APPENDIX II

Trend analysis data for avian resources within the CCBNEP study area
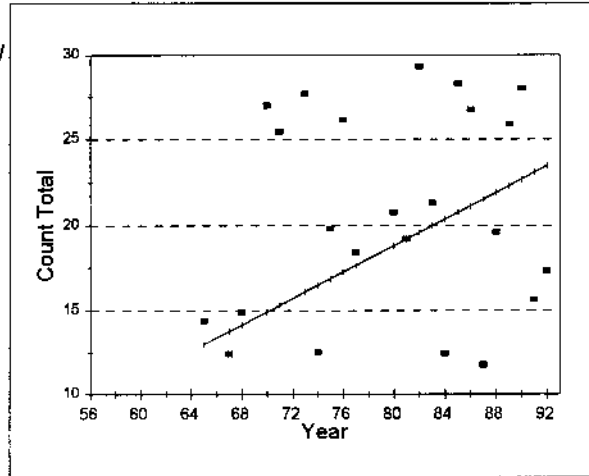
Am. White Pelican

Data Corrected:
Count/(Party Hours)^B
where B = .61

2 outliers removed

Trend Slope as % of Avg = 2.17%

Regression Statistics

Multiple R	0.45
R Square	0.20
Adjusted R Square	0.17
Standard Error	7.05
Observations	29.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	334.64	334.64	6.74	0.02
Residual	27.00	1340.82	49.66		
Total	28.00	1675.46			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-12.29	11.70	-1.05	0.30	-36.30	11.72
x1	0.39	0.15	2.60	0.01	0.08	0.70

| Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	12.58	-9.42	-1.34	1.72	3
2	12.19	-6.25	-0.89	5.17	6
3	14.52	-8.56	-1.22	8.62	6
4	18.41	-9.46	-1.34	12.07	9
5	13.36	-3.73	-0.53	15.52	10
6	18.02	-7.55	-1.07	18.97	10
7	21.52	-9.76	-1.38	22.41	12
8	13.75	-1.35	-0.19	25.86	12
9	20.35	-7.92	-1.12	29.31	12
10	16.47	-3.96	-0.56	32.76	13
11	12.97	1.40	0.20	36.21	14
12	14.14	0.75	0.11	39.66	15
13	23.07	-7.42	-1.05	43.10	16
14	23.46	-6.13	-0.87	46.55	17
15	17.63	0.76	0.11	50.00	18
16	19.19	0.03	0.00	53.45	19
17	21.91	-2.30	-0.33	56.90	20
18	16.86	2.95	0.42	60.34	20
19	18.80	1.96	0.28	63.79	21
20	19.97	1.35	0.19	67.24	21
21	15.30	10.16	1.44	70.69	25
22	22.30	3.60	0.51	74.14	26
23	17.25	8.91	1.26	77.59	26
24	21.13	5.63	0.80	81.03	27
25	14.91	12.08	1.71	84.48	27
26	16.08	11.60	1.65	87.93	28
27	22.69	5.34	0.76	91.38	28
28	20.74	7.53	1.07	94.83	28
29	19.58	9.75	1.38	98.28	29

Am. White Pelican

Data Corrected: ANWR
Count/(Party Hours^B)
where B = .92

1 outlier removed

Trend Slope as % of A   1.28%
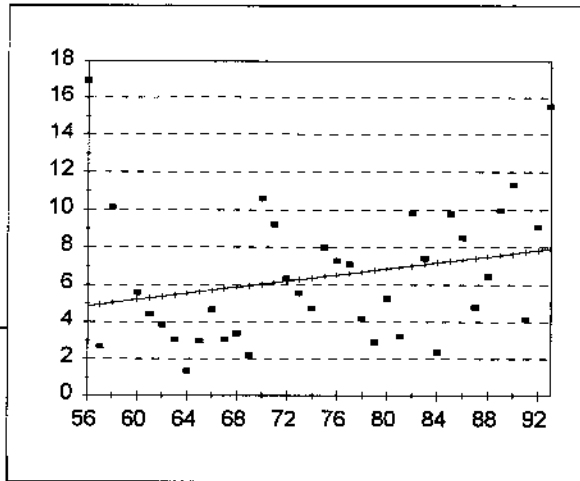
Regression Statistics

Multiple R	0.25
R Square	0.06
Adjusted R Square	0.03
Standard Error	3.59
Observations	37

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	29.35	29.35	2.27	0.14
Residual	35.00	451.51	12.90		
Total	36.00	480.86			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	0.25	4.14	0.06	0.95	-8.14	8.65
x1	0.08	0.05	1.51	0.14	-0.03	0.19

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	4.87	12.06	3.36	1.35	1.36
2	4.95	-2.30	-0.64	4.05	2.19
3	5.03	5.11	1.42	6.76	2.35
4	5.20	0.39	0.11	9.46	2.65
5	5.28	-0.85	-0.24	12.16	2.90
6	5.36	-1.50	-0.42	14.86	2.96
7	5.44	-2.41	-0.67	17.57	3.03
8	5.53	-4.17	-1.16	20.27	3.04
9	5.61	-2.65	-0.74	22.97	3.25
10	5.69	-1.03	-0.29	25.68	3.40
11	5.77	-2.74	-0.76	28.38	3.86
12	5.86	-2.46	-0.68	31.08	4.17
13	5.94	-3.75	-1.04	33.78	4.20
14	6.02	4.57	1.27	36.49	4.43
15	6.10	3.11	0.87	39.19	4.66
16	6.19	0.15	0.04	41.89	4.72
17	6.27	-0.72	-0.20	44.59	4.82
18	6.35	-1.63	-0.45	47.30	5.26
19	6.43	1.56	0.44	50.00	5.55
20	6.52	0.79	0.22	52.70	5.58
21	6.60	0.48	0.13	55.41	6.33
22	6.68	-2.48	-0.69	58.11	6.43
23	6.76	-3.86	-1.07	60.81	7.08
24	6.85	-1.58	-0.44	63.51	7.31
25	6.93	-3.68	-1.03	66.22	7.43
26	7.01	2.79	0.78	68.92	8.00
27	7.09	0.34	0.09	71.62	8.51
28	7.18	-4.83	-1.34	74.32	9.08
29	7.26	2.52	0.70	77.03	9.21
30	7.34	1.17	0.32	79.73	9.77
31	7.42	-2.61	-0.73	82.43	9.80
32	7.50	-1.07	-0.30	85.14	9.95
33	7.59	2.37	0.66	87.84	10.14
34	7.67	3.65	1.02	90.54	10.59
35	7.75	-3.58	-1.00	93.24	11.32
36	7.83	1.25	0.35	95.95	15.55
37	7.92	7.63	2.12	98.65	16.93

Am. White Pelican

Data Corrected:
Count/(Party Hours^B)
where B = .43

1 outlier removed

Trend Slope as % of Avg =   0.90%

CCW

Regression Statistics

Multiple R	0.12
R Square	0.02
Adjusted R Square	-0.02
Standard Error	11.98
Observations	30.00
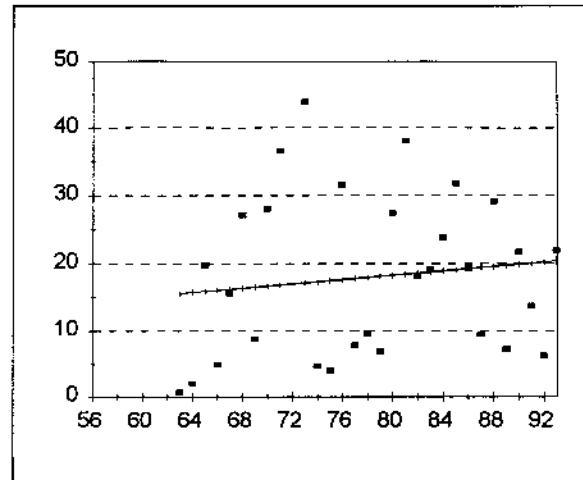
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	63.17	63.17	0.44	0.51
Residual	28.00	4018.65	143.52		
Total	29.00	4081.82			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	5.37	19.08	0.28	0.78	-33.71	44.46
x1	0.16	0.24	0.66	0.51	-0.34	0.66

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	15.50	-14.86	-1.24	1.67	1
2	15.66	-13.63	-1.14	5.00	2
3	17.43	-13.44	-1.12	8.33	4
4	17.27	-12.56	-1.05	11.67	5
5	15.99	-11.12	-0.93	15.00	5
6	20.17	-13.95	-1.16	18.33	6
7	18.08	-11.20	-0.93	21.67	7
8	19.68	-12.43	-1.04	25.00	7
9	17.75	-9.97	-0.83	28.33	8
10	16.47	-7.70	-0.64	31.67	9
11	19.36	-9.90	-0.83	35.00	9
12	17.92	-8.29	-0.69	38.33	10
13	20.01	-6.28	-0.52	41.67	14
14	16.15	-0.58	-0.05	45.00	16
15	18.56	-0.48	-0.04	48.33	18
16	18.72	0.43	0.04	51.67	19
17	19.20	0.08	0.01	55.00	19
18	15.83	3.83	0.32	58.33	20
19	19.85	1.88	0.16	61.67	22
20	20.33	1.57	0.13	65.00	22
21	18.88	4.93	0.41	68.33	24
22	16.31	10.84	0.91	71.67	27
23	18.24	9.15	0.76	75.00	27
24	16.63	11.40	0.95	78.33	28
25	19.52	9.58	0.80	81.67	29
26	17.59	13.93	1.16	85.00	32
27	19.04	12.75	1.06	88.33	32
28	16.79	19.68	1.64	91.67	36
29	18.40	19.66	1.64	95.00	38
30	17.11	26.67	2.23	98.33	44

Am. White Pelican

TCWS

Trend Slope as % of Avg =   -1.08%
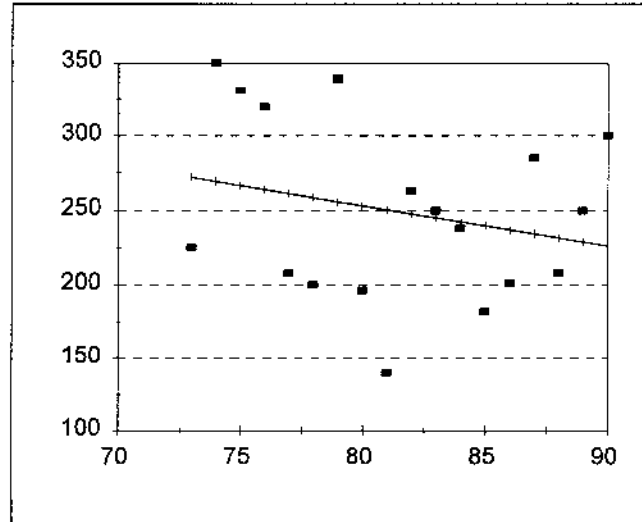
Regression Statistics

Multiple R	0.24
R Square	0.06
Adjusted R Square	-0.00
Standard Error	60.50
Observations	18.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	3536.60	3536.60	0.97	0.34
Residual	16.00	58566.51	3660.41		
Total	17.00	62103.11			

	Coefficients	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	469.42	224.47	2.09	0.05	-6.43	945.27
x1	-2.70	2.75	-0.98	0.34	-8.53	3.13

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	250.57	-110.57	-1.83		2.78	140
2	239.77	-57.77	-0.95		8.33	182
3	253.27	-57.27	-0.95		13.89	196
4	258.68	-58.68	-0.97		19.44	200
5	237.06	-36.06	-0.60		25.00	201
6	231.66	-23.66	-0.39		30.56	208
7	261.38	-53.38	-0.88		36.11	208
8	272.19	-47.19	-0.78		41.67	225
9	242.47	-4.47	-0.07		47.22	238
10	245.17	4.83	0.08		52.78	250
11	228.96	21.04	0.35		58.33	250
12	247.87	15.13	0.25		63.89	263
13	234.36	50.64	0.84		69.44	285
14	226.26	73.74	1.22		75.00	300
15	264.08	55.92	0.92		80.56	320
16	266.78	64.22	1.06		86.11	331
17	255.98	83.02	1.37		91.67	339
18	269.49	80.51	1.33		97.22	350

Brown Pelican

ANWR+CCW

3 outliers removed

Trend Slope as % of Avg =   8.20%
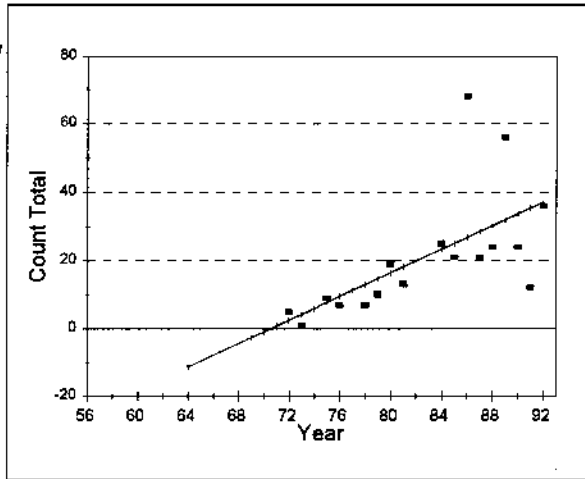
Regression Statistics

Multiple R	0.62
R Square	0.39
Adjusted R Square	0.35
Standard Error	14.49
Observations	17.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	2004.80	2004.80	9.55	0.01
Residual	15.00	3150.14	210.01		
Total	16.00	5154.94			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-121.84	46.38	-2.63	0.02	-220.71	-22.98
x1	1.73	0.56	3.09	0.01	0.54	2.92

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	4.29	-3.29	-0.23		2.94	1
2	2.56	2.44	0.17		8.82	5
3	12.93	-5.93	-0.41		14.71	7
4	9.47	-2.47	-0.17		20.59	7
5	7.74	1.26	0.09		26.47	9
6	14.66	-4.66	-0.32		32.35	10
7	35.39	-23.39	-1.61		38.24	12
8	18.11	-5.11	-0.35		44.12	13
9	16.38	2.62	0.18		50.00	19
10	25.02	-4.02	-0.28		55.88	21
11	28.48	-7.48	-0.52		61.76	21
12	33.66	-9.66	-0.67		67.65	24
13	30.21	-6.21	-0.43		73.53	24
14	23.29	1.71	0.12		79.41	25
15	37.12	-1.12	-0.08		85.29	36
16	31.93	24.07	1.66		91.18	56
17	26.75	41.25	2.85		97.06	68

Brown Pelican

ANWR

Trend Slope as % of A   4.79%
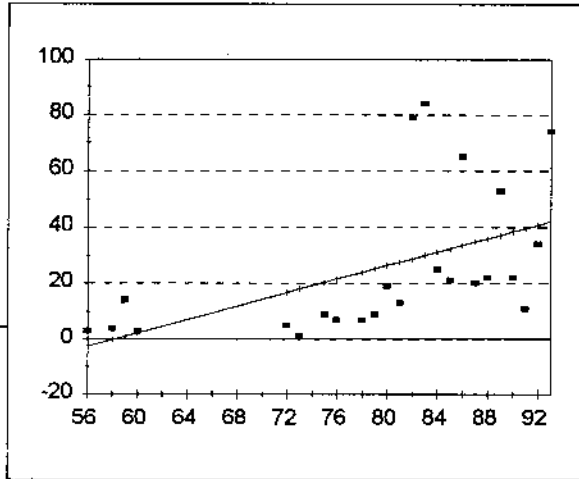
Regression Statistics

Multiple R	0.52
R Square	0.27
Adjusted R Square	0.24
Standard Error	22.58
Observations	24

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	4151.26	4151.26	8.15	0.01
Residual	22.00	11212.07	509.64		
Total	23.00	15363.33			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-70.11	33.70	-2.08	0.05	-140.00	-0.22
x1	1.21	0.42	2.85	0.01	0.33	2.08

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	-2.61	5.61	0.25	2.08	1.00
2	-0.20	4.20	0.19	6.25	3.00
3	1.01	12.99	0.58	10.42	3.00
4	2.21	0.79	0.03	14.58	4.00
5	16.68	-11.68	-0.52	18.75	5.00
6	17.88	-16.88	-0.75	22.92	7.00
7	20.29	-11.29	-0.50	27.08	7.00
8	21.50	-14.50	-0.64	31.25	9.00
9	23.91	-16.91	-0.75	35.42	9.00
10	25.12	-16.12	-0.71	39.58	11.00
11	26.32	-7.32	-0.32	43.75	13.00
12	27.53	-14.53	-0.64	47.92	14.00
13	28.73	50.27	2.23	52.08	19.00
14	29.94	54.06	2.39	56.25	20.00
15	31.14	-6.14	-0.27	60.42	21.00
16	32.35	-11.35	-0.50	64.58	22.00
17	33.55	31.45	1.39	68.75	22.00
18	34.76	-14.76	-0.65	72.92	25.00
19	35.97	-13.97	-0.62	77.08	34.00
20	37.17	15.83	0.70	81.25	53.00
21	38.38	-16.38	-0.73	85.42	65.00
22	39.58	-28.58	-1.27	89.58	74.00
23	40.79	-6.79	-0.30	93.75	79.00
24	41.99	32.01	1.42	97.92	84.00

Brown Pelican

1 outliers removed

Trend Slope as % of Avg =   2.66%

Regression Statistics

Multiple R	0.24
R Square	0.06
Adjusted R Square	-0.10
Standard Error	0.87
Observations	8.00

CCW
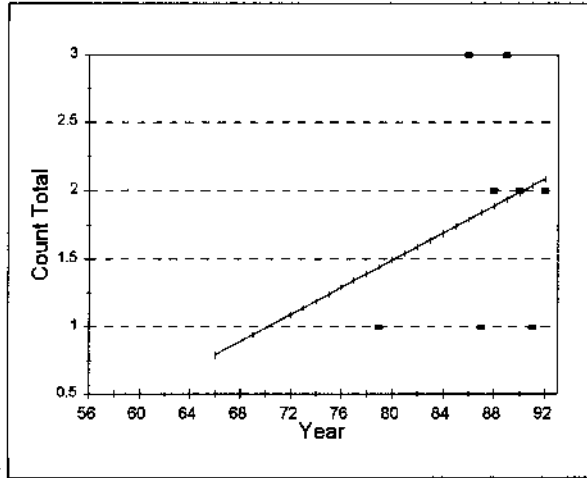
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	0.29	0.29	0.37	0.56
Residual	6.00	4.59	0.76		
Total	7.00	4.88			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-2.49	7.15	-0.35	0.74	-19.98	14.99
x1	0.05	0.08	0.61	0.56	-0.15	0.25

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	1.44	-0.44	-0.50	6.25	1
2	1.84	-0.84	-0.96	18.75	1
3	2.04	-1.04	-1.19	31.25	1
4	1.89	0.11	0.13	43.75	2
5	1.99	0.01	0.01	56.25	2
6	2.09	-0.09	-0.10	68.75	2
7	1.94	1.06	1.22	81.25	3
8	1.79	1.21	1.39	93.75	3

Brown Pelican

TCWS

Trend Slope as % of Avg =   19.87%
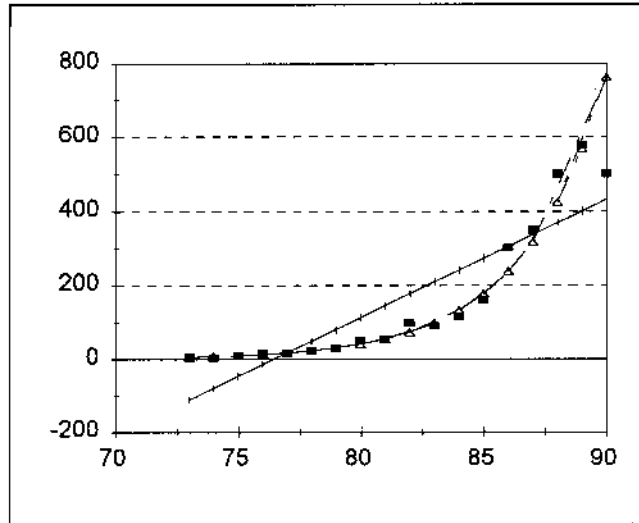
Regression Statistics

Multiple R	0.88
R Square	0.78
Adjusted R Square	0.77
Standard Error	93.78
Observations	18.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	498402.60	498402.60	56.67	0.00
Residual	16.00	140717.68	8794.85		
Total	17.00	639120.28			

	Coefficients	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-2452.58	347.94	-7.05	0.00	-3190.18	-1714.98
x1	32.07	4.26	7.53	0.00	23.04	41.11

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	-79.16	83.16	0.89		2.78	4
2	-111.23	117.23	1.25		8.33	6
3	-47.09	58.09	0.62		13.89	11
4	-15.01	31.01	0.33		19.44	16
5	17.06	-0.06	-0.00		25.00	17
6	49.13	-25.13	-0.27		30.56	24
7	81.21	-51.21	-0.55		36.11	30
8	113.28	-61.28	-0.65		41.67	52
9	145.35	-90.35	-0.96		47.22	55
10	209.50	-118.50	-1.26		52.78	91
11	177.43	-78.43	-0.84		58.33	99
12	241.57	-126.57	-1.35		63.89	115
13	273.65	-113.65	-1.21		69.44	160
14	305.72	-5.72	-0.06		75.00	300
15	337.79	12.21	0.13		80.56	350
16	434.01	65.99	0.70		86.11	500
17	369.87	130.13	1.39		91.67	500
18	401.94	173.06	1.85		97.22	575

Double-crested Cormorant

ANWR+CCW

2 outliers removed

Trend Slope as % of Avg =   7.77%
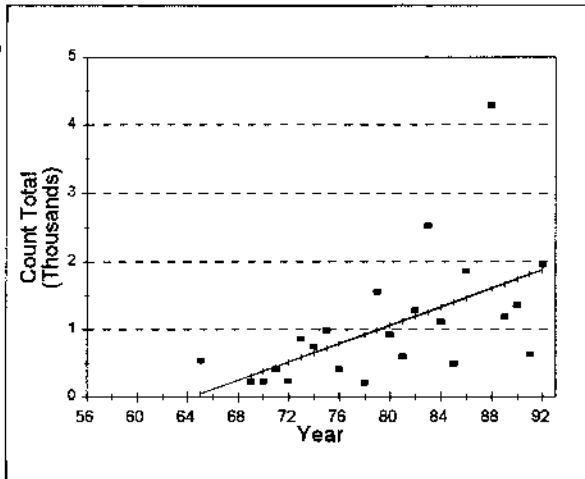
Regression Statistics

Multiple R	0.65
R Square	0.42
Adjusted R Square	0.39
Standard Error	716.40
Observations	29.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	9874743.08	9874743.08	19.24	0.00
Residual	27.00	13857239.47	513231.09		
Total	28.00	23731982.55			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-4353.37	1198.60	-3.63	0.00	-6812.69	-1894.05
x1	67.71	15.44	4.39	0.00	36.03	99.38

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	-87.90	98.90	0.14	1.72	11
2	-20.19	44.19	0.06	5.17	24
3	182.92	-96.92	-0.14	8.62	86
4	115.22	-2.22	-0.00	12.07	113
5	859.98	-692.98	-0.97	15.52	167
6	250.63	-74.63	-0.10	18.97	176
7	927.69	-713.69	-1.00	22.41	214
8	318.34	-92.34	-0.13	25.86	226
9	386.04	-152.04	-0.21	29.31	234
10	521.45	-282.45	-0.39	32.76	239
11	792.28	-376.28	-0.53	36.21	416
12	453.75	-36.75	-0.05	39.66	417
13	1401.63	-903.63	-1.26	43.10	498
14	47.51	492.49	0.69	46.55	540
15	1130.81	-531.81	-0.74	50.00	599
16	1807.86	-1176.86	-1.64	53.45	631
17	656.86	86.14	0.12	56.90	743
18	589.16	279.84	0.39	60.34	869
19	1063.10	-136.10	-0.19	63.79	927
20	724.57	273.43	0.38	67.24	998
21	1333.92	-218.92	-0.31	70.69	1115
22	1672.45	-476.45	-0.67	74.14	1196
23	1198.51	87.49	0.12	77.59	1286
24	1740.16	-374.16	-0.52	81.03	1366
25	995.39	560.61	0.78	84.48	1556
26	1469.33	393.67	0.55	87.93	1863
27	1875.57	81.43	0.11	91.38	1957
28	1266.22	1255.78	1.75	94.83	2522
29	1604.75	2684.25	3.75	98.28	4289

Double-crested Cormorant

ANWR

2 outliers removed

Trend Slope as % of A   8.55%

Regression Statistics

Multiple R	0.58
R Square	0.34
Adjusted R Square	0.32
Standard Error	678.42
Observations	34
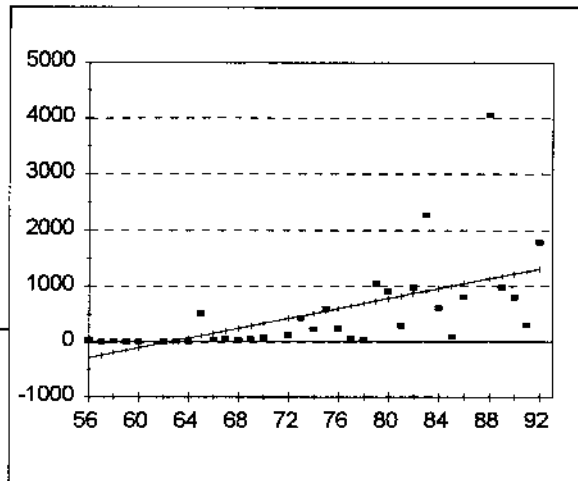
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	7549540.66	7549540.66	16.40	0.00
Residual	32.00	14728329.58	460260.30		
Total	33.00	22277870.24			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-2755.41	816.23	-3.38	0.00	-4418.01	-1092.80
x1	44.16	10.90	4.05	0.00	21.95	66.38

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	-282.25	322.25	0.47	1.47	2.00
2	-238.09	243.09	0.36	4.41	3.00
3	-193.92	213.92	0.32	7.35	5.00
4	-149.76	155.76	0.23	10.29	6.00
5	-105.60	111.60	0.16	13.24	6.00
6	-17.27	19.27	0.03	16.18	11.00
7	26.89	-15.89	-0.02	19.12	20.00
8	71.06	-68.06	-0.10	22.06	27.00
9	115.22	398.78	0.59	25.00	40.00
10	159.38	-117.38	-0.17	27.94	42.00
11	203.55	-134.55	-0.20	30.88	46.00
12	247.71	-220.71	-0.33	33.82	58.00
13	291.87	-233.87	-0.34	36.76	69.00
14	336.04	-253.04	-0.37	39.71	75.00
15	424.36	-295.36	-0.44	42.65	83.00
16	468.53	-35.53	-0.05	45.59	103.00
17	512.69	-290.69	-0.43	48.53	129.00
18	556.85	38.15	0.06	51.47	222.00
19	601.02	-358.02	-0.53	54.41	243.00
20	645.18	-570.18	-0.84	57.35	298.00
21	689.35	-643.35	-0.95	60.29	306.00
22	733.51	311.49	0.46	63.24	433.00
23	777.67	127.33	0.19	66.18	514.00
24	821.84	-523.84	-0.77	69.12	595.00
25	866.00	110.00	0.16	72.06	611.00
26	910.16	1366.84	2.01	75.00	797.00
27	954.33	-343.33	-0.51	77.94	808.00
28	998.49	-895.49	-1.32	80.88	905.00
29	1042.65	-234.65	-0.35	83.82	976.00
30	1130.98	2910.02	4.29	86.76	978.00
31	1175.14	-197.14	-0.29	89.71	1045.00
32	1219.31	-422.31	-0.62	92.65	1790.00
33	1263.47	-957.47	-1.41	95.59	2277.00
34	1307.63	482.37	0.71	98.53	4041.00

Double-crested Cormorant

1 outlier removed

Trend Slope as % of Avg =   3.89%

Regression Statistics

Multiple R	0.52
R Square	0.27
Adjusted R Square	0.24
Standard Error	153.01
Observations	29.00

CCW
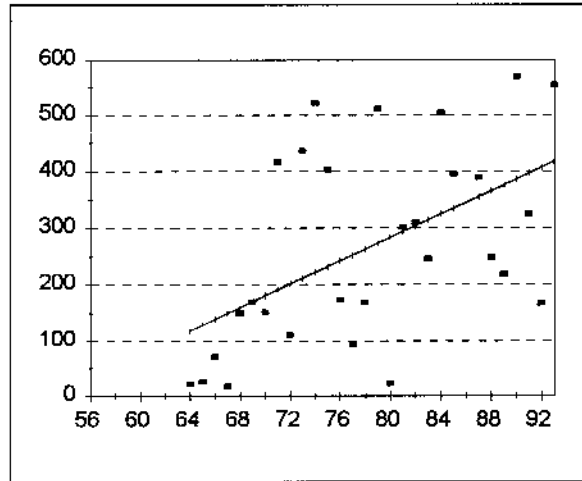
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	232615.69	232615.69	9.94	0.00
Residual	27.00	632115.76	23411.69		
Total	28.00	864731.45			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-541.63	257.43	-2.10	0.04	-1069.84	-13.43
x1	10.31	3.27	3.15	0.00	3.60	17.02

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	148.99	-131.99	-0.86		1.72	17
2	118.06	-97.06	-0.63		5.17	21
3	282.99	-260.99	-1.71		8.62	22
4	128.37	-102.37	-0.67		12.07	26
5	138.68	-67.68	-0.44		15.52	71
6	252.07	-160.07	-1.05		18.97	92
7	200.53	-90.53	-0.59		22.41	110
8	159.30	-10.30	-0.07		25.86	149
9	179.91	-28.91	-0.19		29.31	151
10	406.68	-239.68	-1.57		32.76	167
11	169.60	-1.60	-0.01		36.21	168
12	262.37	-94.37	-0.62		39.66	168
13	241.76	-68.76	-0.45		43.10	173
14	375.76	-157.76	-1.03		46.55	218
15	313.91	-68.91	-0.45		50.00	245
16	365.45	-117.45	-0.77		53.45	248
17	293.30	7.70	0.05		56.90	301
18	303.61	6.39	0.04		60.34	310
19	396.38	-71.38	-0.47		63.79	325
20	355.14	33.86	0.22		67.24	389
21	334.53	60.47	0.40		70.69	395
22	231.45	171.55	1.12		74.14	403
23	190.22	226.78	1.48		77.59	417
24	210.83	225.17	1.47		81.03	436
25	324.22	179.78	1.17		84.48	504
26	272.68	238.32	1.56		87.93	511
27	221.14	299.86	1.96		91.38	521
28	416.99	137.01	0.90		94.83	554
29	386.07	182.93	1.20		98.28	569

Neotropic Cormorant

ANWR+CCW

2 outliers removed

Trend Slope as % of Avg = 10.39%
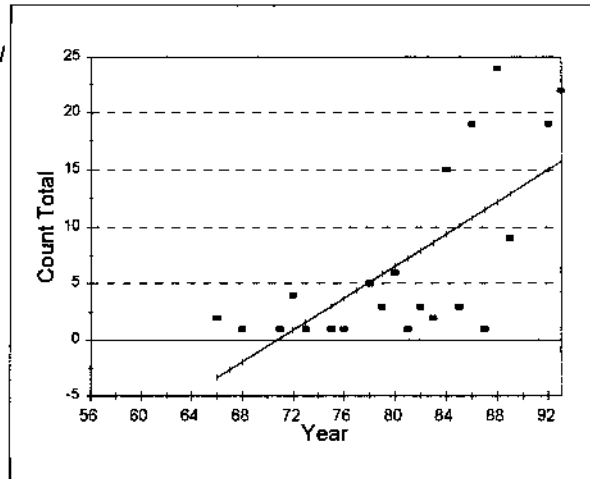
Regression Statistics

Multiple R	0.69
R Square	0.48
Adjusted R Square	0.45
Standard Error	5.83
Observations	21.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	588.48	588.48	17.34	0.00
Residual	19.00	644.76	33.93		
Total	20.00	1233.24			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-50.08	13.72	-3.65	0.00	-78.79	-21.36
x1	0.71	0.17	4.16	0.00	0.35	1.06

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	-1.95	2.95	0.51	2.38	1
2	1.59	-0.59	-0.10	7.14	1
3	0.17	0.83	0.14	11.90	1
4	3.71	-2.71	-0.47	16.67	1
5	3.00	-2.00	-0.34	21.43	1
6	11.49	-10.49	-1.80	26.19	1
7	7.25	-6.25	-1.07	30.95	1
8	8.66	-6.66	-1.14	35.71	2
9	-3.37	5.37	0.92	40.48	2
10	10.08	-7.08	-1.22	45.24	3
11	7.96	-4.96	-0.85	50.00	3
12	5.83	-2.83	-0.49	54.76	3
13	0.88	3.12	0.54	59.52	4
14	5.12	-0.12	-0.02	64.29	5
15	6.54	-0.54	-0.09	69.05	6
16	12.91	-3.91	-0.67	73.81	9
17	9.37	5.63	0.97	78.57	15
18	15.03	3.97	0.68	83.33	19
19	10.79	8.21	1.41	88.10	19
20	15.74	6.26	1.07	92.86	22
21	12.20	11.80	2.03	97.62	24

Neotropic Cormorant

1 outlier removed

Trend Slope as % of Avg =   -0.53%

ANWR
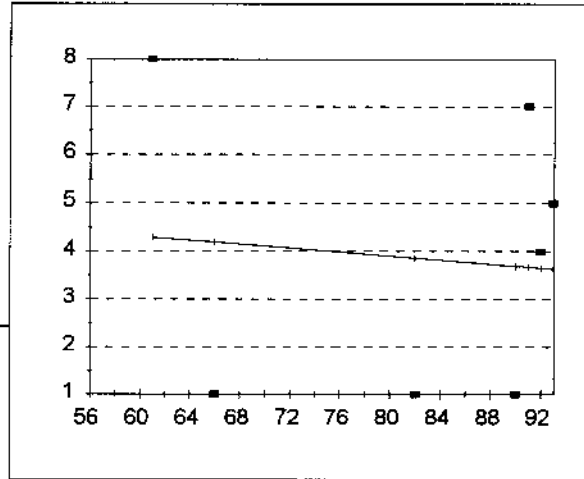
Multiple R	0.09
R Square	0.01
Adjusted R Square	-0.19
Standard Error	3.24
Observations	7

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	0.45	0.45	0.04	0.84
Residual	5.00	52.41	10.48		
Total	6.00	52.86			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	5.55	8.25	0.67	0.53	-15.66	26.75
x1	-0.02	0.10	-0.21	0.84	-0.28	0.23

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	4.29	3.71	1.15		7.14	1
2	4.19	-3.19	-0.99		21.43	1
3	3.86	-2.86	-0.88		35.71	1
4	3.70	-2.70	-0.83		50.00	4
5	3.68	3.32	1.03		64.29	5
6	3.65	0.35	0.11		78.57	7
7	3.63	1.37	0.42		92.86	8

Neotropic Cormorant

CCW

3 outliers removed

Trend Slope as % of Avg =   9.86%

Regression Statistics

Multiple R	0.67
R Square	0.45
Adjusted R Square	0.41
Standard Error	4.67
Observations	20.00
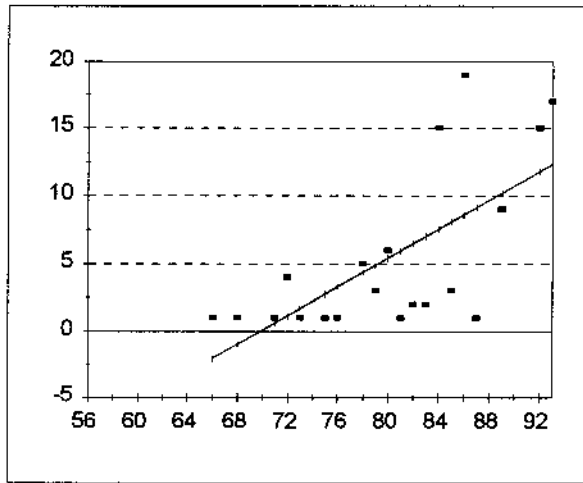
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	315.66	315.66	14.45	0.00
Residual	18.00	393.14	21.84		
Total	19.00	708.80			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-37.19	11.25	-3.31	0.00	-60.82	-13.55
x1	0.53	0.14	3.80	0.00	0.24	0.83

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	0.61	0.39	0.08		2.50	1
2	1.67	-0.67	-0.14		7.50	1
3	-2.05	3.05	0.65		12.50	1
4	3.27	-2.27	-0.49		17.50	1
5	5.93	-4.93	-1.06		22.50	1
6	2.74	-1.74	-0.37		27.50	1
7	-0.99	1.99	0.43		32.50	1
8	9.13	-8.13	-1.74		37.50	1
9	6.46	-4.46	-0.96		42.50	2
10	7.00	-5.00	-1.07		47.50	2
11	8.06	-5.06	-1.08		52.50	3
12	4.87	-1.87	-0.40		57.50	3
13	1.14	2.86	0.61		62.50	4
14	4.34	0.66	0.14		67.50	5
15	5.40	0.60	0.13		72.50	6
16	10.19	-1.19	-0.25		77.50	9
17	11.79	3.21	0.69		82.50	15
18	7.53	7.47	1.60		87.50	15
19	12.32	4.68	1.00		92.50	17
20	8.59	10.41	2.23		97.50	19

Anhinga

ANWR+CCW

2 outliers removed

Trend Slope as % of Avg =   -0.06%
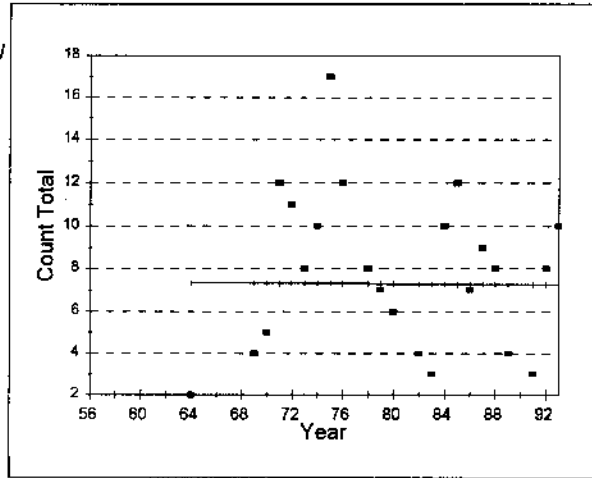
Regression Statistics

Multiple R	0.01
R Square	0.00
Adjusted R Square	-0.04
Standard Error	4.09
Observations	25.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	0.03	0.03	0.00	0.96
Residual	23.00	385.01	16.74		
Total	24.00	385.04			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	7.64	7.94	0.96	0.35	-8.79	24.07
x1	-0.00	0.10	-0.05	0.96	-0.21	0.20

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	7.23	-6.23	-1.52	2.00	1
2	7.33	-6.33	-1.55	6.00	1
3	7.35	-5.35	-1.31	10.00	2
4	7.23	-4.23	-1.03	14.00	3
5	7.27	-4.27	-1.04	18.00	3
6	7.27	-3.27	-0.80	22.00	4
7	7.24	-3.24	-0.79	26.00	4
8	7.33	-3.33	-0.81	30.00	4
9	7.32	-2.32	-0.57	34.00	5
10	7.28	-1.28	-0.31	38.00	6
11	7.28	-0.28	-0.07	42.00	7
12	7.25	-0.25	-0.06	46.00	7
13	7.31	0.69	0.17	50.00	8
14	7.24	0.76	0.18	54.00	8
15	7.23	0.77	0.19	58.00	8
16	7.29	0.71	0.17	62.00	8
17	7.25	1.75	0.43	66.00	9
18	7.26	2.74	0.67	70.00	10
19	7.31	2.69	0.66	74.00	10
20	7.22	2.78	0.68	78.00	10
21	7.32	3.68	0.90	82.00	11
22	7.26	4.74	1.16	86.00	12
23	7.32	4.68	1.14	90.00	12
24	7.30	4.70	1.15	94.00	12
25	7.30	9.70	2.37	98.00	17

Anhinga

ANWR

1 outlier removed

Trend Slope as % of Avg =   -0.64%

Regression Statistics

Multiple R	0.08
R Square	0.01
Adjusted R Square	-0.09
Standard Error	1.44
Observations	12
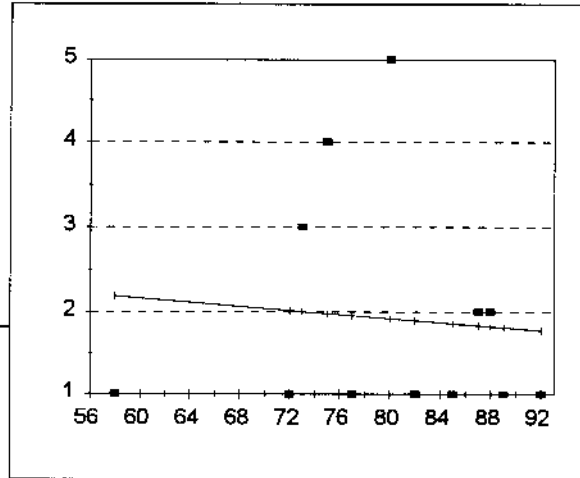
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	0.15	0.15	0.07	0.79
Residual	10.00	20.77	2.08		
Total	11.00	20.92			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	2.89	3.67	0.79	0.45	-5.28	11.06
x1	-0.01	0.05	-0.27	0.79	-0.11	0.09

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	2.18	-1.18	-0.82		4.17	1
2	2.01	-1.01	-0.70		12.50	1
3	2.00	1.00	0.69		20.83	1
4	1.98	2.02	1.40		29.17	1
5	1.95	-0.95	-0.66		37.50	1
6	1.91	3.09	2.14		45.83	1
7	1.89	-0.89	-0.62		54.17	1
8	1.85	-0.85	-0.59		62.50	2
9	1.83	0.17	0.12		70.83	2
10	1.82	0.18	0.13		79.17	3
11	1.80	-0.80	-0.56		87.50	4
12	1.77	-0.77	-0.53		95.83	5
13	2.77	-1.77	-0.51		96.15	13

Anhinga

CCW

1 outlier removed

Trend Slope as % of Avg =   -0.10%

Regression Statistics

Multiple R	0.01
R Square	0.00
Adjusted R Square	-0.04
Standard Error	4.02
Observations	26.00
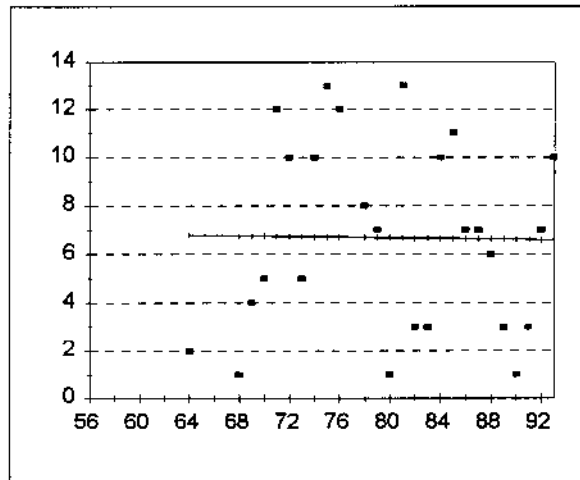
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	0.07	0.07	0.00	0.95
Residual	24.00	387.47	16.14		
Total	25.00	387.54			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	7.21	7.80	0.92	0.36	-8.89	23.30
x1	-0.01	0.10	-0.07	0.95	-0.21	0.19

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	6.77	-5.77	-1.44	1.92	1
2	6.69	-5.69	-1.42	5.77	1
3	6.63	-5.63	-1.40	9.62	1
4	6.79	-4.79	-1.19	13.46	2
5	6.62	-3.62	-0.90	17.31	3
6	6.68	-3.68	-0.92	21.15	3
7	6.63	-3.63	-0.90	25.00	3
8	6.67	-3.67	-0.91	28.85	3
9	6.76	-2.76	-0.69	32.69	4
10	6.74	-1.74	-0.43	36.54	5
11	6.76	-1.76	-0.44	40.38	5
12	6.64	-0.64	-0.16	44.23	6
13	6.70	0.30	0.07	48.08	7
14	6.65	0.35	0.09	51.92	7
15	6.62	0.38	0.10	55.77	7
16	6.65	0.35	0.09	59.62	7
17	6.71	1.29	0.32	63.46	8
18	6.67	3.33	0.83	67.31	10
19	6.61	3.39	0.84	71.15	10
20	6.74	3.26	0.81	75.00	10
21	6.73	3.27	0.81	78.85	10
22	6.66	4.34	1.08	82.69	11
23	6.72	5.28	1.31	86.54	12
24	6.75	5.25	1.31	90.38	12
25	6.72	6.28	1.56	94.23	13
26	6.69	6.31	1.57	98.08	13

Am. Bittern

ANWR+CCW

3 outliers removed

Trend Slope as % of Avg =   -0.64%
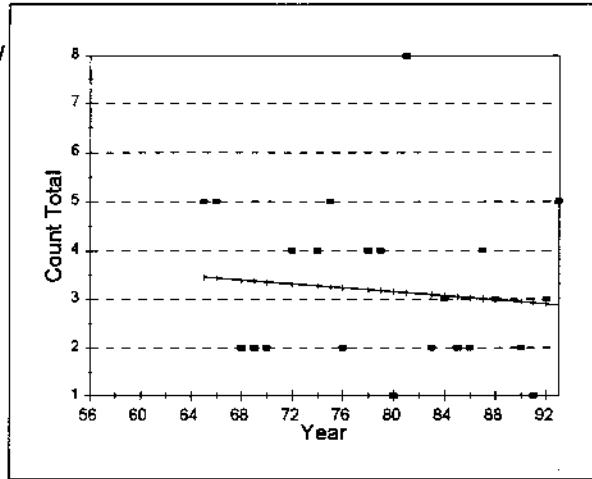
Regression Statistics

Multiple R	0.10
R Square	0.01
Adjusted R Square	-0.03
Standard Error	1.71
Observations	24.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	0.71	0.71	0.24	0.63
Residual	22.00	64.62	2.94		
Total	23.00	65.33			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	4.77	3.28	1.45	0.16	-2.03	11.58
x1	-0.02	0.04	-0.49	0.63	-0.11	0.07

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	3.33	-2.33	-1.36	2.08	1
2	3.15	-2.15	-1.26	6.25	1
3	2.93	-1.93	-1.13	10.42	1
4	3.40	-1.40	-0.81	14.58	2
5	2.95	-0.95	-0.55	18.75	2
6	3.38	-1.38	-0.80	22.92	2
7	3.09	-1.09	-0.64	27.08	2
8	3.23	-1.23	-0.72	31.25	2
9	3.03	-1.03	-0.60	35.42	2
10	3.36	-1.36	-0.79	39.58	2
11	3.05	-1.05	-0.61	43.75	2
12	2.99	0.01	0.01	47.92	3
13	2.91	0.09	0.05	52.08	3
14	3.07	-0.07	-0.04	56.25	3
15	3.17	0.83	0.48	60.42	4
16	3.19	0.81	0.47	64.58	4
17	3.01	0.99	0.58	68.75	4
18	3.27	0.73	0.42	72.92	4
19	3.31	0.69	0.40	77.08	4
20	3.25	1.75	1.02	81.25	5
21	3.46	1.54	0.90	85.42	5
22	2.89	2.11	1.23	89.58	5
23	3.44	1.56	0.91	93.75	5
24	3.13	4.87	2.84	97.92	8

Am. Bittern

ANWR

2 outliers removed

Trend Slope as % of Avg =   0.29%

Regression Statistics

Multiple R	0.09
R Square	0.01
Adjusted R Square	-0.06
Standard Error	0.40
Observations	17
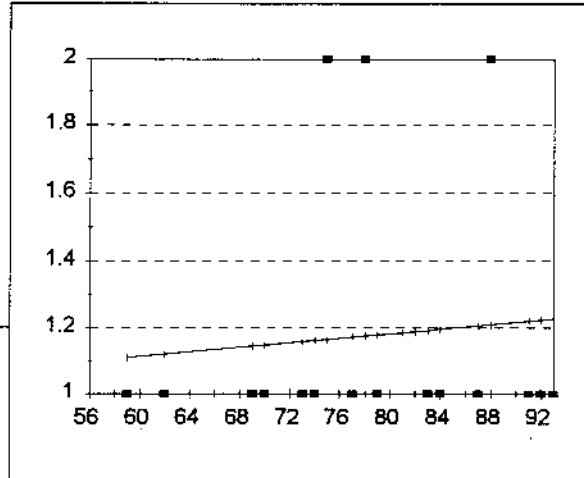
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	0.02	0.02	0.12	0.74
Residual	15.00	2.45	0.16		
Total	16.00	2.47			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	0.91	0.79	1.15	0.27	-0.77	2.59
x1	0.00	0.01	0.34	0.74	-0.02	0.02

