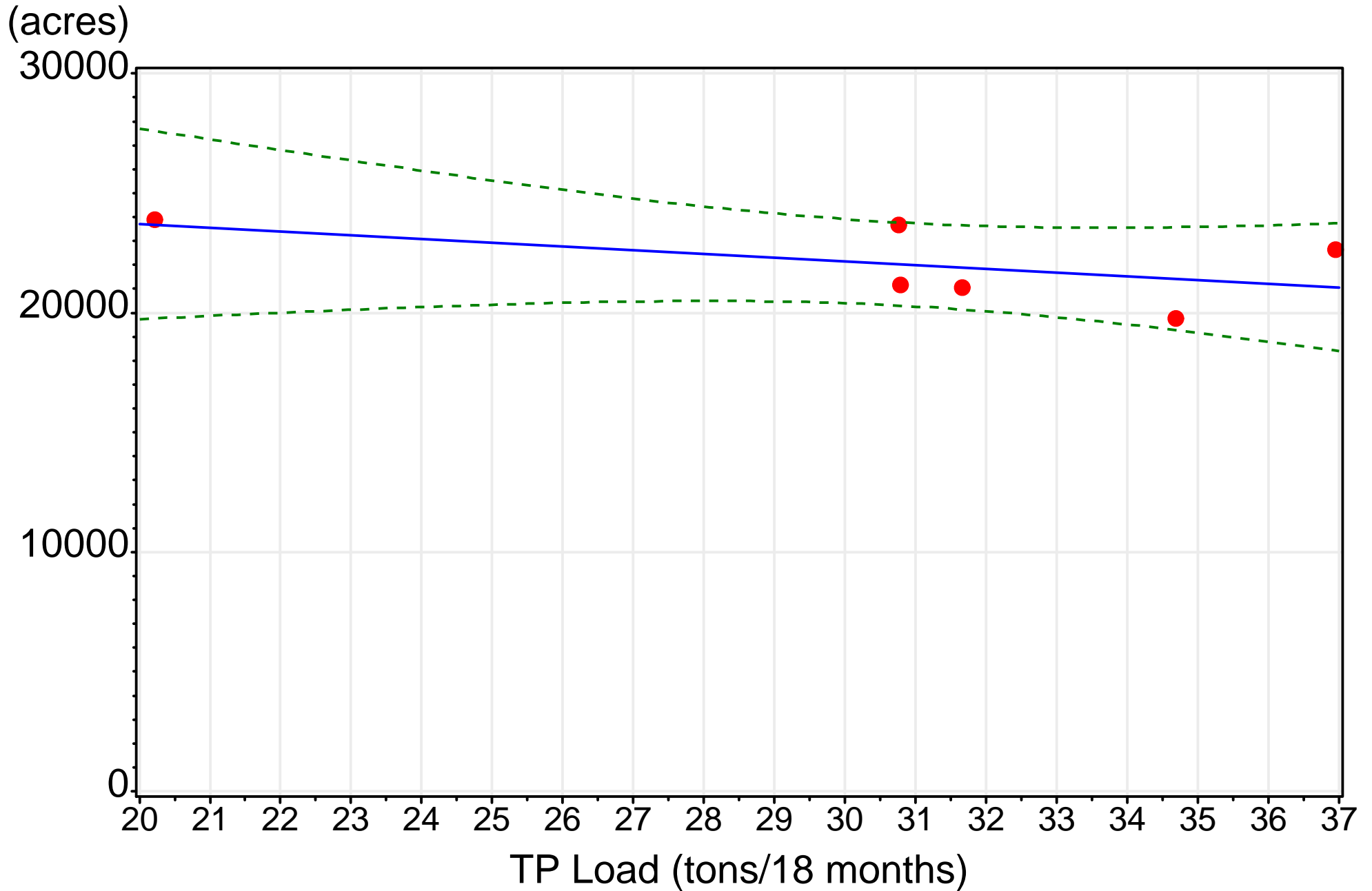
Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	2746191	2746191	4.78	0.0805
Error	5	2872654	574531		
Corrected Total	6	5618845			