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	1.11	-0.11	-0.27	2.94	1
2	1.12	-0.12	-0.30	8.82	1
3	1.14	-0.14	-0.36	14.71	1
4	1.15	-0.15	-0.37	20.59	1
5	1.16	-0.16	-0.39	26.47	1
6	1.16	-0.16	-0.40	32.35	1
7	1.16	0.84	2.07	38.24	1
8	1.17	-0.17	-0.42	44.12	1
9	1.17	0.83	2.04	50.00	1
10	1.18	-0.18	-0.44	55.88	1
11	1.19	-0.19	-0.47	61.76	1
12	1.20	-0.20	-0.48	67.65	1
13	1.21	-0.21	-0.51	73.53	1
14	1.21	0.79	1.96	79.41	1
15	1.22	-0.22	-0.54	85.29	2
16	1.22	-0.22	-0.55	91.18	2
17	1.23	-0.23	-0.56	97.06	2
18	1.79	-0.79	-0.61	92.11	5
19	1.80	-0.80	-0.62	97.37	5

Am. Bittern

CCW

Trend Slope as % of Avg =   -1.59%
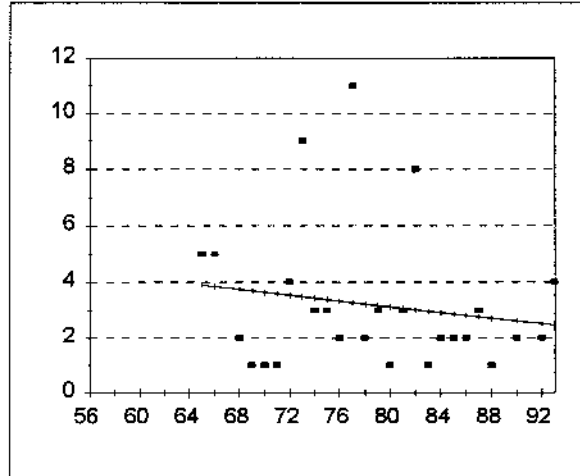
Regression Statistics

Multiple R	0.16
R Square	0.03
Adjusted R Square	-0.02
Standard Error	2.60
Observations	26.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	4.21	4.21	0.62	0.44
Residual	24.00	161.83	6.74		
Total	25.00	166.04			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	7.18	5.07	1.42	0.17	-3.28	17.64
x1	-0.05	0.06	-0.79	0.44	-0.18	0.08

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	2.72	-1.72	-0.66	1.92	1
2	3.12	-2.12	-0.82	5.77	1
3	2.97	-1.97	-0.76	9.62	1
4	3.58	-2.58	-0.99	13.46	1
5	3.68	-2.68	-1.03	17.31	1
6	3.63	-2.63	-1.01	21.15	1
7	2.61	-0.61	-0.24	25.00	2
8	2.51	-0.51	-0.20	28.85	2
9	2.92	-0.92	-0.35	32.69	2
10	2.82	-0.82	-0.31	36.54	2
11	2.87	-0.87	-0.33	40.38	2
12	3.32	-1.32	-0.51	44.23	2
13	3.22	-1.22	-0.47	48.08	2
14	3.73	-1.73	-0.67	51.92	2
15	3.38	-0.38	-0.14	55.77	3
16	2.77	0.23	0.09	59.62	3
17	3.43	-0.43	-0.16	63.46	3
18	3.07	-0.07	-0.03	67.31	3
19	3.17	-0.17	-0.07	71.15	3
20	3.53	0.47	0.18	75.00	4
21	2.46	1.54	0.59	78.85	4
22	3.83	1.17	0.45	82.69	5
23	3.88	1.12	0.43	86.54	5
24	3.02	4.98	1.92	90.38	8
25	3.48	5.52	2.13	94.23	9
26	3.27	7.73	2.98	98.08	11

Great Blue Heron

Data Corrected: ANWR+CCW
Count/(Party Hours)^B
where B = .83

Trend Slope as % of Avg =   -1.32%
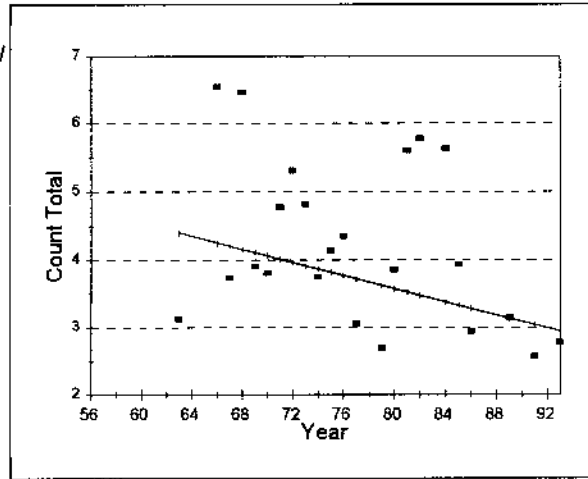
Regression Statistics

Multiple R	0.32
R Square	0.10
Adjusted R Square	0.07
Standard Error	1.34
Observations	31.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	5.82	5.82	3.23	0.08
Residual	29.00	52.29	1.80		
Total	30.00	58.11			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	7.45	2.12	3.52	0.00	3.12	11.78
x1	-0.05	0.03	-1.80	0.08	-0.10	0.01

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	4.35	-3.03	-2.26	1.61	1
2	3.19	-1.23	-0.92	4.84	2
3	3.43	-1.30	-0.97	8.06	2
4	3.67	-1.39	-1.03	11.29	2
5	3.09	-0.80	-0.60	14.52	2
6	3.24	-0.94	-0.70	17.74	2
7	3.00	-0.63	-0.47	20.97	2
8	4.30	-1.79	-1.33	24.19	3
9	3.04	-0.47	-0.35	27.42	3
10	3.63	-0.93	-0.69	30.65	3
11	2.95	-0.17	-0.13	33.87	3
12	3.29	-0.34	-0.26	37.10	3
13	3.72	-0.66	-0.49	40.32	3
14	4.40	-1.26	-0.94	43.55	3
15	3.14	0.01	0.01	46.77	3
16	4.21	-0.47	-0.35	50.00	4
17	3.87	-0.12	-0.09	53.23	4
18	4.06	-0.26	-0.19	56.45	4
19	3.58	0.28	0.21	59.68	4
20	4.11	-0.20	-0.15	62.90	4
21	3.33	0.60	0.45	66.13	4
22	3.82	0.32	0.24	69.35	4
23	3.77	0.58	0.43	72.58	4
24	4.01	0.77	0.57	75.81	5
25	3.92	0.91	0.68	79.03	5
26	3.96	1.34	1.00	82.26	5
27	3.53	2.07	1.54	85.48	6
28	3.38	2.24	1.67	88.71	6
29	3.48	2.29	1.71	91.94	6
30	4.16	2.30	1.71	95.16	6
31	4.25	2.29	1.70	98.39	7

Great Blue Heron

ANWR

Trend Slope as % of Avg =   2.40%
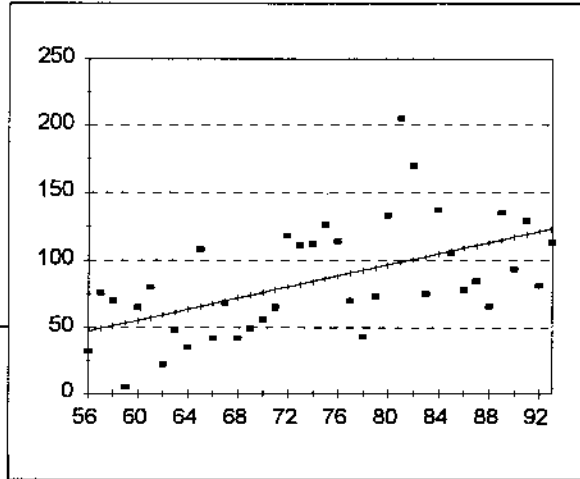
Regression Statistics

Multiple R	0.54
R Square	0.29
Adjusted R Square	0.27
Standard Error	35.65
Observations	38

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	19082.67	19082.67	15.02	0.00
Residual	36.00	45740.91	1270.58		
Total	37.00	64823.58			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-67.14	39.71	-1.69	0.10	-147.67	13.39
x1	2.04	0.53	3.88	0.00	0.97	3.11

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	47.30	-15.30	-0.43	1.32	5
2	49.34	26.66	0.75	3.95	22
3	51.39	18.61	0.52	6.58	32
4	53.43	-48.43	-1.36	9.21	35
5	55.47	9.53	0.27	11.84	42
6	57.52	22.48	0.63	14.47	42
7	59.56	-37.56	-1.05	17.11	43
8	61.60	-13.60	-0.38	19.74	48
9	63.65	-28.65	-0.80	22.37	49
10	65.69	42.31	1.19	25.00	56
11	67.74	-25.74	-0.72	27.63	65
12	69.78	-1.78	-0.05	30.26	65
13	71.82	-29.82	-0.84	32.89	66
14	73.87	-24.87	-0.70	35.53	68
15	75.91	-19.91	-0.56	38.16	70
16	77.95	-12.95	-0.36	40.79	70
17	80.00	38.00	1.07	43.42	73
18	82.04	28.96	0.81	46.05	75
19	84.08	27.92	0.78	48.68	76
20	86.13	39.87	1.12	51.32	78
21	88.17	25.83	0.72	53.95	80
22	90.21	-20.21	-0.57	56.58	81
23	92.26	-49.26	-1.38	59.21	84
24	94.30	-21.30	-0.60	61.84	93
25	96.34	36.66	1.03	64.47	105
26	98.39	106.61	2.99	67.11	108
27	100.43	69.57	1.95	69.74	111
28	102.48	-27.48	-0.77	72.37	112
29	104.52	32.48	0.91	75.00	113
30	106.56	-1.56	-0.04	77.63	114
31	108.61	-30.61	-0.86	80.26	118
32	110.65	-26.65	-0.75	82.89	126
33	112.69	-46.69	-1.31	85.53	129
34	114.74	20.26	0.57	88.16	133
35	116.78	-23.78	-0.67	90.79	135
36	118.82	10.18	0.29	93.42	137
37	120.87	-39.87	-1.12	96.05	170
38	122.91	-9.91	-0.28	98.68	205

Great Blue Heron

Trend Slope as % of Avg =   0.39%
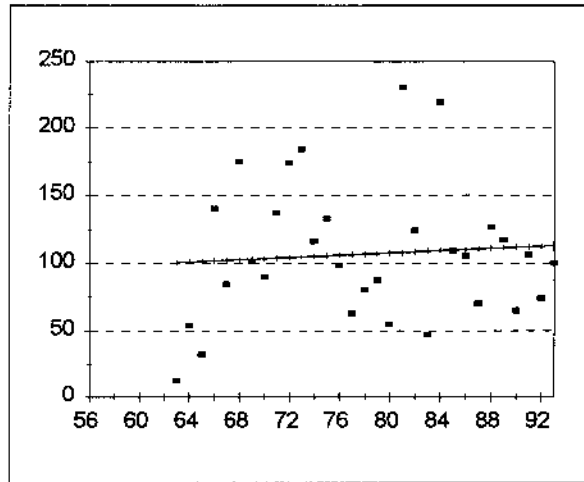
Regression Statistics

Multiple R	0.07
R Square	0.01
Adjusted R Square	-0.03
Standard Error	51.80
Observations	31.00

CCW

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	424.47	424.47	0.16	0.69
Residual	29.00	77826.31	2683.67		
Total	30.00	78250.77			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	74.41	81.67	0.91	0.37	-92.63	241.44
x1	0.41	1.04	0.40	0.69	-1.71	2.54

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	100.47	-88.47	-1.71	1.61	12
2	101.30	-69.30	-1.34	4.84	32
3	108.75	-61.75	-1.19	8.06	47
4	100.89	-46.89	-0.91	11.29	54
5	107.50	-52.50	-1.01	14.52	55
6	106.26	-43.26	-0.84	17.74	63
7	111.64	-46.64	-0.90	20.97	65
8	110.40	-40.40	-0.78	24.19	70
9	112.47	-38.47	-0.74	27.42	74
10	106.68	-26.68	-0.51	30.65	80
11	102.13	-18.13	-0.35	33.87	84
12	107.09	-20.09	-0.39	37.10	87
13	103.37	-13.37	-0.26	40.32	90
14	105.85	-7.85	-0.15	43.55	98
15	112.88	-12.88	-0.25	46.77	100
16	102.95	-1.95	-0.04	50.00	101
17	109.99	-4.99	-0.10	53.23	105
18	112.06	-6.06	-0.12	56.45	106
19	109.57	-0.57	-0.01	59.68	109
20	105.02	10.98	0.21	62.90	116
21	111.23	5.77	0.11	66.13	117
22	108.33	15.67	0.30	69.35	124
23	110.81	15.19	0.29	72.58	126
24	105.44	27.56	0.53	75.81	133
25	103.78	33.22	0.64	79.03	137
26	101.71	38.29	0.74	82.26	140
27	104.20	69.80	1.35	85.48	174
28	102.54	72.46	1.40	88.71	175
29	104.61	79.39	1.53	91.94	184
30	109.16	109.84	2.12	95.16	219
31	107.92	122.08	2.36	98.39	230

Great Blue Heron

TCWS

Trend Slope as % of Avg =   -4.81%
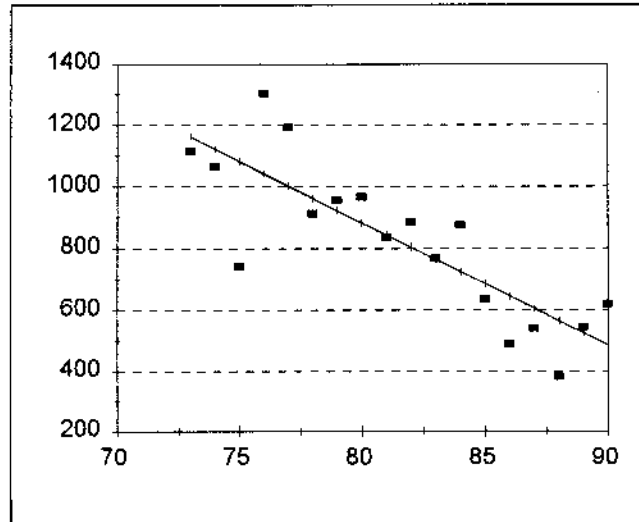
Regression Statistics

Multiple R	0.83
R Square	0.69
Adjusted R Square	0.67
Standard Error	147.28
Observations	18.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	761620.00	761620.00	35.11	0.00
Residual	16.00	347052.28	21690.77		
Total	17.00	1108672.28			

	Coefficients	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	4054.93	546.42	7.42	0.00	2896.57	5213.29
x1	-39.65	6.69	-5.93	0.00	-53.83	-25.46

| Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	565.90	-183.90	-1.25	2.78	382
2	645.19	-156.19	-1.06	8.33	489
3	605.55	-63.55	-0.43	13.89	542
4	526.25	19.75	0.13	19.44	546
5	486.60	132.40	0.90	25.00	619
6	684.84	-50.84	-0.35	30.56	634
7	1081.32	-340.32	-2.31	36.11	741
8	764.14	3.86	0.03	41.67	768
9	843.44	-6.44	-0.04	47.22	837
10	724.49	150.51	1.02	52.78	875
11	803.79	82.21	0.56	58.33	886
12	962.38	-48.38	-0.33	63.89	914
13	922.73	34.27	0.23	69.44	957
14	883.08	82.92	0.56	75.00	966
15	1120.97	-56.97	-0.39	80.56	1064
16	1160.62	-47.62	-0.32	86.11	1113
17	1002.03	187.97	1.28	91.67	1190
18	1041.68	260.32	1.77	97.22	1302

Great Egret

Data Corrected:
Count/(Party Hours)^B
where B = .74

2 outliers removed

Trend Slope as % of Avg =   -0.51%

ANWR+CCW
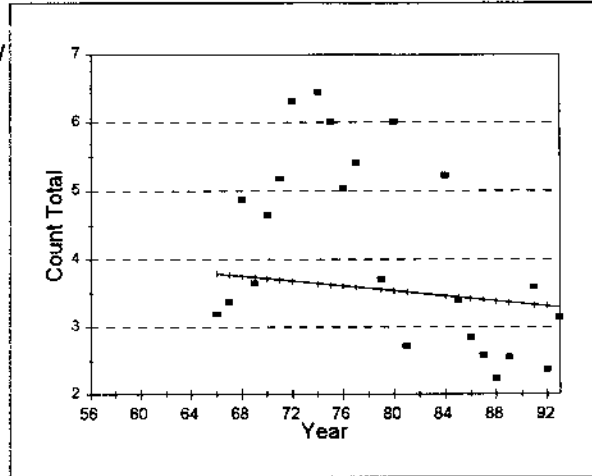
Regression Statistics

Multiple R	0.10
R Square	0.01
Adjusted R Square	-0.03
Standard Error	1.67
Observations	29.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	0.81	0.81	0.29	0.59
Residual	27.00	74.98	2.78		
Total	28.00	75.79			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	4.99	2.65	1.88	0.07	-0.45	10.43
x1	-0.02	0.03	-0.54	0.59	-0.09	0.05

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	3.83	-3.24	-1.94	1.72	1
2	3.81	-2.78	-1.67	5.17	1
3	3.48	-1.97	-1.18	8.62	2
4	3.84	-2.12	-1.27	12.07	2
5	3.35	-1.35	-0.81	15.52	2
6	3.57	-1.42	-0.85	18.97	2
7	3.39	-1.16	-0.69	22.41	2
8	3.32	-0.94	-0.56	25.86	2
9	3.37	-0.81	-0.49	29.31	3
10	3.41	-0.82	-0.49	32.76	3
11	3.52	-0.79	-0.48	36.21	3
12	3.42	-0.58	-0.35	39.66	3
13	3.30	-0.14	-0.09	43.10	3
14	3.79	-0.59	-0.36	46.55	3
15	3.77	-0.39	-0.24	50.00	3
16	3.44	-0.04	-0.02	53.45	3
17	3.33	0.26	0.15	56.90	4
18	3.73	-0.10	-0.06	60.34	4
19	3.55	0.15	0.09	63.79	4
20	3.72	0.93	0.56	67.24	5
21	3.75	1.13	0.68	70.69	5
22	3.61	1.43	0.86	74.14	5
23	3.70	1.49	0.89	77.59	5
24	3.46	1.77	1.06	81.03	5
25	3.59	1.82	1.09	84.48	5
26	3.53	2.47	1.48	87.93	6
27	3.62	2.38	1.43	91.38	6
28	3.68	2.64	1.58	94.83	6
29	3.64	2.80	1.68	98.28	6

Great Egret

ANWR

Trend Slope as % of Avg =   2.33%
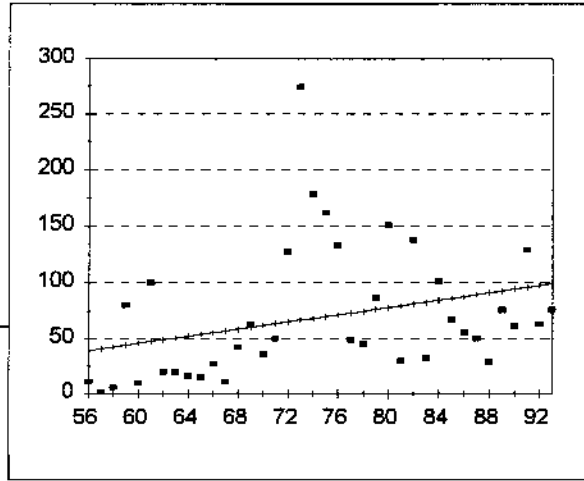
Regression Statistics

Multiple R	0.30
R Square	0.09
Adjusted R Square	0.07
Standard Error	56.59
Observations	38

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	11785.44	11785.44	3.68	0.06
Residual	36.00	115299.53	3202.76		
Total	37.00	127084.97			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-50.62	63.04	-0.80	0.43	-178.48	77.24
x1	1.61	0.84	1.92	0.06	-0.09	3.30

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	39.32	-28.32	-0.50	1.32	2
2	40.92	-38.92	-0.69	3.95	6
3	42.53	-36.53	-0.65	6.58	10
4	44.13	35.87	0.63	9.21	11
5	45.74	-35.74	-0.63	11.84	11
6	47.35	52.65	0.93	14.47	15
7	48.95	-28.95	-0.51	17.11	16
8	50.56	-30.56	-0.54	19.74	20
9	52.16	-36.16	-0.64	22.37	20
10	53.77	-38.77	-0.69	25.00	27
11	55.38	-28.38	-0.50	27.63	29
12	56.98	-45.98	-0.81	30.26	30
13	58.59	-16.59	-0.29	32.89	32
14	60.19	2.81	0.05	35.53	36
15	61.80	-25.80	-0.46	38.16	42
16	63.41	-13.41	-0.24	40.79	45
17	65.01	61.99	1.10	43.42	49
18	66.62	207.38	3.66	46.05	50
19	68.22	110.78	1.96	48.68	50
20	69.83	92.17	1.63	51.32	56
21	71.44	61.56	1.09	53.95	61
22	73.04	-24.04	-0.42	56.58	63
23	74.65	-29.65	-0.52	59.21	63
24	76.25	9.75	0.17	61.84	67
25	77.86	73.14	1.29	64.47	76
26	79.47	-49.47	-0.87	67.11	76
27	81.07	56.93	1.01	69.74	80
28	82.68	-50.68	-0.90	72.37	86
29	84.28	16.72	0.30	75.00	100
30	85.89	-18.89	-0.33	77.63	101
31	87.50	-31.50	-0.56	80.26	127
32	89.10	-39.10	-0.69	82.89	129
33	90.71	-61.71	-1.09	85.53	133
34	92.31	-16.31	-0.29	88.16	138
35	93.92	-32.92	-0.58	90.79	151
36	95.52	33.48	0.59	93.42	162
37	97.13	-34.13	-0.60	96.05	179
38	98.74	-22.74	-0.40	98.68	274

Great Egret

1 outlier removed

Trend Slope as % of Avg =   1.01%

Regression Statistics

Multiple R	0.18
R Square	0.03
Adjusted R Square	-0.00
Standard Error	31.12
Observations	30.00

CCW
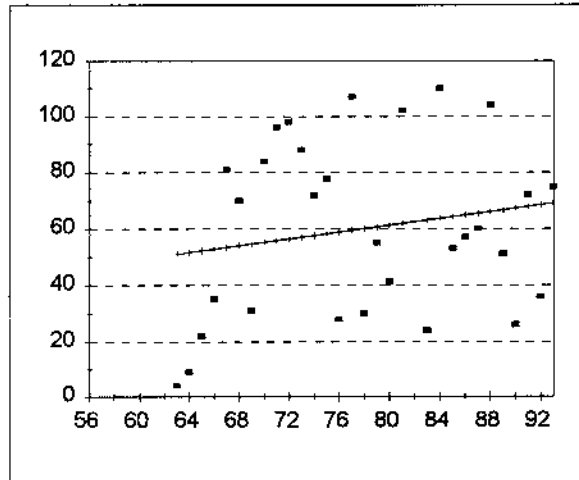
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	899.84	899.84	0.93	0.34
Residual	28.00	27111.13	968.25		
Total	29.00	28010.97			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	12.91	49.15	0.26	0.79	-87.77	113.58
x1	0.60	0.63	0.96	0.34	-0.68	1.89

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	50.98	-46.98	-1.51	1.67	4
2	51.59	-42.59	-1.37	5.00	9
3	52.19	-30.19	-0.97	8.33	22
4	63.07	-39.07	-1.26	11.67	24
5	67.30	-41.30	-1.33	15.00	26
6	58.84	-30.84	-0.99	18.33	28
7	60.05	-30.05	-0.97	21.67	30
8	54.61	-23.61	-0.76	25.00	31
9	52.79	-17.79	-0.57	28.33	35
10	68.51	-32.51	-1.04	31.67	36
11	61.26	-20.26	-0.65	35.00	41
12	66.70	-15.70	-0.50	38.33	51
13	64.28	-11.28	-0.36	41.67	53
14	60.65	-5.65	-0.18	45.00	55
15	64.88	-7.88	-0.25	48.33	57
16	65.49	-5.49	-0.18	51.67	60
17	54.00	16.00	0.51	55.00	70
18	57.63	14.37	0.46	58.33	72
19	67.90	4.10	0.13	61.67	72
20	69.11	5.89	0.19	65.00	75
21	58.23	19.77	0.64	68.33	78
22	53.40	27.60	0.89	71.67	81
23	55.21	28.79	0.93	75.00	84
24	57.03	30.97	1.00	78.33	88
25	55.82	40.18	1.29	81.67	96
26	56.42	41.58	1.34	85.00	98
27	61.86	40.14	1.29	88.33	102
28	66.09	37.91	1.22	91.67	104
29	59.44	47.56	1.53	95.00	107
30	63.67	46.33	1.49	98.33	110

Great Egret

TCWS

Trend Slope as % of Avg =   -2.77%
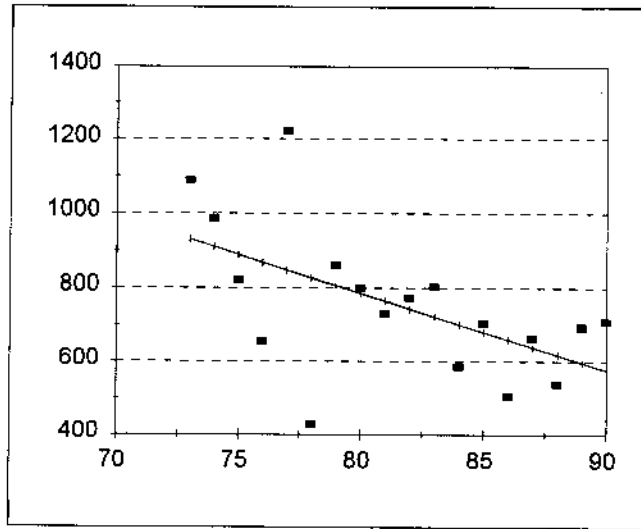
Regression Statistics

Multiple R	0.56
R Square	0.31
Adjusted R Square	0.27
Standard Error	170.16
Observations	18.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	211089.31	211089.31	7.29	0.02
Residual	16.00	463283.14	28955.20		
Total	17.00	674372.44			

	Coefficients	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	2454.60	631.32	3.89	0.00	1116.25	3792.95
x1	-20.87	7.73	-2.70	0.02	-37.26	-4.48

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	826.50	-398.50	-2.34		2.78	428
2	659.52	-154.52	-0.91		8.33	505
3	617.77	-78.77	-0.46		13.89	539
4	701.26	-115.26	-0.68		19.44	586
5	868.25	-214.25	-1.26		25.00	654
6	638.64	24.36	0.14		30.56	663
7	596.90	97.10	0.57		36.11	694
8	680.39	24.61	0.14		41.67	705
9	576.02	131.98	0.78		47.22	708
10	763.88	-34.88	-0.20		52.78	729
11	743.01	28.99	0.17		58.33	772
12	784.75	14.25	0.08		63.89	799
13	722.13	80.87	0.48		69.44	803
14	889.12	-68.12	-0.40		75.00	821
15	805.63	55.37	0.33		80.56	861
16	909.99	75.01	0.44		86.11	985
17	930.87	157.13	0.92		91.67	1088
18	847.37	374.63	2.20		97.22	1222

Snowy Egret

ANWR+CCW

2 outliers removed

Trend Slope as % of Avg =   0.63%
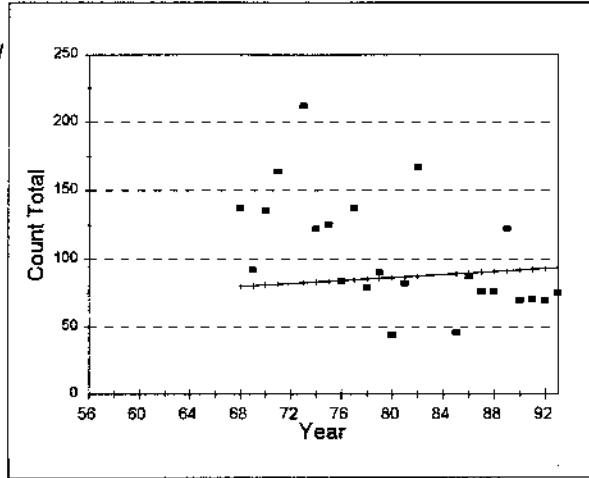
Regression Statistics

Multiple R	0.10
R Square	0.01
Adjusted R Square	-0.03
Standard Error	51.58
Observations	29.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	702.91	702.91	0.26	0.61
Residual	27.00	71847.30	2661.01		
Total	28.00	72550.21			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	43.17	82.55	0.52	0.61	-126.22	212.55
x1	0.54	1.05	0.51	0.61	-1.62	2.70

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	78.83	-70.83	-1.37	1.72	8
2	77.21	-66.21	-1.28	5.17	11
3	79.37	-61.37	-1.19	8.62	18
4	77.75	-59.75	-1.16	12.07	18
5	78.29	-57.29	-1.11	15.52	21
6	88.01	-53.01	-1.03	18.97	35
7	86.39	-42.39	-0.82	22.41	44
8	89.09	-43.09	-0.84	25.86	46
9	91.79	-21.79	-0.42	29.31	70
10	92.87	-22.87	-0.44	32.76	70
11	92.33	-21.33	-0.41	36.21	71
12	93.41	-18.41	-0.36	39.66	75
13	90.17	-14.17	-0.27	43.10	76
14	90.71	-14.71	-0.29	46.55	76
15	85.31	-6.31	-0.12	50.00	79
16	86.93	-4.93	-0.10	53.45	82
17	84.23	-0.23	-0.00	56.90	84
18	89.63	-2.63	-0.05	60.34	87
19	85.85	4.15	0.08	63.79	90
20	80.45	11.55	0.22	67.24	92
21	83.15	38.85	0.75	70.69	122
22	91.25	30.75	0.60	74.14	122
23	83.69	41.31	0.80	77.59	125
24	80.99	54.01	1.05	81.03	135
25	84.77	52.23	1.01	84.48	137
26	79.91	57.09	1.11	87.93	137
27	81.53	82.47	1.60	91.38	164
28	87.47	79.53	1.54	94.83	167
29	82.61	129.39	2.51	98.28	212

Snowy Egret

ANWR

Trend Slope as % of Avg =   3.09%
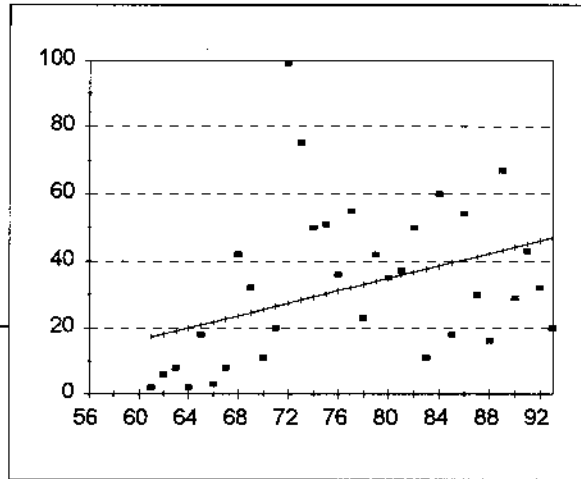
Regression Statistics

Multiple R	0.43
R Square	0.19
Adjusted R Square	0.17
Standard Error	21.30
Observations	37

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	3691.36	3691.36	8.14	0.01
Residual	35.00	15875.66	453.59		
Total	36.00	19567.03			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-39.67	24.73	-1.60	0.12	-89.87	10.53
x1	0.93	0.33	2.85	0.01	0.27	1.59

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	12.49	-5.49	-0.26	1.35	1
2	14.35	-11.35	-0.53	4.05	2
3	15.28	4.72	0.22	6.76	2
4	16.22	-15.22	-0.71	9.46	3
5	17.15	-15.15	-0.71	12.16	3
6	18.08	-12.08	-0.57	14.86	6
7	19.01	-11.01	-0.52	17.57	7
8	19.94	-17.94	-0.84	20.27	8
9	20.87	-2.87	-0.13	22.97	8
10	21.80	-18.80	-0.88	25.68	11
11	22.74	-14.74	-0.69	28.38	11
12	23.67	18.33	0.86	31.08	16
13	24.60	7.40	0.35	33.78	18
14	25.53	-14.53	-0.68	36.49	18
15	26.46	-6.46	-0.30	39.19	20
16	27.39	71.61	3.36	41.89	20
17	28.32	46.68	2.19	44.59	20
18	29.26	20.74	0.97	47.30	23
19	30.19	20.81	0.98	50.00	29
20	31.12	4.88	0.23	52.70	30
21	32.05	22.95	1.08	55.41	32
22	32.98	-9.98	-0.47	58.11	32
23	33.91	8.09	0.38	60.81	35
24	34.84	0.16	0.01	63.51	36
25	35.78	1.22	0.06	66.22	37
26	36.71	13.29	0.62	68.92	42
27	37.64	-26.64	-1.25	71.62	42
28	38.57	21.43	1.01	74.32	43
29	39.50	-21.50	-1.01	77.03	50
30	40.43	13.57	0.64	79.73	50
31	41.36	-11.36	-0.53	82.43	51
32	42.30	-26.30	-1.23	85.14	54
33	43.23	23.77	1.12	87.84	55
34	44.16	-15.16	-0.71	90.54	60
35	45.09	-2.09	-0.10	93.24	67
36	46.02	-14.02	-0.66	95.95	75
37	46.95	-26.95	-1.27	98.65	99

Snowy Egret

Data Corrected:
Count/(Party Hours^B)
where B = .56

CCW

2 outliers removed

Trend Slope as % of Avg =   -1.45%

Regression Statistics

Multiple R	0.16
R Square	0.03
Adjusted R Square	-0.01
Standard Error	4.22
Observations	29.00
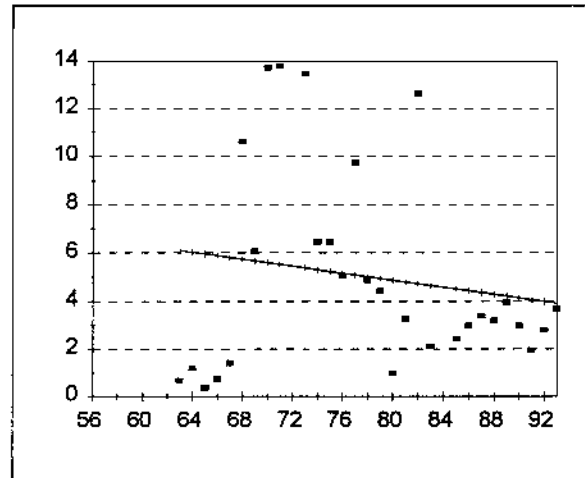
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	12.79	12.79	0.72	0.40
Residual	27.00	479.99	17.78		
Total	28.00	492.78			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	10.70	6.75	1.59	0.12	-3.15	24.54
x1	-0.07	0.09	-0.85	0.40	-0.25	0.10

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	5.96	-5.58	-1.32	1.72	0
2	6.11	-5.42	-1.29	5.17	1
3	5.89	-5.14	-1.22	8.62	1
4	4.87	-3.89	-0.92	12.07	1
5	6.03	-4.85	-1.15	15.52	1
6	5.81	-4.40	-1.04	18.97	1
7	4.07	-2.11	-0.50	22.41	2
8	4.65	-2.54	-0.60	25.86	2
9	4.50	-2.06	-0.49	29.31	2
10	3.99	-1.19	-0.28	32.76	3
11	4.43	-1.44	-0.34	36.21	3
12	4.14	-1.14	-0.27	39.66	3
13	4.28	-1.08	-0.26	43.10	3
14	4.79	-1.52	-0.36	46.55	3
15	4.36	-0.96	-0.23	50.00	3
16	3.92	-0.22	-0.05	53.45	4
17	4.21	-0.28	-0.07	56.90	4
18	4.94	-0.53	-0.13	60.34	4
19	5.01	-0.17	-0.04	63.79	5
20	5.16	-0.12	-0.03	67.24	5
21	5.67	0.39	0.09	70.69	6
22	5.23	1.22	0.29	74.14	6
23	5.30	1.16	0.28	77.59	6
24	5.09	4.64	1.10	81.03	10
25	5.74	4.88	1.16	84.48	11
26	4.72	7.89	1.87	87.93	13
27	5.38	8.08	1.92	91.38	13
28	5.60	8.12	1.93	94.83	14
29	5.52	8.26	1.96	98.28	14

Snowy Egret

Trend Slope as % of Avg =   -8.72%
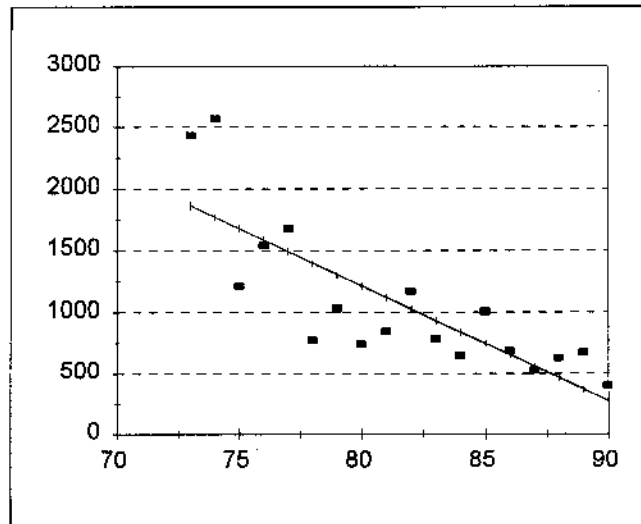
Regression Statistics

Multiple R	0.81
R Square	0.65
Adjusted R Square	0.63
Standard Error	375.26
Observations	18.00

TCWS

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	4235573.38	4235573.38	30.08	0.00
Residual	16.00	2253165.57	140822.85		
Total	17.00	6488738.94			

	Coefficients	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	8692.15	1392.28	6.24	0.00	5740.66	11643.65
x1	-93.50	17.05	-5.48	0.00	-129.64	-57.36

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	277.20	123.80	0.33	2.78	401
2	557.70	-35.70	-0.10	8.33	522
3	464.20	158.80	0.42	13.89	623
4	838.20	-196.20	-0.52	19.44	642
5	370.70	299.30	0.80	25.00	670
6	651.20	29.80	0.08	30.56	681
7	1212.19	-474.19	-1.26	36.11	738
8	1399.19	-629.19	-1.68	41.67	770
9	931.70	-151.70	-0.40	47.22	780
10	1118.69	-276.69	-0.74	52.78	842
11	744.70	260.30	0.69	58.33	1005
12	1305.69	-277.69	-0.74	63.89	1028
13	1025.19	139.81	0.37	69.44	1165
14	1679.69	-468.69	-1.25	75.00	1211
15	1586.19	-42.19	-0.11	80.56	1544
16	1492.69	187.31	0.50	86.11	1680
17	1866.69	563.31	1.50	91.67	2430
18	1773.19	789.81	2.10	97.22	2563

Little Blue Heron

ANWR+CCW

Trend Slope as % of Avg =   4.90%
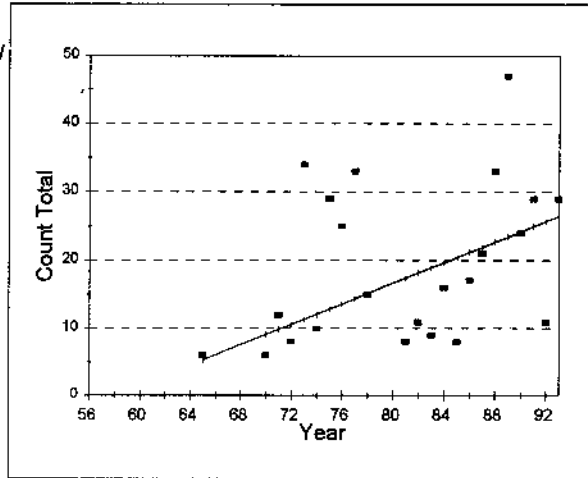
Regression Statistics

Multiple R	0.56
R Square	0.31
Adjusted R Square	0.29
Standard Error	10.24
Observations	30.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	1340.28	1340.28	12.78	0.00
Residual	28.00	2936.92	104.89		
Total	29.00	4277.20			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-43.72	16.64	-2.63	0.01	-77.81	-9.63
x1	0.75	0.21	3.57	0.00	0.32	1.19

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	6.07	-5.07	-0.50	1.67	1
2	3.81	-2.81	-0.27	5.00	1
3	4.56	-2.56	-0.25	8.33	2
4	7.58	-4.58	-0.45	11.67	3
5	16.63	-12.63	-1.23	15.00	4
6	8.33	-4.33	-0.42	18.33	4
7	15.88	-9.88	-0.96	21.67	6
8	5.32	0.68	0.07	25.00	6
9	9.09	-3.09	-0.30	28.33	6
10	20.40	-12.40	-1.21	31.67	8
11	17.39	-9.39	-0.92	35.00	8
12	10.60	-2.60	-0.25	38.33	8
13	18.90	-9.90	-0.97	41.67	9
14	12.11	-2.11	-0.21	45.00	10
15	25.69	-14.69	-1.43	48.33	11
16	18.14	-7.14	-0.70	51.67	11
17	9.84	2.16	0.21	55.00	12
18	15.12	-0.12	-0.01	58.33	15
19	19.65	-3.65	-0.36	61.67	16
20	21.16	-4.16	-0.41	65.00	17
21	21.91	-0.91	-0.09	68.33	21
22	24.18	-0.18	-0.02	71.67	24
23	13.61	11.39	1.11	75.00	25
24	26.44	2.56	0.25	78.33	29
25	12.86	16.14	1.58	81.67	29
26	24.93	4.07	0.40	85.00	29
27	14.37	18.63	1.82	88.33	33
28	22.67	10.33	1.01	91.67	33
29	11.35	22.65	2.21	95.00	34
30	23.42	23.58	2.30	98.33	47

Little Blue Heron

ANWR

Trend Slope as % of Avg =   5.27%
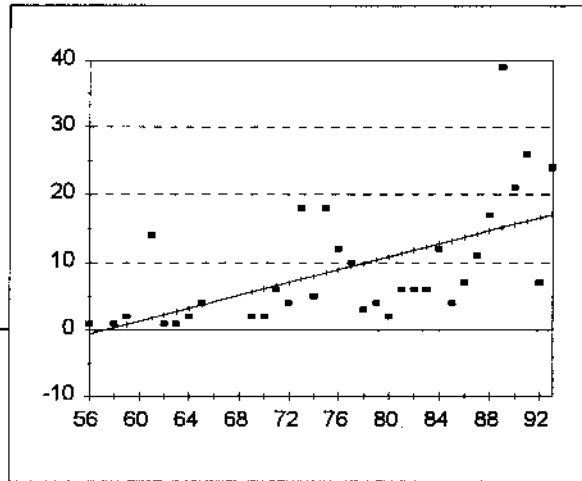
Regression Statistics

Multiple R	0.58
R Square	0.34
Adjusted R Square	0.32
Standard Error	7.34
Observations	33

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	859.94	859.94	15.97	0.00
Residual	31.00	1669.03	53.84		
Total	32.00	2528.97			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-27.23	9.16	-2.97	0.01	-45.92	-8.54
x1	0.48	0.12	4.00	0.00	0.23	0.72

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	-0.57	1.57	0.21	1.52	1
2	0.39	0.61	0.08	4.55	1
3	0.86	1.14	0.15	7.58	1
4	1.82	12.18	1.66	10.61	1
5	2.29	-1.29	-0.18	13.64	2
6	2.77	-1.77	-0.24	16.67	2
7	3.24	-1.24	-0.17	19.70	2
8	3.72	0.28	0.04	22.73	2
9	5.62	-3.62	-0.49	25.76	2
10	6.10	-4.10	-0.56	28.79	3
11	6.58	-0.58	-0.08	31.82	4
12	7.05	-3.05	-0.42	34.85	4
13	7.53	10.47	1.43	37.88	4
14	8.01	-3.01	-0.41	40.91	4
15	8.48	9.52	1.30	43.94	5
16	8.96	3.04	0.41	46.97	6
17	9.43	0.57	0.08	50.00	6
18	9.91	-6.91	-0.94	53.03	6
19	10.39	-6.39	-0.87	56.06	6
20	10.86	-8.86	-1.21	59.09	7
21	11.34	-5.34	-0.73	62.12	7
22	11.82	-5.82	-0.79	65.15	10
23	12.29	-6.29	-0.86	68.18	11
24	12.77	-0.77	-0.10	71.21	12
25	13.24	-9.24	-1.26	74.24	12
26	13.72	-6.72	-0.92	77.27	14
27	14.20	-3.20	-0.44	80.30	17
28	14.67	2.33	0.32	83.33	18
29	15.15	23.85	3.25	86.36	18
30	15.62	5.38	0.73	89.39	21
31	16.10	9.90	1.35	92.42	24
32	16.58	-9.58	-1.31	95.45	26
33	17.05	6.95	0.95	98.48	39

Little Blue Heron

1 outlier removed

Trend Slope as % of Avg =   1.23%

Regression Statistics

Multiple R	0.14
R Square	0.02
Adjusted R Square	-0.02
Standard Error	4.47
Observations	27.00

CCW
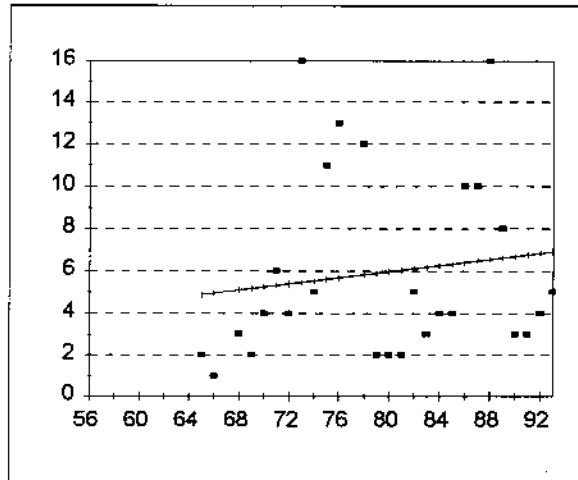
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	10.02	10.02	0.50	0.49
Residual	25.00	499.83	19.99		
Total	26.00	509.85			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	0.11	8.26	0.01	0.99	-16.89	17.12
x1	0.07	0.10	0.71	0.49	-0.14	0.29

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	4.94	-3.94	-0.88	1.85	1
2	4.86	-2.86	-0.64	5.56	2
3	5.16	-3.16	-0.71	9.26	2
4	6.03	-4.03	-0.90	12.96	2
5	5.96	-3.96	-0.89	16.67	2
6	5.89	-3.89	-0.87	20.37	2
7	6.18	-3.18	-0.71	24.07	3
8	5.08	-2.08	-0.47	27.78	3
9	6.69	-3.69	-0.83	31.48	3
10	6.77	-3.77	-0.84	35.19	3
11	5.38	-1.38	-0.31	38.89	4
12	6.33	-2.33	-0.52	42.59	4
13	6.84	-2.84	-0.63	46.30	4
14	6.25	-2.25	-0.50	50.00	4
15	5.23	-1.23	-0.28	53.70	4
16	5.52	-0.52	-0.12	57.41	5
17	6.11	-1.11	-0.25	61.11	5
18	6.91	-1.91	-0.43	64.81	5
19	5.30	0.70	0.16	68.52	6
20	6.62	1.38	0.31	72.22	8
21	6.40	3.60	0.81	75.93	10
22	6.47	3.53	0.79	79.63	10
23	5.60	5.40	1.21	83.33	11
24	5.81	6.19	1.38	87.04	12
25	5.67	7.33	1.64	90.74	13
26	6.55	9.45	2.11	94.44	16
27	5.45	10.55	2.36	98.15	16

Little Blue Heron

Trend Slope as % of Avg =   0.68%

TCWS
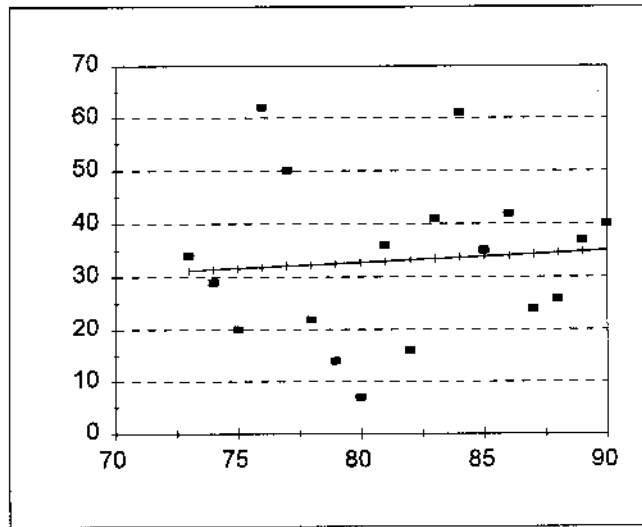
Regression Statistics

Multiple R	0.08
R Square	0.01
Adjusted R Square	-0.06
Standard Error	15.56
Observations	18.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	24.52	24.52	0.10	0.75
Residual	16.00	3875.26	242.20		
Total	17.00	3899.78			

	Coefficients	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	14.78	57.74	0.26	0.80	-107.63	137.18
x1	0.22	0.71	0.32	0.75	-1.27	1.72

| Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	32.77	-25.77	-1.66		2.78	7
2	32.55	-18.55	-1.19		8.33	14
3	33.22	-17.22	-1.11		13.89	16
4	31.65	-11.65	-0.75		19.44	20
5	32.32	-10.32	-0.66		25.00	22
6	34.35	-10.35	-0.66		30.56	24
7	34.57	-8.57	-0.55		36.11	26
8	31.42	-2.42	-0.16		41.67	29
9	31.20	2.80	0.18		47.22	34
10	33.90	1.10	0.07		52.78	35
11	33.00	3.00	0.19		58.33	36
12	34.80	2.20	0.14		63.89	37
13	35.02	4.98	0.32		69.44	40
14	33.45	7.55	0.49		75.00	41
15	34.12	7.88	0.51		80.56	42
16	32.10	17.90	1.15		86.11	50
17	33.67	27.33	1.76		91.67	61
18	31.87	30.13	1.94		97.22	62

Tricolored Heron

Data Corrected: ANWR+CCW
Count/(Party Hours)^B
where B = .50

2 outliers removed

Trend Slope as % of Avg =   -0.85%
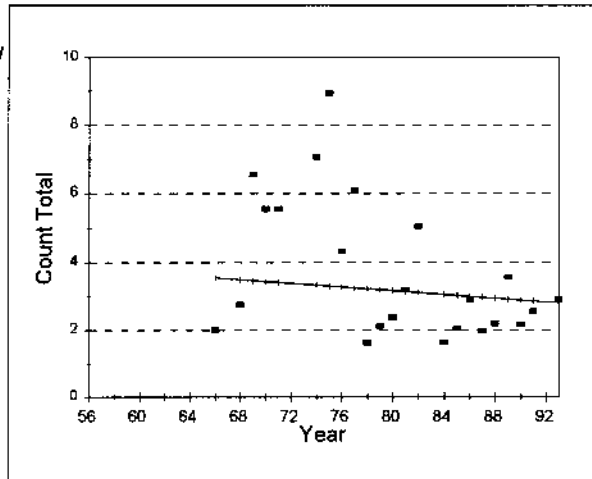
Regression Statistics

Multiple R	0.12
R Square	0.02
Adjusted R Square	-0.02
Standard Error	2.08
Observations	29.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	1.79	1.79	0.41	0.53
Residual	27.00	117.09	4.34		
Total	28.00	118.88			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	5.35	3.34	1.60	0.12	-1.51	12.21
x1	-0.03	0.04	-0.64	0.53	-0.11	0.06

| Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	3.58	-2.69	-1.29	1.72	1
2	3.61	-2.50	-1.20	5.17	1
3	3.63	-2.28	-1.10	8.62	1
4	3.52	-2.13	-1.02	12.07	1
5	2.84	-1.32	-0.63	15.52	2
6	3.09	-1.52	-0.73	18.97	2
7	3.23	-1.59	-0.77	22.41	2
8	3.06	-1.42	-0.68	25.86	2
9	2.98	-1.00	-0.48	29.31	2
10	3.55	-1.53	-0.73	32.76	2
11	3.03	-0.96	-0.46	36.21	2
12	3.20	-1.06	-0.51	39.66	2
13	2.90	-0.71	-0.34	43.10	2
14	2.95	-0.74	-0.36	46.55	2
15	3.17	-0.76	-0.37	50.00	2
16	2.87	-0.30	-0.14	53.45	3
17	3.50	-0.73	-0.35	56.90	3
18	3.01	-0.10	-0.05	60.34	3
19	2.82	0.11	0.05	63.79	3
20	3.14	0.05	0.03	67.24	3
21	2.93	0.65	0.31	70.69	4
22	3.28	1.05	0.50	74.14	4
23	3.12	1.94	0.93	77.59	5
24	3.44	2.11	1.01	81.03	6
25	3.42	2.14	1.03	84.48	6
26	3.25	2.83	1.36	87.93	6
27	3.47	3.09	1.48	91.38	7
28	3.33	3.74	1.80	94.83	7
29	3.31	5.63	2.70	98.28	9

Tricolored Heron

Data Corrected: ANWR
Count/(Party Hours^B)
where B = .84

   2 outliers removed

Trend Slope as % of Avg =   1.42%
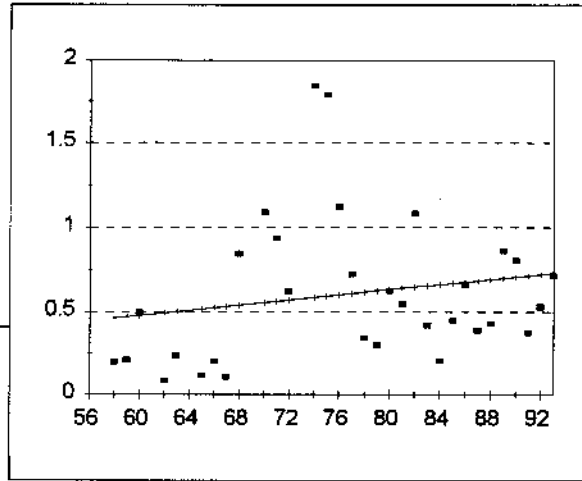
Regression Statistics

Multiple R	0.18
R Square	0.03
Adjusted R Square	0.00
Standard Error	0.44
Observations	32

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	0.20	0.20	1.06	0.31
Residual	30.00	5.70	0.19		
Total	31.00	5.90			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	0.02	0.57	0.03	0.97	-1.15	1.19
x1	0.01	0.01	1.03	0.31	-0.01	0.02

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	0.46	-0.27	-0.61	1.56	0
2	0.47	-0.26	-0.60	4.69	0
3	0.48	0.02	0.05	7.81	0
4	0.49	-0.41	-0.94	10.94	0
5	0.50	-0.27	-0.61	14.06	0
6	0.52	-0.40	-0.91	17.19	0
7	0.52	-0.32	-0.74	20.31	0
8	0.53	-0.43	-0.98	23.44	0
9	0.54	0.30	0.70	26.56	0
10	0.55	0.54	1.23	29.69	0
11	0.56	0.38	0.86	32.81	0
12	0.57	0.05	0.12	35.94	0
13	0.58	1.26	2.89	39.06	0
14	0.59	1.20	2.75	42.19	0
15	0.60	0.52	1.20	45.31	0
16	0.61	0.12	0.27	48.44	0
17	0.61	-0.27	-0.63	51.56	1
18	0.62	-0.33	-0.75	54.69	1
19	0.63	-0.01	-0.02	57.81	1
20	0.64	-0.09	-0.21	60.94	1
21	0.64	0.44	1.01	64.06	1
22	0.65	-0.24	-0.54	67.19	1
23	0.66	-0.46	-1.05	70.31	1
24	0.67	-0.22	-0.51	73.44	1
25	0.68	-0.01	-0.03	76.56	1
26	0.68	-0.30	-0.68	79.69	1
27	0.69	-0.26	-0.61	82.81	1
28	0.70	0.16	0.38	85.94	1
29	0.71	0.10	0.23	89.06	1
30	0.71	-0.34	-0.78	92.19	1
31	0.72	-0.19	-0.44	95.31	2
32	0.73	-0.02	-0.04	98.44	2

Tricolored Heron

1 outlier removed

Trend Slope as % of Avg =   -0.93%

Regression Statistics

Multiple R	0.13
R Square	0.02
Adjusted R Square	-0.02
Standard Error	11.30
Observations	30.00

CCW
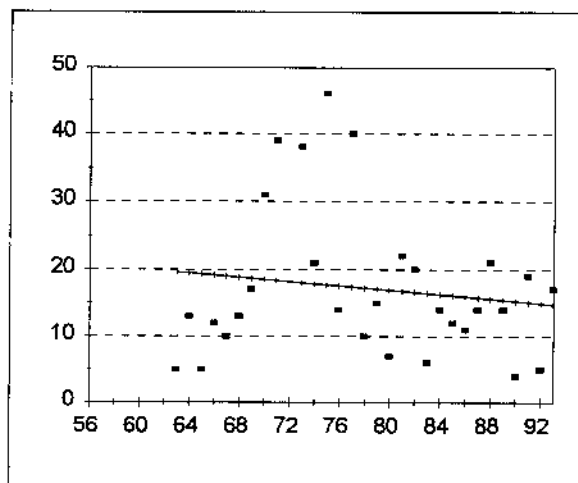
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	62.90	62.90	0.49	0.49
Residual	28.00	3575.26	127.69		
Total	29.00	3638.17			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	29.72	18.00	1.65	0.11	-7.15	66.58
x1	-0.16	0.23	-0.70	0.49	-0.63	0.31

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	15.27	-11.27	-1.00	1.67	4
2	14.95	-9.95	-0.88	5.00	5
3	19.61	-14.61	-1.29	8.33	5
4	19.28	-14.28	-1.26	11.67	5
5	16.40	-10.40	-0.92	15.00	6
6	16.88	-9.88	-0.87	18.33	7
7	18.96	-8.96	-0.79	21.67	10
8	17.20	-7.20	-0.64	25.00	10
9	15.91	-4.91	-0.43	28.33	11
10	16.08	-4.08	-0.36	31.67	12
11	19.12	-7.12	-0.63	35.00	12
12	18.80	-5.80	-0.51	38.33	13
13	19.45	-6.45	-0.57	41.67	13
14	17.52	-3.52	-0.31	45.00	14
15	15.43	-1.43	-0.13	48.33	14
16	15.75	-1.75	-0.16	51.67	14
17	16.24	-2.24	-0.20	55.00	14
18	17.04	-2.04	-0.18	58.33	15
19	18.64	-1.64	-0.15	61.67	17
20	14.79	2.21	0.20	65.00	17
21	15.11	3.89	0.34	68.33	19
22	16.56	3.44	0.30	71.67	20
23	17.84	3.16	0.28	75.00	21
24	15.59	5.41	0.48	78.33	21
25	16.72	5.28	0.47	81.67	22
26	18.48	12.52	1.11	85.00	31
27	18.00	20.00	1.77	88.33	38
28	18.32	20.68	1.83	91.67	39
29	17.36	22.64	2.00	95.00	40
30	17.68	28.32	2.51	98.33	46

Tricolored Heron

TCWS

Trend Slope as % of Avg = -2.06%

Regression Statistics

Multiple R	0.48
R Square	0.23
Adjusted R Square	0.18
Standard Error	412.22
Observations	18.00
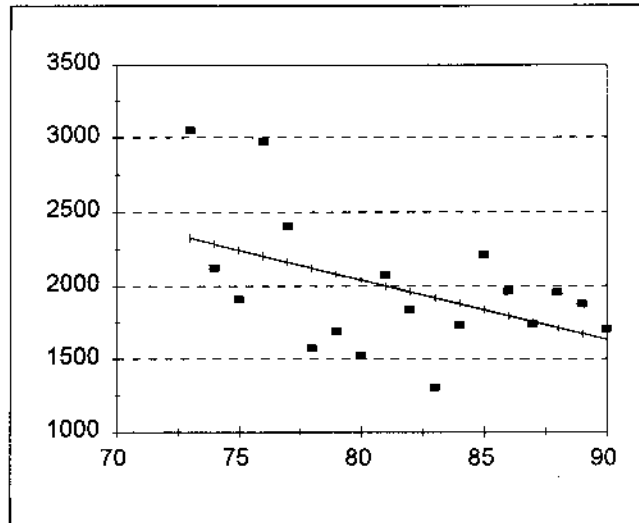
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	803330.68	803330.68	4.73	0.05
Residual	16.00	2718844.94	169927.81		
Total	17.00	3522175.61			

	Coefficients	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	5298.90	1529.40	3.46	0.00	2056.72	8541.08
x1	-40.72	18.73	-2.17	0.04	-80.42	-1.02

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	1919.20	-612.20	-1.49		2.78	1307
2	2041.36	-521.36	-1.26		8.33	1520
3	2122.80	-550.80	-1.34		13.89	1572
4	2082.08	-393.08	-0.95		19.44	1689
5	1634.16	73.84	0.18		25.00	1708
6	1878.48	-143.48	-0.35		30.56	1735
7	1756.32	-14.32	-0.03		36.11	1742
8	1959.92	-118.92	-0.29		41.67	1841
9	1674.88	201.12	0.49		47.22	1876
10	2244.95	-335.95	-0.81		52.78	1909
11	1715.60	241.40	0.59		58.33	1957
12	1797.04	165.96	0.40		63.89	1963
13	2000.64	72.36	0.18		69.44	2073
14	2285.67	-165.67	-0.40		75.00	2120
15	1837.76	373.24	0.91		80.56	2211
16	2163.51	242.49	0.59		86.11	2406
17	2204.23	763.77	1.85		91.67	2968
18	2326.39	721.61	1.75		97.22	3048

Reddish Egret

ANWR+CCW

3 outliers removed

Trend Slope as % of Avg = 3.44%
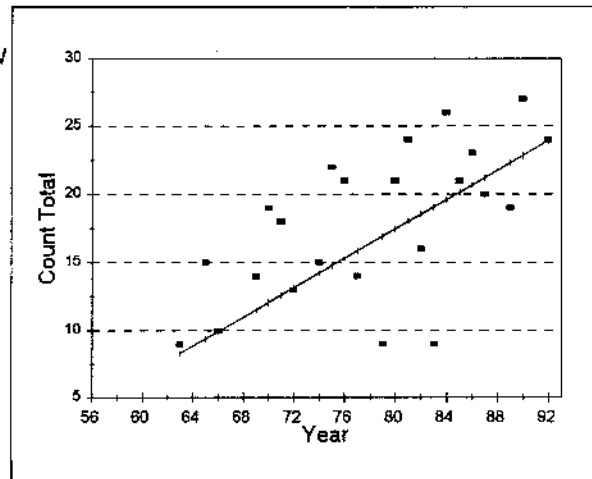
Regression Statistics

Multiple R	0.66
R Square	0.44
Adjusted R Square	0.42
Standard Error	5.26
Observations	28.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	559.59	559.59	20.24	0.00
Residual	26.00	718.84	27.65		
Total	27.00	1278.43			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-25.58	9.22	-2.78	0.01	-44.52	-6.63
x1	0.54	0.12	4.50	0.00	0.29	0.78

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	8.84	-5.84	-1.11	1.79	3
2	10.99	-4.99	-0.95	5.36	6
3	10.46	-4.46	-0.85	8.93	6
4	16.37	-10.37	-1.97	12.50	6
5	13.68	-5.68	-1.08	16.07	8
6	16.91	-7.91	-1.50	19.64	9
7	8.31	0.69	0.13	23.21	9
8	19.06	-10.06	-1.91	26.79	9
9	9.92	0.08	0.02	30.36	10
10	13.15	-0.15	-0.03	33.93	13
11	11.53	2.47	0.47	37.50	14
12	15.83	-1.83	-0.35	41.07	14
13	14.22	0.78	0.15	44.64	15
14	9.38	5.62	1.07	48.21	15
15	18.52	-2.52	-0.48	51.79	16
16	12.61	5.39	1.03	55.36	18
17	12.07	6.93	1.32	58.93	19
18	22.29	-3.29	-0.63	62.50	19
19	21.21	-1.21	-0.23	66.07	20
20	20.14	0.86	0.16	69.64	21
21	17.45	3.55	0.68	73.21	21
22	15.30	5.70	1.08	76.79	21
23	14.76	7.24	1.38	80.36	22
24	20.68	2.32	0.44	83.93	23
25	23.90	0.10	0.02	87.50	24
26	17.99	6.01	1.14	91.07	24
27	19.60	6.40	1.22	94.64	26
28	22.83	4.17	0.79	98.21	27

Reddish Egret

Data Corrected: ANWR
Count/(Party Hours^B)
where B = .82

Trend Slope as % of Avg =   2.90%
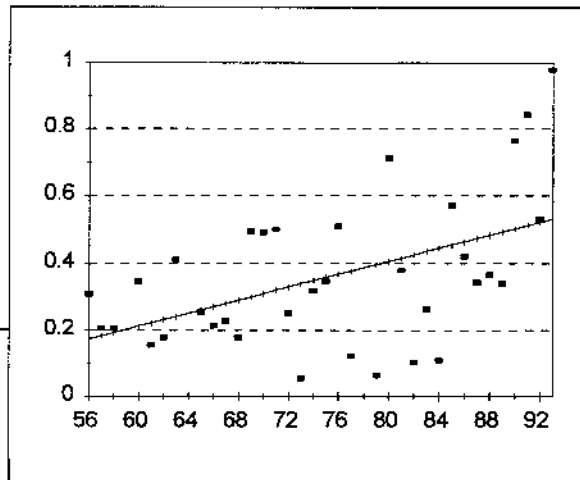
Regression Statistics

Multiple R	0.49
R Square	0.24
Adjusted R Square	0.21
Standard Error	0.20
Observations	35

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	0.39	0.39	10.21	0.00
Residual	33.00	1.26	0.04		
Total	34.00	1.65			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-0.37	0.23	-1.60	0.12	-0.83	0.10
x1	0.01	0.00	3.20	0.00	0.00	0.02

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	0.17	0.13	0.69	1.43	0
2	0.18	0.02	0.11	4.29	0
3	0.19	0.01	0.06	7.14	0
4	0.21	0.13	0.68	10.00	0
5	0.22	-0.07	-0.35	12.86	0
6	0.23	-0.05	-0.27	15.71	0
7	0.24	0.17	0.87	18.57	0
8	0.26	-0.00	-0.02	21.43	0
9	0.27	-0.06	-0.29	24.29	0
10	0.28	-0.05	-0.27	27.14	0
11	0.29	-0.11	-0.57	30.00	0
12	0.30	0.19	1.00	32.86	0
13	0.31	0.18	0.93	35.71	0
14	0.32	0.18	0.93	38.57	0
15	0.33	-0.08	-0.40	41.43	0
16	0.34	-0.28	-1.45	44.29	0
17	0.35	-0.03	-0.15	47.14	0
18	0.36	-0.01	-0.06	50.00	0
19	0.37	0.14	0.73	52.86	0
20	0.38	-0.25	-1.30	55.71	0
21	0.40	-0.33	-1.70	58.57	0
22	0.41	0.30	1.56	61.43	0
23	0.42	-0.04	-0.18	64.29	0
24	0.42	-0.32	-1.64	67.14	0
25	0.43	-0.17	-0.87	70.00	0
26	0.44	-0.33	-1.71	72.86	0
27	0.45	0.12	0.60	75.71	0
28	0.46	-0.04	-0.22	78.57	0
29	0.47	-0.13	-0.67	81.43	1
30	0.48	-0.12	-0.61	84.29	1
31	0.49	-0.15	-0.78	87.14	1
32	0.50	0.26	1.33	90.00	1
33	0.51	0.33	1.69	92.86	1
34	0.52	0.01	0.04	95.71	1
35	0.53	0.45	2.28	98.57	1

Reddish Egret

3 outliers removed

Trend Slope as % of Avg =   2.05%

Regression Statistics

Multiple R	0.40
R Square	0.16
Adjusted R Square	0.13
Standard Error	3.23
Observations	27.00

CCW
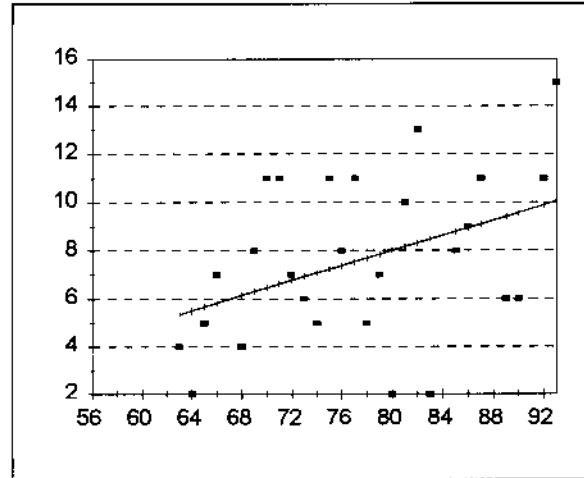
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	49.42	49.42	4.73	0.04
Residual	25.00	261.10	10.44		
Total	26.00	310.52			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-4.44	5.57	-0.80	0.43	-15.90	7.02
x1	0.16	0.07	2.18	0.04	0.01	0.30

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	8.01	-6.01	-1.86	1.85	2
2	8.47	-6.47	-2.00	5.56	2
3	5.52	-3.52	-1.09	9.26	2
4	6.14	-2.14	-0.66	12.96	4
5	5.36	-1.36	-0.42	16.67	4
6	7.07	-2.07	-0.64	20.37	5
7	7.70	-2.70	-0.83	24.07	5
8	5.67	-0.67	-0.21	27.78	5
9	6.92	-0.92	-0.28	31.48	6
10	9.41	-3.41	-1.05	35.19	6
11	9.56	-3.56	-1.10	38.89	6
12	7.85	-0.85	-0.26	42.59	7
13	5.83	1.17	0.36	46.30	7
14	6.76	0.24	0.07	50.00	7
15	7.39	0.61	0.19	53.70	8
16	6.30	1.70	0.53	57.41	8
17	8.79	-0.79	-0.24	61.11	8
18	8.94	0.06	0.02	64.81	9
19	8.16	1.84	0.57	68.52	10
20	9.87	1.13	0.35	72.22	11
21	6.45	4.55	1.41	75.93	11
22	7.23	3.77	1.17	79.63	11
23	9.10	1.90	0.59	83.33	11
24	6.61	4.39	1.36	87.04	11
25	7.54	3.46	1.07	90.74	11
26	8.32	4.68	1.45	94.44	13
27	10.03	4.97	1.54	98.15	15

Reddish Egret

TCWS

Trend Slope as % of Avg =   -3.34%
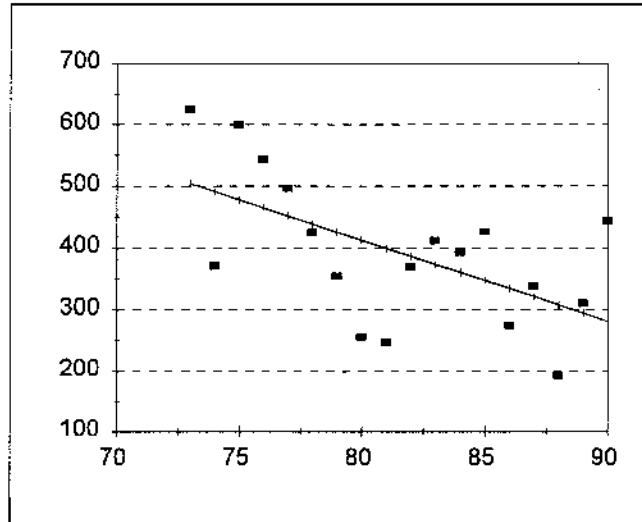
Regression Statistics

Multiple R	0.59
R Square	0.35
Adjusted R Square	0.31
Standard Error	99.27
Observations	18.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	83723.76	83723.76	8.50	0.01
Residual	16.00	157681.35	9855.08		
Total	17.00	241405.11			

	Coefficients	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	1464.58	368.31	3.98	0.00	683.79	2245.37
x1	-13.15	4.51	-2.91	0.01	-22.71	-3.58

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	307.78	-114.78	-1.16		2.78	193
2	399.79	-152.79	-1.54		8.33	247
3	412.94	-156.94	-1.58		13.89	256
4	334.07	-59.07	-0.60		19.44	275
5	294.63	15.37	0.15		25.00	310
6	320.92	17.08	0.17		30.56	338
7	426.09	-72.09	-0.73		36.11	354
8	386.65	-17.65	-0.18		41.67	369
9	491.81	-120.81	-1.22		47.22	371
10	360.36	32.64	0.33		52.78	393
11	373.50	38.50	0.39		58.33	412
12	439.23	-14.23	-0.14		63.89	425
13	347.21	78.79	0.79		69.44	426
14	281.49	162.51	1.64		75.00	444
15	452.38	44.62	0.45		80.56	497
16	465.52	78.48	0.79		86.11	544
17	478.67	121.33	1.22		91.67	600
18	504.96	119.04	1.20		97.22	624

Cattle Egret

2 outliers removed

Trend Slope as % of Avg =   3.95%

Regression Statistics

Multiple R	0.41
R Square	0.17
Adjusted R Square	0.14
Standard Error	70.32
Observations	25.00

ANWR+CCW
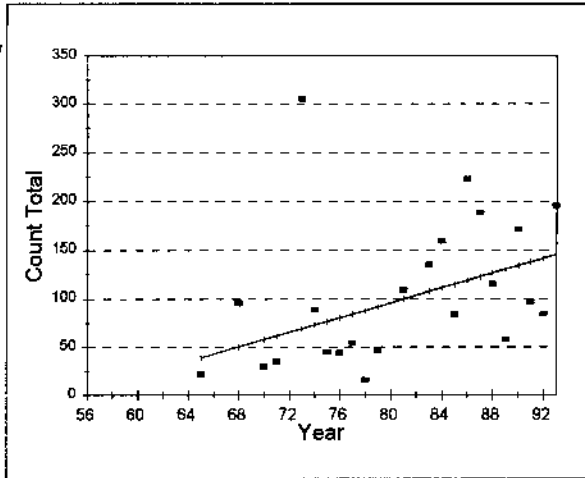
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	23596.16	23596.16	4.77	0.04
Residual	23.00	113720.08	4944.35		
Total	24.00	137316.24			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-208.90	140.52	-1.49	0.15	-499.58	81.77
x1	3.81	1.74	2.18	0.04	0.20	7.42

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	54.00	-53.00	-0.75	2.00	1
2	95.91	-85.91	-1.22	6.00	10
3	88.29	-72.29	-1.03	10.00	16
4	38.76	-16.76	-0.24	14.00	22
5	57.81	-27.81	-0.40	18.00	30
6	61.62	-26.62	-0.38	22.00	35
7	80.67	-36.67	-0.52	26.00	44
8	76.86	-31.86	-0.45	30.00	45
9	92.10	-45.10	-0.64	34.00	47
10	84.48	-30.48	-0.43	38.00	54
11	130.20	-72.20	-1.03	42.00	58
12	114.96	-30.96	-0.44	46.00	84
13	141.63	-56.63	-0.81	50.00	85
14	73.05	15.95	0.23	54.00	89
15	50.19	45.81	0.65	58.00	96
16	137.82	-40.82	-0.58	62.00	97
17	99.72	9.28	0.13	66.00	109
18	126.39	-11.39	-0.16	70.00	115
19	107.34	27.66	0.39	74.00	135
20	111.15	47.85	0.68	78.00	159
21	134.01	36.99	0.53	82.00	171
22	122.58	65.42	0.93	86.00	188
23	145.44	49.56	0.70	90.00	195
24	118.77	104.23	1.48	94.00	223
25	69.24	235.76	3.35	98.00	305

Cattle Egret

ANWR

1 outlier removed

Trend Slope as % of Avg = 0.47%

Regression Statistics

Multiple R	0.03
R Square	0.00
Adjusted R Square	-0.06
Standard Error	7.45
Observations	18
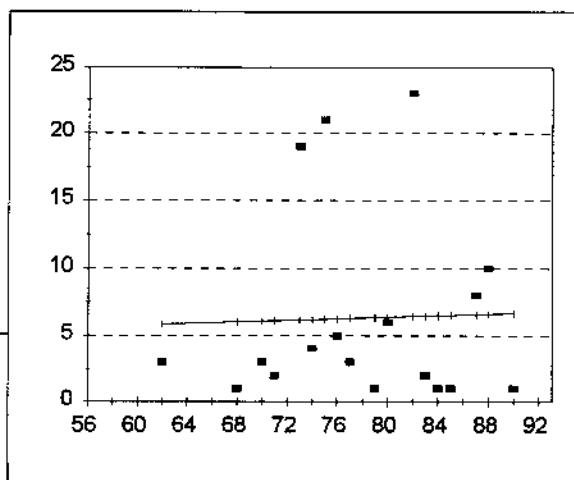
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	0.86	0.86	0.02	0.90
Residual	16.00	889.14	55.57		
Total	17.00	890.00			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	4.03	18.66	0.22	0.83	-35.53	43.58
x1	0.03	0.24	0.12	0.90	-0.48	0.53

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	5.86	-2.86	-0.38	2.78	1
2	6.04	-5.04	-0.68	8.33	1
3	6.10	-3.10	-0.42	13.89	1
4	6.13	-4.13	-0.55	19.44	1
5	6.19	12.81	1.72	25.00	1
6	6.21	-2.21	-0.30	30.56	2
7	6.24	14.76	1.98	36.11	2
8	6.27	-1.27	-0.17	41.67	3
9	6.30	-3.30	-0.44	47.22	3
10	6.36	-5.36	-0.72	52.78	3
11	6.39	-0.39	-0.05	58.33	4
12	6.45	16.55	2.22	63.89	5
13	6.48	-4.48	-0.60	69.44	6
14	6.51	-5.51	-0.74	75.00	8
15	6.54	-5.54	-0.74	80.56	10
16	6.60	1.40	0.19	86.11	19
17	6.63	3.37	0.45	91.67	21
18	6.69	-5.69	-0.76	97.22	23

Cattle Egret

2 outliers removed

Trend Slope as % of Avg =   4.23%

Regression Statistics

Multiple R	0.44
R Square	0.19
Adjusted R Square	0.15
Standard Error	68.37
Observations	25.00

CCW
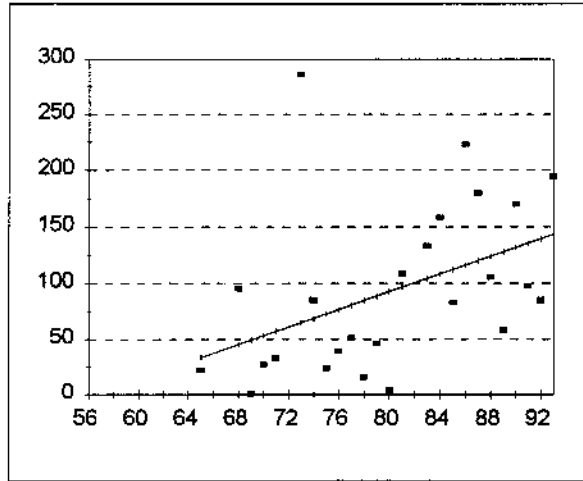
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	25184.82	25184.82	5.39	0.03
Residual	23.00	107525.18	4675.01		
Total	24.00	132710.00			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-222.54	136.63	-1.63	0.12	-505.19	60.11
x1	3.94	1.70	2.32	0.03	0.43	7.44

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	49.07	-48.07	-0.70	2.00	1
2	92.37	-88.37	-1.29	6.00	4
3	84.50	-68.50	-1.00	10.00	16
4	33.32	-11.32	-0.17	14.00	22
5	72.69	-48.69	-0.71	18.00	24
6	53.01	-26.01	-0.38	22.00	27
7	56.94	-23.94	-0.35	26.00	33
8	76.62	-37.62	-0.55	30.00	39
9	88.43	-42.43	-0.62	34.00	46
10	80.56	-29.56	-0.43	38.00	51
11	127.80	-69.80	-1.02	42.00	58
12	112.05	-29.05	-0.42	46.00	83
13	139.61	-54.61	-0.80	50.00	85
14	68.75	16.25	0.24	54.00	85
15	45.13	49.87	0.73	58.00	95
16	135.67	-38.67	-0.57	62.00	97
17	123.86	-18.86	-0.28	66.00	105
18	96.31	12.69	0.19	70.00	109
19	104.18	28.82	0.42	74.00	133
20	108.12	49.88	0.73	78.00	158
21	131.73	38.27	0.56	82.00	170
22	119.92	60.08	0.88	86.00	180
23	143.54	51.46	0.75	90.00	195
24	115.99	107.01	1.57	94.00	223
25	64.82	221.18	3.23	98.00	286

Cattle Egret

TCWS

Trend Slope as % of Avg =   -5.55%

Regression Statistics

Multiple R	0.54
R Square	0.29
Adjusted R Square	0.25
Standard Error	699.37
Observations	18.00
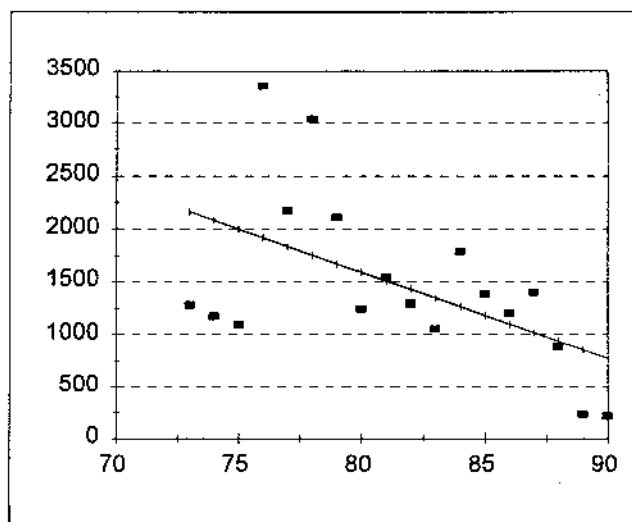
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	3229386.13	3229386.13	6.60	0.02
Residual	16.00	7825896.37	489118.52		
Total	17.00	11055282.50			

	Coefficients	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	8124.65	2594.75	3.13	0.01	2624.02	13625.28
x1	-81.64	31.77	-2.57	0.02	-149.00	-14.29

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	776.88	-561.88	-0.80		2.78	215
2	858.52	-626.52	-0.90		8.33	232
3	940.16	-52.16	-0.07		13.89	888
4	1348.37	-291.37	-0.42		19.44	1057
5	2001.51	-905.51	-1.29		25.00	1096
6	2083.15	-906.15	-1.30		30.56	1177
7	1103.44	99.56	0.14		36.11	1203
8	1593.30	-347.30	-0.50		41.67	1246
9	2164.79	-887.79	-1.27		47.22	1277
10	1430.01	-134.01	-0.19		52.78	1296
11	1185.09	197.91	0.28		58.33	1383
12	1021.80	382.20	0.55		63.89	1404
13	1511.65	30.35	0.04		69.44	1542
14	1266.73	520.27	0.74		75.00	1787
15	1674.94	436.06	0.62		80.56	2111
16	1838.22	332.78	0.48		86.11	2171
17	1756.58	1276.42	1.83		91.67	3033
18	1919.86	1437.14	2.05		97.22	3357

Green Heron

ANWR+CCW

1 outliers removed

Trend Slope as % of Avg =   0.80%
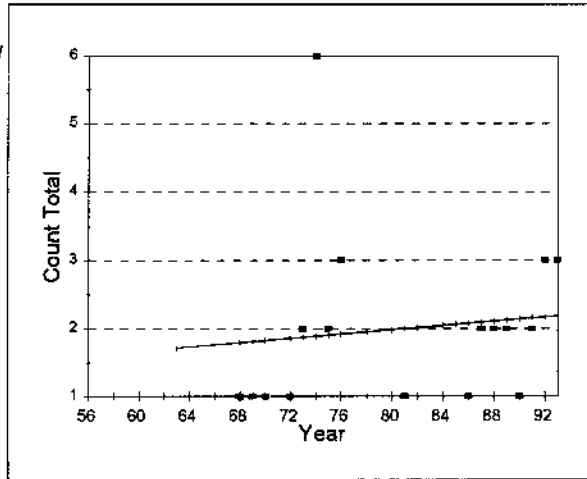
Regression Statistics

Multiple R	0.11
R Square	0.01
Adjusted R Square	-0.05
Standard Error	1.31
Observations	17.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	0.34	0.34	0.20	0.66
Residual	15.00	25.66	1.71		
Total	16.00	26.00			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	0.70	2.94	0.24	0.81	-5.56	6.97
x1	0.02	0.04	0.44	0.66	-0.06	0.09

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	2.15	-1.15	-0.88	2.94	1
2	1.83	-0.83	-0.63	8.82	1
3	1.81	-0.81	-0.62	14.71	1
4	1.79	-0.79	-0.61	20.59	1
5	2.00	-1.00	-0.77	26.47	1
6	1.86	-0.86	-0.66	32.35	1
7	2.08	-1.08	-0.83	38.24	1
8	1.91	0.09	0.07	44.12	2
9	1.87	0.13	0.10	50.00	2
10	2.12	-0.12	-0.09	55.88	2
11	2.16	-0.16	-0.12	61.76	2
12	2.10	-0.10	-0.08	67.65	2
13	2.13	-0.13	-0.10	73.53	2
14	2.20	0.80	0.62	79.41	3
15	1.92	1.08	0.82	85.29	3
16	2.18	0.82	0.63	91.18	3
17	1.89	4.11	3.14	97.06	6

Green Heron

ANWR

Trend Slope as % of Avg =   0.64%
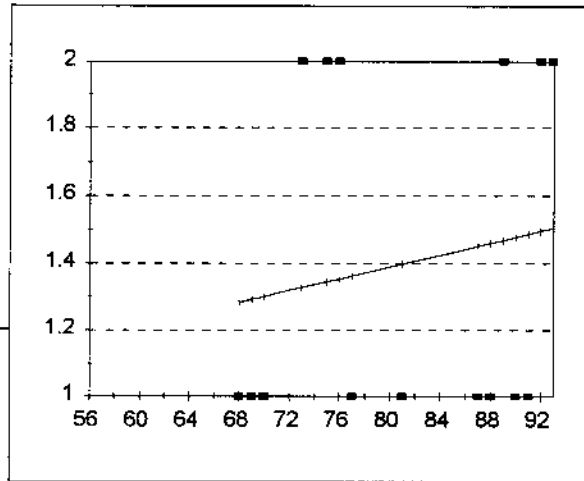
Regression Statistics

Multiple R	0.16
R Square	0.03
Adjusted R Square	-0.05
Standard Error	0.52
Observations	15

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	0.09	0.09	0.34	0.57
Residual	13.00	3.51	0.27		
Total	14.00	3.60			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	0.68	1.24	0.55	0.59	-2.01	3.36
x1	0.01	0.02	0.59	0.57	-0.02	0.04

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	1.28	-0.28	-0.54		3.33	1
2	1.29	-0.29	-0.56		10.00	1
3	1.30	-0.30	-0.58		16.67	1
4	1.33	0.67	1.30		23.33	1
5	1.34	0.66	1.26		30.00	1
6	1.35	0.65	1.25		36.67	1
7	1.36	-0.36	-0.70		43.33	1
8	1.40	-0.40	-0.77		50.00	1
9	1.45	-0.45	-0.87		56.67	1
10	1.46	-0.46	-0.89		63.33	2
11	1.47	0.53	1.02		70.00	2
12	1.48	-0.48	-0.92		76.67	2
13	1.49	-0.49	-0.94		83.33	2
14	1.50	0.50	0.97		90.00	2
15	1.50	0.50	0.95		96.67	2

Green Heron

1 outlier removed

Trend Slope as % of Avg =   -6.27%

Regression Statistics

Multiple R	0.48
R Square	0.23
Adjusted R Square	0.12
Standard Error	1.57
Observations	9.00

CCW
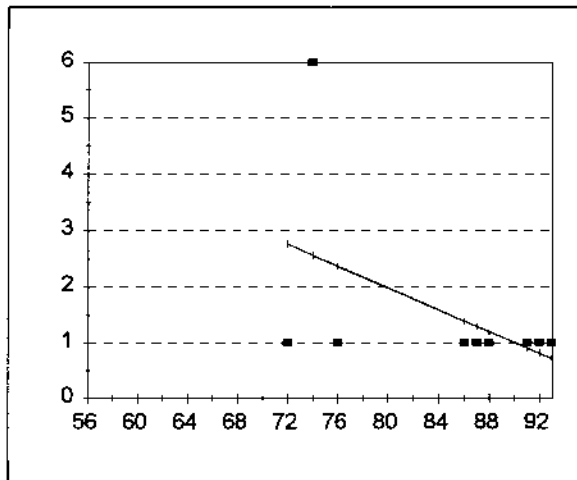
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	5.04	5.04	2.05	0.20
Residual	7.00	17.19	2.46		
Total	8.00	22.22			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	9.78	5.76	1.70	0.13	-3.85	23.41
x1	-0.10	0.07	-1.43	0.19	-0.26	0.06

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	2.37	-1.37	-0.87		5.56	1
2	1.30	-0.30	-0.19		16.67	1
3	1.39	-0.39	-0.25		27.78	1
4	2.76	-1.76	-1.12		38.89	1
5	0.91	0.09	0.06		50.00	1
6	1.20	-0.20	-0.13		61.11	1
7	0.81	0.19	0.12		72.22	1
8	0.71	0.29	0.18		83.33	1
9	2.56	3.44	2.19		94.44	6

Black-crowned Night-Heron

ANWR+CCW

1 outliers removed

Trend Slope as % of Avg =   -0.37%
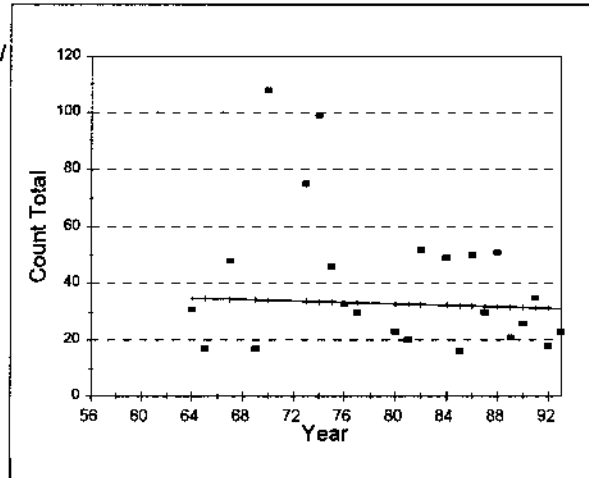
Regression Statistics

Multiple R	0.05
R Square	0.00
Adjusted R Square	-0.03
Standard Error	25.55
Observations	30.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	38.03	38.03	0.06	0.81
Residual	28.00	18272.27	652.58		
Total	29.00	18310.30			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	43.06	40.69	1.06	0.30	-40.29	126.40
x1	-0.12	0.52	-0.24	0.81	-1.18	0.93

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	34.82	-30.82	-1.21	1.67	4
2	32.70	-23.70	-0.93	5.00	9
3	34.20	-25.20	-0.99	8.33	9
4	35.20	-22.20	-0.87	11.67	13
5	34.57	-19.57	-0.77	15.00	15
6	33.32	-18.32	-0.72	18.33	15
7	33.20	-17.20	-0.67	21.67	16
8	32.45	-16.45	-0.64	25.00	16
9	34.95	-17.95	-0.70	28.33	17
10	34.45	-17.45	-0.68	31.67	17
11	31.58	-13.58	-0.53	35.00	18
12	32.95	-12.95	-0.51	38.33	20
13	31.95	-10.95	-0.43	41.67	21
14	33.08	-10.08	-0.39	45.00	23
15	31.45	-8.45	-0.33	48.33	23
16	31.83	-5.83	-0.23	51.67	26
17	32.20	-2.20	-0.09	55.00	30
18	33.45	-3.45	-0.14	58.33	30
19	35.07	-4.07	-0.16	61.67	31
20	33.57	-0.57	-0.02	65.00	33
21	31.70	3.30	0.13	68.33	35
22	33.70	12.30	0.48	71.67	46
23	34.70	13.30	0.52	75.00	48
24	32.58	16.42	0.64	78.33	49
25	32.33	17.67	0.69	81.67	50
26	32.08	18.92	0.74	85.00	51
27	32.83	19.17	0.75	88.33	52
28	33.95	41.05	1.61	91.67	75
29	33.82	65.18	2.55	95.00	99
30	34.32	73.68	2.88	98.33	108

Black-crowned Night-Heron

ANWR

Trend Slope as % of Avg =   2.98%
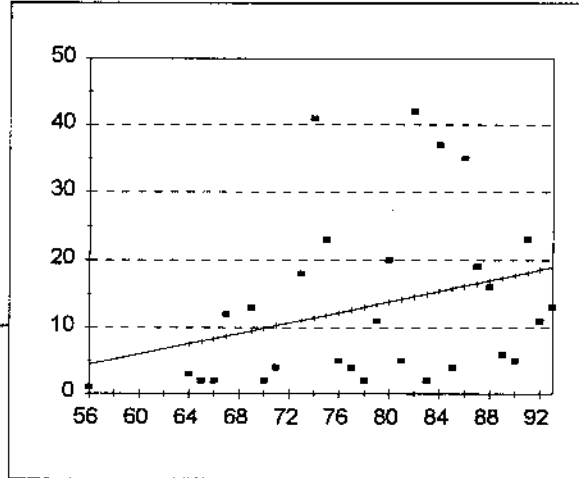
Regression Statistics

Multiple R	0.30
R Square	0.09
Adjusted R Square	0.06
Standard Error	12.09
Observations	29

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	397.58	397.58	2.72	0.11
Residual	27.00	3947.87	146.22		
Total	28.00	4345.45			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-17.48	18.71	-0.93	0.36	-55.86	20.90
x1	0.39	0.24	1.65	0.11	-0.10	0.88

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	4.41	-3.41	-0.28	1.72	1
2	7.54	-4.54	-0.38	5.17	2
3	7.93	-5.93	-0.49	8.62	2
4	8.32	-6.32	-0.52	12.07	2
5	8.72	3.28	0.27	15.52	2
6	9.50	3.50	0.29	18.97	2
7	9.89	-7.89	-0.65	22.41	3
8	10.28	-6.28	-0.52	25.86	4
9	11.06	6.94	0.57	29.31	4
10	11.45	29.55	2.44	32.76	4
11	11.84	11.16	0.92	36.21	5
12	12.23	-7.23	-0.60	39.66	5
13	12.63	-8.63	-0.71	43.10	5
14	13.02	-11.02	-0.91	46.55	6
15	13.41	-2.41	-0.20	50.00	11
16	13.80	6.20	0.51	53.45	11
17	14.19	-9.19	-0.76	56.90	12
18	14.58	27.42	2.27	60.34	13
19	14.97	-12.97	-1.07	63.79	13
20	15.36	21.64	1.79	67.24	16
21	15.75	-11.75	-0.97	70.69	18
22	16.14	18.86	1.56	74.14	19
23	16.54	2.46	0.20	77.59	20
24	16.93	-0.93	-0.08	81.03	23
25	17.32	-11.32	-0.94	84.48	23
26	17.71	-12.71	-1.05	87.93	35
27	18.10	4.90	0.41	91.38	37
28	18.49	-7.49	-0.62	94.83	41
29	18.88	-5.88	-0.49	98.28	42

Black-crowned Night-Heron

Data Corrected:
Count/(Party Hours^B)
where B = .71

2 outliers removed

Trend Slope as % of Avg =   -4.33%

Regression Statistics

Multiple R	0.44
R Square	0.19
Adjusted R Square	0.16
Standard Error	0.76
Observations	29.00

CCW
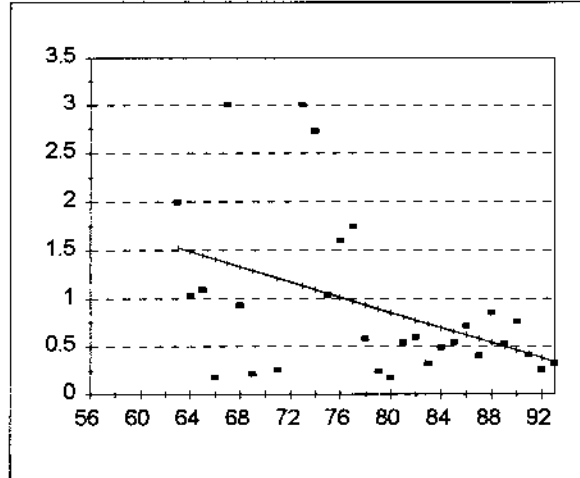
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	3.74	3.74	6.44	0.02
Residual	27.00	15.70	0.58		
Total	28.00	19.45			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	4.03	1.24	3.26	0.00	1.50	6.57
x1	-0.04	0.02	-2.54	0.02	-0.07	-0.01

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	1.41	-1.23	-1.62	1.72	0
2	0.86	-0.68	-0.89	5.17	0
3	1.29	-1.08	-1.41	8.62	0
4	0.90	-0.65	-0.86	12.07	0
5	1.21	-0.96	-1.26	15.52	0
6	0.38	-0.12	-0.16	18.97	0
7	0.74	-0.42	-0.55	22.41	0
8	0.34	-0.01	-0.02	25.86	0
9	0.58	-0.17	-0.23	29.31	0
10	0.42	-0.01	-0.01	32.76	0
11	0.70	-0.21	-0.28	36.21	0
12	0.50	0.03	0.04	39.66	1
13	0.82	-0.28	-0.36	43.10	1
14	0.66	-0.11	-0.15	46.55	1
15	0.94	-0.35	-0.46	50.00	1
16	0.78	-0.18	-0.24	53.45	1
17	0.62	0.09	0.12	56.90	1
18	0.46	0.30	0.40	60.34	1
19	0.54	0.31	0.41	63.79	1
20	1.33	-0.40	-0.53	67.24	1
21	1.49	-0.46	-0.60	70.69	1
22	1.06	-0.01	-0.02	74.14	1
23	1.45	-0.36	-0.47	77.59	1
24	1.02	0.59	0.78	81.03	2
25	0.98	0.77	1.01	84.48	2
26	1.53	0.46	0.61	87.93	2
27	1.10	1.64	2.14	91.38	3
28	1.37	1.63	2.14	94.83	3
29	1.13	1.87	2.46	98.28	3