Root MSE	757.97808	R-Square	0.4887
Dependent Mean	8313.22571	Adj R-Sq	0.3865
Coeff Var	9.11774		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	11018	1269.98301	8.68	0.0003
tp_lag12	1	-20.65055	9.44545	-2.19	0.0805

Banana River Lagoon

Annual Seagrass Coverage Related to 18-Month Cumulative TP Load



***Banana River Lagoon
Annual Seagrass Coverage
Related to 18-Month Cumulative TP Load***

The REG Procedure
Model: MODEL1
Dependent Variable: acres

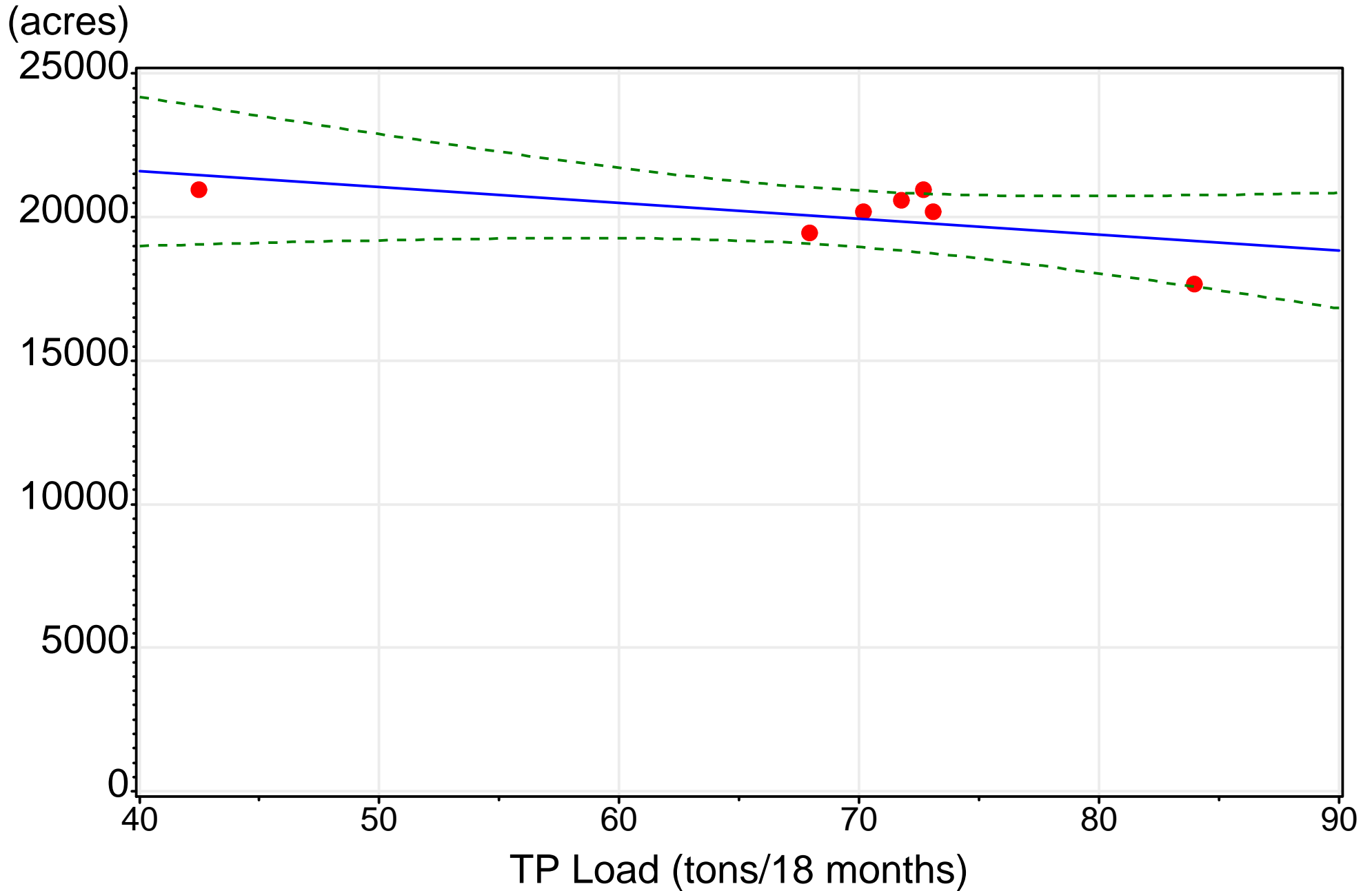
Number of Observations Read	7
Number of Observations Used	6
Number of Observations with Missing Values	1