Black-crowned Night-Heron

Trend Slope as % of Avg =   -6.28%
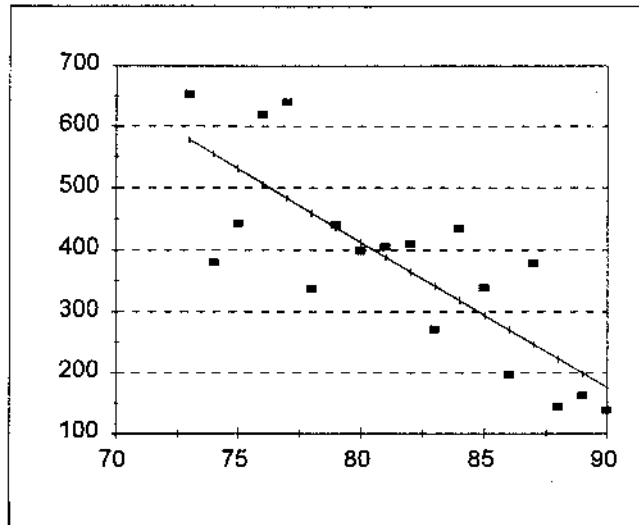
Regression Statistics

Multiple R	0.80
R Square	0.64
Adjusted R Square	0.62
Standard Error	97.00
Observations	18.00

TCWS

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	271800.00	271800.00	28.89	0.00
Residual	16.00	150536.94	9408.56		
Total	17.00	422336.94			

	Coefficients	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	2307.40	359.87	6.41	0.00	1544.50	3070.30
x1	-23.69	4.41	-5.37	0.00	-33.03	-14.34

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	175.73	-37.73	-0.39	2.78	138
2	223.10	-80.10	-0.83	8.33	143
3	199.42	-37.42	-0.39	13.89	162
4	270.47	-74.47	-0.77	19.44	196
5	341.53	-69.53	-0.72	25.00	272
6	459.95	-122.95	-1.27	30.56	337
7	294.16	43.84	0.45	36.11	338
8	246.79	132.21	1.36	41.67	379
9	554.69	-174.69	-1.80	47.22	380
10	412.58	-13.58	-0.14	52.78	399
11	388.90	16.10	0.17	58.33	405
12	365.21	44.79	0.46	63.89	410
13	317.84	116.16	1.20	69.44	434
14	436.27	3.73	0.04	75.00	440
15	531.01	-88.01	-0.91	80.56	443
16	507.32	111.68	1.15	86.11	619
17	483.64	155.36	1.60	91.67	639
18	578.38	74.62	0.77	97.22	653

Yellow-crowned Night-Heron

ANWR+CCW

1 outliers removed

Trend Slope as % of Avg =   1.33%
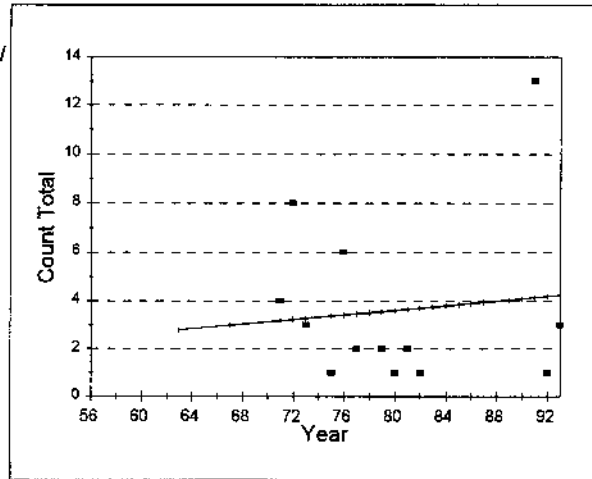
Regression Statistics

Multiple R	0.10
R Square	0.01
Adjusted R Square	-0.08
Standard Error	3.66
Observations	13.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	1.57	1.57	0.12	0.74
Residual	11.00	147.51	13.41		
Total	12.00	149.08			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-0.23	11.27	-0.02	0.98	-25.03	24.58
x1	0.05	0.14	0.34	0.74	-0.26	0.36

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	3.37	-2.37	-0.65	3.85	1
2	3.61	-2.61	-0.71	11.54	1
3	3.70	-2.70	-0.74	19.23	1
4	4.18	-3.18	-0.87	26.92	1
5	3.56	-1.56	-0.43	34.62	2
6	3.46	-1.46	-0.40	42.31	2
7	3.66	-1.66	-0.45	50.00	2
8	4.23	-1.23	-0.34	57.69	3
9	3.27	-0.27	-0.07	65.38	3
10	3.18	0.82	0.22	73.08	4
11	3.42	2.58	0.71	80.77	6
12	3.22	4.78	1.30	88.46	8
13	4.14	8.86	2.42	96.15	13

Yellow-crowned Night-Heron

ANWR

Trend Slope as % of Avg =   -4.31%

Regression Statistics

Multiple R	0.19
R Square	0.04
Adjusted R Square	-0.28
Standard Error	28.92
Observations	5
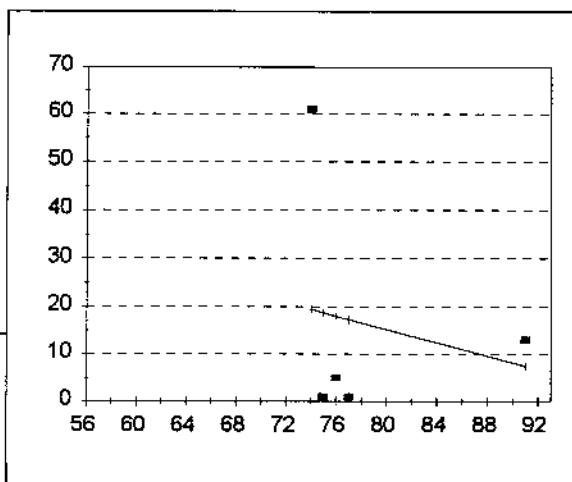
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	96.01	96.01	0.11	0.76
Residual	3.00	2508.79	836.26		
Total	4.00	2604.80			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	71.04	162.38	0.44	0.68	-445.71	587.80
x1	-0.70	2.06	-0.34	0.75	-7.25	5.86

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	19.41	41.59	1.44		10.00	1
2	18.71	-17.71	-0.61		30.00	1
3	18.01	-13.01	-0.45		50.00	5
4	17.32	-16.32	-0.56		70.00	13
5	7.55	5.45	0.19		90.00	61

Yellow-crowned Night-Heron

1 outlier removed

Trend Slope as % of Avg =   -2.07%

Regression Statistics

Multiple R	0.26
R Square	0.07
Adjusted R Square	-0.05
Standard Error	1.13
Observations	10.00

CCW
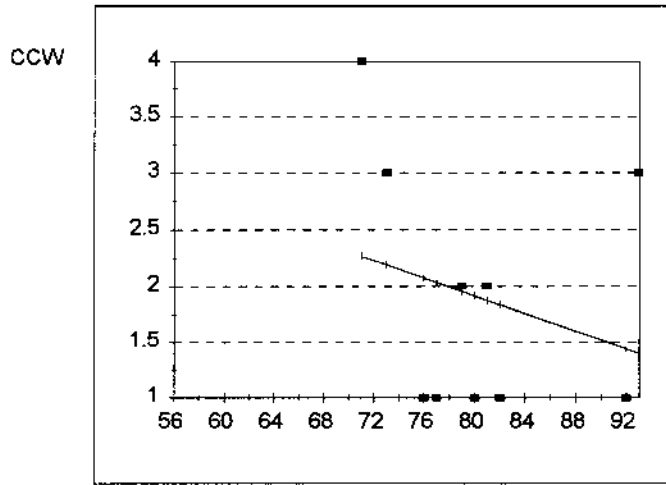
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	0.73	0.73	0.58	0.47
Residual	8.00	10.17	1.27		
Total	9.00	10.90			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	5.07	4.19	1.21	0.26	-4.59	14.72
x1	-0.04	0.05	-0.76	0.47	-0.16	0.08

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	1.44	-0.44	-0.39		5.00	1
2	1.84	-0.84	-0.74		15.00	1
3	1.92	-0.92	-0.81		25.00	1
4	2.03	-1.03	-0.92		35.00	1
5	2.07	-1.07	-0.95		45.00	1
6	1.96	0.04	0.04		55.00	2
7	1.88	0.12	0.11		65.00	2
8	1.40	1.60	1.42		75.00	3
9	2.19	0.81	0.72		85.00	3
10	2.27	1.73	1.53		95.00	4

White Ibis

ANWR+CCW

Trend Slope as % of Avg =   8.73%
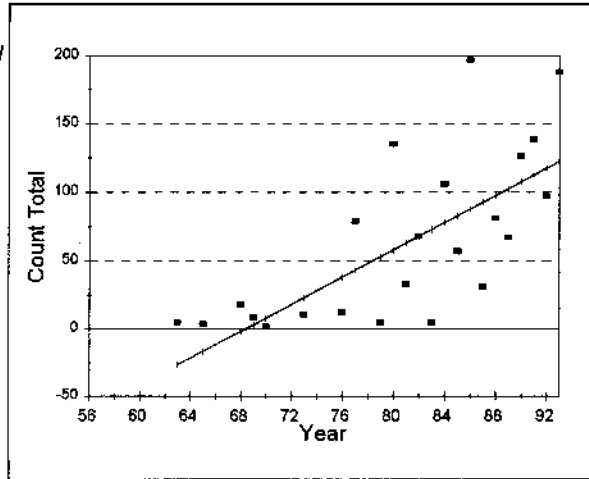
Regression Statistics

Multiple R	0.71
R Square	0.50
Adjusted R Square	0.48
Standard Error	43.52
Observations	26.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	46365.78	46365.78	24.48	0.00
Residual	24.00	45454.87	1893.95		
Total	25.00	91820.65			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-339.24	80.51	-4.21	0.00	-505.41	-173.07
x1	4.96	1.00	4.95	0.00	2.89	7.03

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	13.17	-12.17	-0.28		1.92	1
2	47.91	-46.91	-1.08		5.77	1
3	33.02	-31.02	-0.71		9.62	2
4	8.20	-6.20	-0.14		13.46	2
5	-16.61	20.61	0.47		17.31	4
6	52.88	-47.88	-1.10		21.15	5
7	72.73	-67.73	-1.56		25.00	5
8	-26.54	31.54	0.72		28.85	5
9	3.24	5.76	0.13		32.69	9
10	23.09	-12.09	-0.28		36.54	11
11	37.99	-24.99	-0.57		40.38	13
12	-1.72	19.72	0.45		44.23	18
13	92.58	-61.58	-1.42		48.08	31
14	62.80	-29.80	-0.68		51.92	33
15	82.66	-25.66	-0.59		55.77	57
16	102.51	-35.51	-0.82		59.62	67
17	67.77	0.23	0.01		63.46	68
18	42.95	36.05	0.83		67.31	79
19	97.55	-16.55	-0.38		71.15	81
20	117.40	-20.40	-0.47		75.00	97
21	77.69	28.31	0.65		78.85	106
22	107.47	18.53	0.43		82.69	126
23	57.84	77.16	1.77		86.54	135
24	112.44	25.56	0.59		90.38	138
25	122.36	65.64	1.51		94.23	188
26	87.62	109.38	2.51		98.08	197

White Ibis

ANWR

Trend Slope as % of Avg =   5.89%
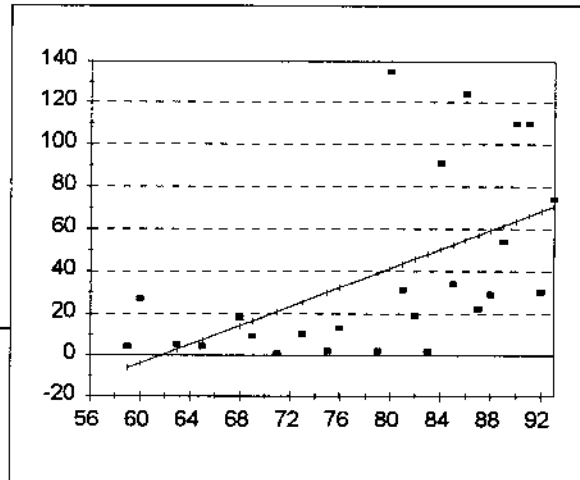
Regression Statistics

Multiple R	0.55
R Square	0.30
Adjusted R Square	0.27
Standard Error	36.49
Observations	25

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	13168.62	13168.62	9.89	0.00
Residual	23.00	30617.38	1331.19		
Total	24.00	43786.00			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-139.79	57.12	-2.45	0.02	-257.96	-21.62
x1	2.26	0.72	3.15	0.00	0.77	3.75

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	-6.31	10.31	0.28		2.00	1
2	-4.04	31.04	0.85		6.00	2
3	2.74	2.26	0.06		10.00	2
4	7.27	-3.27	-0.09		14.00	2
5	14.06	3.94	0.11		18.00	4
6	16.32	-7.32	-0.20		22.00	4
7	20.84	-19.84	-0.54		26.00	5
8	25.37	-15.37	-0.42		30.00	9
9	29.89	-27.89	-0.76		34.00	10
10	32.16	-19.16	-0.53		38.00	13
11	38.94	-36.94	-1.01		42.00	18
12	41.21	93.79	2.57		46.00	19
13	43.47	-12.47	-0.34		50.00	22
14	45.73	-26.73	-0.73		54.00	27
15	47.99	-45.99	-1.26		58.00	29
16	50.26	40.74	1.12		62.00	30
17	52.52	-18.52	-0.51		66.00	31
18	54.78	69.22	1.90		70.00	34
19	57.04	-35.04	-0.96		74.00	54
20	59.31	-30.31	-0.83		78.00	74
21	61.57	-7.57	-0.21		82.00	91
22	63.83	46.17	1.27		86.00	110
23	66.09	43.91	1.20		90.00	110
24	68.36	-38.36	-1.05		94.00	124
25	70.62	3.38	0.09		98.00	135

White Ibis

1 outlier removed

Trend Slope as % of Avg =   5.59%

Regression Statistics

Multiple R	0.33
R Square	0.11
Adjusted R Square	0.05
Standard Error	26.77
Observations	17.00

CCW
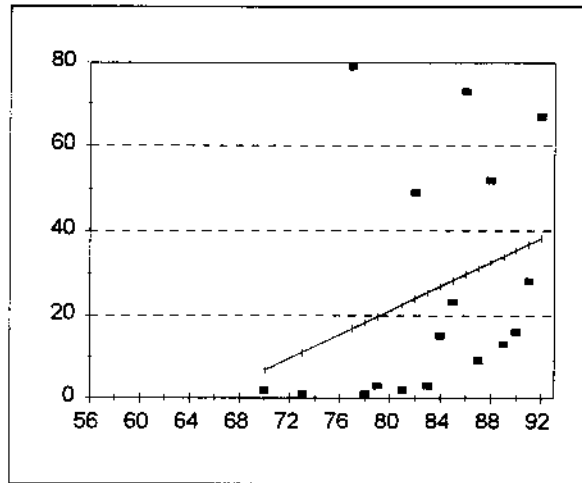
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	1305.15	1305.15	1.82	0.20
Residual	15.00	10748.73	716.58		
Total	16.00	12053.88			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-93.68	88.65	-1.06	0.31	-282.64	95.28
x1	1.43	1.06	1.35	0.20	-0.83	3.70

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	18.14	-17.14	-0.64		2.94	1
2	10.97	-9.97	-0.37		8.82	1
3	6.67	-4.67	-0.17		14.71	2
4	22.44	-20.44	-0.76		20.59	2
5	25.31	-22.31	-0.83		26.47	3
6	19.58	-16.58	-0.62		32.35	3
7	31.04	-22.04	-0.82		38.24	9
8	33.91	-20.91	-0.78		44.12	13
9	26.74	-11.74	-0.44		50.00	15
10	35.34	-19.34	-0.72		55.88	16
11	28.18	-5.18	-0.19		61.76	23
12	36.78	-8.78	-0.33		67.65	28
13	23.88	25.12	0.94		73.53	49
14	32.48	19.52	0.73		79.41	52
15	38.21	28.79	1.08		85.29	67
16	29.61	43.39	1.62		91.18	73
17	16.71	62.29	2.33		97.06	79

White Ibis

1 outlier removed

Trend Slope as % of Avg =   12.30%

TCWS

Regression Statistics

Multiple R	0.65
R Square	0.42
Adjusted R Square	0.30
Standard Error	8.11
Observations	7.00
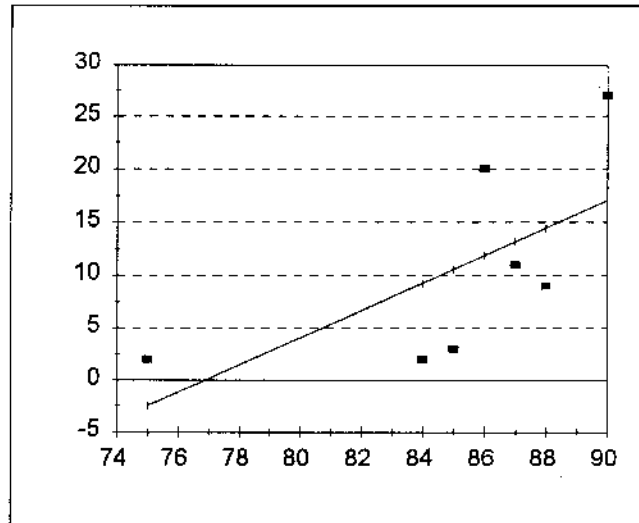
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	236.60	236.60	3.59	0.12
Residual	5.00	329.11	65.82		
Total	6.00	565.71			

	Coefficients	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-99.93	58.36	-1.71	0.14	-249.96	50.10
x1	1.30	0.69	1.90	0.11	-0.46	3.06

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	9.27	-7.27	-0.90		7.14	2
2	-2.43	4.43	0.55		21.43	2
3	10.57	-7.57	-0.93		35.71	3
4	14.47	-5.47	-0.67		50.00	9
5	13.17	-2.17	-0.27		64.29	11
6	11.87	8.13	1.00		78.57	20
7	17.07	9.93	1.22		92.86	27

White-faced Ibis

2 outliers removed

Trend Slope as % of Avg =   0.36%

ANWR+CCW
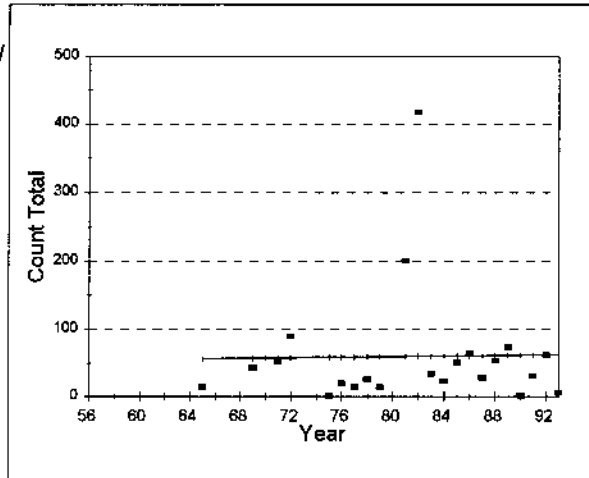
Regression Statistics

Multiple R	0.02
R Square	0.00
Adjusted R Square	-0.05
Standard Error	92.53
Observations	22.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	60.45	60.45	0.01	0.93
Residual	20.00	171225.37	8561.27		
Total	21.00	171285.82			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	42.62	208.85	0.20	0.84	-393.03	478.27
x1	0.21	2.55	0.08	0.93	-5.11	5.54

| Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	58.70	-57.70	-0.62		2.27	1
2	61.91	-59.91	-0.65		6.82	2
3	62.56	-56.56	-0.61		11.36	6
4	59.55	-45.55	-0.49		15.91	14
5	56.55	-42.55	-0.46		20.45	14
6	59.13	-44.13	-0.48		25.00	15
7	58.91	-38.91	-0.42		29.55	20
8	60.63	-37.63	-0.41		34.09	23
9	59.34	-33.34	-0.36		38.64	26
10	61.27	-33.27	-0.36		43.18	28
11	62.13	-31.13	-0.34		47.73	31
12	60.41	-26.41	-0.29		52.27	34
13	57.41	-14.41	-0.16		56.82	43
14	60.84	-9.84	-0.11		61.36	51
15	57.84	-4.84	-0.05		65.91	53
16	61.48	-7.48	-0.08		70.45	54
17	62.34	-0.34	-0.00		75.00	62
18	61.06	3.94	0.04		79.55	65
19	61.70	11.30	0.12		84.09	73
20	58.05	31.95	0.35		88.64	90
21	59.98	140.02	1.51		93.18	200
22	60.20	356.80	3.86		97.73	417

White-faced Ibis

Data Corrected: ANWR
Count/(Party Hours^B)
where B = .64

2 outliers removed

Trend Slope as % of Avg =   -9.37%
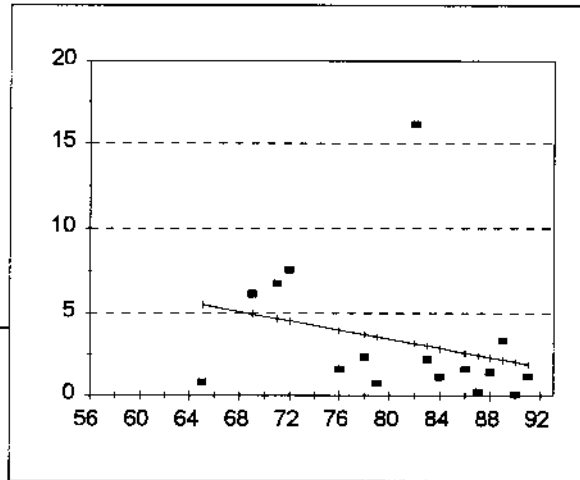
Regression Statistics

Multiple R	0.27
R Square	0.07
Adjusted R Square	0.01
Standard Error	4.12
Observations	16

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	18.91	18.91	1.12	0.31
Residual	14.00	237.39	16.96		
Total	15.00	256.30			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	14.49	10.62	1.36	0.19	-8.30	37.28
x1	-0.14	0.13	-1.06	0.31	-0.42	0.14

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	5.49	-4.69	-1.14		3.13	0
2	4.93	1.19	0.29		9.38	0
3	4.66	2.10	0.51		15.63	1
4	4.52	3.04	0.74		21.88	1
5	3.96	-2.37	-0.58		28.13	1
6	3.69	-1.34	-0.32		34.38	1
7	3.55	-2.80	-0.68		40.63	1
8	3.13	13.01	3.16		46.88	2
9	3.00	-0.83	-0.20		53.13	2
10	2.86	-1.72	-0.42		59.38	2
11	2.58	-0.96	-0.23		65.63	2
12	2.44	-2.21	-0.54		71.88	3
13	2.30	-0.90	-0.22		78.13	6
14	2.16	1.16	0.28		84.38	7
15	2.03	-1.95	-0.47		90.63	8
16	1.89	-0.73	-0.18		96.88	16

White-faced Ibis

2 outliers removed

Trend Slope as % of Avg =   6.67%

Regression Statistics

Multiple R	0.35
R Square	0.12
Adjusted R Square	0.05
Standard Error	19.09
Observations	15.00

CCW
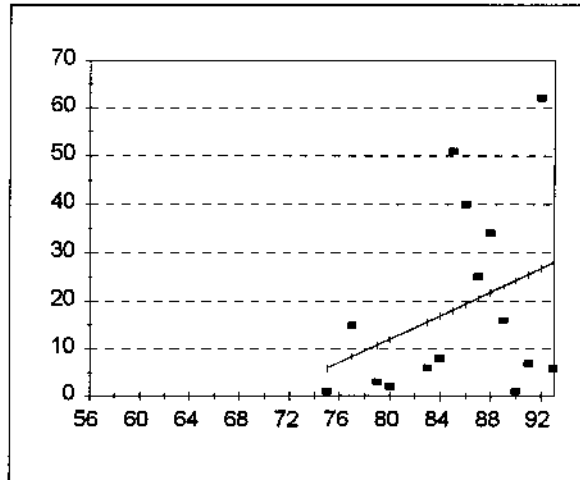
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	656.52	656.52	1.80	0.20
Residual	13.00	4735.21	364.25		
Total	14.00	5391.73			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-86.53	78.37	-1.10	0.29	-255.83	82.76
x1	1.23	0.92	1.34	0.20	-0.75	3.21

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	24.30	-23.30	-1.22	3.33	1
2	5.82	-4.82	-0.25	10.00	1
3	11.98	-9.98	-0.52	16.67	2
4	10.75	-7.75	-0.41	23.33	3
5	15.68	-9.68	-0.51	30.00	6
6	27.99	-21.99	-1.15	36.67	6
7	25.53	-18.53	-0.97	43.33	7
8	16.91	-8.91	-0.47	50.00	8
9	8.29	6.71	0.35	56.67	15
10	23.06	-7.06	-0.37	63.33	16
11	20.60	4.40	0.23	70.00	25
12	21.83	12.17	0.64	76.67	34
13	19.37	20.63	1.08	83.33	40
14	18.14	32.86	1.72	90.00	51
15	26.76	35.24	1.85	96.67	62

White-faced Ibis

Trend Slope as % of Avg =   -7.99%
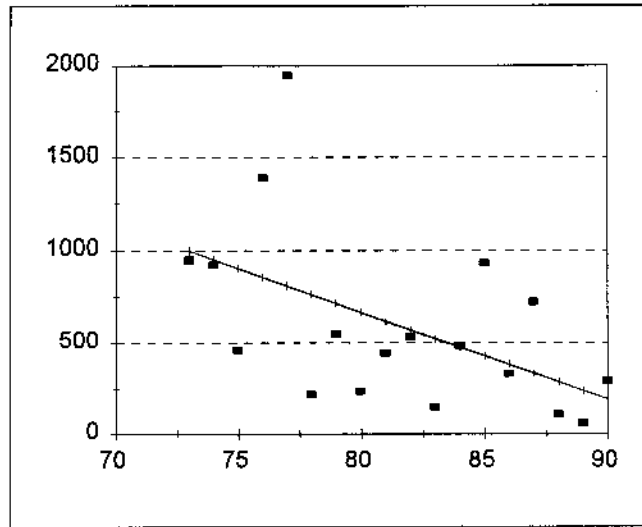
Regression Statistics

Multiple R	0.52
R Square	0.27
Adjusted R Square	0.23
Standard Error	428.91
Observations	18.00

TCWS

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	1095743.41	1095743.41	5.96	0.03
Residual	16.00	2943436.59	183964.79		
Total	17.00	4039180.00			

	Coefficients	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	4470.83	1591.32	2.81	0.01	1097.40	7844.27
x1	-47.56	19.49	-2.44	0.03	-88.86	-6.25

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	238.33	-182.33	-0.43		2.78	56
2	285.88	-180.88	-0.42		8.33	105
3	523.67	-377.67	-0.88		13.89	146
4	761.45	-544.45	-1.27		19.44	217
5	666.33	-434.33	-1.01		25.00	232
6	190.77	101.23	0.24		30.56	292
7	381.00	-50.00	-0.12		36.11	331
8	618.78	-173.78	-0.41		41.67	445
9	904.12	-446.12	-1.04		47.22	458
10	476.11	8.89	0.02		52.78	485
11	571.22	-36.22	-0.08		58.33	535
12	713.89	-162.89	-0.38		63.89	551
13	333.44	387.56	0.90		69.44	721
14	951.67	-29.67	-0.07		75.00	922
15	428.55	504.45	1.18		80.56	933
16	999.23	-51.23	-0.12		86.11	948
17	856.56	532.44	1.24		91.67	1389
18	809.00	1135.00	2.65		97.22	1944

Roseate Spoonbill

2 outliers removed

Trend Slope as % of Avg = 3.72%
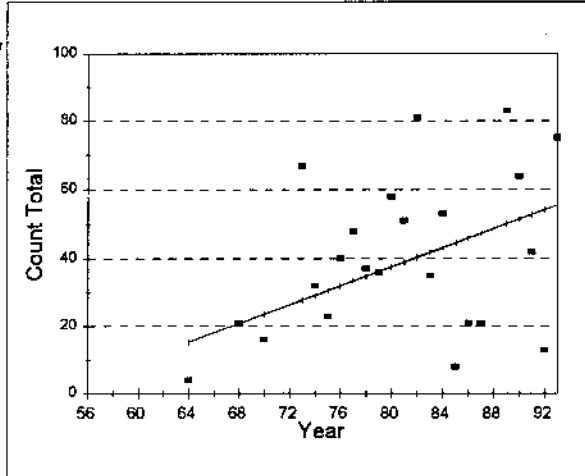
Regression Statistics

Multiple R	0.46
R Square	0.21
Adjusted R Square	0.18
Standard Error	22.27
Observations	25.00

ANWR+CCW

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	3086.95	3086.95	6.23	0.02
Residual	23.00	11404.81	495.86		
Total	24.00	14491.76			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-73.71	44.74	-1.65	0.11	-166.26	18.84
x1	1.39	0.56	2.50	0.02	0.24	2.54

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	22.23	-20.23	-0.91	2.00	2
2	25.01	-22.01	-0.99	6.00	3
3	15.28	-11.28	-0.51	10.00	4
4	44.48	-36.48	-1.64	14.00	8
5	54.21	-41.21	-1.85	18.00	13
6	23.62	-7.62	-0.34	22.00	16
7	47.26	-26.26	-1.18	26.00	21
8	45.87	-24.87	-1.12	30.00	21
9	20.84	0.16	0.01	34.00	21
10	30.57	-7.57	-0.34	38.00	23
11	29.18	2.82	0.13	42.00	32
12	41.70	-6.70	-0.30	46.00	35
13	36.14	-0.14	-0.01	50.00	36
14	34.75	2.25	0.10	54.00	37
15	31.96	8.04	0.36	58.00	40
16	52.82	-10.82	-0.49	62.00	42
17	33.36	14.64	0.66	66.00	48
18	38.92	12.08	0.54	70.00	51
19	43.09	9.91	0.45	74.00	53
20	37.53	20.47	0.92	78.00	58
21	51.43	12.57	0.56	82.00	64
22	27.79	39.21	1.76	86.00	67
23	55.60	19.40	0.87	90.00	75
24	40.31	40.69	1.83	94.00	81
25	50.04	32.96	1.48	98.00	83

Roseate Spoonbill

ANWR

2 outliers removed

Trend Slope as % of Avg =   1.42%

Regression Statistics

Multiple R	0.15
R Square	0.02
Adjusted R Square	-0.02
Standard Error	16.10
Observations	23
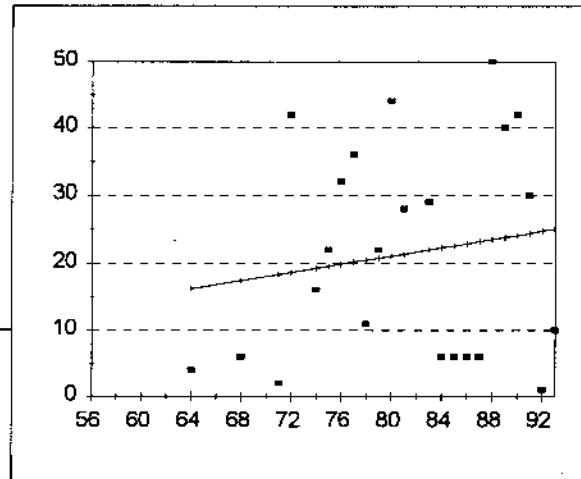
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	130.69	130.69	0.50	0.49
Residual	21.00	5442.53	259.17		
Total	22.00	5573.22			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-3.16	34.67	-0.09	0.93	-75.26	68.94
x1	0.30	0.43	0.71	0.49	-0.58	1.19

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	16.20	-12.20	-0.76	2.17	1
2	17.42	-11.42	-0.71	6.52	2
3	18.32	-16.32	-1.01	10.87	4
4	18.63	23.37	1.45	15.22	6
5	19.23	-3.23	-0.20	19.57	6
6	19.53	2.47	0.15	23.91	6
7	19.84	12.16	0.76	28.26	6
8	20.14	15.86	0.99	32.61	6
9	20.44	-9.44	-0.59	36.96	10
10	20.74	1.26	0.08	41.30	11
11	21.05	22.95	1.43	45.65	16
12	21.35	6.65	0.41	50.00	22
13	21.95	7.05	0.44	54.35	22
14	22.26	-16.26	-1.01	58.70	28
15	22.56	-16.56	-1.03	63.04	29
16	22.86	-16.86	-1.05	67.39	30
17	23.16	-17.16	-1.07	71.74	32
18	23.47	26.53	1.65	76.09	36
19	23.77	16.23	1.01	80.43	40
20	24.07	17.93	1.11	84.78	42
21	24.37	5.63	0.35	89.13	42
22	24.68	-23.68	-1.47	93.48	44
23	24.98	-14.98	-0.93	97.83	50

Roseate Spoonbill

2 outliers removed

Trend Slope as % of Avg =   2.21%

Regression Statistics

Multiple R	0.19
R Square	0.03
Adjusted R Square	-0.01
Standard Error	14.05
Observations	24.00

CCW
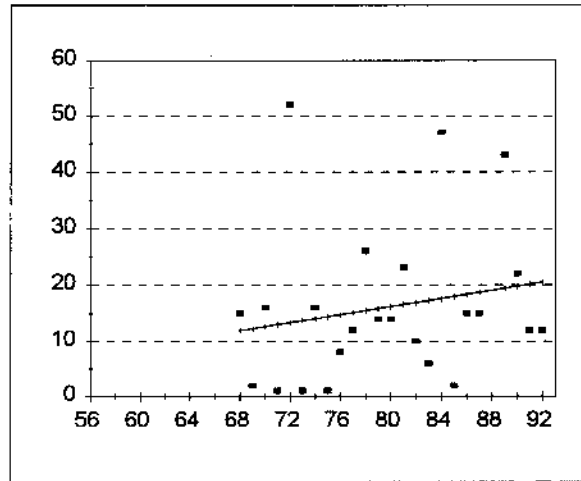
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	154.37	154.37	0.78	0.39
Residual	22.00	4342.59	197.39		
Total	23.00	4496.96			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-12.14	32.00	-0.38	0.71	-78.51	54.22
x1	0.35	0.40	0.88	0.39	-0.48	1.18

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	14.39	-13.39	-0.95		2.08	1
2	13.68	-12.68	-0.90		6.25	1
3	12.98	-11.98	-0.85		10.42	1
4	12.27	-10.27	-0.73		14.58	2
5	17.93	-15.93	-1.13		18.75	2
6	17.22	-11.22	-0.80		22.92	6
7	14.74	-6.74	-0.48		27.08	8
8	16.87	-6.87	-0.49		31.25	10
9	20.41	-8.41	-0.60		35.42	12
10	15.10	-3.10	-0.22		39.58	12
11	20.05	-8.05	-0.57		43.75	12
12	16.16	-2.16	-0.15		47.92	14
13	15.81	-1.81	-0.13		52.08	14
14	18.64	-3.64	-0.26		56.25	15
15	11.91	3.09	0.22		60.42	15
16	18.28	-3.28	-0.23		64.58	15
17	12.62	3.38	0.24		68.75	16
18	14.04	1.96	0.14		72.92	16
19	19.70	2.30	0.16		77.08	22
20	16.51	6.49	0.46		81.25	23
21	15.45	10.55	0.75		85.42	26
22	19.34	23.66	1.68		89.58	43
23	17.57	29.43	2.09		93.75	47
24	13.33	38.67	2.75		97.92	52

Roseate Spoonbill

TCWS

Trend Slope as % of Avg =   -7.97%
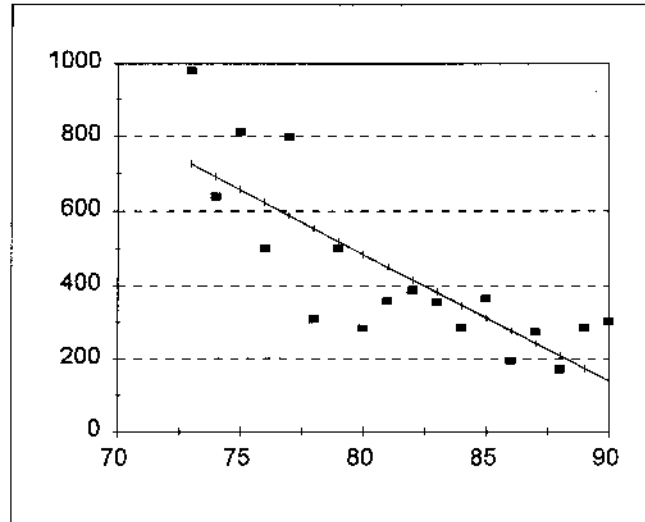
Regression Statistics

Multiple R	0.80
R Square	0.65
Adjusted R Square	0.63
Standard Error	140.09
Observations	18.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	576969.41	576969.41	29.40	0.00
Residual	16.00	313981.53	19623.85		
Total	17.00	890950.94			

	Coefficients	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	3245.52	519.73	6.24	0.00	2143.73	4347.31
x1	-34.51	6.36	-5.42	0.00	-48.00	-21.02

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	208.75	-37.75	-0.27	2.78	171
2	277.77	-82.77	-0.59	8.33	195
3	243.26	30.74	0.22	13.89	274
4	484.82	-200.82	-1.43	19.44	284
5	174.24	109.76	0.78	25.00	284
6	346.78	-60.78	-0.43	30.56	286
7	139.73	164.27	1.17	36.11	304
8	553.84	-244.84	-1.75	41.67	309
9	381.29	-25.29	-0.18	47.22	356
10	450.31	-93.31	-0.67	52.78	357
11	312.27	51.73	0.37	58.33	364
12	415.80	-28.80	-0.21	63.89	387
13	622.85	-122.85	-0.88	69.44	500
14	519.33	-19.33	-0.14	75.00	500
15	691.87	-53.87	-0.38	80.56	638
16	588.35	207.65	1.48	86.11	796
17	657.36	153.64	1.10	91.67	811
18	726.38	252.62	1.80	97.22	979

Fulvous Whistling-Duck

ANWR+CCW

Trend Slope as % of Avg =   -0.90%

Regression Statistics

Multiple R	0.07
R Square	0.01
Adjusted R Square	-0.19
Standard Error	3.01
Observations	7.00
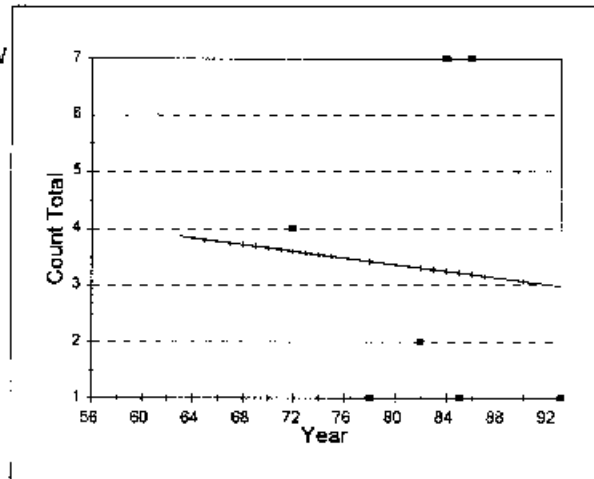
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	0.23	0.23	0.03	0.88
Residual	5.00	45.20	9.04		
Total	6.00	45.43			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	5.74	15.47	0.37	0.72	-34.02	45.49
x1	-0.03	0.19	-0.16	0.88	-0.51	0.45

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	2.99	-1.99	-0.66		7.14	1
2	3.43	-2.43	-0.81		21.43	1
3	3.22	-2.22	-0.74		35.71	1
4	3.31	-1.31	-0.44		50.00	2
5	3.61	0.39	0.13		64.29	4
6	3.19	3.81	1.27		78.57	7
7	3.25	3.75	1.25		92.86	7

Black-bellied Whistling-Duck

ANWR+CCW

1 outliers removed

Trend Slope as % of Avg =   3.87%
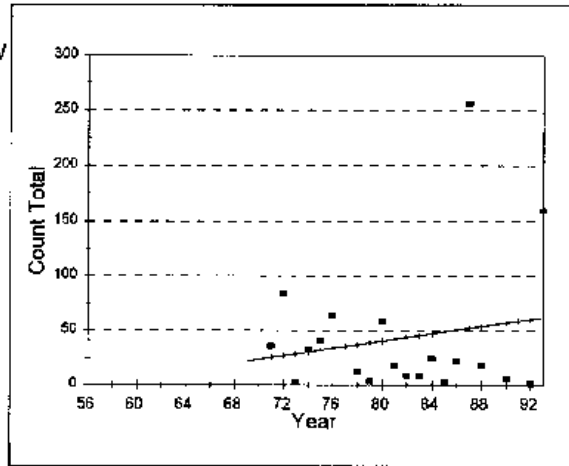
Regression Statistics

Multiple R	0.18
R Square	0.03
Adjusted R Square	-0.02
Standard Error	63.39
Observations	20.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	2361.42	2361.42	0.59	0.45
Residual	18.00	72325.53	4018.09		
Total	19.00	74686.95			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-92.63	177.56	-0.52	0.61	-465.67	280.40
x1	1.67	2.17	0.77	0.45	-2.90	6.23

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	60.62	-59.62	-0.94	2.50	1
2	28.97	-25.97	-0.41	7.50	3
3	48.96	-45.96	-0.73	12.50	3
4	38.97	-34.97	-0.55	17.50	4
5	57.29	-51.29	-0.81	22.50	6
6	45.63	-37.63	-0.59	27.50	8
7	43.97	-34.97	-0.55	32.50	9
8	37.30	-25.30	-0.40	37.50	12
9	53.96	-35.96	-0.57	42.50	18
10	42.30	-24.30	-0.38	47.50	18
11	50.63	-28.63	-0.45	52.50	22
12	47.30	-23.30	-0.37	57.50	24
13	30.64	2.36	0.04	62.50	33
14	25.64	10.36	0.16	67.50	36
15	32.31	8.69	0.14	72.50	41
16	40.63	18.37	0.29	77.50	59
17	33.97	30.03	0.47	82.50	64
18	27.31	57.69	0.91	87.50	85
19	62.29	96.71	1.53	92.50	159
20	52.30	203.70	3.21	97.50	256

Black-bellied Whistling-Duck

1 outlier removed

Trend Slope as % of Avg =   -1.03%

ANWR

Regression Statistics

Multiple R	0.13
R Square	0.02
Adjusted R Square	-0.47
Standard Error	1.16
Observations	4
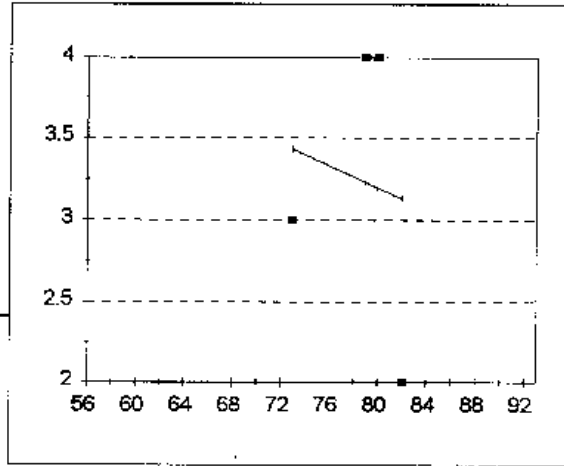
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	0.05	0.05	0.04	0.87
Residual	2.00	2.70	1.35		
Total	3.00	2.75			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	5.87	13.61	0.43	0.70	-62.69	64.42
x1	-0.03	0.17	-0.19	0.86	-0.78	0.71

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	3.43	-0.43	-0.37		12.50	2
2	3.23	0.77	0.66		37.50	3
3	3.20	0.80	0.69		62.50	4
4	3.13	-1.13	-0.98		87.50	4

Black-bellied Whistling-Duck

1 outlier removed

Trend Slope as % of Avg =   2.62%

Regression Statistics

Multiple R	0.13
R Square	0.02
Adjusted R Square	-0.05
Standard Error	66.45
Observations	18.00

CCW
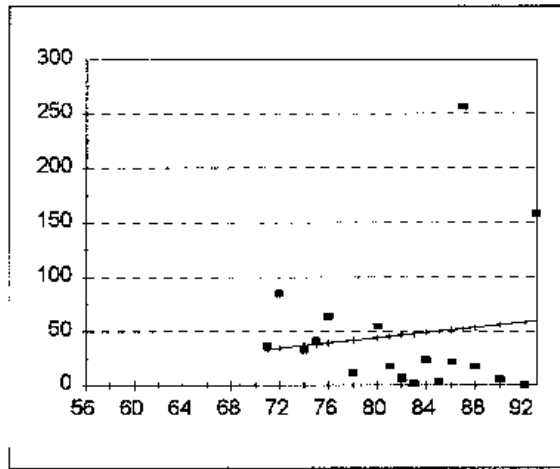
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	1147.75	1147.75	0.26	0.62
Residual	16.00	70645.36	4415.34		
Total	17.00	71793.11			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-53.60	197.50	-0.27	0.79	-472.29	365.09
x1	1.22	2.40	0.51	0.62	-3.86	6.31

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	58.94	-57.94	-0.87	2.78	1
2	47.93	-45.93	-0.69	8.33	2
3	50.38	-47.38	-0.71	13.89	3
4	56.50	-50.50	-0.76	19.44	6
5	46.71	-39.71	-0.60	25.00	7
6	41.82	-29.82	-0.45	30.56	12
7	54.05	-36.05	-0.54	36.11	18
8	45.49	-27.49	-0.41	41.67	18
9	51.60	-29.60	-0.45	47.22	22
10	49.16	-25.16	-0.38	52.78	24
11	36.92	-3.92	-0.06	58.33	33
12	33.25	2.75	0.04	63.89	36
13	38.15	2.85	0.04	69.44	41
14	44.26	10.74	0.16	75.00	55
15	39.37	24.63	0.37	80.56	64
16	34.48	50.52	0.76	86.11	85
17	60.17	98.83	1.49	91.67	159
18	52.83	203.17	3.06	97.22	256

Gr. White-fronted Goose

ANWR+CCW

Trend Slope as % of Avg =   9.12%

Regression Statistics

Multiple R	0.62
R Square	0.39
Adjusted R Square	0.37
Standard Error	340.89
Observations	29.00
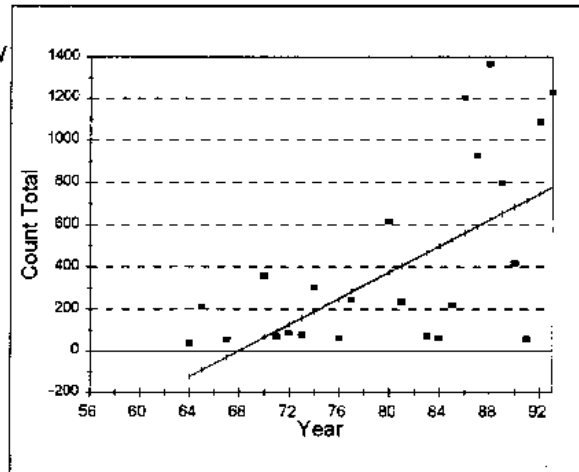
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	2010099.47	2010099.47	17.30	0.00
Residual	27.00	3137497.36	116203.61		
Total	28.00	5147596.83			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-2109.89	592.53	-3.56	0.00	-3325.65	-894.13
x1	31.04	7.46	4.16	0.00	15.73	46.36

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	435.65	-432.65	-1.27	1.72	3
2	218.35	-213.35	-0.63	5.17	5
3	1.05	6.95	0.02	8.62	8
4	32.09	-8.09	-0.02	12.07	24
5	342.52	-317.52	-0.93	15.52	25
6	311.48	-276.48	-0.81	18.97	35
7	-123.13	158.13	0.46	22.41	35
8	-30.00	83.00	0.24	25.86	53
9	715.04	-661.04	-1.94	29.31	54
10	249.39	-189.39	-0.56	32.76	60
11	497.74	-436.74	-1.28	36.21	61
12	94.17	-26.17	-0.08	39.66	68
13	466.69	-395.69	-1.16	43.10	71
14	156.26	-80.26	-0.24	46.55	76
15	125.22	-39.22	-0.12	50.00	86
16	-92.08	305.08	0.89	53.45	213
17	528.78	-309.78	-0.91	56.90	219
18	404.61	-169.61	-0.50	60.34	235
19	280.43	-36.43	-0.11	63.79	244
20	187.30	115.70	0.34	67.24	303
21	63.13	294.87	0.87	70.69	358
22	684.00	-267.00	-0.78	74.14	417
23	373.56	241.44	0.71	77.59	615
24	652.95	145.05	0.43	81.03	798
25	590.87	332.13	0.97	84.48	923
26	746.08	337.92	0.99	87.93	1084
27	559.82	643.18	1.89	91.38	1203
28	777.12	450.88	1.32	94.83	1228
29	621.91	745.09	2.19	98.28	1367

Gr. White-fronted Goose

ANWR

1 outlier removed

Trend Slope as % of Avg = 5.60%

Regression Statistics

Multiple R	0.51
R Square	0.26
Adjusted R Square	0.22
Standard Error	39.82
Observations	21
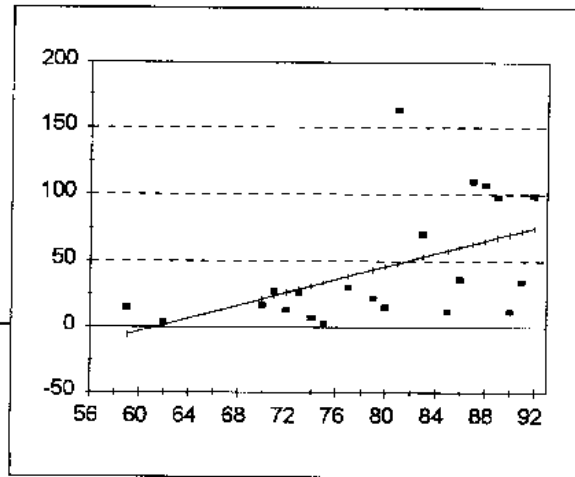
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	10505.04	10505.04	6.63	0.02
Residual	19.00	30124.19	1585.48		
Total	20.00	40629.24			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-150.45	75.97	-1.98	0.06	-309.45	8.55
x1	2.45	0.95	2.57	0.02	0.46	4.45

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	-5.81	20.81	0.52		2.38	3
2	1.55	2.45	0.06		7.14	4
3	21.16	-4.16	-0.10		11.90	7
4	23.61	3.39	0.09		16.67	12
5	26.06	-13.06	-0.33		21.43	12
6	28.52	-2.52	-0.06		26.19	13
7	30.97	-23.97	-0.60		30.95	15
8	33.42	-30.42	-0.76		35.71	15
9	38.32	-8.32	-0.21		40.48	17
10	43.23	-21.23	-0.53		45.24	22
11	45.68	-30.68	-0.77		50.00	26
12	48.13	114.87	2.88		54.76	27
13	53.03	16.97	0.43		59.52	30
14	57.94	-45.94	-1.15		64.29	34
15	60.39	-24.39	-0.61		69.05	36
16	62.84	47.16	1.18		73.81	70
17	65.29	41.71	1.05		78.57	98
18	67.74	30.26	0.76		83.33	99
19	70.19	-58.19	-1.46		88.10	107
20	72.65	-38.65	-0.97		92.86	110
21	75.10	23.90	0.60		97.62	163

Gr. White-fronted Goose

CCW

3 outliers removed

Trend Slope as % of Avg =   8.08%

Regression Statistics

Multiple R	0.51
R Square	0.26
Adjusted R Square	0.23
Standard Error	234.98
Observations	26.00
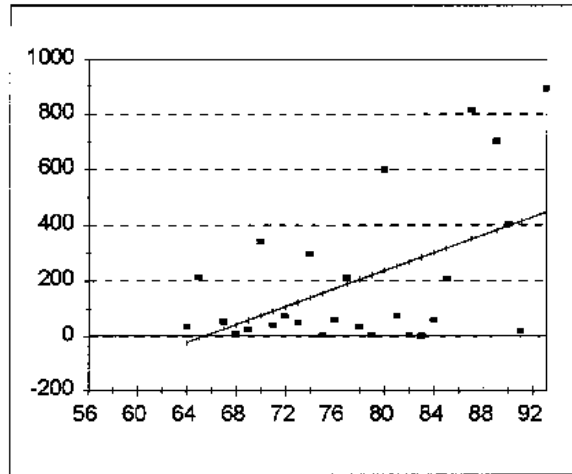
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	460130.11	460130.11	8.33	0.01
Residual	24.00	1325196.50	55216.52		
Total	25.00	1785326.62			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-1060.88	439.48	-2.41	0.02	-1967.91	-153.85
x1	16.21	5.62	2.89	0.01	4.62	27.81

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	284.96	-283.96	-1.21	1.92	1
2	155.24	-153.24	-0.65	5.77	2
3	268.75	-265.75	-1.13	9.62	3
4	220.10	-217.10	-0.92	13.46	3
5	41.74	-33.74	-0.14	17.31	8
6	414.68	-394.68	-1.68	21.15	20
7	57.95	-33.95	-0.14	25.00	24
8	-23.12	58.12	0.25	28.85	35
9	203.89	-168.89	-0.72	32.69	35
10	90.38	-49.38	-0.21	36.54	41
11	122.81	-72.81	-0.31	40.38	50
12	25.52	27.48	0.12	44.23	53
13	171.46	-111.46	-0.47	48.08	60
14	301.18	-240.18	-1.02	51.92	61
15	252.53	-180.53	-0.77	55.77	72
16	106.60	-33.60	-0.14	59.62	73
17	317.39	-110.39	-0.47	63.46	207
18	-6.91	219.91	0.94	67.31	213
19	187.67	26.33	0.11	71.15	214
20	139.03	156.97	0.67	75.00	296
21	74.17	266.83	1.14	78.85	341
22	398.47	6.53	0.03	82.69	405
23	236.32	363.68	1.55	86.54	600
24	382.25	317.75	1.35	90.38	700
25	349.82	463.18	1.97	94.23	813
26	447.11	442.89	1.88	98.08	890

Snow Goose

ANWR+CCW

3 outliers removed

Trend Slope as % of Avg =   2.63%

Regression Statistics

Multiple R	0.37
R Square	0.14
Adjusted R Square	0.10
Standard Error	1211.53
Observations	28.00
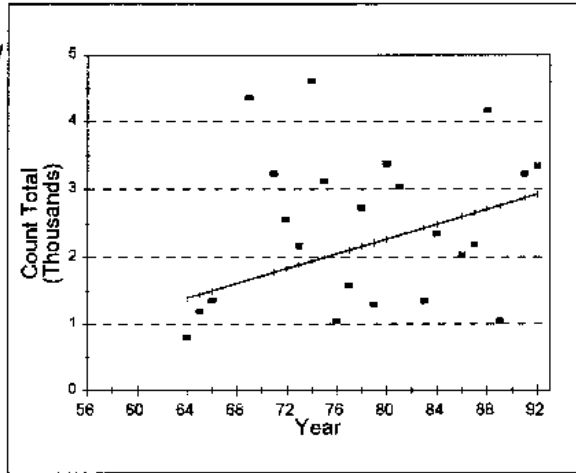
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	6083702.24	6083702.24	4.14	0.05
Residual	26.00	38162749.48	1467798.06		
Total	27.00	44246451.71			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-2123.91	2082.11	-1.02	0.32	-6403.74	2155.92
x1	54.87	26.95	2.04	0.05	-0.53	110.27

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	1332.87	-1288.87	-1.06		1.79	44
2	1716.96	-1342.96	-1.11		5.36	374
3	1607.22	-1088.22	-0.90		8.93	519
4	1552.35	-864.35	-0.71		12.50	688
5	2375.39	-1634.39	-1.35		16.07	741
6	1387.74	-591.74	-0.49		19.64	796
7	2046.17	-1000.17	-0.83		23.21	1046
8	2759.48	-1709.48	-1.41		26.79	1050
9	1442.61	-244.61	-0.20		30.36	1198
10	2210.78	-909.78	-0.75		33.93	1301
11	2430.26	-1077.26	-0.89		37.50	1353
12	1497.48	-142.48	-0.12		41.07	1355
13	2101.04	-531.04	-0.44		44.64	1570
14	2594.87	-561.87	-0.46		48.21	2033
15	1881.57	284.43	0.23		51.79	2166
16	2649.74	-462.74	-0.38		55.36	2187
17	2485.13	-143.13	-0.12		58.93	2342
18	1826.70	730.30	0.60		62.50	2557
19	2155.91	573.09	0.47		66.07	2729
20	2320.52	712.48	0.59		69.64	3033
21	1991.30	1130.70	0.93		73.21	3122
22	1771.83	1454.17	1.20		76.79	3226
23	2869.22	357.78	0.30		80.36	3227
24	2924.09	412.91	0.34		83.93	3337
25	2265.65	1110.35	0.92		87.50	3376
26	2704.61	1454.39	1.20		91.07	4159
27	1662.09	2696.91	2.23		94.64	4359
28	1936.43	2675.57	2.21		98.21	4612

Snow Goose

ANWR

3 outliers removed

Trend Slope as % of Avg =   2.50%

Regression Statistics

Multiple R	0.38
R Square	0.15
Adjusted R Square	0.12
Standard Error	795.77
Observations	35
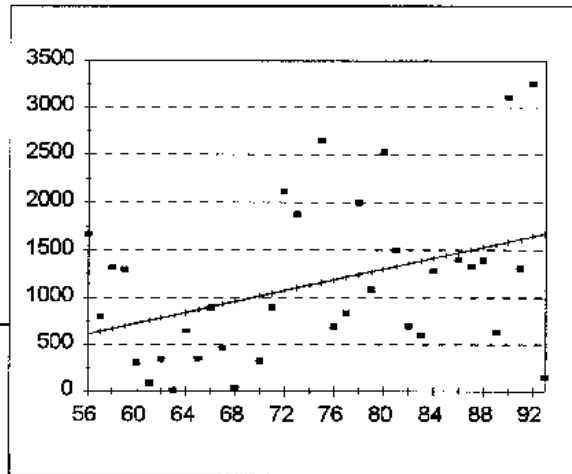
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	3604127.59	3604127.59	5.69	0.02
Residual	33.00	20897125.15	633246.22		
Total	34.00	24501252.74			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-980.26	899.48	-1.09	0.28	-2810.27	849.74
x1	28.53	11.96	2.39	0.02	4.20	52.86

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	617.37	1053.63	1.32	1.43	14
2	645.89	164.11	0.21	4.29	42
3	674.42	645.58	0.81	7.14	88
4	702.95	597.05	0.75	10.00	152
5	731.48	-418.48	-0.53	12.86	313
6	760.01	-672.01	-0.84	15.71	333
7	788.54	-441.54	-0.55	18.57	347
8	817.07	-803.07	-1.01	21.43	358
9	845.60	-195.60	-0.25	24.29	466
10	874.13	-516.13	-0.65	27.14	606
11	902.66	-12.66	-0.02	30.00	636
12	931.19	-465.19	-0.58	32.86	650
13	959.71	-917.71	-1.15	35.71	700
14	1016.77	-683.77	-0.86	38.57	700
15	1045.30	-147.30	-0.19	41.43	810
16	1073.83	1037.17	1.30	44.29	840
17	1102.36	773.64	0.97	47.14	890
18	1159.42	1491.58	1.87	50.00	898
19	1187.95	-487.95	-0.61	52.86	1082
20	1216.48	-376.48	-0.47	55.71	1279
21	1245.01	754.99	0.95	58.57	1300
22	1273.53	-191.53	-0.24	61.43	1310
23	1302.06	1223.94	1.54	64.29	1320
24	1330.59	176.41	0.22	67.14	1325
25	1359.12	-659.12	-0.83	70.00	1392
26	1387.65	-781.65	-0.98	72.86	1406
27	1416.18	-137.18	-0.17	75.71	1507
28	1473.24	-67.24	-0.08	78.57	1671
29	1501.77	-176.77	-0.22	81.43	1876
30	1530.30	-138.30	-0.17	84.29	2000
31	1558.83	-922.83	-1.16	87.14	2111
32	1587.35	1514.65	1.90	90.00	2526
33	1615.88	-305.88	-0.38	92.86	2651
34	1644.41	1606.59	2.02	95.71	3102
35	1672.94	-1520.94	-1.91	98.57	3251

Snow Goose

2 outliers removed

Trend Slope as % of Avg =   5.30%

Regression Statistics

Multiple R	0.31
R Square	0.10
Adjusted R Square	0.06
Standard Error	188.26
Observations	24.00

CCW
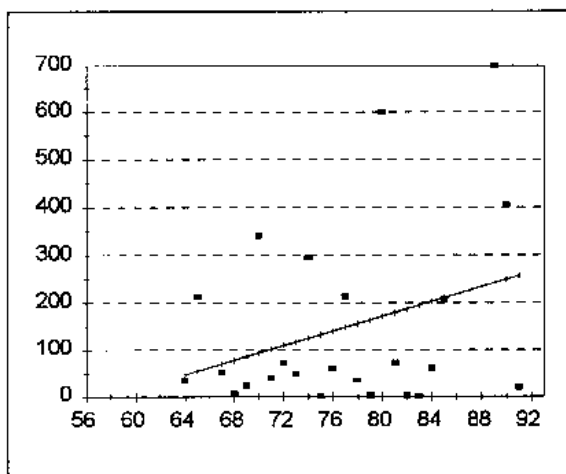
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	85128.43	85128.43	2.40	0.14
Residual	22.00	779757.52	35443.52		
Total	23.00	864885.96			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-450.15	386.93	-1.16	0.26	-1252.59	352.30
x1	7.77	5.01	1.55	0.13	-2.63	18.17

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	194.78	-193.78	-1.03	2.08	1
2	132.62	-130.62	-0.69	6.25	2
3	187.01	-184.01	-0.98	10.42	3
4	163.70	-160.70	-0.85	14.58	3
5	78.23	-70.23	-0.37	18.75	8
6	256.94	-236.94	-1.26	22.92	20
7	86.00	-62.00	-0.33	27.08	24
8	155.93	-120.93	-0.64	31.25	35
9	47.15	-12.15	-0.06	35.42	35
10	101.54	-60.54	-0.32	39.58	41
11	117.08	-67.08	-0.36	43.75	50
12	70.46	-17.46	-0.09	47.92	53
13	140.39	-80.39	-0.43	52.08	60
14	202.55	-141.55	-0.75	56.25	61
15	179.24	-107.24	-0.57	60.42	72
16	109.31	-36.31	-0.19	64.58	73
17	210.32	-3.32	-0.02	68.75	207
18	54.92	158.08	0.84	72.92	213
19	148.16	65.84	0.35	77.08	214
20	124.85	171.15	0.91	81.25	296
21	93.77	247.23	1.31	85.42	341
22	249.17	155.83	0.83	89.58	405
23	171.47	428.53	2.28	93.75	600
24	241.40	458.60	2.44	97.92	700

Canada Goose

ANWR+CCW

2 outliers removed

Trend Slope as % of Avg =   0.23%

Regression Statistics

Multiple R	0.03
R Square	0.00
Adjusted R Square	-0.04
Standard Error	1489.83
Observations	29.00
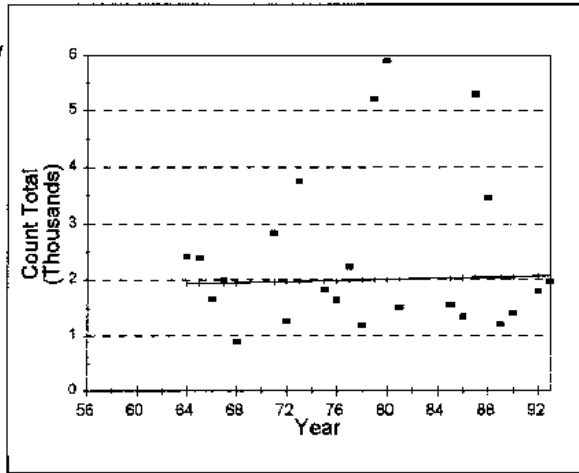
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	50237.29	50237.29	0.02	0.88
Residual	27.00	59929333.54	2219604.95		
Total	28.00	59979570.83			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	1642.75	2413.04	0.68	0.50	-3308.40	6593.89
x1	4.60	30.56	0.15	0.88	-58.10	67.29

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	2061.08	-1700.08	-1.14	1.72	361
2	2024.30	-1640.30	-1.10	5.17	384
3	1932.36	-1470.36	-0.99	8.62	462
4	2019.71	-1447.71	-0.97	12.07	572
5	2028.90	-1373.90	-0.92	15.52	655
6	1964.54	-1155.54	-0.78	18.97	809
7	1955.35	-1062.35	-0.71	22.41	893
8	2001.32	-799.32	-0.54	25.86	1202
9	2051.89	-840.89	-0.56	29.31	1211
10	1973.74	-696.74	-0.47	32.76	1277
11	2038.10	-686.10	-0.46	36.21	1352
12	2056.48	-637.48	-0.43	39.66	1419
13	2015.11	-492.11	-0.33	43.10	1523
14	2033.50	-469.50	-0.32	46.55	1564
15	1992.12	-336.12	-0.23	50.00	1656
16	1946.15	-286.15	-0.19	53.45	1660
17	2065.68	-257.68	-0.17	56.90	1808
18	1987.53	-154.53	-0.10	60.34	1833
19	2070.27	-102.27	-0.07	63.79	1968
20	1950.75	56.25	0.04	67.24	2007
21	1996.72	241.28	0.16	70.69	2238
22	1941.56	449.44	0.30	74.14	2391
23	1936.96	484.04	0.32	77.59	2421
24	1969.14	867.86	0.58	81.03	2837
25	2047.29	1409.71	0.95	84.48	3457
26	1978.33	1760.67	1.18	87.93	3739
27	2005.92	3201.08	2.15	91.38	5207
28	2042.69	3248.31	2.18	94.83	5291
29	2010.51	3890.49	2.61	98.28	5901

Canada Goose

ANWR

3 outliers removed

Trend Slope as % of Avg =   -0.96%
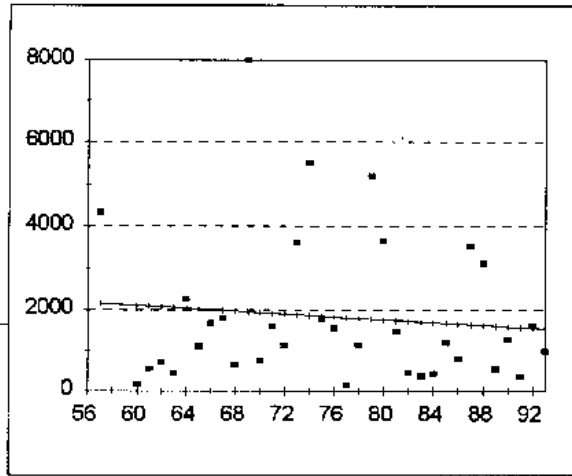
Regression Statistics

Multiple R	0.10
R Square	0.01
Adjusted R Square	-0.02
Standard Error	1795.08
Observations	35

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	1119626.63	1119626.63	0.35	0.56
Residual	33.00	106336509.65	3222318.47		
Total	34.00	107456136.29			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	3152.70	2279.24	1.38	0.18	-1484.46	7789.86
x1	-17.53	29.75	-0.59	0.56	-78.05	42.98

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	2153.28	2196.72	1.22	1.43	155
2	2100.68	-1921.68	-1.07	4.29	179
3	2083.15	-1527.15	-0.85	7.14	349
4	2065.61	-1351.61	-0.75	10.00	368
5	2048.08	-1596.08	-0.89	12.86	439
6	2030.55	209.45	0.12	15.71	447
7	2013.01	-918.01	-0.51	18.57	452
8	1995.48	-337.48	-0.19	21.43	549
9	1977.94	-185.94	-0.10	24.29	556
10	1960.41	-1310.41	-0.73	27.14	650
11	1942.88	6057.12	3.37	30.00	714
12	1925.34	-1176.34	-0.66	32.86	749
13	1907.81	-305.81	-0.17	35.71	800
14	1890.28	-783.28	-0.44	38.57	983
15	1872.74	1750.26	0.98	41.43	1095
16	1855.21	3639.79	2.03	44.29	1107
17	1837.67	-79.67	-0.04	47.14	1135
18	1820.14	-285.14	-0.16	50.00	1185
19	1802.61	-1647.61	-0.92	52.86	1262
20	1785.07	-650.07	-0.36	55.71	1450
21	1767.54	3432.46	1.91	58.57	1535
22	1750.01	1884.99	1.05	61.43	1599
23	1732.47	-282.47	-0.16	64.29	1602
24	1714.94	-1267.94	-0.71	67.14	1658
25	1697.41	-1329.41	-0.74	70.00	1758
26	1679.87	-1240.87	-0.69	72.86	1792
27	1662.34	-477.34	-0.27	75.71	2240
28	1644.80	-844.80	-0.47	78.57	3106
29	1627.27	1895.73	1.06	81.43	3523
30	1609.74	1496.26	0.83	84.29	3623
31	1592.20	-1043.20	-0.58	87.14	3635
32	1574.67	-312.67	-0.17	90.00	4350
33	1557.14	-1208.14	-0.67	92.86	5200
34	1539.60	59.40	0.03	95.71	5495
35	1522.07	-539.07	-0.30	98.57	8000

Canada Goose

1 outlier removed

Trend Slope as % of Avg =　0.73%

CCW
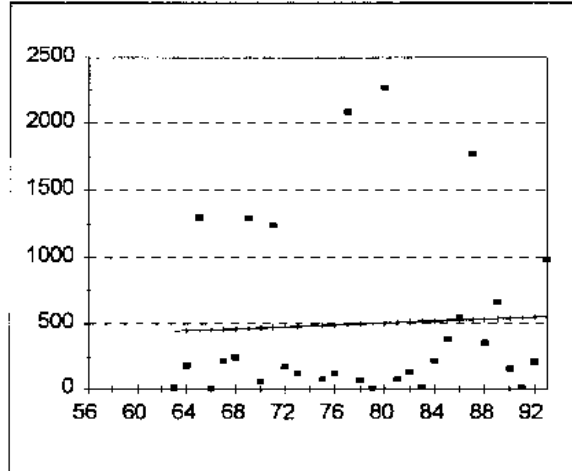
Regression Statistics

Multiple R	0.05
R Square	0.00
Adjusted R Square	-0.03
Standard Error	663.35
Observations	30.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	32230.51	32230.51	0.07	0.79
Residual	28.00	12320906.19	440032.36		
Total	29.00	12353136.70			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	215.48	1051.25	0.20	0.84	-1937.91	2368.88
x1	3.62	13.37	0.27	0.79	-23.76	30.99

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	454.21	-452.21	-0.68		1.67	2
2	501.23	-494.23	-0.75		5.00	7
3	443.36	-433.36	-0.65		8.33	10
4	544.64	-532.64	-0.80		11.67	12
5	515.70	-499.70	-0.75		15.00	16
6	468.68	-408.68	-0.62		18.33	60
7	497.62	-430.62	-0.65		21.67	67
8	508.47	-435.47	-0.66		25.00	73
9	486.77	-411.77	-0.62		28.33	75
10	479.53	-363.53	-0.55		31.67	116
11	490.38	-369.38	-0.56		35.00	121
12	512.09	-387.09	-0.58		38.33	125
13	541.02	-384.02	-0.58		41.67	157
14	475.92	-305.92	-0.46		45.00	170
15	446.98	-265.98	-0.40		48.33	181
16	548.26	-339.26	-0.51		51.67	209
17	457.83	-242.83	-0.37		55.00	215
18	519.32	-303.32	-0.46		58.33	216
19	461.45	-218.45	-0.33		61.67	243
20	533.79	-182.79	-0.28		65.00	351
21	522.94	-143.94	-0.22		68.33	379
22	526.55	25.45	0.04		71.67	552
23	537.41	124.59	0.19		75.00	662
24	551.87	433.13	0.65		78.33	985
25	472.30	762.70	1.15		81.67	1235
26	465.06	825.94	1.25		85.00	1291
27	450.60	845.40	1.27		88.33	1296
28	530.17	1237.83	1.87		91.67	1768
29	494.00	1589.00	2.40		95.00	2083
30	504.85	1761.15	2.65		98.33	2266

Wood Duck

ANWR+CCW

2 outliers removed

Trend Slope as % of Avg =   -1.64%
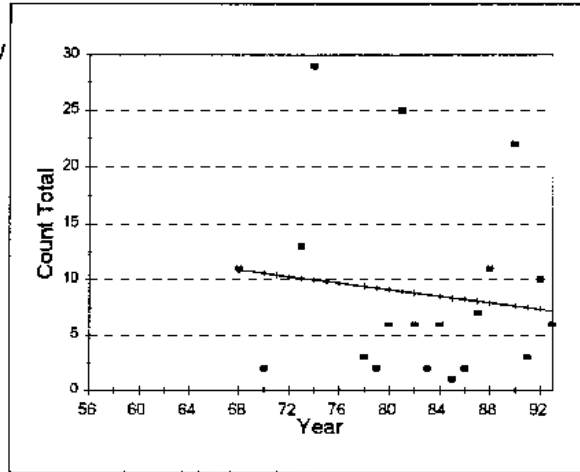
Regression Statistics

Multiple R	0.13
R Square	0.02
Adjusted R Square	-0.04
Standard Error	8.41
Observations	19.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	20.13	20.13	0.28	0.60
Residual	17.00	1201.03	70.65		
Total	18.00	1221.16			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	20.65	22.30	0.93	0.37	-26.40	67.69
x1	-0.14	0.27	-0.53	0.60	-0.71	0.43

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	8.40	-7.40	-0.88	2.63	1
2	8.26	-6.26	-0.74	7.89	2
3	9.27	-7.27	-0.86	13.16	2
4	8.69	-6.69	-0.80	18.42	2
5	10.56	-8.56	-1.02	23.68	2
6	7.54	-4.54	-0.54	28.95	3
7	9.41	-6.41	-0.76	34.21	3
8	7.25	-1.25	-0.15	39.47	6
9	8.83	-2.83	-0.34	44.74	6
10	8.55	-2.55	-0.30	50.00	6
11	9.12	-3.12	-0.37	55.26	6
12	8.11	-1.11	-0.13	60.53	7
13	7.39	2.61	0.31	65.79	10
14	7.97	3.03	0.36	71.05	11
15	10.85	0.15	0.02	76.32	11
16	10.13	2.87	0.34	81.58	13
17	7.68	14.32	1.70	86.84	22
18	8.98	16.02	1.91	92.11	25
19	9.99	19.01	2.26	97.37	29

Wood Duck

ANWR

2 outliers removed

Trend Slope as % of Avg =   -3.44%
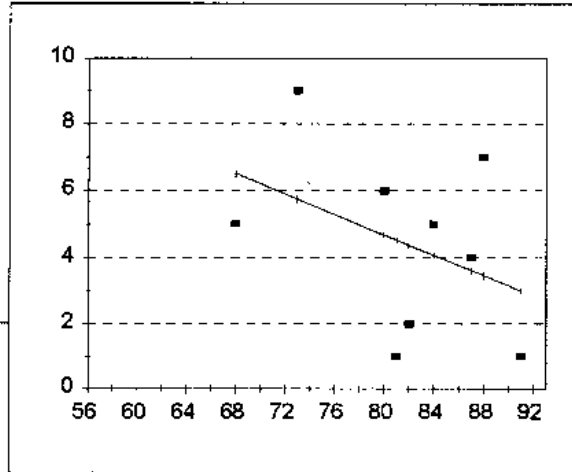
Regression Statistics

Multiple R	0.41
R Square	0.17
Adjusted R Square	0.05
Standard Error	2.68
Observations	9

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	9.98	9.98	1.39	0.28
Residual	7.00	50.24	7.18		
Total	8.00	60.22			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	16.92	10.62	1.59	0.15	-8.19	42.04
x1	-0.15	0.13	-1.18	0.27	-0.46	0.15

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	6.52	-1.52	-0.57		5.56	1
2	5.75	3.25	1.21		16.67	1
3	4.68	1.32	0.49		27.78	2
4	4.53	-3.53	-1.32		38.89	4
5	4.38	-2.38	-0.89		50.00	5
6	4.07	0.93	0.35		61.11	5
7	3.61	0.39	0.15		72.22	6
8	3.46	3.54	1.32		83.33	7
9	3.00	-2.00	-0.75		94.44	9

Wood Duck

CCW
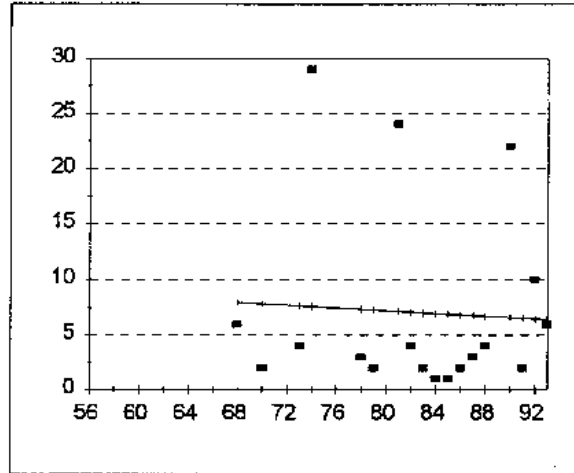
Trend Slope as % of Avg =   -0.89%

Regression Statistics

Multiple R	0.05
R Square	0.00
Adjusted R Square	-0.06
Standard Error	8.88
Observations	18.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	3.79	3.79	0.05	0.83
Residual	16.00	1261.16	78.82		
Total	17.00	1264.94			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	12.22	23.66	0.52	0.61	-37.94	62.38
x1	-0.06	0.29	-0.22	0.83	-0.67	0.54

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	6.90	-5.90	-0.66	2.78	1
2	6.96	-5.96	-0.67	8.33	1
3	7.84	-5.84	-0.66	13.89	2
4	7.02	-5.02	-0.57	19.44	2
5	6.52	-4.52	-0.51	25.00	2
6	6.83	-4.83	-0.54	30.56	2
7	7.27	-5.27	-0.59	36.11	2
8	6.77	-3.77	-0.42	41.67	3
9	7.33	-4.33	-0.49	47.22	3
10	6.71	-2.71	-0.30	52.78	4
11	7.65	-3.65	-0.41	58.33	4
12	7.08	-3.08	-0.35	63.89	4
13	7.96	-1.96	-0.22	69.44	6
14	6.39	-0.39	-0.04	75.00	6
15	6.46	3.54	0.40	80.56	10
16	6.58	15.42	1.74	86.11	22
17	7.15	16.85	1.90	91.67	24
18	7.58	21.42	2.41	97.22	29

Green-winged Teal

ANWR+CCW

1 outliers removed

Trend Slope as % of Avg =   0.36%
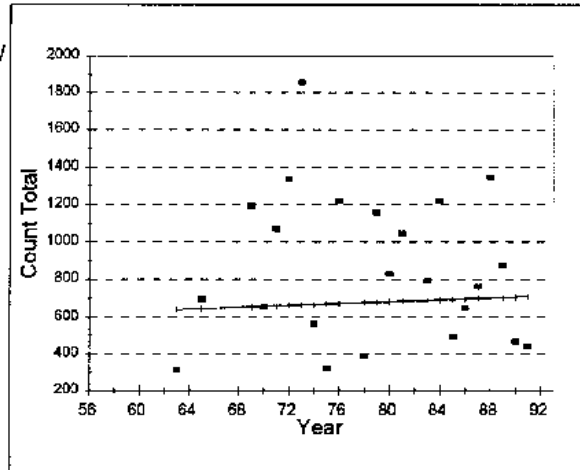
Regression Statistics

Multiple R	0.05
R Square	0.00
Adjusted R Square	-0.03
Standard Error	485.51
Observations	30.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	14517.82	14517.82	0.06	0.81
Residual	28.00	6600186.88	235720.96		
Total	29.00	6614704.70			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	489.06	766.07	0.64	0.53	-1080.17	2058.29
x1	2.42	9.75	0.25	0.81	-17.55	22.39

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	643.94	-593.94	-1.22	1.67	50
2	653.62	-585.62	-1.21	5.00	68
3	648.78	-580.78	-1.20	8.33	68
4	714.12	-618.12	-1.27	11.67	96
5	711.70	-606.70	-1.25	15.00	105
6	687.50	-560.50	-1.15	18.33	127
7	651.20	-511.20	-1.05	21.67	140
8	641.52	-328.52	-0.68	25.00	313
9	670.56	-351.56	-0.72	28.33	319
10	677.82	-288.82	-0.59	31.67	389
11	709.28	-271.28	-0.56	35.00	438
12	706.86	-239.86	-0.49	38.33	467
13	694.76	-202.76	-0.42	41.67	492
14	668.14	-105.14	-0.22	45.00	563
15	697.18	-46.18	-0.10	48.33	651
16	658.46	-4.46	-0.01	51.67	654
17	646.36	49.64	0.10	55.00	696
18	699.60	63.40	0.13	58.33	763
19	689.92	102.08	0.21	61.67	792
20	682.66	146.34	0.30	65.00	829
21	704.44	172.56	0.36	68.33	877
22	685.08	357.92	0.74	71.67	1043
23	660.88	408.12	0.84	75.00	1069
24	680.24	478.76	0.99	78.33	1159
25	656.04	536.96	1.11	81.67	1193
26	692.34	525.66	1.08	85.00	1218
27	672.98	546.02	1.12	88.33	1219
28	663.30	672.70	1.39	91.67	1336
29	702.02	643.98	1.33	95.00	1346
30	665.72	1191.28	2.45	98.33	1857

Green-winged Teal

2 outliers removed

Trend Slope as % of Avg = -0.27%
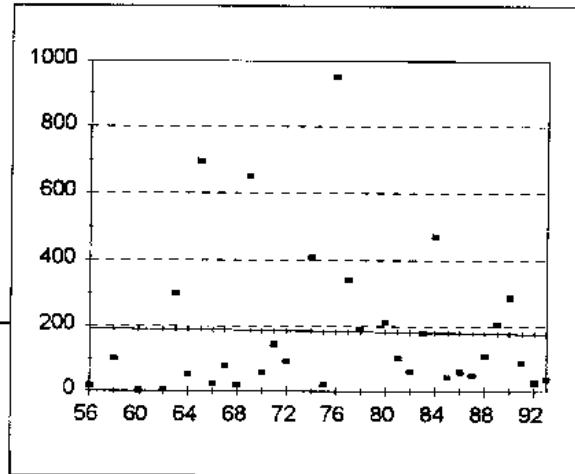
Regression Statistics

Multiple R	0.02
R Square	0.00
Adjusted R Square	-0.03
Standard Error	228.55
Observations	33

ANWR

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	907.96	907.96	0.02	0.90
Residual	31.00	1619326.28	52236.33		
Total	32.00	1620234.24			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	221.10	285.35	0.77	0.44	-360.87	803.07
x1	-0.49	3.73	-0.13	0.90	-8.09	7.11

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	193.59	-175.59	-0.77	1.52	3
2	192.60	-92.60	-0.41	4.55	5
3	191.62	-188.62	-0.83	7.58	18
4	190.64	-185.64	-0.81	10.61	19
5	190.15	109.85	0.48	13.64	21
6	189.66	-139.66	-0.61	16.67	22
7	189.16	505.84	2.21	19.70	27
8	188.67	-166.67	-0.73	22.73	37
9	188.18	-111.18	-0.49	25.76	43
10	187.69	-168.69	-0.74	28.79	48
11	187.20	462.80	2.02	31.82	50
12	186.71	-130.71	-0.57	34.85	56
13	186.22	-41.22	-0.18	37.88	60
14	185.72	-95.72	-0.42	40.91	62
15	184.74	222.26	0.97	43.94	77
16	184.25	-163.25	-0.71	46.97	89
17	183.76	767.24	3.36	50.00	90
18	183.27	155.73	0.68	53.03	100
19	182.78	8.22	0.04	56.06	102
20	181.79	30.21	0.13	59.09	107
21	181.30	-79.30	-0.35	62.12	145
22	180.81	-118.81	-0.52	65.15	178
23	180.32	-2.32	-0.01	68.18	191
24	179.83	291.17	1.27	71.21	205
25	179.34	-136.34	-0.60	74.24	212
26	178.85	-118.85	-0.52	77.27	287
27	178.35	-130.35	-0.57	80.30	300
28	177.86	-70.86	-0.31	83.33	339
29	177.37	27.63	0.12	86.36	407
30	176.88	110.12	0.48	89.39	471
31	176.39	-87.39	-0.38	92.42	650
32	175.90	-148.90	-0.65	95.45	695
33	175.41	-138.41	-0.61	98.48	951

Green-winged Teal

1 outlier removed

Trend Slope as % of Avg =   1.88%

CCW

Regression Statistics

Multiple R	0.20
R Square	0.04
Adjusted R Square	0.00
Standard Error	365.29
Observations	29.00
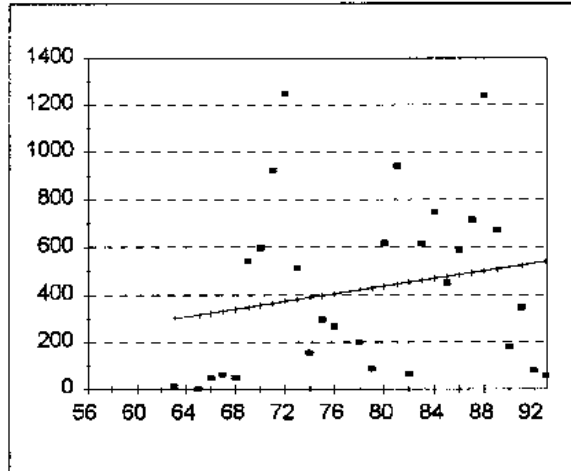
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	144914.50	144914.50	1.09	0.31
Residual	27.00	3602700.95	133433.37		
Total	28.00	3747615.45			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-201.76	605.10	-0.33	0.74	-1443.33	1039.81
x1	7.98	7.66	1.04	0.31	-7.73	23.69

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	316.98	-315.98	-0.87	1.72	1
2	301.02	-288.02	-0.79	5.17	13
3	324.97	-278.97	-0.76	8.62	46
4	340.93	-291.93	-0.80	12.07	49
5	540.44	-481.44	-1.32	15.52	59
6	332.95	-269.95	-0.74	18.97	63
7	452.66	-387.66	-1.06	22.41	65
8	532.46	-454.46	-1.24	25.86	78
9	428.71	-341.71	-0.94	29.31	87
10	388.81	-232.81	-0.64	32.76	156
11	516.50	-336.50	-0.92	36.21	180
12	420.73	-222.73	-0.61	39.66	198
13	404.77	-136.77	-0.37	43.10	268
14	396.79	-98.79	-0.27	46.55	298
15	524.48	-175.48	-0.48	50.00	349
16	476.60	-27.60	-0.08	53.45	449
17	380.83	134.17	0.37	56.90	515
18	348.91	194.09	0.53	60.34	543
19	484.58	106.42	0.29	63.79	591
20	356.89	241.11	0.66	67.24	598
21	460.64	153.36	0.42	70.69	614
22	436.70	180.30	0.49	74.14	617
23	508.52	163.48	0.45	77.59	672
24	492.56	222.44	0.61	81.03	715
25	468.62	278.38	0.76	84.48	747
26	364.87	559.13	1.53	87.93	924
27	444.68	496.32	1.36	91.38	941
28	500.54	738.46	2.02	94.83	1239
29	372.85	873.15	2.39	98.28	1246

Mottled Duck

ANWR+CCW

3 outliers removed

Trend Slope as % of Avg =   2.79%
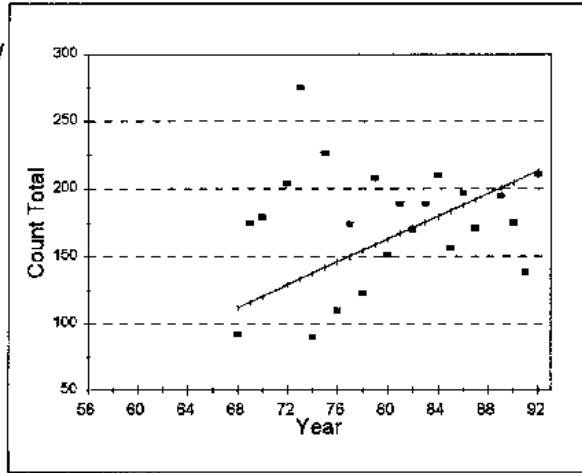
Regression Statistics

Multiple R	0.58
R Square	0.34
Adjusted R Square	0.31
Standard Error	52.87
Observations	28.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	37280.43	37280.43	13.34	0.00
Residual	26.00	72672.53	2795.10		
Total	27.00	109952.96			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-174.90	89.92	-1.95	0.06	-359.74	9.93
x1	4.22	1.16	3.65	0.00	1.84	6.59

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	107.77	-89.77	-1.70	1.79	18
2	99.33	-57.33	-1.08	5.36	42
3	90.89	-40.89	-0.77	8.93	50
4	103.55	-42.55	-0.80	12.50	61
5	95.11	-33.11	-0.63	16.07	62
6	137.30	-47.30	-0.89	19.64	90
7	111.99	-19.99	-0.38	23.21	92
8	145.74	-35.74	-0.68	26.79	110
9	154.18	-31.18	-0.59	30.36	123
10	209.02	-71.02	-1.34	33.93	138
11	162.61	-11.61	-0.22	37.50	151
12	183.71	-27.71	-0.52	41.07	156
13	171.05	-1.05	-0.02	44.64	170
14	192.15	-21.15	-0.40	48.21	171
15	149.96	24.04	0.45	51.79	174
16	116.21	58.79	1.11	55.36	175
17	204.80	-29.80	-0.56	58.93	175
18	120.42	58.58	1.11	62.50	179
19	175.27	13.73	0.26	66.07	189
20	166.83	22.17	0.42	69.64	189
21	200.59	-5.59	-0.11	73.21	195
22	187.93	9.07	0.17	76.79	197
23	128.86	75.14	1.42	80.36	204
24	158.40	49.60	0.94	83.93	208
25	179.49	30.51	0.58	87.50	210
26	213.24	-2.24	-0.04	91.07	211
27	141.52	84.48	1.60	94.64	226
28	133.08	141.92	2.68	98.21	275

Mottled Duck

ANWR

1 outlier removed

Trend Slope as % of Avg =   2.28%

Regression Statistics

Multiple R	0.34
R Square	0.11
Adjusted R Square	0.09
Standard Error	34.52
Observations	36
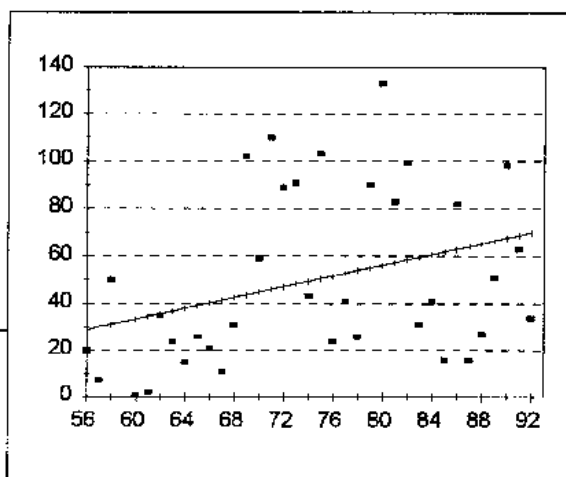
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	5167.94	5167.94	4.34	0.04
Residual	34.00	40504.37	1191.30		
Total	35.00	45672.31			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-34.87	41.08	-0.85	0.40	-118.36	48.63
x1	1.14	0.55	2.08	0.04	0.03	2.25

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	28.89	-8.89	-0.26	1.39	1
2	30.03	-23.03	-0.67	4.17	2
3	31.17	18.83	0.55	6.94	7
4	33.45	-32.45	-0.94	9.72	11
5	34.59	-32.59	-0.94	12.50	15
6	35.72	-0.72	-0.02	15.28	16
7	36.86	-12.86	-0.37	18.06	16
8	38.00	-23.00	-0.67	20.83	20
9	39.14	-13.14	-0.38	23.61	21
10	40.28	-19.28	-0.56	26.39	24
11	41.42	-30.42	-0.88	29.17	24
12	42.56	-11.56	-0.33	31.94	26
13	43.69	58.31	1.69	34.72	26
14	44.83	14.17	0.41	37.50	27
15	45.97	64.03	1.86	40.28	31
16	47.11	41.89	1.21	43.06	31
17	48.25	42.75	1.24	45.83	34
18	49.39	-6.39	-0.19	48.61	35
19	50.53	52.47	1.52	51.39	41
20	51.66	-27.66	-0.80	54.17	41
21	52.80	-11.80	-0.34	56.94	43
22	53.94	-27.94	-0.81	59.72	50
23	55.08	34.92	1.01	62.50	51
24	56.22	76.78	2.22	65.28	59
25	57.36	25.64	0.74	68.06	63
26	58.50	40.50	1.17	70.83	82
27	59.63	-28.63	-0.83	73.61	83
28	60.77	-19.77	-0.57	76.39	89
29	61.91	-45.91	-1.33	79.17	90
30	63.05	18.95	0.55	81.94	91
31	64.19	-48.19	-1.40	84.72	98
32	65.33	-38.33	-1.11	87.50	99
33	66.46	-15.46	-0.45	90.28	102
34	67.60	30.40	0.88	93.06	103
35	68.74	-5.74	-0.17	95.83	110
36	69.88	-35.88	-1.04	98.61	133

Mottled Duck

Data Corrected:
Count/(Party Hours^B)
where B = .63

1 outlier removed

Trend Slope as % of Avg =   1.42%

CCW

Regression Statistics

Multiple R	0.24
R Square	0.06
Adjusted R Square	0.02
Standard Error	3.52
Observations	30.00
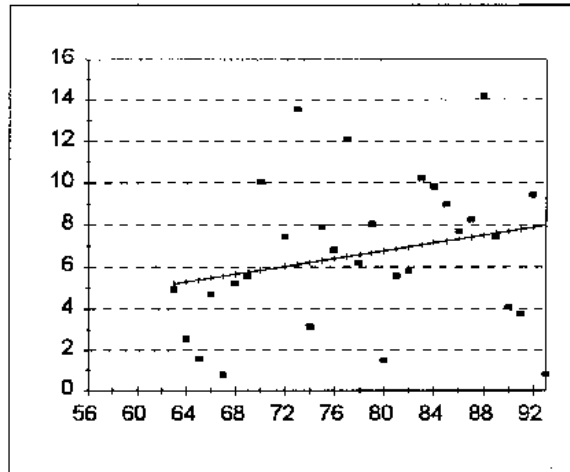
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	21.37	21.37	1.73	0.20
Residual	28.00	346.80	12.39		
Total	29.00	368.17			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-0.74	5.62	-0.13	0.90	-12.26	10.78
x1	0.09	0.07	1.31	0.20	-0.05	0.24

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	5.54	-4.77	-1.36	1.67	1
2	7.98	-7.17	-2.04	5.00	1
3	6.76	-5.29	-1.50	8.33	1
4	5.36	-3.79	-1.08	11.67	2
5	5.26	-2.74	-0.78	15.00	3
6	6.20	-3.08	-0.87	18.33	3
7	7.79	-4.04	-1.15	21.67	4
8	7.70	-3.65	-1.04	25.00	4
9	5.45	-0.76	-0.21	28.33	5
10	5.17	-0.24	-0.07	31.67	5
11	5.64	-0.45	-0.13	35.00	5
12	5.73	-0.20	-0.06	38.33	6
13	6.86	-1.31	-0.37	41.67	6
14	6.95	-1.16	-0.33	45.00	6
15	6.58	-0.39	-0.11	48.33	6
16	6.39	0.42	0.12	51.67	7
17	7.61	-0.20	-0.06	55.00	7
18	6.01	1.44	0.41	58.33	7
19	7.33	0.38	0.11	61.67	8
20	6.29	1.61	0.46	65.00	8
21	6.67	1.38	0.39	68.33	8
22	7.42	0.84	0.24	71.67	8
23	7.23	1.77	0.50	75.00	9
24	7.89	1.54	0.44	78.33	9
25	7.14	2.68	0.76	81.67	10
26	5.82	4.25	1.21	85.00	10
27	7.04	3.19	0.91	88.33	10
28	6.48	5.61	1.59	91.67	12
29	6.11	7.42	2.11	95.00	14
30	7.51	6.68	1.90	98.33	14

Mallard

ANWR+CCW

2 outliers removed

Trend Slope as % of Avg = -4.01%
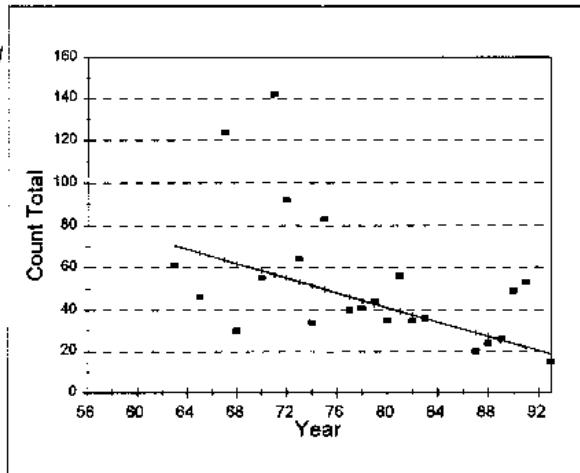
Regression Statistics