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	4011149	4011149	1.71	0.2611
Error	4	9383169	2345792		
Corrected Total	5	13394318			

Root MSE	1531.59795	R-Square	0.2995
Dependent Mean	22024	Adj R-Sq	0.1243
Coeff Var	6.95419		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	26825	3724.00422	7.20	0.0020
tp_lag18	1	-155.62956	119.01521	-1.31	0.2611

North Indian River Lagoon Annual Seagrass Coverage Related to 18-Month Cumulative TP Load



*North Indian River Lagoon
Annual Seagrass Coverage
Related to 18-Month Cumulative TP Load*

The REG Procedure
Model: MODEL1
Dependent Variable: acres

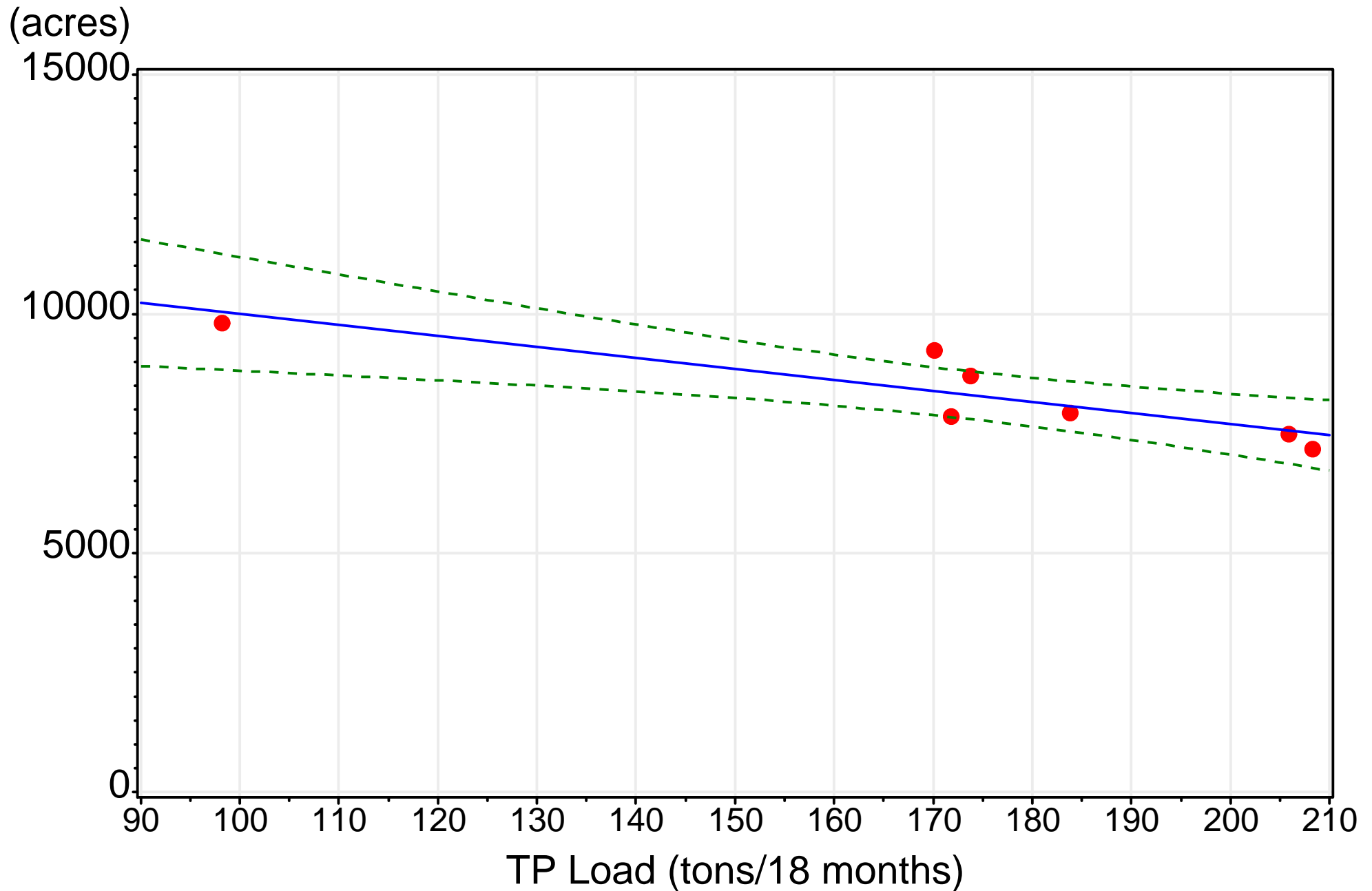
Number of Observations Read	7
Number of Observations Used	7