Multiple R	0.46
R Square	0.21
Adjusted R Square	0.18
Standard Error	30.35
Observations	29.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	6570.38	6570.38	7.13	0.01
Residual	27.00	24872.38	921.20		
Total	28.00	31442.76			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	179.85	51.47	3.49	0.00	74.23	285.46
x1	-1.73	0.65	-2.67	0.01	-3.07	-0.40

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	32.44	-29.44	-0.97	1.72	3
2	48.05	-44.05	-1.45	5.17	4
3	65.39	-60.39	-1.99	8.62	5
4	30.71	-19.71	-0.65	12.07	11
5	34.18	-23.18	-0.76	15.52	11
6	20.30	-6.30	-0.21	18.97	14
7	18.57	-3.57	-0.12	22.41	15
8	28.97	-8.97	-0.30	25.86	20
9	27.24	-3.24	-0.11	29.31	24
10	25.51	0.49	0.02	32.76	26
11	61.92	-31.92	-1.05	36.21	30
12	51.52	-17.52	-0.58	39.66	34
13	41.11	-6.11	-0.20	43.10	35
14	37.65	-2.65	-0.09	46.55	35
15	35.91	0.09	0.00	50.00	36
16	46.32	-6.32	-0.21	53.45	40
17	44.58	-3.58	-0.12	56.90	41
18	42.85	1.15	0.04	60.34	44
19	67.13	-21.13	-0.70	63.79	46
20	23.77	25.23	0.83	67.24	49
21	22.04	30.96	1.02	70.69	53
22	58.46	-3.46	-0.11	74.14	55
23	39.38	16.62	0.55	77.59	56
24	70.59	-9.59	-0.32	81.03	61
25	53.25	10.75	0.35	84.48	64
26	49.78	33.22	1.09	87.93	83
27	54.99	37.01	1.22	91.38	92
28	63.66	60.34	1.99	94.83	124
29	56.72	85.28	2.81	98.28	142

Mallard

2 outliers removed

Trend Slope as % of Avg =   -7.22%

Regression Statistics

Multiple R	0.40
R Square	0.16
Adjusted R Square	0.13
Standard Error	105.95
Observations	32.00

Analysis of Variance
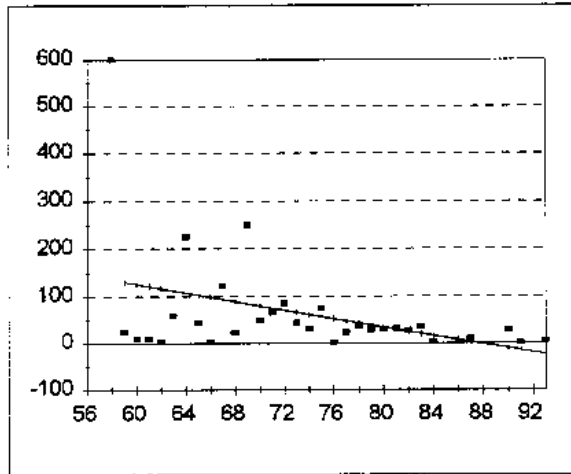
	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	63483.55	63483.55	5.65	0.02
Residual	30.00	336793.67	11226.46		
Total	31.00	400277.22			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	396.99	141.84	2.80	0.01	107.32	686.66
x1	-4.53	1.90	-2.38	0.02	-8.41	-0.64

| Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	-14.85	16.85	0.16		1.56	2
2	53.04	-51.04	-0.48		4.69	2
3	7.78	-4.78	-0.05		7.81	3
4	98.30	-95.30	-0.90		10.94	3
5	116.40	-112.40	-1.06		14.06	4
6	16.83	-12.83	-0.12		17.19	4
7	-23.90	29.90	0.28		20.31	6
8	125.45	-115.45	-1.09		23.44	10
9	120.92	-110.92	-1.05		26.56	10
10	3.26	7.74	0.07		29.69	11
11	89.24	-65.24	-0.62		32.81	24
12	48.51	-24.51	-0.23		35.94	24
13	129.98	-103.98	-0.98		39.06	26
14	25.89	2.11	0.02		42.19	28
15	39.46	-10.46	-0.10		45.31	29
16	-10.32	40.32	0.38		48.44	30
17	34.94	-4.94	-0.05		51.56	30
18	30.41	1.59	0.01		54.69	32
19	62.09	-30.09	-0.28		57.81	32
20	21.36	13.64	0.13		60.94	35
21	43.99	-6.99	-0.07		64.06	37
22	66.62	-22.62	-0.21		67.19	44
23	102.82	-57.82	-0.55		70.31	45
24	80.19	-31.19	-0.29		73.44	49
25	111.87	-51.87	-0.49		76.56	60
26	75.67	-9.67	-0.09		79.69	66
27	57.56	17.44	0.16		82.81	75
28	71.14	14.86	0.14		85.94	86
29	93.77	29.23	0.28		89.06	123
30	107.35	117.65	1.11		92.19	225
31	84.72	165.28	1.56		95.31	250
32	134.50	465.50	4.39		98.44	600

Mallard

Data Corrected:
Count/(Party Hours^B)
where B = .90

1 outlier removed

Trend Slope as % of Avg =   2.36%

CCW
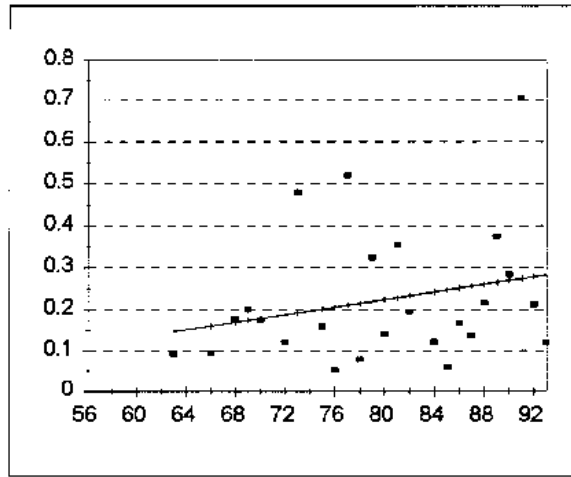
Regression Statistics

Multiple R	0.25
R Square	0.06
Adjusted R Square	0.02
Standard Error	0.16
Observations	25.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	0.04	0.04	1.50	0.23
Residual	23.00	0.58	0.03		
Total	24.00	0.61			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-0.14	0.30	-0.47	0.64	-0.75	0.48
x1	0.00	0.00	1.22	0.23	-0.00	0.01

| Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	0.21	-0.15	-0.96	2.00	0
2	0.25	-0.19	-1.18	6.00	0
3	0.21	-0.14	-0.86	10.00	0
4	0.15	-0.05	-0.34	14.00	0
5	0.16	-0.07	-0.42	18.00	0
6	0.28	-0.16	-1.04	22.00	0
7	0.24	-0.12	-0.77	26.00	0
8	0.19	-0.07	-0.42	30.00	0
9	0.26	-0.12	-0.75	34.00	0
10	0.22	-0.08	-0.53	38.00	0
11	0.20	-0.04	-0.27	42.00	0
12	0.25	-0.08	-0.52	46.00	0
13	0.18	-0.00	-0.02	50.00	0
14	0.17	0.01	0.05	54.00	0
15	0.23	-0.04	-0.24	58.00	0
16	0.17	0.03	0.17	62.00	0
17	0.28	-0.07	-0.41	66.00	0
18	0.26	-0.04	-0.27	70.00	0
19	0.27	0.01	0.09	74.00	0
20	0.22	0.10	0.66	78.00	0
21	0.23	0.13	0.80	82.00	0
22	0.26	0.11	0.70	86.00	0
23	0.19	0.29	1.82	90.00	0
24	0.21	0.31	1.96	94.00	1
25	0.27	0.43	2.74	98.00	1

N. Pintail

Data Corrected: ANWR+CCW
Count/(Party Hours)^B
where B = .43

2 outliers removed

Trend Slope as % of Avg =   -1.07%
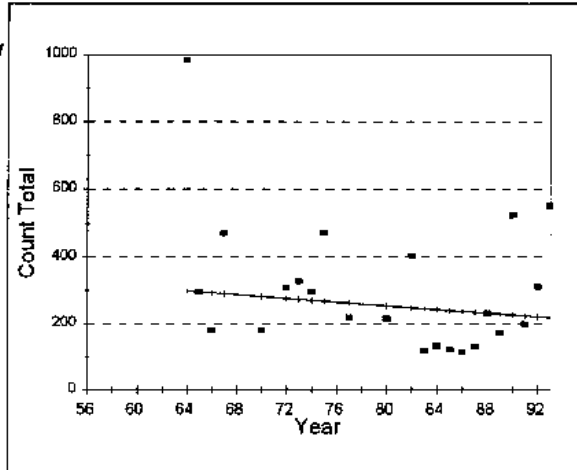
Regression Statistics

Multiple R	0.13
R Square	0.02
Adjusted R Square	-0.02
Standard Error	200.06
Observations	29.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	17919.96	17919.96	0.45	0.51
Residual	27.00	1080656.71	40024.32		
Total	28.00	1098576.68			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	476.08	326.91	1.46	0.16	-194.68	1146.84
x1	-2.77	4.13	-0.67	0.51	-11.25	5.72

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	260.28	-204.22	-1.02	1.72	56
2	301.78	-235.22	-1.18	5.17	67
3	287.95	-193.23	-0.97	8.62	95
4	251.98	-146.91	-0.73	12.07	105
5	265.81	-154.17	-0.77	15.52	112
6	257.51	-145.75	-0.73	18.97	112
7	238.15	-124.85	-0.62	22.41	113
8	246.45	-128.04	-0.64	25.86	118
9	240.91	-119.92	-0.60	29.31	121
10	235.38	-105.11	-0.53	32.76	130
11	243.68	-110.38	-0.55	36.21	133
12	229.85	-57.76	-0.29	39.66	172
13	293.48	-114.80	-0.57	43.10	179
14	282.41	-102.87	-0.51	46.55	180
15	224.32	-25.75	-0.13	50.00	199
16	254.75	-38.94	-0.19	53.45	216
17	263.05	-43.60	-0.22	56.90	219
18	232.61	-0.11	-0.00	60.34	233
19	296.25	-0.80	-0.00	63.79	295
20	271.35	24.80	0.12	67.24	296
21	276.88	31.63	0.16	70.69	309
22	221.55	89.52	0.45	74.14	311
23	274.11	53.43	0.27	77.59	328
24	249.21	155.67	0.78	81.03	405
25	290.71	179.00	0.89	84.48	470
26	268.58	203.23	1.02	87.93	472
27	227.08	296.27	1.48	91.38	523
28	218.78	333.33	1.67	94.83	552
29	299.01	685.55	3.43	98.28	985

N. Pintail

ANWR

2 outliers removed

Trend Slope as % of Avg =   -2.81%

Regression Statistics

Multiple R	0.25
R Square	0.06
Adjusted R Square	0.03
Standard Error	2885.27
Observations	36

Analysis of Variance
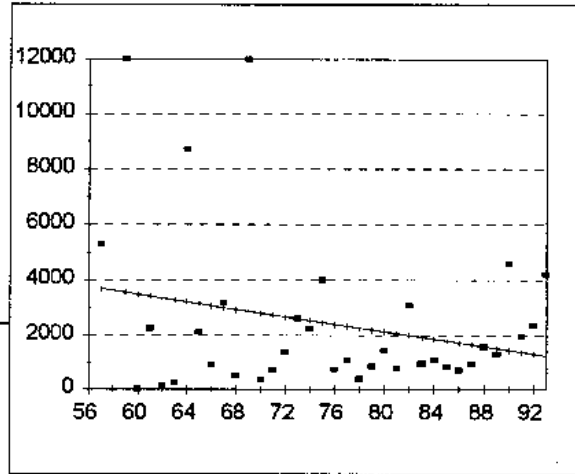
	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	18348858.86	18348858.86	2.20	0.15
Residual	34.00	283042647.14	8324783.74		
Total	35.00	301391506.00			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	7598.58	3510.67	2.16	0.04	464.05	14733.11
x1	-68.41	46.08	-1.48	0.15	-162.05	25.23

| Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	3699.32	1600.88	0.55		1.39	29
2	3562.50	8437.50	2.92		4.17	150
3	3494.09	-3465.09	-1.20		6.94	256
4	3425.68	-1164.68	-0.40		9.72	362
5	3357.28	-3207.28	-1.11		12.50	390
6	3288.87	-3032.87	-1.05		15.28	518
7	3220.46	5499.54	1.91		18.06	712
8	3152.05	-1037.05	-0.36		20.83	716
9	3083.64	-2162.64	-0.75		23.61	740
10	3015.24	184.76	0.06		26.39	769
11	2946.83	-2428.83	-0.84		29.17	841
12	2878.42	9121.58	3.16		31.94	860
13	2810.01	-2448.01	-0.85		34.72	921
14	2741.60	-2025.60	-0.70		37.50	952
15	2673.19	-1290.19	-0.45		40.28	956
16	2604.79	18.21	0.01		43.06	1053
17	2536.38	-291.38	-0.10		45.83	1086
18	2467.97	1532.03	0.53		48.61	1299
19	2399.56	-1659.56	-0.58		51.39	1383
20	2331.15	-1278.15	-0.44		54.17	1456
21	2262.75	-1872.75	-0.65		56.94	1581
22	2194.34	-1334.34	-0.46		59.72	1950
23	2125.93	-669.93	-0.23		62.50	2115
24	2057.52	-1288.52	-0.45		65.28	2245
25	1989.11	1100.89	0.38		68.06	2261
26	1920.71	-964.71	-0.33		70.83	2350
27	1852.30	-766.30	-0.27		73.61	2623
28	1783.89	-942.89	-0.33		76.39	3090
29	1715.48	-1003.48	-0.35		79.17	3200
30	1647.07	-695.07	-0.24		81.94	4000
31	1578.66	2.34	0.00		84.72	4211
32	1510.26	-211.26	-0.07		87.50	4589
33	1441.85	3147.15	1.09		90.28	5300
34	1373.44	576.56	0.20		93.06	8720
35	1305.03	1044.97	0.36		95.83	12000
36	1236.62	2974.38	1.03		98.61	12000

N. Pintail

Data Corrected:
Count/(Party Hours^B)
where B = .51

CCW

1 outlier removed

Trend Slope as % of Avg = 0.86%
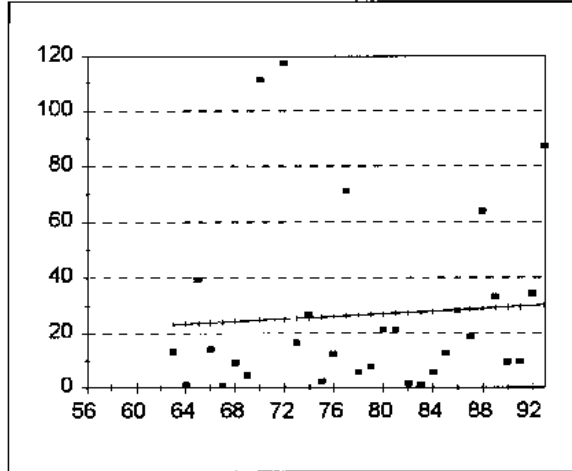
Regression Statistics

Multiple R	0.07
R Square	0.00
Adjusted R Square	-0.03
Standard Error	32.37
Observations	30.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	129.41	129.41	0.12	0.73
Residual	28.00	29336.44	1047.73		
Total	29.00	29465.85			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	8.63	51.72	0.17	0.87	-97.30	114.57
x1	0.23	0.66	0.35	0.73	-1.11	1.58

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	24.10	-23.26	-0.72		1.67	1
2	23.40	-22.47	-0.69		5.00	1
3	27.79	-26.81	-0.83		8.33	1
4	27.56	-25.98	-0.80		11.67	2
5	25.94	-23.56	-0.73		15.00	2
6	24.56	-19.97	-0.62		18.33	5
7	26.64	-21.04	-0.65		21.67	6
8	28.02	-22.33	-0.69		25.00	6
9	26.87	-19.25	-0.59		28.33	8
10	24.33	-15.22	-0.47		31.67	9
11	29.41	-20.09	-0.62		35.00	9
12	29.64	-19.99	-0.62		38.33	10
13	26.17	-13.85	-0.43		41.67	12
14	28.25	-15.46	-0.48		45.00	13
15	23.17	-9.90	-0.31		48.33	13
16	23.87	-9.75	-0.30		51.67	14
17	25.48	-9.04	-0.28		55.00	16
18	28.71	-10.08	-0.31		58.33	19
19	27.10	-5.98	-0.18		61.67	21
20	27.33	-5.93	-0.18		65.00	21
21	25.71	1.23	0.04		68.33	27
22	28.48	-0.34	-0.01		71.67	28
23	29.17	3.97	0.12		75.00	33
24	29.87	4.32	0.13		78.33	34
25	23.64	15.53	0.48		81.67	39
26	28.94	34.90	1.08		85.00	64
27	26.41	44.63	1.38		88.33	71
28	30.10	57.02	1.76		91.67	87
29	24.79	86.41	2.67		95.00	111
30	25.25	92.27	2.85		98.33	118

Blue-winged Teal

ANWR+CCW

2 outliers removed

Trend Slope as % of Avg =   0.59%
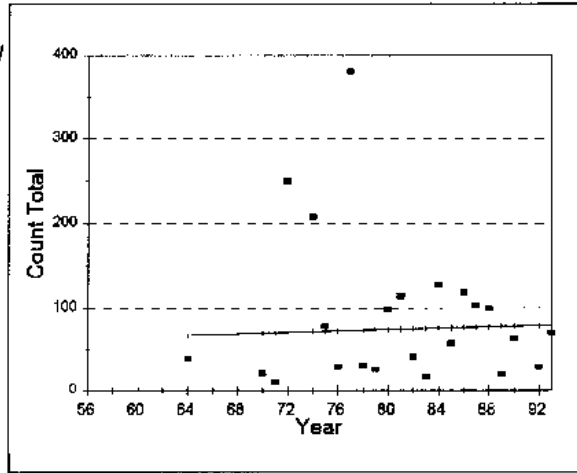
Regression Statistics

Multiple R	0.04
R Square	0.00
Adjusted R Square	-0.04
Standard Error	87.34
Observations	28.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	386.58	386.58	0.05	0.82
Residual	26.00	198348.28	7628.78		
Total	27.00	198734.86			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	38.95	154.68	0.25	0.80	-278.99	356.89
x1	0.44	1.94	0.23	0.82	-3.56	4.43

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	67.81	-63.81	-0.73		1.79	4
2	68.25	-64.25	-0.74		5.36	4
3	78.74	-72.74	-0.83		8.93	6
4	69.12	-61.12	-0.70		12.50	8
5	68.68	-59.68	-0.68		16.07	9
6	70.00	-60.00	-0.69		19.64	10
7	75.24	-58.24	-0.67		23.21	17
8	77.87	-57.87	-0.66		26.79	20
9	69.56	-48.56	-0.56		30.36	21
10	73.49	-47.49	-0.54		33.93	26
11	72.18	-43.18	-0.49		37.50	29
12	79.18	-50.18	-0.57		41.07	29
13	73.06	-43.06	-0.49		44.64	30
14	66.93	-27.93	-0.32		48.21	39
15	74.81	-33.81	-0.39		51.79	41
16	76.12	-19.12	-0.22		55.36	57
17	78.30	-15.30	-0.18		58.93	63
18	79.61	-9.61	-0.11		62.50	70
19	71.74	6.26	0.07		66.07	78
20	73.93	24.07	0.28		69.64	98
21	77.43	22.57	0.26		73.21	100
22	76.99	26.01	0.30		76.79	103
23	74.37	39.63	0.45		80.36	114
24	76.55	41.45	0.47		83.93	118
25	75.68	51.32	0.59		87.50	127
26	71.31	136.69	1.57		91.07	208
27	70.43	179.57	2.06		94.64	250
28	72.62	308.38	3.53		98.21	381

Blue-winged Teal

1 outlier removed

Trend Slope as % of Avg =   -4.50%

ANWR
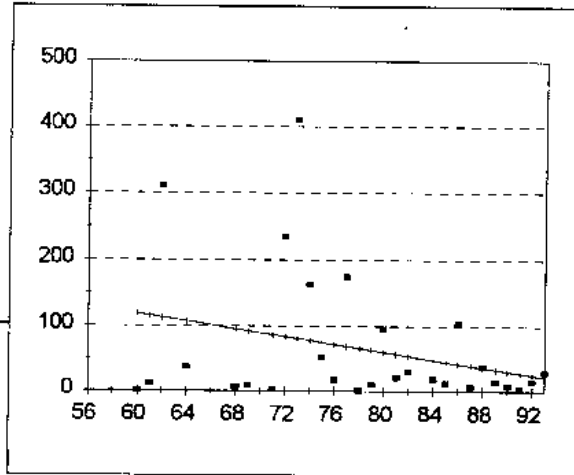
Regression Statistics

Multiple R	0.28
R Square	0.08
Adjusted R Square	0.04
Standard Error	100.36
Observations	28

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	22673.92	22673.92	2.25	0.15
Residual	26.00	261862.18	10071.62		
Total	27.00	284536.11			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	296.31	154.87	1.91	0.07	-22.04	614.65
x1	-2.95	1.97	-1.50	0.15	-7.00	1.09

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	119.14	-118.14	-1.18		1.79	1
2	116.19	-105.19	-1.05		5.36	1
3	113.24	196.76	1.96		8.93	3
4	107.33	-70.33	-0.70		12.50	5
5	95.52	-88.52	-0.88		16.07	7
6	92.57	-84.57	-0.84		19.64	7
7	86.66	-83.66	-0.83		23.21	8
8	83.71	150.29	1.50		26.79	8
9	80.76	329.24	3.28		30.36	10
10	77.81	85.19	0.85		33.93	11
11	74.85	-22.85	-0.23		37.50	13
12	71.90	-53.90	-0.54		41.07	15
13	68.95	105.05	1.05		44.64	15
14	65.99	-64.99	-0.65		48.21	18
15	63.04	-53.04	-0.53		51.79	19
16	60.09	35.91	0.36		55.36	21
17	57.14	-36.14	-0.36		58.93	29
18	54.18	-24.18	-0.24		62.50	30
19	48.28	-29.28	-0.29		66.07	37
20	45.33	-32.33	-0.32		69.64	38
21	42.37	61.63	0.61		73.21	52
22	39.42	-32.42	-0.32		76.79	96
23	36.47	1.53	0.02		80.36	104
24	33.52	-18.52	-0.18		83.93	163
25	30.56	-22.56	-0.22		87.50	174
26	27.61	-22.61	-0.23		91.07	234
27	24.66	-9.66	-0.10		94.64	310
28	21.70	7.30	0.07		98.21	410

Blue-winged Teal

CCW

1 outlier removed

Trend Slope as % of Avg =   4.69%

Regression Statistics

Multiple R	0.39
R Square	0.15
Adjusted R Square	0.12
Standard Error	28.56
Observations	28.00
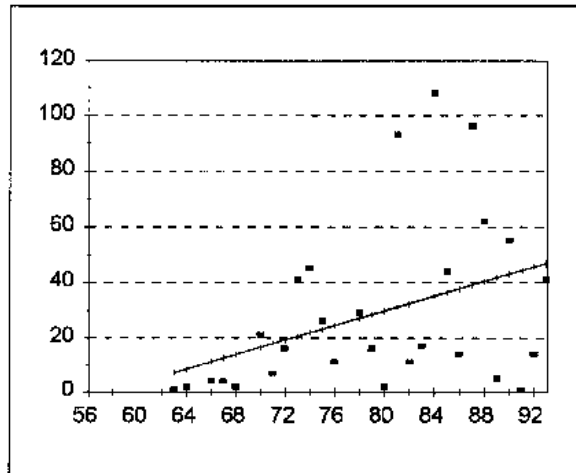
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	3854.52	3854.52	4.73	0.04
Residual	26.00	21202.91	815.50		
Total	27.00	25057.43			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-75.95	48.18	-1.58	0.13	-174.99	23.09
x1	1.32	0.61	2.17	0.04	0.07	2.57

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	44.23	-43.23	-1.51	1.79	1
2	7.25	-6.25	-0.22	5.36	1
3	8.57	-6.57	-0.23	8.93	2
4	29.70	-27.70	-0.97	12.50	2
5	13.85	-11.85	-0.42	16.07	2
6	12.53	-8.53	-0.30	19.64	4
7	11.21	-7.21	-0.25	23.21	4
8	41.58	-36.58	-1.28	26.79	5
9	17.81	-10.81	-0.38	30.36	7
10	32.34	-21.34	-0.75	33.93	11
11	24.42	-13.42	-0.47	37.50	11
12	45.55	-31.55	-1.10	41.07	14
13	37.62	-23.62	-0.83	44.64	14
14	19.13	-3.13	-0.11	48.21	16
15	28.38	-12.38	-0.43	51.79	16
16	33.66	-16.66	-0.58	55.36	17
17	16.49	4.51	0.16	58.93	21
18	23.10	2.90	0.10	62.50	26
19	27.06	1.94	0.07	66.07	29
20	46.87	-5.87	-0.21	69.64	41
21	20.45	20.55	0.72	73.21	41
22	36.30	7.70	0.27	76.79	44
23	21.78	23.22	0.81	80.36	45
24	42.91	12.09	0.42	83.93	55
25	40.26	21.74	0.76	87.50	62
26	31.02	61.98	2.17	91.07	93
27	38.94	57.06	2.00	94.64	96
28	34.98	73.02	2.56	98.21	108

Cinnamon Teal

ANWR+CCW

2 outliers removed

Trend Slope as % of Avg =   -2.20%
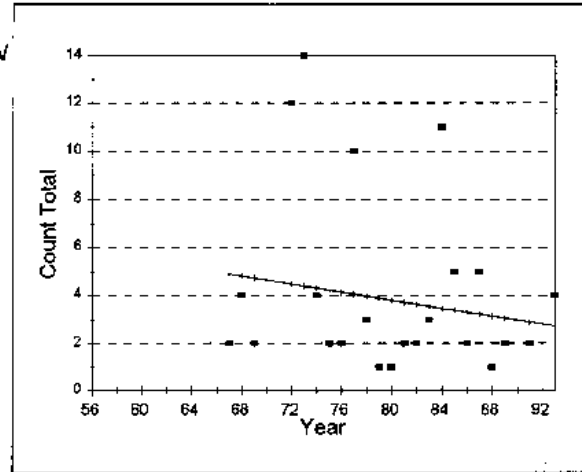
Regression Statistics

Multiple R	0.19
R Square	0.04
Adjusted R Square	-0.01
Standard Error	3.71
Observations	26.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	12.01	12.01	0.87	0.36
Residual	24.00	330.03	13.75		
Total	25.00	342.04			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	10.52	7.22	1.46	0.16	-4.38	25.41
x1	-0.08	0.09	-0.93	0.36	-0.27	0.10

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	5.16	-4.16	-1.12	1.92	1
2	2.81	-1.81	-0.49	5.77	1
3	2.98	-1.98	-0.53	9.62	1
4	3.90	-2.90	-0.78	13.46	1
5	3.82	-2.82	-0.76	17.31	1
6	3.15	-2.15	-0.58	21.15	1
7	4.91	-2.91	-0.78	25.00	2
8	3.31	-1.31	-0.35	28.85	2
9	3.06	-1.06	-0.29	32.69	2
10	4.74	-2.74	-0.74	36.54	2
11	3.73	-1.73	-0.47	40.38	2
12	4.15	-2.15	-0.58	44.23	2
13	3.65	-1.65	-0.44	48.08	2
14	2.90	-0.90	-0.24	51.92	2
15	4.24	-2.24	-0.60	55.77	2
16	3.57	-0.57	-0.15	59.62	3
17	3.98	-0.98	-0.27	63.46	3
18	2.73	1.27	0.34	67.31	4
19	4.82	-0.82	-0.22	71.15	4
20	4.32	-0.32	-0.09	75.00	4
21	3.23	1.77	0.48	78.85	5
22	3.40	1.60	0.43	82.69	5
23	4.07	5.93	1.60	86.54	10
24	3.48	7.52	2.03	90.38	11
25	4.49	7.51	2.03	94.23	12
26	4.40	9.60	2.59	98.08	14

Cinnamon Teal

ANWR

Trend Slope as % of Avg =   2.26%

Regression Statistics

Multiple R	0.14
R Square	0.02
Adjusted R Square	-0.12
Standard Error	2.95
Observations	9
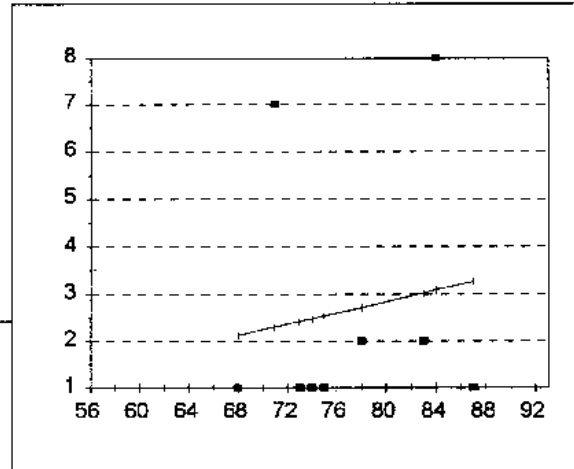
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	1.20	1.20	0.14	0.72
Residual	7.00	60.80	8.69		
Total	8.00	62.00			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-1.97	12.49	-0.16	0.88	-31.51	27.57
x1	0.06	0.16	0.37	0.72	-0.32	0.44

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	2.12	-1.12	-0.38	5.56	1
2	2.31	4.69	1.59	16.67	1
3	2.43	-1.43	-0.48	27.78	1
4	2.49	-1.49	-0.50	38.89	1
5	2.55	-1.55	-0.52	50.00	1
6	2.73	-0.73	-0.25	61.11	2
7	3.03	-1.03	-0.35	72.22	2
8	3.09	4.91	1.67	83.33	7
9	3.27	-2.27	-0.77	94.44	8

Cinnamon Teal

2 outliers removed

Trend Slope as % of Avg =   -2.82%

Regression Statistics

Multiple R	0.22
R Square	0.05
Adjusted R Square	0.01
Standard Error	3.33
Observations	26.00

CCW
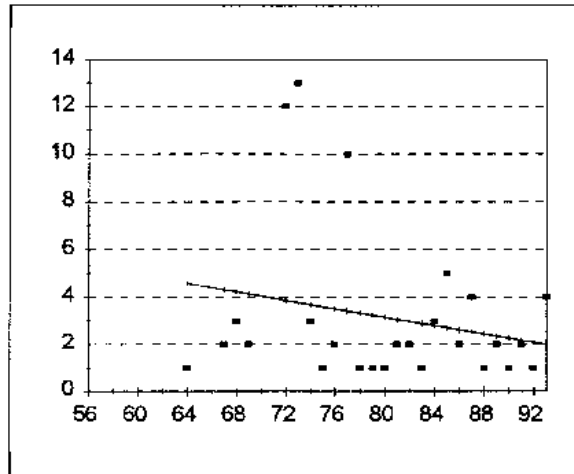
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	13.57	13.57	1.23	0.28
Residual	24.00	265.81	11.08		
Total	25.00	279.38			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	10.29	6.48	1.59	0.12	-3.08	23.65
x1	-0.09	0.08	-1.11	0.28	-0.25	0.08

| Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	2.90	-1.90	-0.57	1.92	1
2	2.45	-1.45	-0.44	5.77	1
3	4.59	-3.59	-1.08	9.62	1
4	2.10	-1.10	-0.33	13.46	1
5	3.16	-2.16	-0.65	17.31	1
6	3.25	-2.25	-0.68	21.15	1
7	3.61	-2.61	-0.78	25.00	1
8	2.27	-1.27	-0.38	28.85	1
9	3.34	-2.34	-0.70	32.69	1
10	2.36	-0.36	-0.11	36.54	2
11	3.08	-1.08	-0.32	40.38	2
12	3.52	-1.52	-0.46	44.23	2
13	4.14	-2.14	-0.64	48.08	2
14	2.63	-0.63	-0.19	51.92	2
15	2.99	-0.99	-0.30	55.77	2
16	4.32	-2.32	-0.70	59.62	2
17	2.18	-0.18	-0.06	63.46	2
18	3.70	-0.70	-0.21	67.31	3
19	4.23	-1.23	-0.37	71.15	3
20	2.81	0.19	0.06	75.00	3
21	2.01	1.99	0.60	78.85	4
22	2.54	1.46	0.44	82.69	4
23	2.72	2.28	0.69	86.54	5
24	3.43	6.57	1.97	90.38	10
25	3.88	8.12	2.44	94.23	12
26	3.79	9.21	2.77	98.08	13

N. Shoveler

Data Corrected: ANWR+CCW
Count/(Party Hours)^B
where B = .83

3 outliers removed

Trend Slope as % of Avg =   1.59%
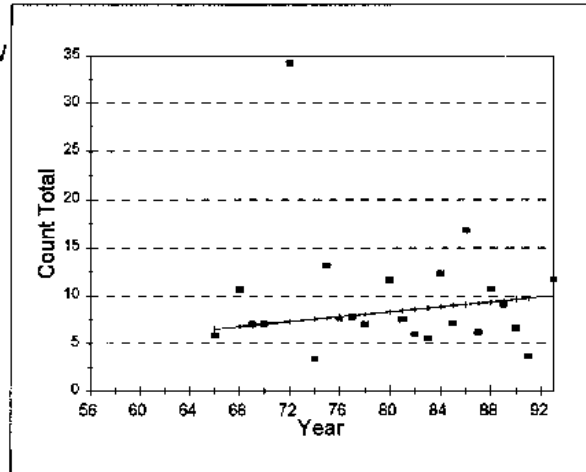
Regression Statistics

Multiple R	0.18
R Square	0.03
Adjusted R Square	-0.00
Standard Error	6.48
Observations	28.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	36.35	36.35	0.87	0.36
Residual	26.00	1090.42	41.94		
Total	27.00	1126.77			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-1.91	10.81	-0.18	0.86	-24.12	20.30
x1	0.13	0.14	0.93	0.36	-0.15	0.41

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	6.30	-6.06	-0.94	1.79	0
2	6.68	-5.55	-0.86	5.36	1
3	6.43	-4.76	-0.73	8.93	2
4	8.22	-6.08	-0.94	12.50	2
5	6.17	-3.61	-0.56	16.07	3
6	7.58	-4.19	-0.65	19.64	3
7	9.76	-6.10	-0.94	23.21	4
8	8.73	-3.23	-0.50	26.79	6
9	6.55	-0.70	-0.11	30.36	6
10	8.61	-2.62	-0.40	33.93	6
11	9.25	-3.08	-0.48	37.50	6
12	9.63	-3.00	-0.46	41.07	7
13	8.09	-1.07	-0.17	44.64	7
14	6.94	0.12	0.02	48.21	7
15	7.07	0.02	0.00	51.79	7
16	8.99	-1.84	-0.28	55.36	7
17	8.48	-0.95	-0.15	58.93	8
18	7.84	-0.18	-0.03	62.50	8
19	7.96	-0.16	-0.02	66.07	8
20	9.50	-0.42	-0.06	69.64	9
21	6.81	3.82	0.59	73.21	11
22	9.38	1.29	0.20	76.79	11
23	8.35	3.29	0.51	80.36	12
24	10.02	1.63	0.25	83.93	12
25	8.86	3.42	0.53	87.50	12
26	7.71	5.43	0.84	91.07	13
27	9.12	7.66	1.18	94.64	17
28	7.32	26.91	4.15	98.21	34

N. Shoveler

ANWR

1 outlier removed

Trend Slope as % of Avg = -0.14%
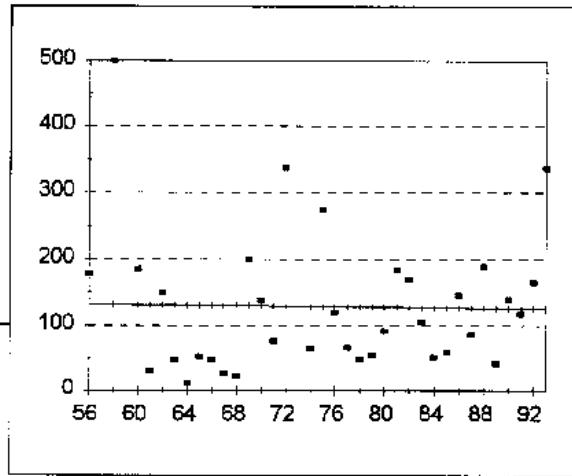
Regression Statistics

Multiple R	0.02
R Square	0.00
Adjusted R Square	-0.03
Standard Error	106.67
Observations	35

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	124.85	124.85	0.01	0.92
Residual	33.00	375502.12	11378.85		
Total	34.00	375626.97			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	142.33	128.80	1.11	0.28	-119.71	404.37
x1	-0.18	1.69	-0.10	0.92	-3.61	3.26

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	132.42	45.58	0.43	1.43	12
2	132.07	367.93	3.45	4.29	23
3	131.71	53.29	0.50	7.14	26
4	131.53	-101.53	-0.95	10.00	30
5	131.36	18.64	0.17	12.86	42
6	131.18	-83.18	-0.78	15.71	47
7	131.00	-119.00	-1.12	18.57	48
8	130.83	-77.83	-0.73	21.43	48
9	130.65	-83.65	-0.78	24.29	52
10	130.47	-104.47	-0.98	27.14	53
11	130.30	-107.30	-1.01	30.00	55
12	130.12	69.88	0.66	32.86	60
13	129.94	8.06	0.08	35.71	64
14	129.77	-53.77	-0.50	38.57	66
15	129.59	207.41	1.94	41.43	76
16	129.23	-65.23	-0.61	44.29	86
17	129.06	143.94	1.35	47.14	92
18	128.88	-8.88	-0.08	50.00	105
19	128.70	-62.70	-0.59	52.86	118
20	128.53	-80.53	-0.75	55.71	120
21	128.35	-73.35	-0.69	58.57	138
22	128.17	-36.17	-0.34	61.43	140
23	128.00	56.00	0.53	64.29	146
24	127.82	41.18	0.39	67.14	150
25	127.64	-22.64	-0.21	70.00	165
26	127.46	-75.46	-0.71	72.86	169
27	127.29	-67.29	-0.63	75.71	178
28	127.11	18.89	0.18	78.57	184
29	126.93	-40.93	-0.38	81.43	185
30	126.76	62.24	0.58	84.29	189
31	126.58	-84.58	-0.79	87.14	200
32	126.40	13.60	0.13	90.00	273
33	126.23	-8.23	-0.08	92.86	337
34	126.05	38.95	0.37	95.71	337
35	125.87	211.13	1.98	98.57	500

N. Shoveler

1 outlier removed

.

Trend Slope as % of Avg =   1.48%

Regression Statistics

Multiple R	0.12
R Square	0.01
Adjusted R Square	-0.02
Standard Error	518.43
Observations	30.00

CCW
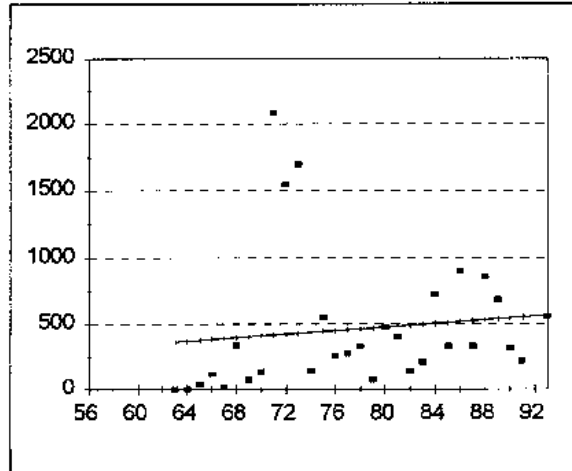
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	105901.49	105901.49	0.39	0.54
Residual	28.00	7525415.31	268764.83		
Total	29.00	7631316.80			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-68.91	847.57	-0.08	0.94	-1805.07	1667.26
x1	6.82	10.86	0.63	0.54	-15.43	29.07

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	360.70	-359.70	-0.69	1.67	1
2	367.52	-363.52	-0.70	5.00	4
3	387.97	-367.97	-0.71	8.33	20
4	374.33	-334.33	-0.64	11.67	40
5	401.61	-330.61	-0.64	15.00	71
6	469.80	-397.80	-0.77	18.33	72
7	381.15	-265.15	-0.51	21.67	116
8	408.43	-274.43	-0.53	25.00	134
9	490.26	-354.26	-0.68	28.33	136
10	435.71	-293.71	-0.57	31.67	142
11	497.08	-286.08	-0.55	35.00	211
12	551.63	-335.63	-0.65	38.33	216
13	449.34	-196.34	-0.38	41.67	253
14	456.16	-183.16	-0.35	45.00	273
15	544.81	-227.81	-0.44	48.33	317
16	524.35	-196.35	-0.38	51.67	328
17	510.72	-181.72	-0.35	55.00	329
18	462.98	-132.98	-0.26	58.33	330
19	394.79	-60.79	-0.12	61.67	334
20	483.44	-82.44	-0.16	65.00	401
21	476.62	-1.62	-0.00	68.33	475
22	442.53	106.47	0.21	71.67	549
23	565.27	-9.27	-0.02	75.00	556
24	537.99	146.01	0.28	78.33	684
25	503.90	221.10	0.43	81.67	725
26	531.17	325.83	0.63	85.00	857
27	517.53	380.47	0.73	88.33	898
28	422.07	1123.93	2.17	91.67	1546
29	428.89	1266.11	2.44	95.00	1695
30	415.25	1665.75	3.21	98.33	2081

Gadwall

ANWR+CCW

2 outliers removed

Trend Slope as % of Avg = -0.12%
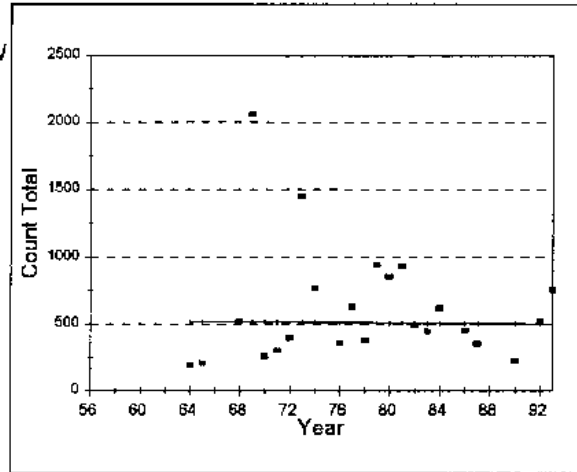
Regression Statistics

Multiple R	0.01
R Square	0.00
Adjusted R Square	-0.04
Standard Error	443.48
Observations	29.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	827.20	827.20	0.00	0.95
Residual	27.00	5310146.24	196672.08		
Total	28.00	5310973.45			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	558.81	713.22	0.78	0.44	-904.60	2022.21
x1	-0.59	9.11	-0.06	0.95	-19.28	18.10

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	519.22	-480.22	-1.08	1.72	39
2	521.58	-441.58	-1.00	5.17	80
3	508.58	-384.58	-0.87	8.62	124
4	506.22	-367.22	-0.83	12.07	139
5	505.04	-345.04	-0.78	15.52	160
6	519.81	-339.81	-0.77	18.97	180
7	520.99	-330.99	-0.75	22.41	190
8	520.40	-311.40	-0.70	25.86	209
9	505.63	-278.63	-0.63	29.31	227
10	517.45	-261.45	-0.59	32.76	256
11	516.86	-215.86	-0.49	36.21	301
12	507.40	-149.40	-0.34	39.66	358
13	513.90	-152.90	-0.34	43.10	361
14	512.72	-136.72	-0.31	46.55	376
15	516.26	-117.26	-0.26	50.00	399
16	509.77	-60.77	-0.14	53.45	449
17	507.99	-48.99	-0.11	56.90	459
18	510.36	-15.36	-0.03	60.34	495
19	504.45	16.55	0.04	63.79	521
20	518.63	3.37	0.01	67.24	522
21	509.17	113.83	0.26	70.69	623
22	513.31	123.69	0.28	74.14	637
23	503.86	253.14	0.57	77.59	757
24	515.08	255.92	0.58	81.03	771
25	511.54	345.46	0.78	84.48	857
26	510.95	419.05	0.94	87.93	930
27	512.13	432.87	0.98	91.38	945
28	515.67	935.33	2.11	94.83	1451
29	518.04	1538.96	3.47	98.28	2057

Gadwall

ANWR

3 outliers removed

Trend Slope as % of Avg =   0.17%

Regression Statistics

Multiple R	0.02
R Square	0.00
Adjusted R Square	-0.03
Standard Error	287.06
Observations	35
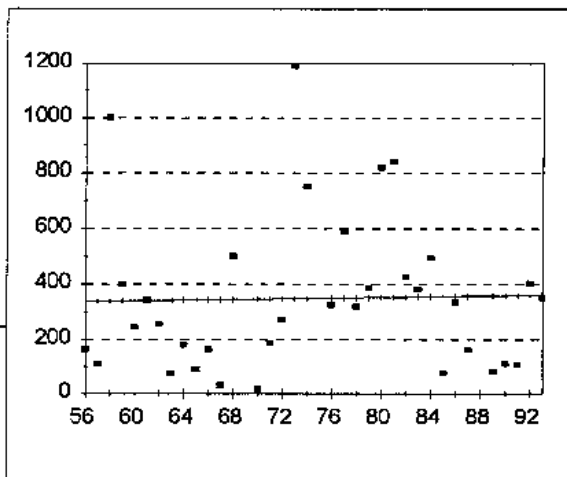
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	1538.60	1538.60	0.02	0.89
Residual	33.00	2719220.37	82400.62		
Total	34.00	2720758.97			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	304.03	326.64	0.93	0.36	-360.52	968.59
x1	0.59	4.35	0.14	0.89	-8.26	9.44

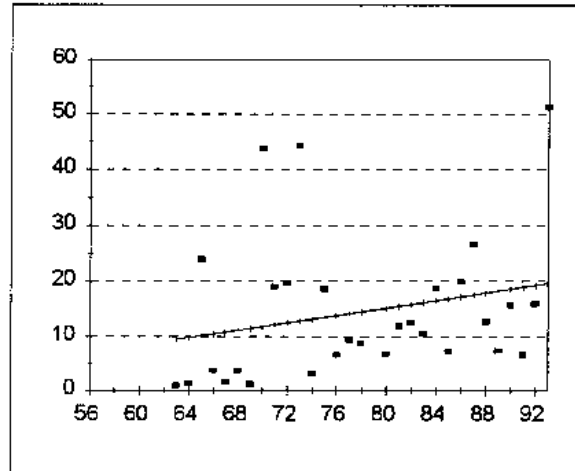| Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	337.32	-173.32	-0.60	1.43	19
2	337.91	-227.91	-0.79	4.29	32
3	338.51	661.49	2.30	7.14	77
4	339.10	60.90	0.21	10.00	77
5	339.70	-94.70	-0.33	12.86	83
6	340.29	1.71	0.01	15.71	92
7	340.89	-83.89	-0.29	18.57	109
8	341.48	-264.48	-0.92	21.43	110
9	342.07	-162.07	-0.56	24.29	110
10	342.67	-250.67	-0.87	27.14	161
11	343.26	-179.26	-0.62	30.00	164
12	343.86	-311.86	-1.09	32.86	164
13	344.45	157.55	0.55	35.71	180
14	345.64	-326.64	-1.14	38.57	186
15	346.24	-160.24	-0.56	41.43	245
16	346.83	-74.83	-0.26	44.29	257
17	347.42	840.58	2.93	47.14	272
18	348.02	402.98	1.40	50.00	319
19	349.21	-25.21	-0.09	52.86	324
20	349.80	239.20	0.83	55.71	333
21	350.40	-31.40	-0.11	58.57	342
22	350.99	35.01	0.12	61.43	350
23	351.59	468.41	1.63	64.29	381
24	352.18	488.82	1.70	67.14	386
25	352.77	73.23	0.26	70.00	400
26	353.37	27.63	0.10	72.86	403
27	353.96	139.04	0.48	75.71	426
28	354.56	-277.56	-0.97	78.57	493
29	355.15	-22.15	-0.08	81.43	502
30	355.75	-194.75	-0.68	84.29	589
31	356.93	-273.93	-0.95	87.14	751
32	357.53	-247.53	-0.86	90.00	820
33	358.12	-249.12	-0.87	92.86	841
34	358.72	44.28	0.15	95.71	1000
35	359.31	-9.31	-0.03	98.57	1188

Gadwall

Data Corrected:
Count/(Party Hours^B)
where B = .43

1 outlier removed

Trend Slope as % of Avg =   2.33%

Regression Statistics

Multiple R	0.24
R Square	0.06
Adjusted R Square	0.02
Standard Error	12.82
Observations	30.00

CCW

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	280.60	280.60	1.71	0.20
Residual	28.00	4598.73	164.24		
Total	29.00	4879.33			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-11.80	20.20	-0.58	0.56	-53.19	29.58
x1	0.34	0.26	1.31	0.20	-0.19	0.86

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	9.39	-8.43	-0.66	1.67	1
2	11.41	-10.21	-0.80	5.00	1
3	9.73	-8.37	-0.65	8.33	1
4	10.74	-9.18	-0.72	11.67	2
5	13.09	-9.95	-0.78	15.00	3
6	10.40	-6.70	-0.52	18.33	4
7	11.08	-7.36	-0.57	21.67	4
8	13.77	-7.21	-0.56	25.00	7
9	18.81	-12.21	-0.95	28.33	7
10	15.11	-8.40	-0.66	31.67	7
11	16.79	-9.58	-0.75	35.00	7
12	18.14	-10.75	-0.84	38.33	7
13	14.44	-5.73	-0.45	41.67	9
14	14.10	-4.76	-0.37	45.00	9
15	16.12	-5.62	-0.44	48.33	11
16	15.45	-3.56	-0.28	51.67	12
17	15.79	-3.31	-0.26	55.00	12
18	17.80	-5.15	-0.40	58.33	13
19	18.48	-2.79	-0.22	61.67	16
20	19.15	-3.20	-0.25	65.00	16
21	13.43	5.16	0.40	68.33	19
22	16.46	2.19	0.17	71.67	19
23	12.08	6.90	0.54	75.00	19
24	12.42	7.20	0.56	78.33	20
25	17.13	2.78	0.22	81.67	20
26	10.07	13.88	1.08	85.00	24
27	17.47	9.16	0.71	88.33	27
28	11.75	31.95	2.49	91.67	44
29	12.76	31.53	2.46	95.00	44
30	19.49	31.73	2.48	98.33	51

Am. Wigeon

ANWR+CCW

1 outliers removed

Trend Slope as % of Avg =   -1.38%
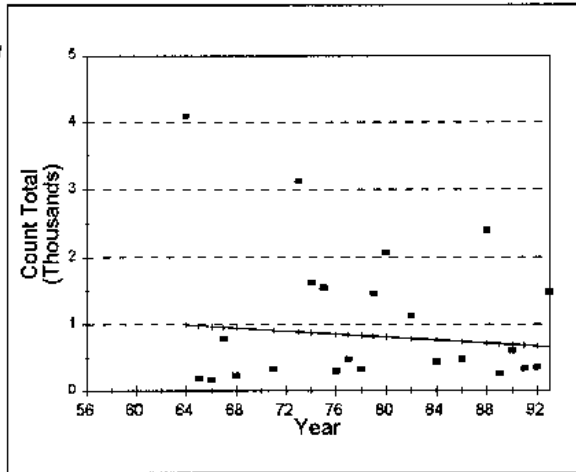
Regression Statistics

Multiple R	0.10
R Square	0.01
Adjusted R Square	-0.02
Standard Error	1010.42
Observations	30.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	317620.62	317620.62	0.31	0.58
Residual	28.00	28586540.34	1020947.87		
Total	29.00	28904160.97			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	1733.82	1626.69	1.07	0.30	-1598.29	5065.94
x1	-11.51	20.64	-0.56	0.58	-53.79	30.77

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	1008.51	-972.51	-0.96	1.67	36
2	755.23	-701.23	-0.69	5.00	54
3	801.28	-712.28	-0.70	8.33	89
4	927.92	-802.92	-0.79	11.67	125
5	778.26	-649.26	-0.64	15.00	129
6	904.90	-769.90	-0.76	18.33	135
7	732.20	-587.20	-0.58	21.67	145
8	973.98	-804.98	-0.80	25.00	169
9	985.49	-791.49	-0.78	28.33	194
10	950.95	-717.95	-0.71	31.67	233
11	709.18	-445.18	-0.44	35.00	264
12	858.85	-559.85	-0.55	38.33	299
13	835.82	-511.82	-0.51	41.67	324
14	686.15	-348.15	-0.34	45.00	338
15	916.41	-577.41	-0.57	48.33	339
16	674.64	-318.64	-0.32	51.67	356
17	766.74	-325.74	-0.32	55.00	441
18	847.33	-366.33	-0.36	58.33	481
19	743.72	-260.72	-0.26	61.67	483
20	697.67	-94.67	-0.09	65.00	603
21	962.46	-181.46	-0.18	68.33	781
22	789.77	349.23	0.35	71.67	1139
23	824.31	644.69	0.64	75.00	1469
24	663.13	828.87	0.82	78.33	1492
25	870.36	679.64	0.67	81.67	1550
26	881.87	739.13	0.73	85.00	1621
27	812.79	1257.21	1.24	88.33	2070
28	720.69	1681.31	1.66	91.67	2402
29	893.38	2224.62	2.20	95.00	3118
30	997.00	3095.00	3.06	98.33	4092

Am. Wigeon

ANWR

2 outliers removed

Trend Slope as % of Avg =   -2.18%

Regression Statistics

Multiple R	0.19
R Square	0.04
Adjusted R Square	0.01
Standard Error	931.35
Observations	36
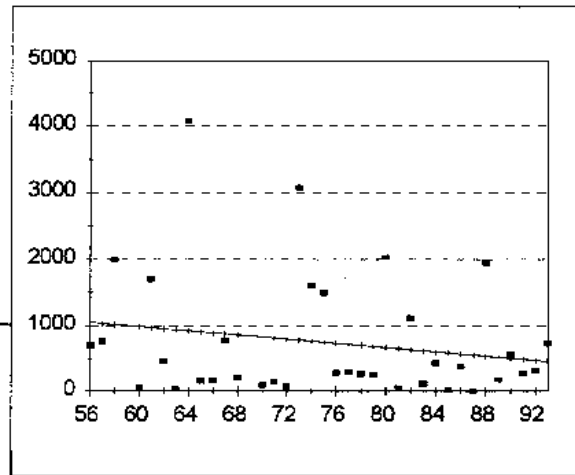
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	1129368.03	1129368.03	1.30	0.26
Residual	34.00	29492096.27	867414.60		
Total	35.00	30621464.31			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	1962.56	1079.27	1.82	0.08	-230.79	4155.91
x1	-16.23	14.22	-1.14	0.26	-45.14	12.68

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	1053.61	-362.61	-0.39	1.39	5
2	1037.38	-277.38	-0.30	4.17	22
3	1021.15	978.85	1.05	6.94	35
4	988.68	-928.68	-1.00	9.72	57
5	972.45	727.55	0.78	12.50	60
6	956.22	-506.22	-0.54	15.28	77
7	939.99	-904.99	-0.97	18.06	91
8	923.76	3156.24	3.39	20.83	113
9	907.53	-748.53	-0.80	23.61	146
10	891.30	-724.30	-0.78	26.39	159
11	875.06	-106.06	-0.11	29.17	167
12	858.83	-648.83	-0.70	31.94	176
13	826.37	-735.37	-0.79	34.72	210
14	810.14	-664.14	-0.71	37.50	251
15	793.91	-716.91	-0.77	40.28	261
16	777.68	2293.32	2.46	43.06	271
17	761.45	831.55	0.89	45.83	284
18	745.21	745.79	0.80	48.61	293
19	728.98	-444.98	-0.48	51.39	314
20	712.75	-419.75	-0.45	54.17	383
21	696.52	-435.52	-0.47	56.94	426
22	680.29	-429.29	-0.46	59.72	450
23	664.06	1360.94	1.46	62.50	559
24	647.83	-590.83	-0.63	65.28	691
25	631.59	487.41	0.52	68.06	722
26	615.36	-502.36	-0.54	70.83	760
27	599.13	-173.13	-0.19	73.61	769
28	582.90	-560.90	-0.60	76.39	1119
29	566.67	-183.67	-0.20	79.17	1491
30	550.44	-545.44	-0.59	81.94	1593
31	534.21	1413.79	1.52	84.72	1700
32	517.98	-341.98	-0.37	87.50	1948
33	501.74	57.26	0.06	90.28	2000
34	485.51	-214.51	-0.23	93.06	2025
35	469.28	-155.28	-0.17	95.83	3071
36	453.05	268.95	0.29	98.61	4080

Am. Wigeon

2 outliers removed

Trend Slope as % of Avg = 5.18%
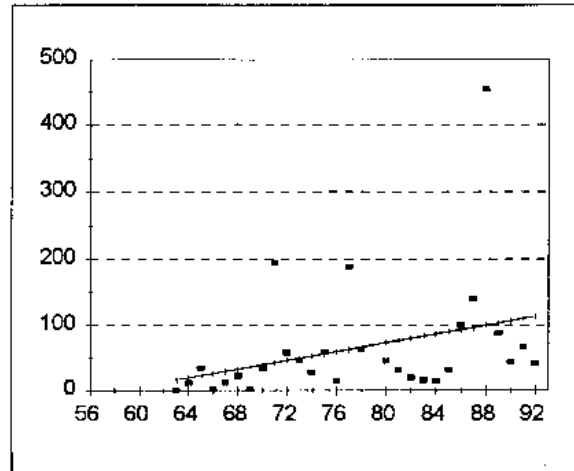
Regression Statistics	
Multiple R	0.33
R Square	0.11
Adjusted R Square	0.08
Standard Error	86.34
Observations	29.00

CCW

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	24987.45	24987.45	3.35	0.08
Residual	27.00	201251.38	7453.75		
Total	28.00	226238.83			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-193.99	142.02	-1.37	0.18	-485.40	97.41
x1	3.34	1.82	1.83	0.08	-0.40	7.07

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	16.18	-15.18	-0.18		1.72	1
2	26.19	-24.19	-0.28		5.17	2
3	36.20	-34.20	-0.40		8.62	2
4	19.51	-7.51	-0.09		12.07	12
5	29.52	-17.52	-0.20		15.52	12
6	86.24	-71.24	-0.83		18.97	15
7	59.55	-44.55	-0.52		22.41	15
8	82.90	-66.90	-0.77		25.86	16
9	79.56	-59.56	-0.69		29.31	20
10	32.86	-9.86	-0.11		32.76	23
11	52.88	-24.88	-0.29		36.21	28
12	76.23	-44.23	-0.51		39.66	32
13	89.57	-57.57	-0.67		43.10	32
14	39.53	-5.53	-0.06		46.55	34
15	22.85	12.15	0.14		50.00	35
16	112.92	-70.92	-0.82		53.45	42
17	106.25	-62.25	-0.72		56.90	44
18	72.89	-27.89	-0.32		60.34	45
19	49.54	-2.54	-0.03		63.79	47
20	46.20	11.80	0.14		67.24	58
21	56.21	2.79	0.03		70.69	59
22	66.22	-3.22	-0.04		74.14	63
23	109.59	-42.59	-0.49		77.59	67
24	102.92	-14.92	-0.17		81.03	88
25	92.91	7.09	0.08		84.48	100
26	96.24	43.76	0.51		87.93	140
27	62.88	125.12	1.45		91.38	188
28	42.87	150.13	1.74		94.83	193
29	99.58	354.42	4.11		98.28	454

Canvasback

ANWR+CCW

1 outliers removed

Trend Slope as % of Avg =   -0.16%
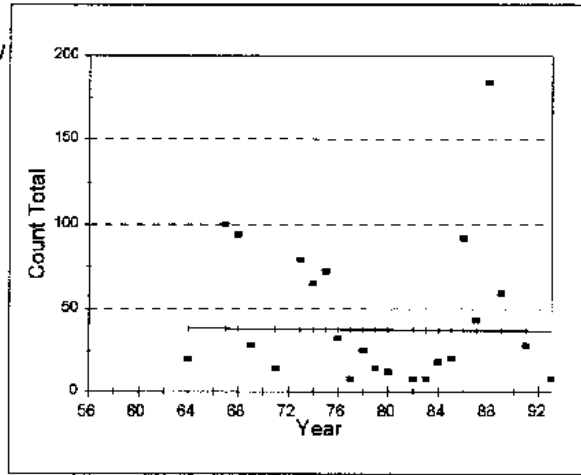
Regression Statistics

Multiple R	0.01
R Square	0.00
Adjusted R Square	-0.04
Standard Error	43.02
Observations	28.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	7.57	7.57	0.00	0.95
Residual	26.00	48127.29	1851.05		
Total	27.00	48134.86			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	42.22	75.32	0.56	0.58	-112.61	197.04
x1	-0.06	0.95	-0.06	0.95	-2.01	1.89

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	37.97	-36.97	-0.86	1.79	1
2	36.63	-35.63	-0.83	5.36	1
3	38.21	-35.21	-0.82	8.93	3
4	36.75	-32.75	-0.76	12.50	4
5	37.85	-29.85	-0.69	16.07	8
6	36.57	-28.57	-0.66	19.64	8
7	37.54	-29.54	-0.69	23.21	8
8	37.24	-29.24	-0.68	26.79	8
9	37.18	-29.18	-0.68	30.36	8
10	37.36	-25.36	-0.59	33.93	12
11	37.91	-23.91	-0.56	37.50	14
12	37.42	-23.42	-0.54	41.07	14
13	37.12	-19.12	-0.44	44.64	18
14	37.06	-17.06	-0.40	48.21	20
15	38.33	-18.33	-0.43	51.79	20
16	37.48	-12.48	-0.29	55.36	25
17	36.69	-8.69	-0.20	58.93	28
18	38.03	-10.03	-0.23	62.50	28
19	37.60	-5.60	-0.13	66.07	32
20	36.94	6.06	0.14	69.64	43
21	36.82	22.18	0.52	73.21	59
22	37.73	27.27	0.63	76.79	65
23	37.66	34.34	0.80	80.36	72
24	37.79	41.21	0.96	83.93	79
25	37.00	55.00	1.28	87.50	92
26	38.09	55.91	1.30	91.07	94
27	38.15	61.85	1.44	94.64	100
28	36.88	147.12	3.42	98.21	184

Canvasback

2 outliers removed

Trend Slope as % of Avg =   0.04%

Regression Statistics

Multiple R	0.00
R Square	0.00
Adjusted R Square	-0.04
Standard Error	38.06
Observations	28

ANWR
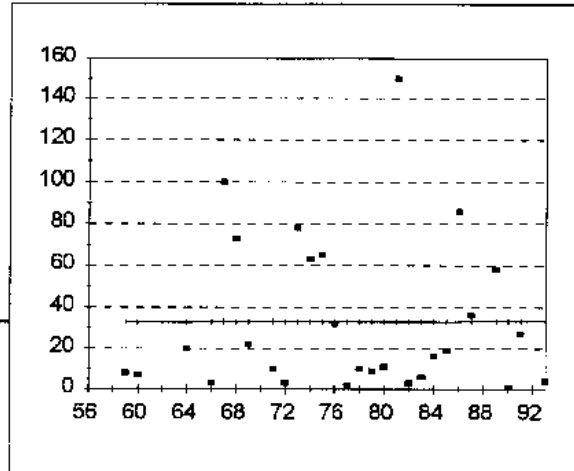
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	0.52	0.52	0.00	0.99
Residual	26.00	37655.34	1448.28		
Total	27.00	37655.86			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	31.79	60.47	0.53	0.60	-92.50	156.09
x1	0.01	0.78	0.02	0.99	-1.59	1.62

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	32.66	-24.66	-0.65		1.79	1
2	32.68	-25.68	-0.67		5.36	2
3	32.74	-12.74	-0.33		8.93	3
4	32.76	-29.76	-0.78		12.50	3
5	32.78	67.22	1.77		16.07	3
6	32.79	40.21	1.06		19.64	4
7	32.81	-10.81	-0.28		23.21	6
8	32.84	-22.84	-0.60		26.79	7
9	32.85	-29.85	-0.78		30.36	8
10	32.87	45.13	1.19		33.93	9
11	32.88	30.12	0.79		37.50	10
12	32.90	32.10	0.84		41.07	10
13	32.91	-0.91	-0.02		44.64	11
14	32.93	-30.93	-0.81		48.21	16
15	32.94	-22.94	-0.60		51.79	19
16	32.96	-23.96	-0.63		55.36	20
17	32.97	-21.97	-0.58		58.93	22
18	32.99	117.01	3.07		62.50	27
19	33.00	-30.00	-0.79		66.07	32
20	33.02	-27.02	-0.71		69.64	36
21	33.03	-17.03	-0.45		73.21	58
22	33.04	-14.04	-0.37		76.79	63
23	33.06	52.94	1.39		80.36	65
24	33.07	2.93	0.08		83.93	73
25	33.10	24.90	0.65		87.50	78
26	33.12	-32.12	-0.84		91.07	86
27	33.13	-6.13	-0.16		94.64	100
28	33.16	-29.16	-0.77		98.21	150

Canvasback

CCW

1 outlier removed

Trend Slope as % of Avg =   -2.61%

Regression Statistics

Multiple R	0.19
R Square	0.04
Adjusted R Square	-0.01
Standard Error	5.79
Observations	24.00
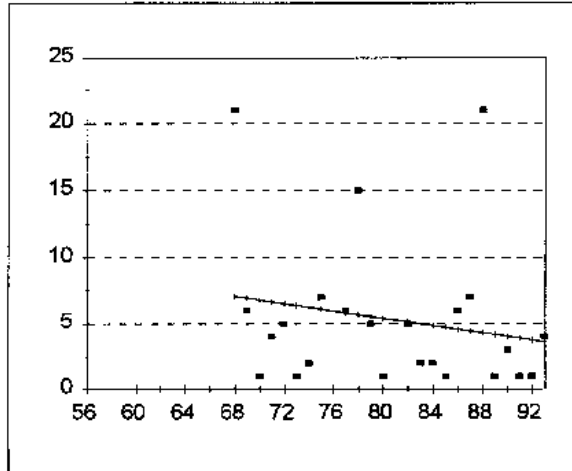
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	27.84	27.84	0.83	0.37
Residual	22.00	737.49	33.52		
Total	23.00	765.33			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	16.55	12.36	1.34	0.19	-9.09	42.18
x1	-0.14	0.15	-0.91	0.37	-0.46	0.18

| Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	4.73	-3.73	-0.64	2.08	1
2	3.76	-2.76	-0.48	6.25	1
3	6.82	-5.82	-1.00	10.42	1
4	6.40	-5.40	-0.93	14.58	1
5	5.43	-4.43	-0.76	18.75	1
6	4.18	-3.18	-0.55	22.92	1
7	3.90	-2.90	-0.50	27.08	1
8	6.26	-4.26	-0.74	31.25	2
9	4.87	-2.87	-0.50	35.42	2
10	5.01	-3.01	-0.52	39.58	2
11	4.04	-1.04	-0.18	43.75	3
12	3.62	0.38	0.07	47.92	4
13	6.68	-2.68	-0.46	52.08	4
14	5.15	-0.15	-0.03	56.25	5
15	6.54	-1.54	-0.27	60.42	5
16	5.56	-0.56	-0.10	64.58	5
17	5.84	0.16	0.03	68.75	6
18	4.59	1.41	0.24	72.92	6
19	6.95	-0.95	-0.16	77.08	6
20	4.45	2.55	0.44	81.25	7
21	6.12	0.88	0.15	85.42	7
22	5.70	9.30	1.61	89.58	15
23	4.31	16.69	2.88	93.75	21
24	7.09	13.91	2.40	97.92	21

Redhead

Data Corrected: ANWR+CCW
Count/(Party Hours)^B
where B = .40

2 outliers removed

Trend Slope as % of Avg =   -2.81%
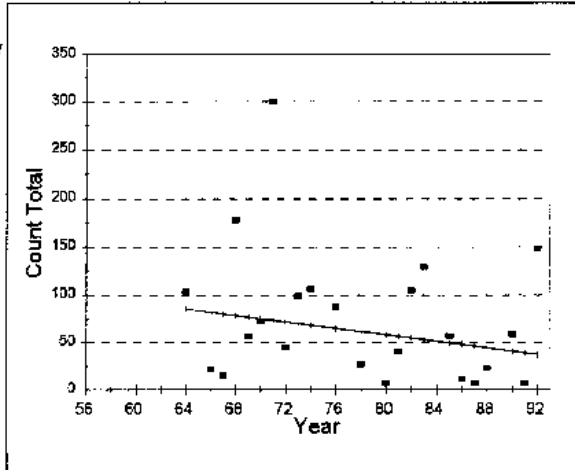
Regression Statistics

Multiple R	0.22
R Square	0.05
Adjusted R Square	0.01
Standard Error	68.13
Observations	28.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	6008.89	6008.89	1.29	0.27
Residual	26.00	120695.67	4642.14		
Total	27.00	126704.56			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	196.09	119.08	1.65	0.11	-48.69	440.87
x1	-1.72	1.52	-1.14	0.27	-4.84	1.39

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	59.86	-59.72	-0.88	1.79	0
2	84.00	-83.72	-1.23	5.36	0
3	42.62	-39.11	-0.57	8.93	4
4	63.31	-58.44	-0.86	12.50	5
5	51.24	-45.55	-0.67	16.07	6
6	46.07	-39.48	-0.58	19.64	7
7	58.14	-51.53	-0.76	23.21	7
8	39.17	-32.47	-0.48	26.79	7
9	47.79	-37.00	-0.54	30.36	11
10	80.56	-65.47	-0.96	33.93	15
11	82.28	-60.94	-0.89	37.50	21
12	44.34	-20.86	-0.31	41.07	23
13	61.59	-34.78	-0.51	44.64	27
14	56.41	-16.16	-0.24	48.21	40
15	71.93	-26.71	-0.39	51.79	45
16	77.11	-20.90	-0.31	55.36	56
17	49.52	6.90	0.10	58.93	56
18	40.89	17.62	0.26	62.50	59
19	75.38	-2.79	-0.04	66.07	73
20	65.04	23.03	0.34	69.64	88
21	70.21	28.83	0.42	73.21	99
22	85.73	18.02	0.26	76.79	104
23	54.69	50.17	0.74	80.36	105
24	68.48	37.74	0.55	83.93	106
25	52.96	76.16	1.12	87.50	129
26	37.44	111.31	1.63	91.07	149
27	78.83	99.13	1.46	94.64	178
28	73.66	226.70	3.33	98.21	300

Redhead

ANWR

1 outlier removed

Trend Slope as % of Avg =   -3.40%

Regression Statistics

Multiple R	0.29
R Square	0.09
Adjusted R Square	0.06
Standard Error	352.82
Observations	32
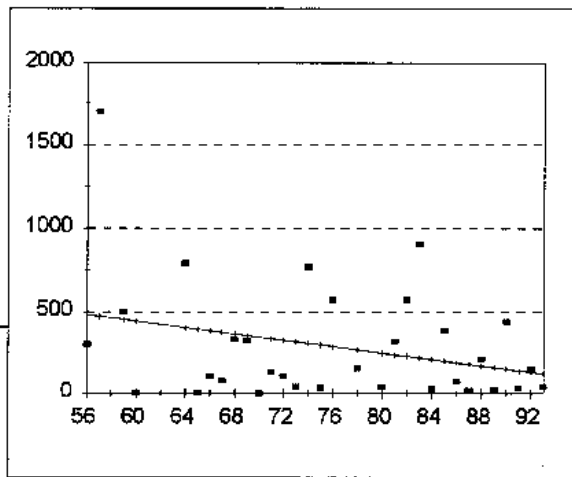
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	354211.48	354211.48	2.85	0.10
Residual	30.00	3734520.74	124484.02		
Total	31.00	4088732.22			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	1027.05	443.22	2.32	0.03	121.87	1932.24
x1	-9.74	5.78	-1.69	0.10	-21.54	2.05

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	481.41	-181.41	-0.51	1.56	1
2	471.67	1228.33	3.48	4.69	2
3	452.18	47.82	0.14	7.81	2
4	442.44	-440.44	-1.25	10.94	22
5	403.46	386.54	1.10	14.06	24
6	393.72	-391.72	-1.11	17.19	28
7	383.98	-277.98	-0.79	20.31	32
8	374.23	-297.23	-0.84	23.44	35
9	364.49	-36.49	-0.10	26.56	40
10	354.74	-34.74	-0.10	29.69	41
11	345.00	-344.00	-0.97	32.81	43
12	335.26	-200.26	-0.57	35.94	73
13	325.51	-221.51	-0.63	39.06	77
14	315.77	-274.77	-0.78	42.19	104
15	306.03	460.97	1.31	45.31	106
16	296.28	-261.28	-0.74	48.44	135
17	286.54	283.46	0.80	51.56	150
18	267.05	-110.05	-0.31	54.69	157
19	247.56	-207.56	-0.59	57.81	210
20	237.82	80.18	0.23	60.94	300
21	228.08	345.92	0.98	64.06	318
22	218.33	687.67	1.95	67.19	320
23	208.59	-180.59	-0.51	70.31	328
24	198.85	186.15	0.53	73.44	385
25	189.10	-116.10	-0.33	76.56	439
26	179.36	-157.36	-0.45	79.69	500
27	169.62	40.38	0.11	82.81	570
28	159.87	-135.87	-0.39	85.94	574
29	150.13	288.87	0.82	89.06	767
30	140.38	-108.38	-0.31	92.19	790
31	130.64	19.36	0.05	95.31	906
32	120.90	-77.90	-0.22	98.44	1700

Redhead

2 outliers removed

Trend Slope as % of Avg =   -6.94%

Regression Statistics

Multiple R	0.26
R Square	0.07
Adjusted R Square	0.03
Standard Error	399.03
Observations	25.00
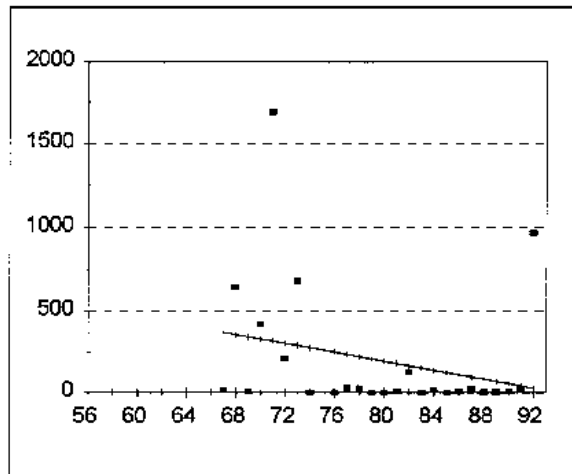
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	268598.48	268598.48	1.69	0.21
Residual	23.00	3662235.52	159227.63		
Total	24.00	3930834.00			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	1284.48	841.25	1.53	0.14	-455.77	3024.74
x1	-13.65	10.51	-1.30	0.21	-35.39	8.09

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	206.08	-205.08	-0.51		2.00	1
2	274.34	-272.34	-0.68		6.00	2
3	124.18	-122.18	-0.31		10.00	2
4	151.48	-148.48	-0.37		14.00	3
5	247.03	-244.03	-0.61		18.00	3
6	192.43	-189.43	-0.47		22.00	3
7	83.23	-79.23	-0.20		26.00	4
8	69.58	-64.58	-0.16		30.00	5
9	342.59	-336.59	-0.84		34.00	6
10	110.53	-104.53	-0.26		38.00	6
11	178.78	-168.78	-0.42		42.00	10
12	55.93	-44.93	-0.11		46.00	11
13	369.89	-356.89	-0.89		50.00	13
14	137.83	-123.83	-0.31		54.00	14
15	219.73	-193.73	-0.49		58.00	26
16	42.27	-15.27	-0.04		62.00	27
17	96.88	-68.88	-0.17		66.00	28
18	233.38	-203.38	-0.51		70.00	30
19	165.13	-42.13	-0.11		74.00	123
20	301.64	-93.64	-0.23		78.00	208
21	328.94	91.06	0.23		82.00	420
22	356.24	283.76	0.71		86.00	640
23	287.99	390.01	0.98		90.00	678
24	28.62	938.38	2.35		94.00	967
25	315.29	1374.71	3.45		98.00	1690

Ring-necked Duck

ANWR+CCW

1 outliers removed

Trend Slope as % of Avg = 0.84%

Regression Statistics

Multiple R	0.07
R Square	0.00
Adjusted R Square	-0.04
Standard Error	37.05
Observations	26.00
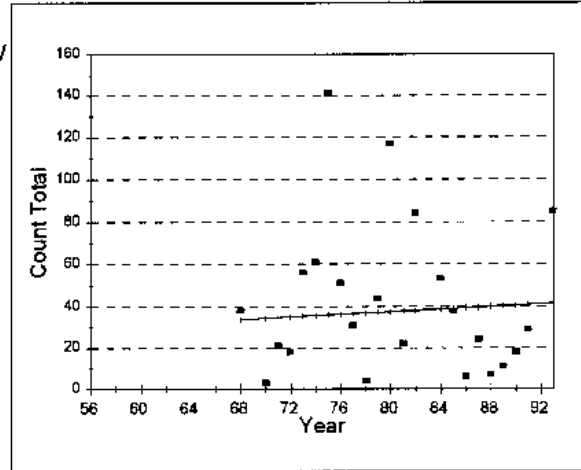
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	158.60	158.60	0.12	0.74
Residual	24.00	32940.02	1372.50		
Total	25.00	33098.62			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	12.36	73.53	0.17	0.87	-139.41	164.12
x1	0.31	0.92	0.34	0.74	-1.59	2.22

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	32.73	-31.73	-0.86	1.92	1
2	38.38	-36.38	-0.98	5.77	2
3	33.05	-30.05	-0.81	9.62	3
4	34.30	-31.30	-0.84	13.46	3
5	36.81	-32.81	-0.89	17.31	4
6	39.32	-33.32	-0.90	21.15	6
7	39.94	-32.94	-0.89	25.00	7
8	40.26	-29.26	-0.79	28.85	11
9	34.93	-16.93	-0.46	32.69	18
10	40.57	-22.57	-0.61	36.54	18
11	34.61	-13.61	-0.37	40.38	21
12	37.75	-15.75	-0.43	44.23	22
13	39.63	-15.63	-0.42	48.08	24
14	40.88	-11.88	-0.32	51.92	29
15	36.50	-5.50	-0.15	55.77	31
16	33.67	4.33	0.12	59.62	38
17	39.00	-1.00	-0.03	63.46	38
18	37.12	6.88	0.19	67.31	44
19	36.18	14.82	0.40	71.15	51
20	38.69	14.31	0.39	75.00	53
21	35.24	20.76	0.56	78.85	56
22	35.55	25.45	0.69	82.69	61
23	38.06	45.94	1.24	86.54	84
24	41.51	43.49	1.17	90.38	85
25	37.44	79.56	2.15	94.23	117
26	35.87	105.13	2.84	98.08	141

Ring-necked Duck

Data Corrected: ANWR
Count/(Party Hours^B)
where B = .84

Trend Slope as % of Avg =   -4.30%
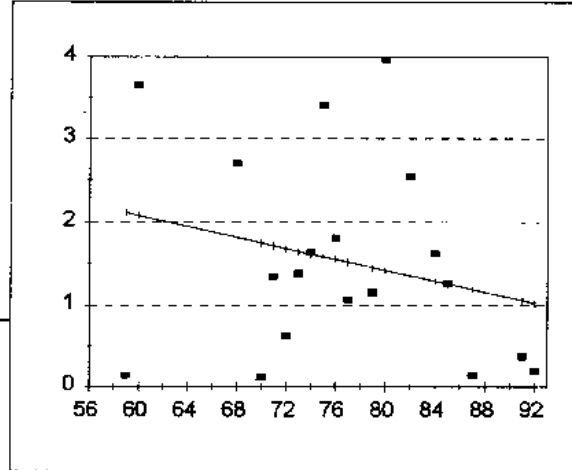
Regression Statistics

Multiple R	0.25
R Square	0.06
Adjusted R Square	0.01
Standard Error	1.22
Observations	19

Analysis of Variance
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	1.64	1.64	1.11	0.31
Residual	17.00	25.14	1.48		
Total	18.00	26.78			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	4.06	2.42	1.68	0.11	-1.04	9.16
x1	-0.03	0.03	-1.05	0.31	-0.10	0.03

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	2.11	-1.97	-1.62	2.63	0
2	2.08	1.57	1.29	7.89	0
3	1.82	0.88	0.73	13.16	0
4	1.75	-1.63	-1.34	18.42	0
5	1.72	-0.38	-0.31	23.68	0
6	1.68	-1.06	-0.87	28.95	1
7	1.65	-0.27	-0.23	34.21	1
8	1.62	0.02	0.02	39.47	1
9	1.58	1.82	1.50	44.74	1
10	1.55	0.26	0.21	50.00	1
11	1.52	-0.45	-0.37	55.26	1
12	1.45	-0.30	-0.24	60.53	2
13	1.42	2.55	2.10	65.79	2
14	1.35	1.20	0.98	71.05	2
15	1.29	0.33	0.27	76.32	3
16	1.25	0.01	0.01	81.58	3
17	1.19	-1.05	-0.86	86.84	3
18	1.06	-0.68	-0.56	92.11	4
19	1.02	-0.83	-0.69	97.37	4

Ring-necked Duck

1 outlier removed

Trend Slope as % of Avg =   10.56%

Regression Statistics

Multiple R	0.48
R Square	0.23
Adjusted R Square	0.20
Standard Error	15.13
Observations	25.00
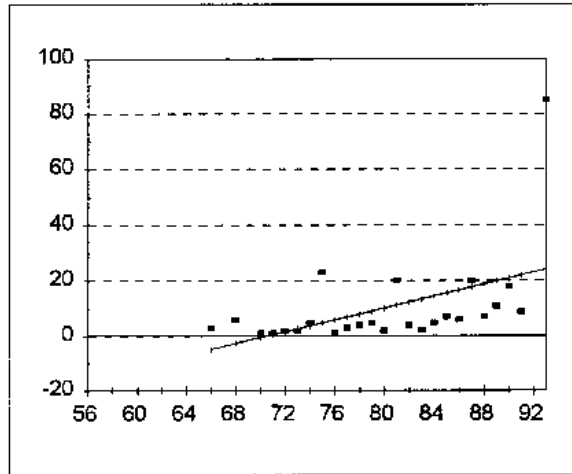
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	1586.31	1586.31	6.93	0.01
Residual	23.00	5267.53	229.02		
Total	24.00	6853.84			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-75.00	32.47	-2.31	0.03	-142.16	-7.83
x1	1.06	0.40	2.63	0.01	0.23	1.90

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	-0.48	1.48	0.10		2.00	1
2	0.58	0.42	0.03		6.00	1
3	5.91	-4.91	-0.32		10.00	1
4	1.65	0.35	0.02		14.00	2
5	13.36	-11.36	-0.75		18.00	2
6	2.71	-0.71	-0.05		22.00	2
7	10.17	-8.17	-0.54		26.00	2
8	6.97	-3.97	-0.26		30.00	3
9	-4.74	7.74	0.51		34.00	3
10	8.04	-4.04	-0.27		38.00	4
11	12.29	-8.29	-0.55		42.00	4
12	9.10	-4.10	-0.27		46.00	5
13	14.42	-9.42	-0.62		50.00	5
14	3.78	1.22	0.08		54.00	5
15	-2.61	8.61	0.57		58.00	6
16	16.55	-10.55	-0.70		62.00	6
17	15.49	-8.49	-0.56		66.00	7
18	18.68	-11.68	-0.77		70.00	7
19	21.87	-12.87	-0.85		74.00	9
20	19.75	-8.75	-0.58		78.00	11
21	20.81	-2.81	-0.19		82.00	18
22	17.62	2.38	0.16		86.00	20
23	11.23	8.77	0.58		90.00	20
24	4.84	18.16	1.20		94.00	23
25	24.00	61.00	4.03		98.00	85

Lesser Scaup

2 outliers removed

Trend Slope as % of Avg =   0.03%

ANWR+CCW

Regression Statistics

Multiple R	0.00
R Square	0.00
Adjusted R Square	-0.04
Standard Error	1367.88
Observations	29.00
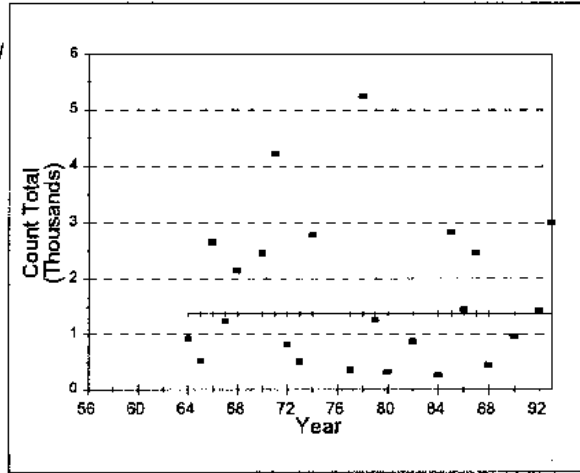
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	359.16	359.16	0.00	0.99
Residual	27.00	50519821.81	1871104.51		
Total	28.00	50520180.97			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	1349.63	2208.85	0.61	0.55	-3182.55	5881.82
x1	0.39	28.23	0.01	0.99	-57.53	58.32

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	1374.28	-1352.28	-0.99		1.72	22
2	1376.62	-1352.62	-0.99		5.17	24
3	1382.10	-1325.10	-0.97		8.62	57
4	1381.32	-1192.32	-0.87		12.07	189
5	1379.36	-1141.36	-0.83		15.52	238
6	1385.23	-1145.23	-0.84		18.97	240
7	1382.49	-1118.49	-0.82		22.41	264
8	1380.92	-1058.92	-0.77		25.86	322
9	1379.75	-1017.75	-0.74		29.31	362
10	1384.05	-938.05	-0.69		32.76	446
11	1378.19	-869.19	-0.64		36.21	509
12	1375.06	-847.06	-0.62		39.66	528
13	1377.80	-552.80	-0.40		43.10	825
14	1381.71	-502.71	-0.37		46.55	879
15	1374.67	-448.67	-0.33		50.00	926
16	1384.84	-422.84	-0.31		53.45	962
17	1375.84	-135.84	-0.10		56.90	1240
18	1380.53	-115.53	-0.08		60.34	1265
19	1385.62	56.38	0.04		63.79	1442
20	1383.27	74.73	0.05		67.24	1458
21	1376.23	771.77	0.56		70.69	2148
22	1383.66	1074.34	0.79		74.14	2458
23	1377.01	1084.99	0.79		77.59	2462
24	1375.45	1279.55	0.94		81.03	2655
25	1378.58	1405.42	1.03		84.48	2784
26	1382.88	1458.12	1.07		87.93	2841
27	1386.01	1620.99	1.19		91.38	3007
28	1377.40	2844.60	2.08		94.83	4222
29	1380.14	3865.86	2.83		98.28	5246

Lesser Scaup

1 outlier removed

Trend Slope as % of Avg =   0.82%

ANWR

Regression Statistics

Multiple R	0.08
R Square	0.01
Adjusted R Square	-0.02
Standard Error	339.89
Observations	36
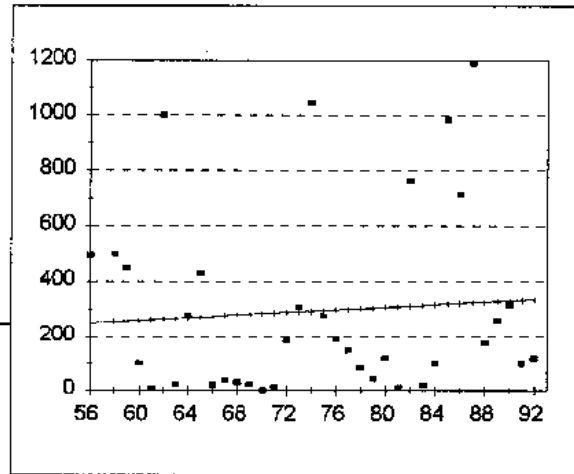
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	22449.14	22449.14	0.19	0.66
Residual	34.00	3927939.83	115527.64		
Total	35.00	3950388.97			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	115.33	408.19	0.28	0.78	-714.21	944.88
x1	2.39	5.43	0.44	0.66	-8.64	13.42

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	249.33	245.67	0.72	1.39	2
2	254.11	245.89	0.72	4.17	7
3	256.51	193.49	0.57	6.94	12
4	258.90	-156.90	-0.46	9.72	14
5	261.29	-254.29	-0.75	12.50	20
6	263.68	736.32	2.17	15.28	22
7	266.08	-244.08	-0.72	18.06	22
8	268.47	6.53	0.02	20.83	23
9	270.86	157.14	0.46	23.61	32
10	273.26	-253.26	-0.75	26.39	40
11	275.65	-235.65	-0.69	29.17	43
12	278.04	-246.04	-0.72	31.94	85
13	280.43	-257.43	-0.76	34.72	100
14	282.83	-280.83	-0.83	37.50	100
15	285.22	-271.22	-0.80	40.28	102
16	287.61	-100.61	-0.30	43.06	120
17	290.01	18.99	0.06	45.83	121
18	292.40	751.60	2.21	48.61	150
19	294.79	-19.79	-0.06	51.39	178
20	297.18	-107.18	-0.32	54.17	187
21	299.58	-149.58	-0.44	56.94	190
22	301.97	-216.97	-0.64	59.72	256
23	304.36	-261.36	-0.77	62.50	275
24	306.75	-186.75	-0.55	65.28	275
25	309.15	-297.15	-0.87	68.06	309
26	311.54	451.46	1.33	70.83	317
27	313.93	-291.93	-0.86	73.61	428
28	316.33	-216.33	-0.64	76.39	450
29	318.72	663.28	1.95	79.17	495
30	321.11	392.89	1.16	81.94	500
31	323.50	865.50	2.55	84.72	714
32	325.90	-147.90	-0.44	87.50	763
33	328.29	-72.29	-0.21	90.28	982
34	330.68	-13.68	-0.04	93.06	1000
35	333.08	-233.08	-0.69	95.83	1044
36	335.47	-214.47	-0.63	98.61	1189

Lesser Scaup

2 outliers removed

Trend Slope as % of Avg =   -3.14%
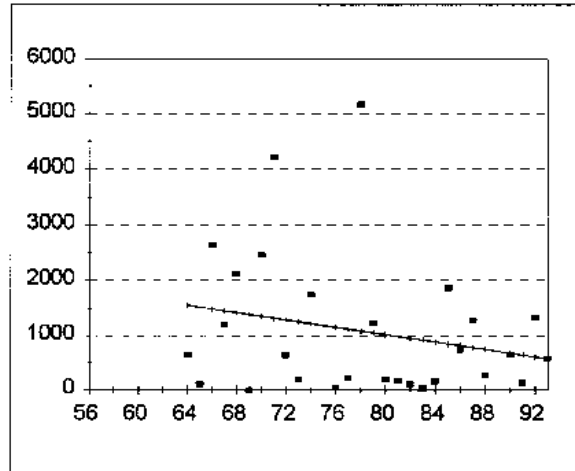
Regression Statistics

Multiple R	0.23
R Square	0.05
Adjusted R Square	0.02
Standard Error	1274.48
Observations	28.00

CCW

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	2418957.44	2418957.44	1.49	0.23
Residual	26.00	42231542.66	1624290.10		
Total	27.00	44650500.11			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	3716.36	2177.65	1.71	0.10	-759.87	8192.58
x1	-33.75	27.66	-1.22	0.23	-90.61	23.10

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	1387.39	-1386.39	-1.09	1.79	1
2	914.85	-879.85	-0.69	5.36	35
3	1151.12	-1103.12	-0.87	8.93	48
4	1522.41	-1422.41	-1.12	12.50	100
5	948.60	-832.60	-0.65	16.07	116
6	644.83	-504.83	-0.40	19.64	140
7	881.10	-717.10	-0.56	23.21	164
8	982.36	-805.36	-0.63	26.79	177
9	1252.38	-1052.38	-0.83	30.36	200
10	1016.11	-814.11	-0.64	33.93	202
11	1117.37	-905.37	-0.71	37.50	212
12	746.09	-478.09	-0.38	41.07	268
13	577.32	-4.32	-0.00	44.64	573
14	1286.14	-648.14	-0.51	48.21	638
15	678.58	-33.58	-0.03	51.79	645
16	1556.16	-905.16	-0.71	55.36	651
17	813.59	-69.59	-0.05	58.93	744
18	1454.90	-254.90	-0.20	62.50	1200
19	1049.86	172.14	0.14	66.07	1222
20	779.84	489.16	0.38	69.64	1269
21	611.07	709.93	0.56	73.21	1321
22	1218.63	521.37	0.41	76.79	1740
23	847.35	1011.65	0.79	80.36	1859
24	1421.15	694.85	0.55	83.93	2116
25	1353.64	1106.36	0.87	87.50	2460
26	1488.65	1146.35	0.90	91.07	2635
27	1319.89	2888.11	2.27	94.64	4208
28	1083.62	4077.38	3.20	98.21	5161

Common Goldeneye

2 outliers removed

Trend Slope as % of Avg =   0.97%
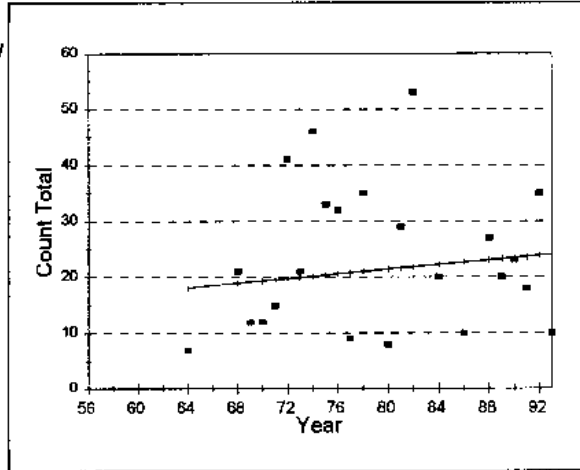
Regression Statistics

Multiple R	0.13
R Square	0.02
Adjusted R Square	-0.02
Standard Error	13.71
Observations	26.00

ANWR+CCW

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	76.50	76.50	0.41	0.53
Residual	24.00	4513.54	188.06		
Total	25.00	4590.04			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	5.00	25.54	0.20	0.85	-47.71	57.70
x1	0.21	0.32	0.64	0.53	-0.46	0.87

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	18.55	-17.55	-1.28	1.92	1
2	21.22	-15.22	-1.11	5.77	6
3	22.04	-15.04	-1.10	9.62	7
4	18.14	-11.14	-0.81	13.46	7
5	21.42	-13.42	-0.98	17.31	8
6	20.81	-11.81	-0.86	21.15	9
7	22.65	-12.65	-0.92	25.00	10
8	24.09	-14.09	-1.03	28.85	10
9	19.37	-7.37	-0.54	32.69	12
10	19.16	-7.16	-0.52	36.54	12
11	19.57	-4.57	-0.33	40.38	15
12	23.68	-5.68	-0.41	44.23	18
13	23.27	-3.27	-0.24	48.08	20
14	22.24	-2.24	-0.16	51.92	20
15	18.96	2.04	0.15	55.77	21
16	19.98	1.02	0.07	59.62	21
17	23.47	-0.47	-0.03	63.46	23
18	23.06	3.94	0.29	67.31	27
19	21.63	7.37	0.54	71.15	29
20	20.60	11.40	0.83	75.00	32
21	20.39	12.61	0.92	78.85	33
22	23.89	11.11	0.81	82.69	35
23	21.01	13.99	1.02	86.54	35
24	19.78	21.22	1.55	90.38	41
25	20.19	25.81	1.88	94.23	46
26	21.83	31.17	2.27	98.06	53

Common Goldeneye

ANWR

2 outliers removed

Trend Slope as % of Avg =   0.61%
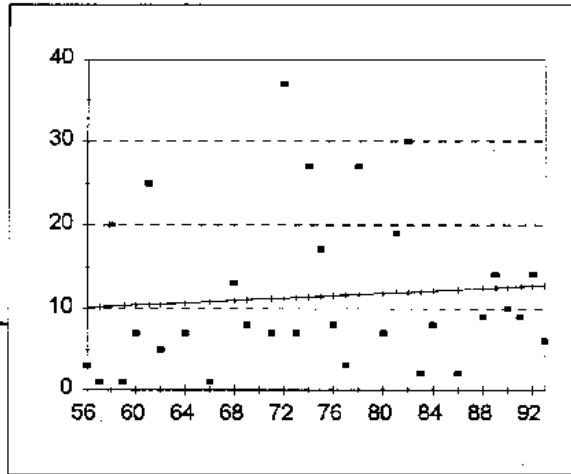
Regression Statistics

Multiple R	0.08
R Square	0.01
Adjusted R Square	-0.03
Standard Error	9.63
Observations	31

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	19.01	19.01	0.20	0.65
Residual	29.00	2690.53	92.78		
Total	30.00	2709.55			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	6.26	11.53	0.54	0.59	-17.32	29.84
x1	0.07	0.15	0.45	0.65	-0.24	0.38