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	2932198	2932198	2.89	0.1498
Error	5	5071899	1014380		
Corrected Total	6	8004097			

Root MSE	1007.16420	R-Square	0.3663
Dependent Mean	20000	Adj R-Sq	0.2396
Coeff Var	5.03571		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	23791	2261.70859	10.52	0.0001
tp_lag18	1	-55.03775	32.37161	-1.70	0.1498

Central Indian River Lagoon Annual Seagrass Coverage Related to 18-Month Cumulative TP Load



**Central Indian River Lagoon
Annual Seagrass Coverage
Related to 18-Month Cumulative TP Load**

The REG Procedure
Model: MODEL1
Dependent Variable: acres

Number of Observations Read	7
Number of Observations Used	7

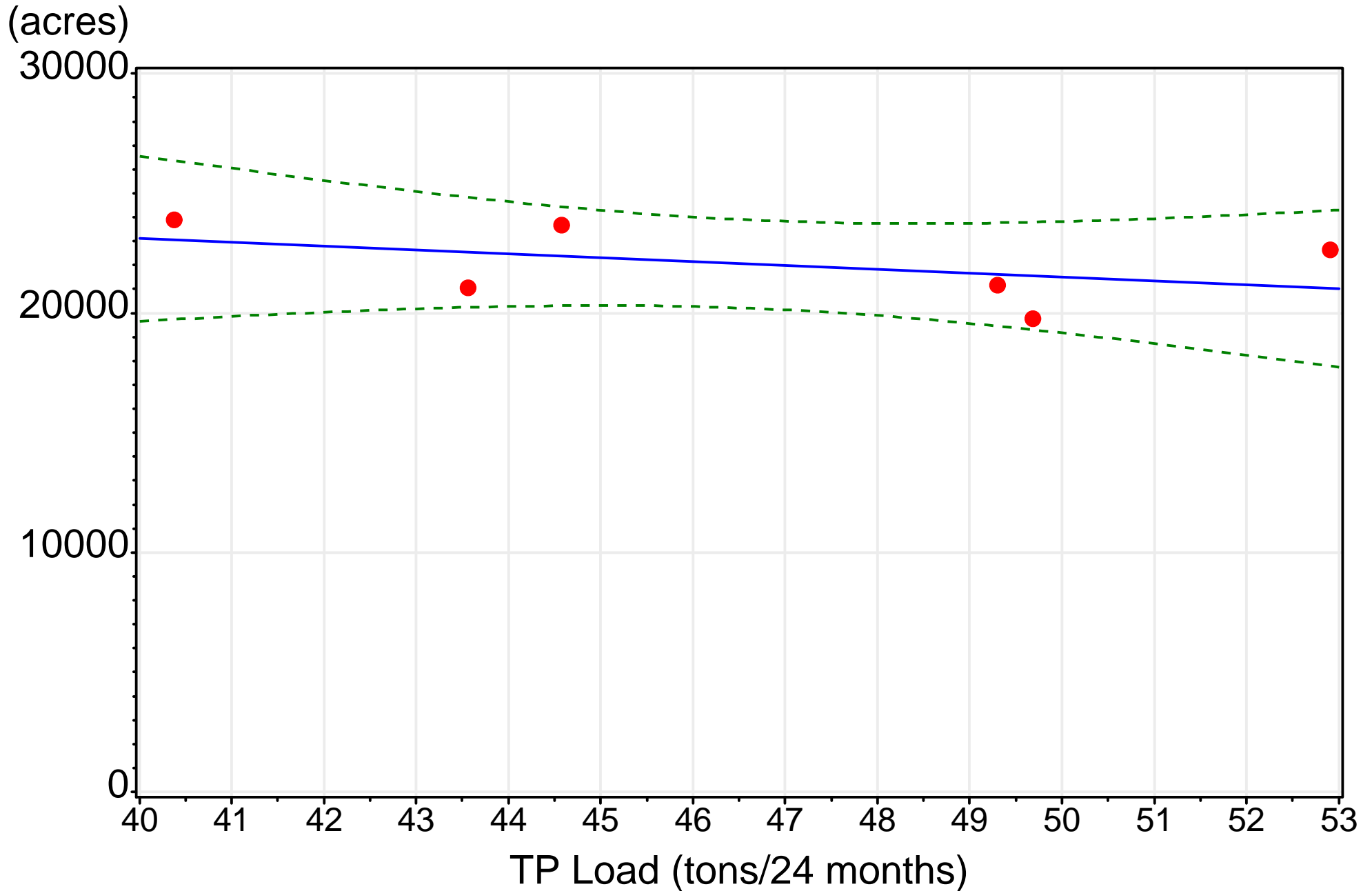
Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	4293652	4293652	16.20	0.0101
Error	5	1325193	265039		
Corrected Total	6	5618845			

Root MSE	514.81894	R-Square	0.7642
Dependent Mean	8313.22571	Adj R-Sq	0.7170
Coeff Var	6.19277		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	12311	1012.17303	12.16	<.0001
tp_lag18	1	-23.09038	5.73683	-4.02	0.0101

Banana River Lagoon

Annual Seagrass Coverage Related to 24-Month Cumulative TP Load



Banana River Lagoon
Annual Seagrass Coverage
Related to 24-Month Cumulative TP Load

The REG Procedure
 Model: MODEL1
 Dependent Variable: acres

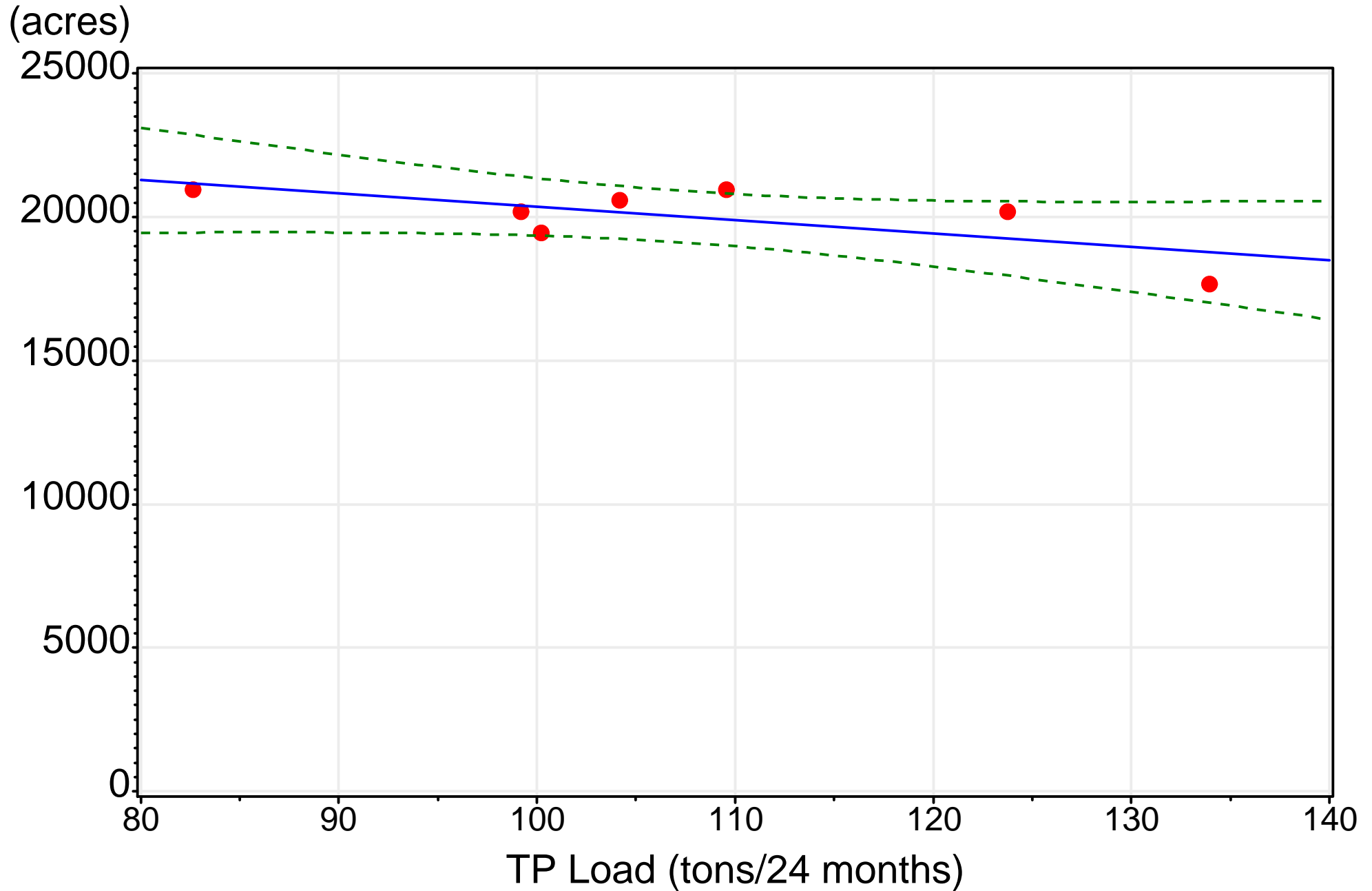
Number of Observations Read	7
Number of Observations Used	6
Number of Observations with Missing Values	1

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	2816929	2816929	1.07	0.3603
Error	4	10577390	2644347		
Corrected Total	5	13394318			

Root MSE	1626.14495	R-Square	0.2103
Dependent Mean	22024	Adj R-Sq	0.0129
Coeff Var	7.38347		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	29552	7323.87075	4.04	0.0157
tp_lag24	1	-161.07720	156.06496	-1.03	0.3603

North Indian River Lagoon Annual Seagrass Coverage Related to 24-Month Cumulative TP Load



*North Indian River Lagoon
Annual Seagrass Coverage
Related to 24-Month Cumulative TP Load*

The REG Procedure
Model: MODEL1
Dependent Variable: acres

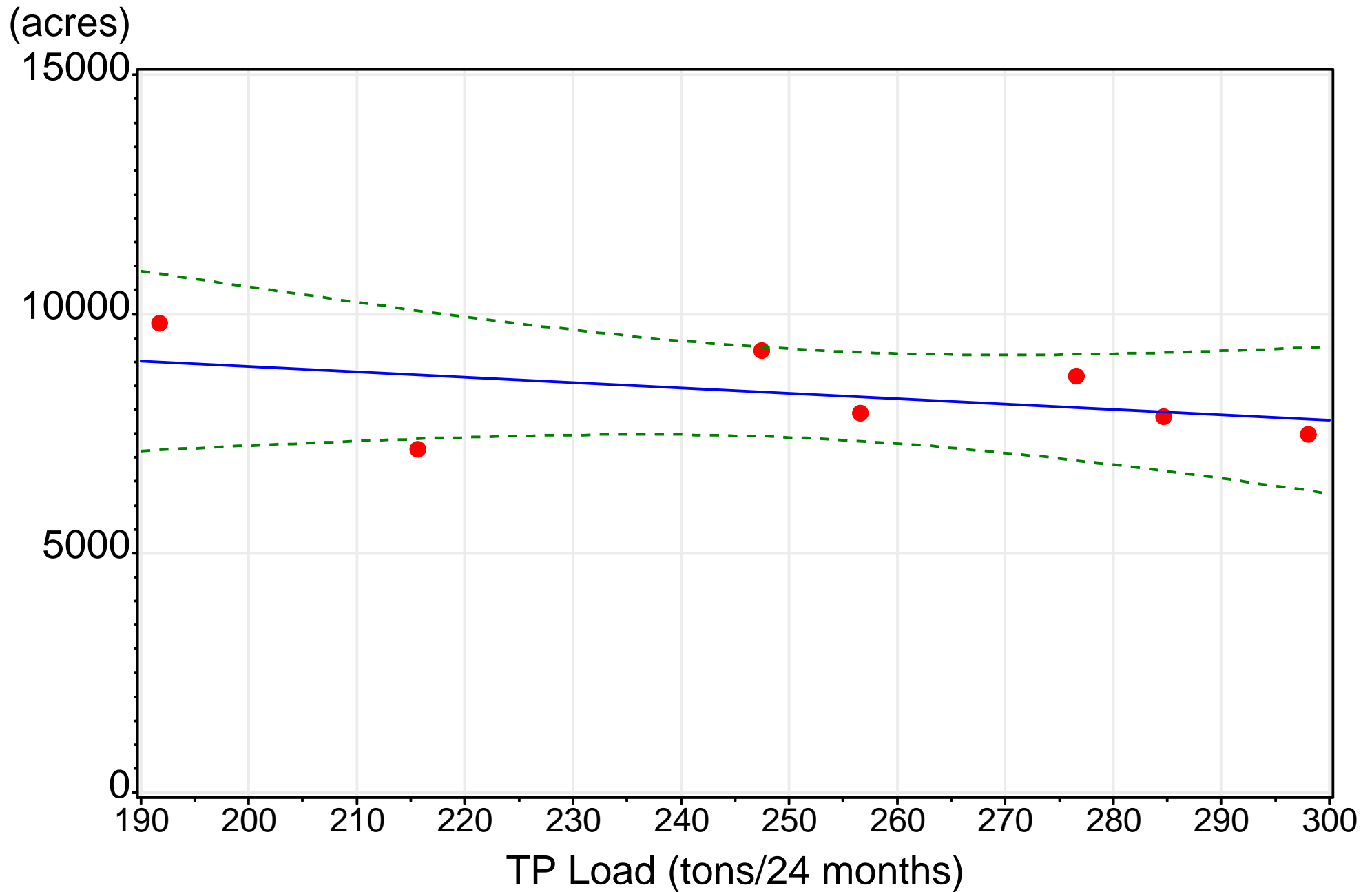
Number of Observations Read	7
Number of Observations Used	7

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	3701504	3701504	4.30	0.0928
Error	5	4302593	860519		
Corrected Total	6	8004097			

Root MSE	927.64143	R-Square	0.4625
Dependent Mean	20000	Adj R-Sq	0.3549
Coeff Var	4.63810		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	24997	2434.28147	10.27	0.0002
tp_lag24	1	-46.41051	22.37728	-2.07	0.0928

Central Indian River Lagoon Annual Seagrass Coverage Related to 24-Month Cumulative TP Load



**Central Indian River Lagoon
Annual Seagrass Coverage
Related to 24-Month Cumulative TP Load**

The REG Procedure
Model: MODEL1
Dependent Variable: acres

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	1111031	1111031	1.23	0.3175
Error	5	4507814	901563		
Corrected Total	6	5618845			

Root MSE	949.50661	R-Square	0.1977
Dependent Mean	8313.22571	Adj R-Sq	0.0373
Coeff Var	11.42164		

Parameter Estimates					
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	1	11160	2589.30089	4.31	0.0076
tp_lag24	1	-11.25374	10.13752	-1.11	0.3175