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	10.13	-7.13	-0.74	1.61	1
2	10.20	-9.20	-0.95	4.84	1
3	10.27	9.73	1.01	8.06	1
4	10.34	-9.34	-0.97	11.29	2
5	10.41	-3.41	-0.35	14.52	2
6	10.47	14.53	1.51	17.74	3
7	10.54	-5.54	-0.58	20.97	3
8	10.68	-3.68	-0.38	24.19	5
9	10.82	-9.82	-1.02	27.42	6
10	10.96	2.04	0.21	30.65	7
11	11.03	-3.03	-0.31	33.87	7
12	11.17	-4.17	-0.43	37.10	7
13	11.23	25.77	2.67	40.32	7
14	11.30	-4.30	-0.45	43.55	7
15	11.37	15.63	1.62	46.77	8
16	11.44	5.56	0.58	50.00	8
17	11.51	-3.51	-0.36	53.23	8
18	11.58	-8.58	-0.89	56.45	9
19	11.65	15.35	1.59	59.68	9
20	11.79	-4.79	-0.50	62.90	10
21	11.86	7.14	0.74	66.13	13
22	11.93	18.07	1.88	69.35	14
23	11.99	-9.99	-1.04	72.58	14
24	12.06	-4.06	-0.42	75.81	17
25	12.20	-10.20	-1.06	79.03	19
26	12.34	-3.34	-0.35	82.26	20
27	12.41	1.59	0.17	85.48	25
28	12.48	-2.48	-0.26	88.71	27
29	12.55	-3.55	-0.37	91.94	27
30	12.62	1.38	0.14	95.16	30
31	12.69	-6.69	-0.69	98.39	37

Common Goldeneye

Data Corrected:
Count/(Party Hours^B)
where B = .42

   3 outliers removed

Trend Slope as % of Avg =   -0.22%

Regression Statistics

Multiple R	0.03
R Square	0.00
Adjusted R Square	-0.05
Standard Error	0.83
Observations	23.00

CCW
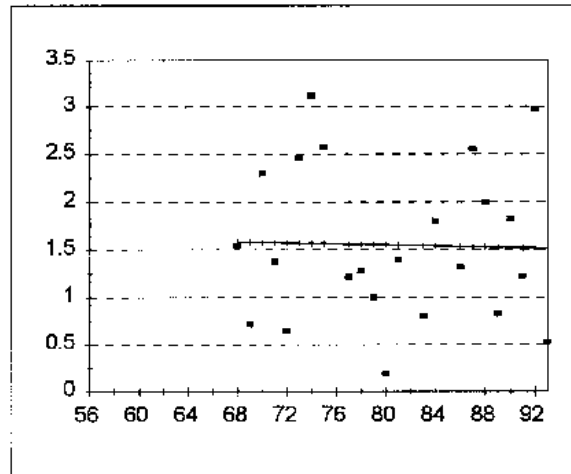
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	0.01	0.01	0.02	0.90
Residual	21.00	14.42	0.69		
Total	22.00	14.43			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	1.77	1.78	1.00	0.33	-1.92	5.47
x1	-0.00	0.02	-0.13	0.90	-0.05	0.04

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	1.55	-1.36	-1.65	2.17	0
2	1.52	-0.99	-1.19	6.52	1
3	1.57	-0.93	-1.12	10.87	1
4	1.58	-0.87	-1.04	15.22	1
5	1.54	-0.74	-0.89	19.57	1
6	1.53	-0.70	-0.84	23.91	1
7	1.55	-0.55	-0.67	28.26	1
8	1.56	-0.35	-0.42	32.61	1
9	1.52	-0.30	-0.36	36.96	1
10	1.56	-0.28	-0.34	41.30	1
11	1.54	-0.22	-0.26	45.65	1
12	1.58	-0.20	-0.24	50.00	1
13	1.55	-0.15	-0.18	54.35	1
14	1.59	-0.04	-0.05	58.70	2
15	1.54	0.26	0.31	63.04	2
16	1.52	0.30	0.36	67.39	2
17	1.53	0.47	0.57	71.74	2
18	1.58	0.72	0.87	76.09	2
19	1.57	0.89	1.07	80.43	2
20	1.53	1.02	1.23	84.78	3
21	1.57	1.00	1.21	89.13	3
22	1.52	1.46	1.76	93.48	3
23	1.57	1.55	1.87	97.83	3

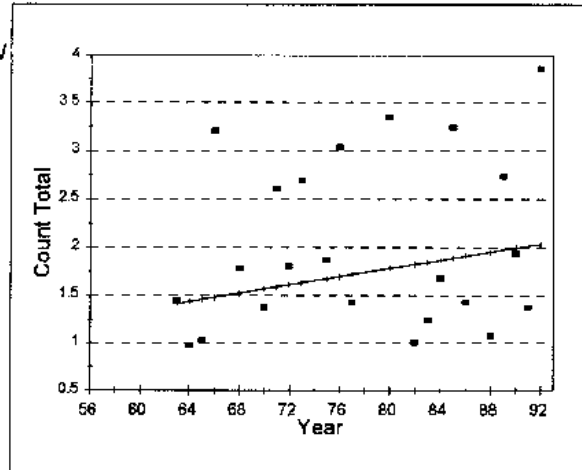## Bufflehead

Data Corrected: ANWR+CCW
Count/(Party Hours)^B
where B = .88

1 outliers removed

Trend Slope as % of Avg =   1.23%

Regression Statistics

Multiple R	0.20
R Square	0.04
Adjusted R Square	0.01
Standard Error	0.93
Observations	30.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	1.01	1.01	1.16	0.29
Residual	28.00	24.35	0.87		
Total	29.00	25.36			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	0.08	1.53	0.05	0.96	-3.06	3.22
x1	0.02	0.02	1.08	0.29	-0.02	0.06

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	1.50	-1.27	-1.36	1.67	0
2	1.74	-1.00	-1.08	5.00	1
3	1.93	-1.06	-1.14	8.33	1
4	1.76	-0.87	-0.94	11.67	1
5	1.80	-0.86	-0.92	15.00	1
6	1.65	-0.70	-0.75	18.33	1
7	1.54	-0.58	-0.62	21.67	1
8	1.44	-0.46	-0.49	25.00	1
9	1.82	-0.81	-0.87	28.33	1
10	1.46	-0.43	-0.46	31.67	1
11	1.95	-0.87	-0.93	35.00	1
12	1.84	-0.60	-0.64	38.33	1
13	2.01	-0.63	-0.68	41.67	1
14	1.57	-0.18	-0.20	45.00	1
15	1.91	-0.48	-0.51	48.33	1
16	1.71	-0.28	-0.30	51.67	1
17	1.42	0.03	0.03	55.00	1
18	1.86	-0.19	-0.20	58.33	2
19	1.52	0.26	0.28	61.67	2
20	1.61	0.19	0.21	65.00	2
21	1.67	0.20	0.21	68.33	2
22	1.99	-0.06	-0.06	71.67	2
23	1.59	1.02	1.09	75.00	3
24	1.63	1.06	1.14	78.33	3
25	1.97	0.76	0.82	81.67	3
26	1.69	1.34	1.44	85.00	3
27	1.48	1.73	1.85	88.33	3
28	1.88	1.35	1.45	91.67	3
29	1.78	1.57	1.68	95.00	3
30	2.03	1.83	1.96	98.33	4

Bufflehead

ANWR

1 outlier removed

Trend Slope as % of Avg =   4.14%
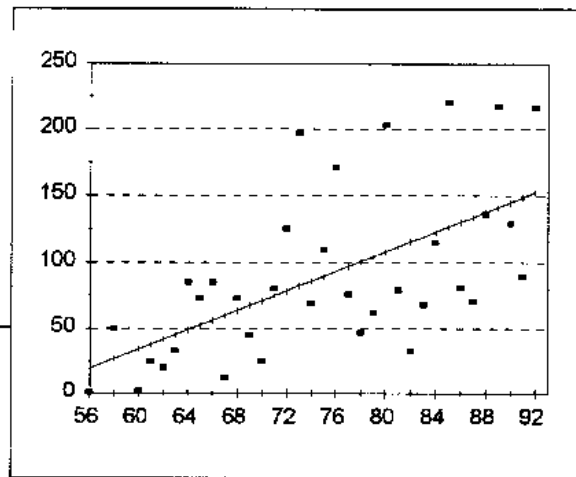
Regression Statistics

Multiple R	0.61
R Square	0.37
Adjusted R Square	0.35
Standard Error	50.98
Observations	35

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	50064.34	50064.34	19.27	0.00
Residual	33.00	85753.83	2598.60		
Total	34.00	135818.17			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-187.28	63.58	-2.95	0.01	-316.65	-57.92
x1	3.69	0.84	4.39	0.00	1.98	5.40

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	19.41	-18.41	-0.36		1.43	1
2	26.80	23.20	0.46		4.29	2
3	34.18	-32.18	-0.63		7.14	12
4	37.87	-12.87	-0.25		10.00	20
5	41.56	-21.56	-0.42		12.86	25
6	45.25	-12.25	-0.24		15.71	25
7	48.94	36.06	0.71		18.57	33
8	52.63	20.37	0.40		21.43	33
9	56.33	28.67	0.56		24.29	45
10	60.02	-48.02	-0.94		27.14	47
11	63.71	9.29	0.18		30.00	50
12	67.40	-22.40	-0.44		32.86	62
13	71.09	-46.09	-0.90		35.71	68
14	74.78	5.22	0.10		38.57	69
15	78.47	46.53	0.91		41.43	71
16	82.16	114.84	2.25		44.29	73
17	85.85	-16.85	-0.33		47.14	73
18	89.54	20.46	0.40		50.00	76
19	93.24	77.76	1.53		52.86	79
20	96.93	-20.93	-0.41		55.71	80
21	100.62	-53.62	-1.05		58.57	81
22	104.31	-42.31	-0.83		61.43	85
23	108.00	95.00	1.86		64.29	85
24	111.69	-32.69	-0.64		67.14	89
25	115.38	-82.38	-1.62		70.00	110
26	119.07	-51.07	-1.00		72.86	115
27	122.76	-7.76	-0.15		75.71	125
28	126.46	93.54	1.84		78.57	129
29	130.15	-49.15	-0.96		81.43	136
30	133.84	-62.84	-1.23		84.29	171
31	137.53	-1.53	-0.03		87.14	197
32	141.22	75.78	1.49		90.00	203
33	144.91	-15.91	-0.31		92.86	216
34	148.60	-59.60	-1.17		95.71	217
35	152.29	63.71	1.25		98.57	220

Bufflehead

1 outlier removed

Trend Slope as % of Avg =   6.31%

CCW

Regression Statistics

Multiple R	0.44
R Square	0.19
Adjusted R Square	0.16
Standard Error	25.53
Observations	26.00
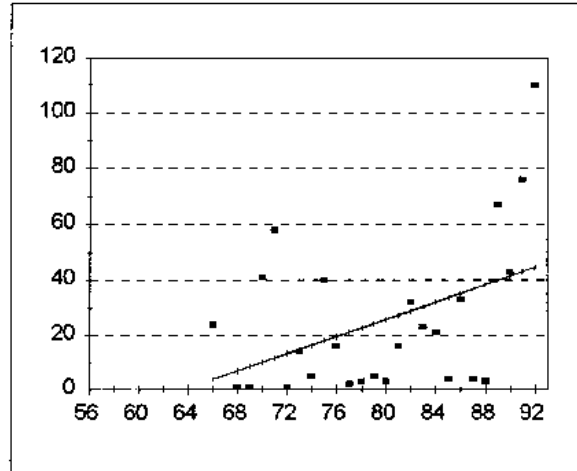
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	3653.11	3653.11	5.61	0.03
Residual	24.00	15638.28	651.59		
Total	25.00	19291.38			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-99.64	52.81	-1.89	0.07	-208.64	9.36
x1	1.57	0.66	2.37	0.03	0.20	2.93

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	6.89	-5.89	-0.23	1.92	1
2	8.46	-7.46	-0.29	5.77	1
3	13.16	-12.16	-0.48	9.62	1
4	20.99	-18.99	-0.74	13.46	2
5	22.56	-19.56	-0.77	17.31	3
6	38.22	-35.22	-1.38	21.15	3
7	25.69	-22.69	-0.89	25.00	3
8	36.66	-32.66	-1.28	28.85	4
9	33.52	-29.52	-1.16	32.69	4
10	24.12	-19.12	-0.75	36.54	5
11	16.29	-11.29	-0.44	40.38	5
12	14.72	-0.72	-0.03	44.23	14
13	19.42	-3.42	-0.13	48.08	16
14	27.26	-11.26	-0.44	51.92	16
15	31.96	-10.96	-0.43	55.77	21
16	30.39	-7.39	-0.29	59.62	23
17	3.76	20.24	0.79	63.46	24
18	28.82	3.18	0.12	67.31	32
19	35.09	-2.09	-0.08	71.15	33
20	17.86	22.14	0.87	75.00	40
21	10.02	30.98	1.21	78.85	41
22	41.36	1.64	0.06	82.69	43
23	11.59	46.41	1.82	86.54	58
24	39.79	27.21	1.07	90.38	67
25	42.92	33.08	1.30	94.23	76
26	44.49	65.51	2.57	98.08	110

Hooded Merganser

ANWR+CCW

Trend Slope as % of Avg =   6.32%
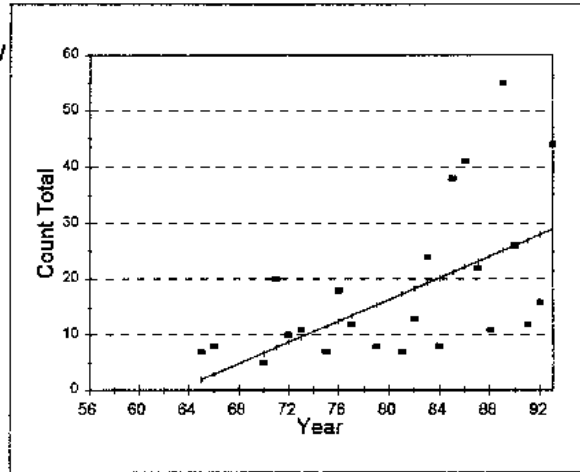
Regression Statistics

Multiple R	0.62
R Square	0.38
Adjusted R Square	0.36
Standard Error	10.99
Observations	29.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	2009.15	2009.15	16.64	0.00
Residual	27.00	3260.65	120.76		
Total	28.00	5269.79			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-60.85	18.78	-3.24	0.00	-99.38	-22.33
x1	0.97	0.24	4.08	0.00	0.48	1.45

| Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	3.85	-1.85	-0.17	1.72	2
2	14.48	-11.48	-1.04	5.17	3
3	10.61	-7.61	-0.69	8.62	3
4	4.82	-1.82	-0.17	12.07	3
5	0.96	3.04	0.28	15.52	4
6	16.41	-11.41	-1.04	18.97	5
7	6.75	-1.75	-0.16	22.41	5
8	11.58	-4.58	-0.42	25.86	7
9	17.37	-10.37	-0.94	29.31	7
10	1.92	5.08	0.46	32.76	7
11	15.44	-7.44	-0.68	36.21	8
12	2.89	5.11	0.47	39.66	8
13	20.27	-12.27	-1.12	43.10	8
14	8.68	1.32	0.12	46.55	10
15	9.65	1.35	0.12	50.00	11
16	24.13	-13.13	-1.20	53.45	11
17	13.51	-1.51	-0.14	56.90	12
18	27.03	-15.03	-1.37	60.34	12
19	18.34	-5.34	-0.49	63.79	13
20	28.00	-12.00	-1.09	67.24	16
21	12.55	5.45	0.50	70.69	18
22	7.72	12.28	1.12	74.14	20
23	23.17	-1.17	-0.11	77.59	22
24	19.31	4.69	0.43	81.03	24
25	26.07	-0.07	-0.01	84.48	26
26	21.24	16.76	1.53	87.93	38
27	22.20	18.80	1.71	91.38	41
28	28.96	15.04	1.37	94.83	44
29	25.10	29.90	2.72	98.28	55

Hooded Merganser

Data Corrected: ANWR
Count/(Party Hours^B)
where B = .51

   3 outliers removed

Trend Slope as % of Avg =   0.15%
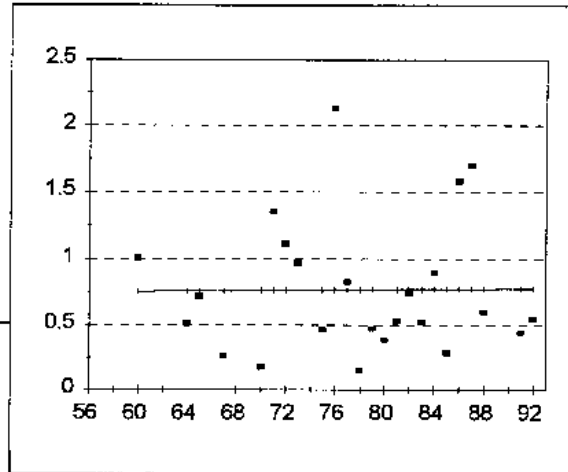
Regression Statistics

Multiple R	0.01
R Square	0.00
Adjusted R Square	-0.05
Standard Error	0.52
Observations	24

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	0.00	0.00	0.00	0.95
Residual	22.00	5.88	0.27		
Total	23.00	5.89			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	0.71	0.97	0.73	0.47	-1.30	2.71
x1	0.00	0.01	0.06	0.95	-0.02	0.03

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	0.75	0.25	0.49	2.08	0
2	0.76	-0.24	-0.47	6.25	0
3	0.76	-0.04	-0.07	10.42	0
4	0.76	-0.50	-0.96	14.58	0
5	0.76	-0.58	-1.13	18.75	0
6	0.76	0.59	1.15	22.92	0
7	0.76	0.35	0.68	27.08	0
8	0.76	0.21	0.40	31.25	0
9	0.76	-0.30	-0.58	35.42	1
10	0.76	1.37	2.65	39.58	1
11	0.77	0.06	0.11	43.75	1
12	0.77	-0.62	-1.20	47.92	1
13	0.77	-0.29	-0.57	52.08	1
14	0.77	-0.38	-0.73	56.25	1
15	0.77	-0.24	-0.46	60.42	1
16	0.77	-0.03	-0.06	64.58	1
17	0.77	-0.25	-0.48	68.75	1
18	0.77	0.12	0.24	72.92	1
19	0.77	-0.49	-0.94	77.08	1
20	0.77	0.81	1.56	81.25	1
21	0.77	0.93	1.79	85.42	1
22	0.77	-0.17	-0.34	89.58	2
23	0.78	-0.33	-0.64	93.75	2
24	0.78	-0.23	-0.45	97.92	2

Hooded Merganser

2 outliers removed

Trend Slope as % of Avg =   4.44%

Regression Statistics

Multiple R	0.41
R Square	0.16
Adjusted R Square	0.13
Standard Error	5.37
Observations	24.00

CCW
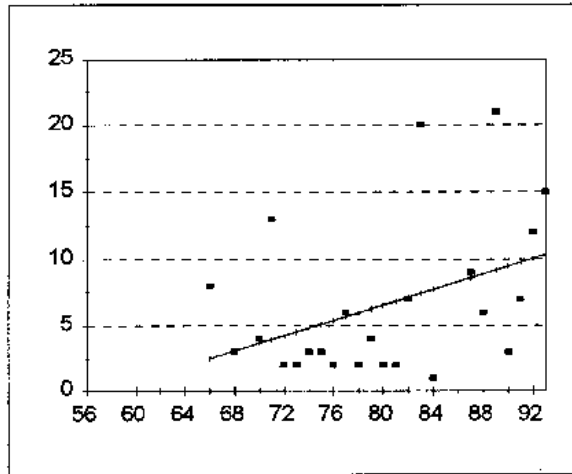
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	125.00	125.00	4.33	0.05
Residual	22.00	634.96	28.86		
Total	23.00	759.96			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-16.67	11.21	-1.49	0.15	-39.92	6.57
x1	0.29	0.14	2.08	0.05	0.00	0.58

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	7.72	-6.72	-1.25		2.08	1
2	4.52	-2.52	-0.47		6.25	2
3	4.23	-2.23	-0.42		10.42	2
4	5.39	-3.39	-0.63		14.58	2
5	5.97	-3.97	-0.74		18.75	2
6	6.55	-4.55	-0.85		22.92	2
7	6.84	-4.84	-0.90		27.08	2
8	4.81	-1.81	-0.34		31.25	3
9	9.46	-6.46	-1.20		35.42	3
10	3.07	-0.07	-0.01		39.58	3
11	5.10	-2.10	-0.39		43.75	3
12	3.65	0.35	0.07		47.92	4
13	6.26	-2.26	-0.42		52.08	4
14	8.88	-2.88	-0.54		56.25	6
15	5.68	0.32	0.06		60.42	6
16	9.75	-2.75	-0.51		64.58	7
17	7.13	-0.13	-0.03		68.75	7
18	2.49	5.51	1.03		72.92	8
19	8.59	0.41	0.08		77.08	9
20	10.04	1.96	0.37		81.25	12
21	3.94	9.06	1.69		85.42	13
22	10.33	4.67	0.87		89.58	15
23	7.42	12.58	2.34		93.75	20
24	9.17	11.83	2.20		97.92	21

Red-breasted Merganser

ANWR+CCW

Trend Slope as % of Avg =   7.98%
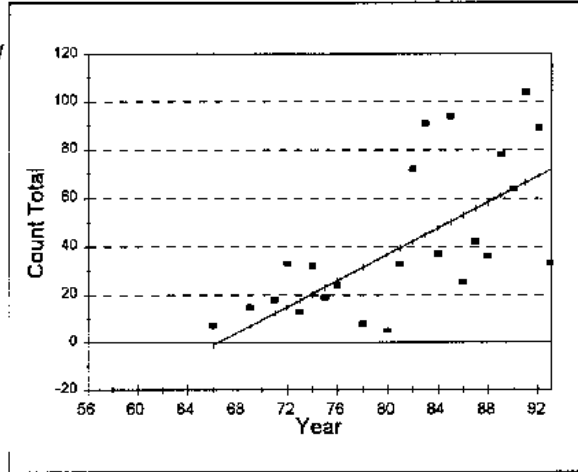
Regression Statistics

Multiple R	0.72
R Square	0.51
Adjusted R Square	0.50
Standard Error	22.80
Observations	29.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	14901.48	14901.48	28.67	0.00
Residual	27.00	14035.49	519.83		
Total	28.00	28936.97			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-180.07	40.20	-4.48	0.00	-262.56	-97.59
x1	2.71	0.51	5.35	0.00	1.67	3.75

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	1.45	-0.45	-0.02	1.72	1
2	9.58	-8.58	-0.38	5.17	1
3	-3.97	4.97	0.22	8.62	1
4	33.97	-30.97	-1.36	12.07	3
5	4.16	-1.16	-0.05	15.52	3
6	28.55	-24.55	-1.08	18.97	4
7	36.67	-31.67	-1.39	22.41	5
8	-1.26	8.26	0.36	25.86	7
9	31.26	-23.26	-1.02	29.31	8
10	17.71	-4.71	-0.21	32.76	13
11	6.87	8.13	0.36	36.21	15
12	12.29	5.71	0.25	39.66	18
13	23.13	-4.13	-0.18	43.10	19
14	25.84	-1.84	-0.08	46.55	24
15	52.93	-27.93	-1.23	50.00	25
16	20.42	11.58	0.51	53.45	32
17	71.90	-38.90	-1.71	56.90	33
18	39.38	-6.38	-0.28	60.34	33
19	15.00	18.00	0.79	63.79	33
20	58.35	-22.35	-0.98	67.24	36
21	47.51	-10.51	-0.46	70.69	37
22	55.64	-13.64	-0.60	74.14	42
23	63.77	0.23	0.01	77.59	64
24	42.09	29.91	1.31	81.03	72
25	61.06	16.94	0.74	84.48	78
26	69.19	19.81	0.87	87.93	89
27	44.80	46.20	2.03	91.38	91
28	50.22	43.78	1.92	94.83	94
29	66.48	37.52	1.65	98.28	104

Red-breasted Merganser

ANWR

3 outliers removed

Trend Slope as % of Avg =   5.89%

Regression Statistics

Multiple R	0.54
R Square	0.29
Adjusted R Square	0.26
Standard Error	14.05
Observations	24
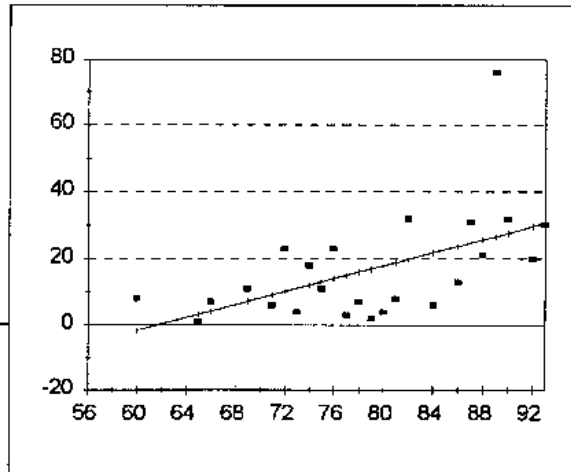
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	1753.31	1753.31	8.88	0.01
Residual	22.00	4342.65	197.39		
Total	23.00	6095.96			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-60.09	25.87	-2.32	0.03	-113.75	-6.44
x1	0.97	0.33	2.98	0.01	0.30	1.65

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	-1.61	9.61	0.68	2.08	1
2	3.26	-2.26	-0.16	6.25	2
3	4.24	2.76	0.20	10.42	3
4	7.16	3.84	0.27	14.58	4
5	9.11	-3.11	-0.22	18.75	4
6	10.08	12.92	0.92	22.92	6
7	11.06	-7.06	-0.50	27.08	6
8	12.03	5.97	0.42	31.25	7
9	13.01	-2.01	-0.14	35.42	7
10	13.98	9.02	0.64	39.58	8
11	14.96	-11.96	-0.85	43.75	8
12	15.93	-8.93	-0.64	47.92	11
13	16.91	-14.91	-1.06	52.08	11
14	17.88	-13.88	-0.99	56.25	13
15	18.86	-10.86	-0.77	60.42	18
16	19.83	12.17	0.87	64.58	20
17	21.78	-15.78	-1.12	68.75	21
18	23.73	-10.73	-0.76	72.92	23
19	24.70	6.30	0.45	77.08	23
20	25.68	-4.68	-0.33	81.25	30
21	26.65	49.35	3.51	85.42	31
22	27.63	4.37	0.31	89.58	32
23	29.58	-9.58	-0.68	93.75	32
24	30.55	-0.55	-0.04	97.92	76

Red-breasted Merganser

1 outlier removed

Trend Slope as % of Avg =   6.08%

Regression Statistics

Multiple R	0.45
R Square	0.20
Adjusted R Square	0.17
Standard Error	11.06
Observations	26.00

CCW
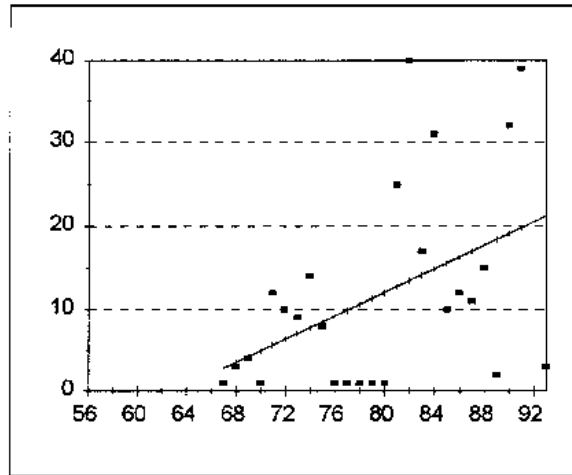
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	751.04	751.04	6.14	0.02
Residual	24.00	2934.49	122.27		
Total	25.00	3685.54			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-44.81	22.90	-1.96	0.06	-92.07	2.46
x1	0.71	0.29	2.48	0.02	0.12	1.30

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	11.31	-10.31	-0.93	1.92	1
2	2.79	-1.79	-0.16	5.77	1
3	4.92	-3.92	-0.35	9.62	1
4	9.18	-8.18	-0.74	13.46	1
5	9.89	-8.89	-0.80	17.31	1
6	12.02	-11.02	-1.00	21.15	1
7	10.60	-9.60	-0.87	25.00	1
8	18.41	-16.41	-1.48	28.85	2
9	3.50	-0.50	-0.04	32.69	3
10	21.25	-18.25	-1.65	36.54	3
11	4.21	-0.21	-0.02	40.38	4
12	8.47	-0.47	-0.04	44.23	8
13	7.05	1.95	0.18	48.08	9
14	15.57	-5.57	-0.50	51.92	10
15	6.34	3.66	0.33	55.77	10
16	16.99	-5.99	-0.54	59.62	11
17	16.28	-4.28	-0.39	63.46	12
18	5.63	6.37	0.58	67.31	12
19	7.76	6.24	0.56	71.15	14
20	17.70	-2.70	-0.24	75.00	15
21	14.15	2.85	0.26	78.85	17
22	12.73	12.27	1.11	82.69	25
23	14.86	16.14	1.46	86.54	31
24	19.12	12.88	1.16	90.38	32
25	19.83	19.17	1.73	94.23	39
26	13.44	26.56	2.40	98.08	40

Ruddy Duck

ANWR+CCW

2 outliers removed

Trend Slope as % of Avg =   4.45%

Regression Statistics

Multiple R	0.39
R Square	0.15
Adjusted R Square	0.12
Standard Error	69.90
Observations	29.00
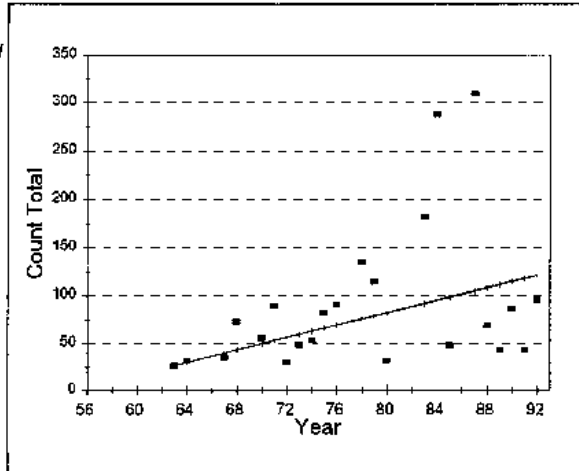
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	23890.54	23890.54	4.89	0.04
Residual	27.00	131904.63	4885.36		
Total	28.00	155795.17			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-179.45	115.14	-1.56	0.13	-415.69	56.80
x1	3.27	1.48	2.21	0.04	0.24	6.30

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	33.08	-28.08	-0.40		1.72	5
2	36.35	-31.35	-0.45		5.17	5
3	46.15	-36.15	-0.52		8.62	10
4	72.31	-59.31	-0.85		12.07	13
5	88.66	-69.66	-1.00		15.52	19
6	101.74	-80.74	-1.16		18.97	21
7	26.54	-0.54	-0.01		22.41	26
8	55.96	-25.96	-0.37		25.86	30
9	29.81	2.19	0.03		29.31	32
10	82.12	-50.12	-0.72		32.76	32
11	39.62	-4.62	-0.07		36.21	35
12	111.55	-68.55	-0.98		39.66	43
13	118.09	-75.09	-1.07		43.10	43
14	98.47	-50.47	-0.72		46.55	48
15	59.23	-11.23	-0.16		50.00	48
16	62.50	-9.50	-0.14		53.45	53
17	49.42	5.58	0.08		56.90	55
18	108.28	-39.28	-0.56		60.34	69
19	42.89	30.11	0.43		63.79	73
20	65.77	16.23	0.23		67.24	82
21	114.82	-27.82	-0.40		70.69	87
22	52.69	36.31	0.52		74.14	89
23	69.04	21.96	0.31		77.59	91
24	121.36	-25.36	-0.36		81.03	96
25	78.85	35.15	0.50		84.48	114
26	75.58	59.42	0.85		87.93	135
27	91.93	90.07	1.29		91.38	182
28	95.20	192.80	2.76		94.83	288
29	105.01	203.99	2.92		98.28	309

Ruddy Duck

ANWR

2 outliers removed

Trend Slope as % of Avg =   3.28%

Regression Statistics

Multiple R	0.22
R Square	0.05
Adjusted R Square	0.02
Standard Error	54.60
Observations	34
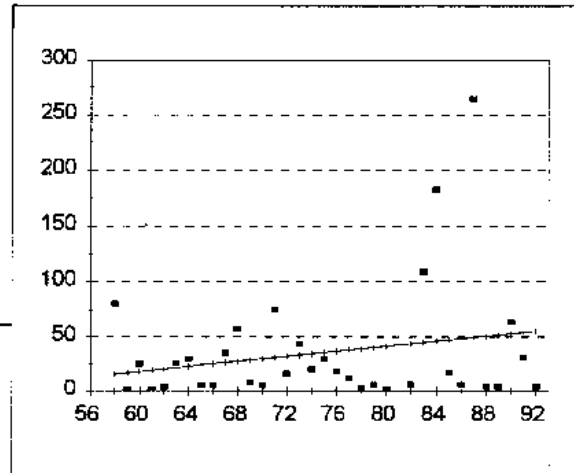
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	4732.03	4732.03	1.58	0.22
Residual	32.00	96105.03	3003.28		
Total	33.00	100837.06			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-51.30	69.62	-0.74	0.47	-193.12	90.52
x1	1.16	0.92	1.26	0.22	-0.72	3.04

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	15.82	64.18	1.17	1.47	2
2	16.98	-14.98	-0.27	4.41	2
3	18.14	6.86	0.13	7.35	2
4	19.30	-17.30	-0.32	10.29	3
5	20.45	-16.45	-0.30	13.24	4
6	21.61	4.39	0.08	16.18	4
7	22.77	7.23	0.13	19.12	4
8	23.93	-18.93	-0.35	22.06	4
9	25.08	-20.08	-0.37	25.00	5
10	26.24	8.76	0.16	27.94	5
11	27.40	29.60	0.54	30.88	5
12	28.55	-20.55	-0.38	33.82	6
13	29.71	-24.71	-0.45	36.76	6
14	30.87	44.13	0.81	39.71	6
15	32.03	-16.03	-0.29	42.65	8
16	33.18	9.82	0.18	45.59	12
17	34.34	-14.34	-0.26	48.53	16
18	35.50	-5.50	-0.10	51.47	17
19	36.66	-18.66	-0.34	54.41	18
20	37.81	-25.81	-0.47	57.35	20
21	38.97	-35.97	-0.66	60.29	25
22	40.13	-34.13	-0.62	63.24	26
23	41.28	-39.28	-0.72	66.18	30
24	43.60	-37.60	-0.69	69.12	30
25	44.76	64.24	1.17	72.06	31
26	45.91	137.09	2.50	75.00	35
27	47.07	-30.07	-0.55	77.94	43
28	48.23	-42.23	-0.77	80.88	57
29	49.39	214.61	3.92	83.82	63
30	50.54	-46.54	-0.85	86.76	75
31	51.70	-47.70	-0.87	89.71	80
32	52.86	10.14	0.19	92.65	109
33	54.02	-23.02	-0.42	95.59	183
34	55.17	-51.17	-0.93	98.53	264

Ruddy Duck

Data Corrected:
Count/(Party Hours^B)
where B = .49

   2 outliers removed

Trend Slope as % of Avg =   3.57%

CCW

Regression Statistics

Multiple R	0.32
R Square	0.10
Adjusted R Square	0.06
Standard Error	3.19
Observations	25.00
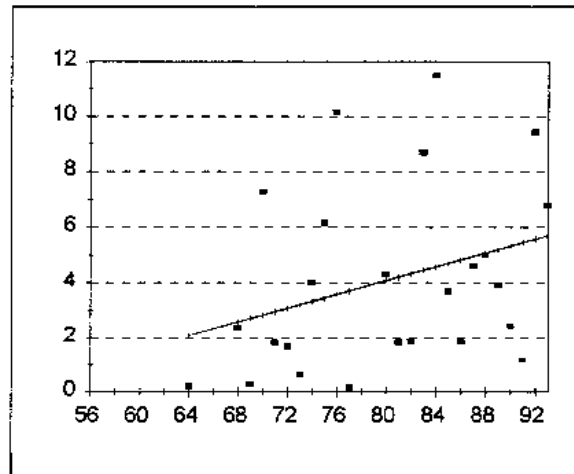
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	26.88	26.88	2.63	0.12
Residual	23.00	234.73	10.21		
Total	24.00	261.61			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-5.94	6.20	-0.96	0.35	-18.75	6.88
x1	0.13	0.08	1.62	0.12	-0.03	0.28

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	3.69	-3.53	-1.11		2.00	0
2	2.06	-1.86	-0.58		6.00	0
3	2.69	-2.42	-0.76		10.00	0
4	3.19	-2.53	-0.79		14.00	1
5	5.44	-4.27	-1.34		18.00	1
6	3.06	-1.40	-0.44		22.00	2
7	2.94	-1.14	-0.36		26.00	2
8	4.19	-2.37	-0.74		30.00	2
9	4.81	-2.98	-0.93		34.00	2
10	4.31	-2.46	-0.77		38.00	2
11	2.56	-0.21	-0.07		42.00	2
12	5.31	-2.88	-0.90		46.00	2
13	4.69	-1.02	-0.32		50.00	4
14	5.19	-1.31	-0.41		54.00	4
15	3.31	0.69	0.22		58.00	4
16	4.06	0.22	0.07		62.00	4
17	4.94	-0.34	-0.11		66.00	5
18	5.06	-0.06	-0.02		70.00	5
19	3.44	2.71	0.85		74.00	6
20	5.69	1.10	0.34		78.00	7
21	2.81	4.47	1.40		82.00	7
22	4.44	4.25	1.33		86.00	9
23	5.56	3.84	1.20		90.00	9
24	3.56	6.59	2.06		94.00	10
25	4.56	6.92	2.17		98.00	11

Bald Eagle

ANWR
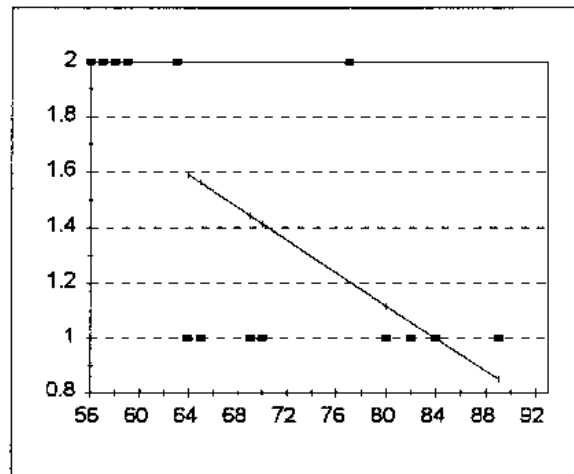
Trend Slope as % of Avg =   -2.07%

Regression Statistics

Multiple R	0.64
R Square	0.41
Adjusted R Square	0.36
Standard Error	0.41
Observations	14.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	1.39	1.39	8.20	0.01
Residual	12.00	2.04	0.17		
Total	13.00	3.43			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	3.49	0.73	4.79	0.00	1.90	5.07
x1	-0.03	0.01	-2.86	0.01	-0.05	-0.01

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	1.59	-0.59	-1.44	3.57	1
2	1.00	0.00	0.00	10.71	1
3	0.85	0.15	0.36	17.86	1
4	1.12	-0.12	-0.29	25.00	1
5	1.44	-0.44	-1.08	32.14	1
6	1.41	-0.41	-1.00	39.29	1
7	1.56	-0.56	-1.36	46.43	1
8	1.06	-0.06	-0.14	53.57	1
9	1.77	0.23	0.56	60.71	2
10	1.80	0.20	0.49	67.86	2
11	1.83	0.17	0.42	75.00	2
12	1.21	0.79	1.93	82.14	2
13	1.62	0.38	0.92	89.29	2
14	1.74	0.26	0.63	96.43	2

White-tailed Hawk

ANWR+CCW

Trend Slope as % of Avg =   5.98%
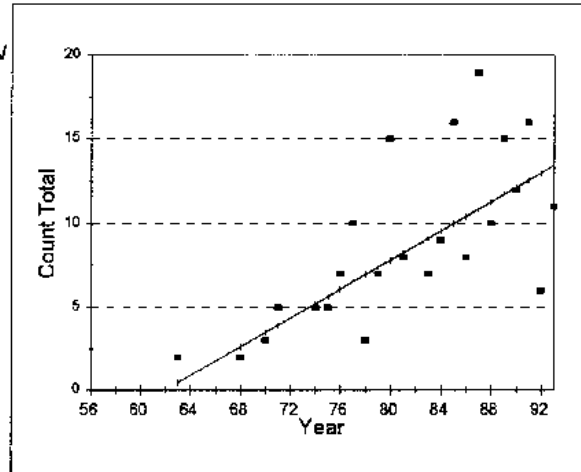
Regression Statistics

Multiple R	0.74
R Square	0.55
Adjusted R Square	0.53
Standard Error	3.61
Observations	29.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	424.32	424.32	32.64	0.00
Residual	27.00	350.99	13.00		
Total	28.00	775.31			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-26.82	6.00	-4.47	0.00	-39.13	-14.51
x1	0.43	0.08	5.71	0.00	0.28	0.59

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	8.67	-7.67	-2.13		1.72	1
2	1.75	-0.75	-0.21		5.17	1
3	0.88	0.12	0.03		8.62	1
4	4.78	-2.78	-0.77		12.07	2
5	4.35	-2.35	-0.65		15.52	2
6	1.32	0.68	0.19		18.97	2
7	0.45	1.55	0.43		22.41	2
8	2.61	-0.61	-0.17		25.86	2
9	6.94	-3.94	-1.09		29.31	3
10	3.48	-0.48	-0.13		32.76	3
11	3.91	1.09	0.30		36.21	5
12	5.21	-0.21	-0.06		39.66	5
13	5.64	-0.64	-0.18		43.10	5
14	13.00	-7.00	-1.94		46.55	6
15	9.11	-2.11	-0.58		50.00	7
16	7.38	-0.38	-0.10		53.45	7
17	6.08	0.92	0.26		56.90	7
18	10.41	-2.41	-0.67		60.34	8
19	8.24	-0.24	-0.07		63.79	8
20	9.54	-0.54	-0.15		67.24	9
21	11.27	-1.27	-0.35		70.69	10
22	6.51	3.49	0.97		74.14	10
23	13.44	-2.44	-0.68		77.59	11
24	12.14	-0.14	-0.04		81.03	12
25	7.81	7.19	1.99		84.48	15
26	11.70	3.30	0.91		87.93	15
27	9.97	6.03	1.67		91.38	16
28	12.57	3.43	0.95		94.83	16
29	10.84	8.16	2.26		98.28	19

White-tailed Hawk

ANWR

Trend Slope as % of Avg =   4.26%
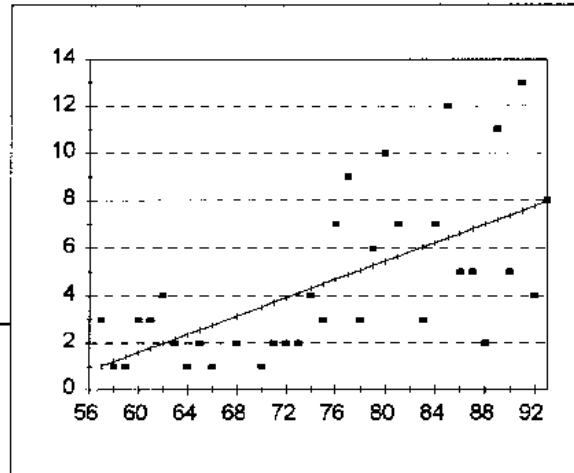
Regression Statistics

Multiple R	0.64
R Square	0.40
Adjusted R Square	0.39
Standard Error	2.64
Observations	34

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	151.23	151.23	21.68	0.00
Residual	32.00	223.25	6.98		
Total	33.00	374.47			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-9.97	3.15	-3.17	0.00	-16.38	-3.56
x1	0.19	0.04	4.66	0.00	0.11	0.28

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	1.02	1.98	0.75	1.47	1
2	1.21	-0.21	-0.08	4.41	1
3	1.40	-0.40	-0.15	7.35	1
4	1.60	1.40	0.53	10.29	1
5	1.79	1.21	0.46	13.24	1
6	1.98	2.02	0.76	16.18	2
7	2.18	-0.18	-0.07	19.12	2
8	2.37	-1.37	-0.52	22.06	2
9	2.56	-0.56	-0.21	25.00	2
10	2.75	-1.75	-0.66	27.94	2
11	3.14	-1.14	-0.43	30.88	2
12	3.53	-2.53	-0.96	33.82	2
13	3.72	-1.72	-0.65	36.76	3
14	3.91	-1.91	-0.72	39.71	3
15	4.10	-2.10	-0.80	42.65	3
16	4.30	-0.30	-0.11	45.59	3
17	4.49	-1.49	-0.56	48.53	3
18	4.68	2.32	0.88	51.47	3
19	4.88	4.12	1.56	54.41	4
20	5.07	-2.07	-0.78	57.35	4
21	5.26	0.74	0.28	60.29	4
22	5.45	4.55	1.72	63.24	5
23	5.65	1.35	0.51	66.18	5
24	6.03	-3.03	-1.15	69.12	5
25	6.23	0.77	0.29	72.06	6
26	6.42	5.58	2.11	75.00	7
27	6.61	-1.61	-0.61	77.94	7
28	6.80	-1.80	-0.68	80.88	7
29	7.00	-5.00	-1.89	83.82	8
30	7.19	3.81	1.44	86.76	9
31	7.38	-2.38	-0.90	89.71	10
32	7.57	5.43	2.05	92.65	11
33	7.77	-3.77	-1.43	95.59	12
34	7.96	0.04	0.01	98.53	13

White-tailed Hawk

1 outlier removed

Trend Slope as % of Avg =   4.12%

Regression Statistics

Multiple R	0.43
R Square	0.19
Adjusted R Square	0.14
Standard Error	1.85
Observations	19.00

CCW
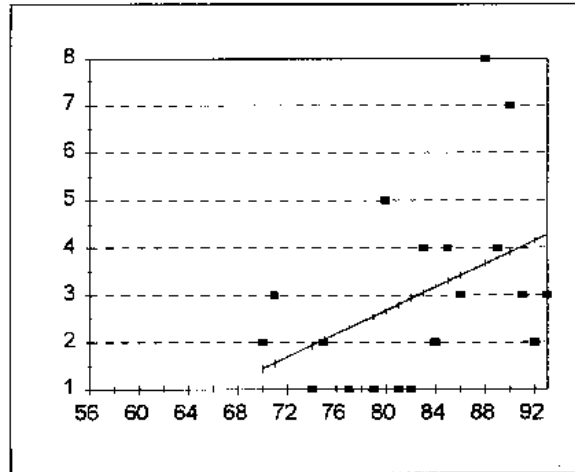
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	13.59	13.59	3.95	0.06
Residual	17.00	58.41	3.44		
Total	18.00	72.00			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-7.21	5.15	-1.40	0.18	-18.07	3.66
x1	0.12	0.06	1.99	0.06	-0.01	0.25

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	2.30	-1.30	-0.70	2.63	1
2	1.93	-0.93	-0.50	7.89	1
3	2.92	-1.92	-1.04	13.16	1
4	2.80	-1.80	-0.97	18.42	1
5	2.55	-1.55	-0.84	23.68	1
6	2.06	-0.06	-0.03	28.95	2
7	3.17	-1.17	-0.63	34.21	2
8	1.44	0.56	0.30	39.47	2
9	4.16	-2.16	-1.16	44.74	2
10	1.56	1.44	0.78	50.00	3
11	4.28	-1.28	-0.69	55.26	3
12	4.03	-1.03	-0.56	60.53	3
13	3.42	-0.42	-0.22	65.79	3
14	3.05	0.95	0.51	71.05	4
15	3.79	0.21	0.12	76.32	4
16	3.29	0.71	0.38	81.58	4
17	2.67	2.33	1.25	86.84	5
18	3.91	3.09	1.67	92.11	7
19	3.66	4.34	2.34	97.37	8

Ferruginous Hawk

ANWR+CCW

3 outliers removed

Trend Slope as % of Avg =   1.52%

Regression Statistics

Multiple R	0.23
R Square	0.05
Adjusted R Square	-0.00
Standard Error	0.77
Observations	18.00
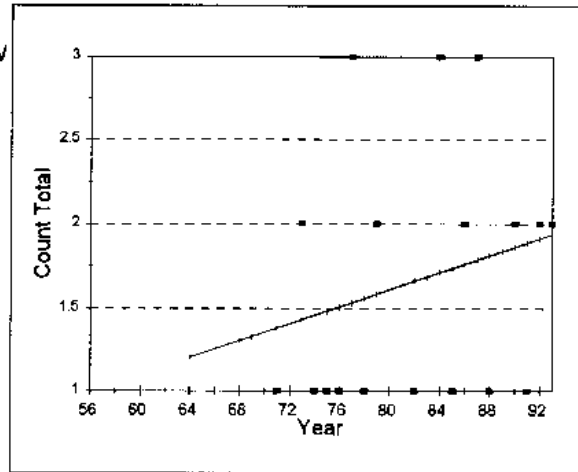
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	0.55	0.55	0.93	0.35
Residual	16.00	9.45	0.59		
Total	17.00	10.00			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-0.42	2.17	-0.19	0.85	-5.02	4.18
x1	0.03	0.03	0.96	0.35	-0.03	0.08

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	1.51	-0.51	-0.66	2.78	1
2	1.38	-0.38	-0.50	8.33	1
3	1.46	-0.46	-0.59	13.89	1
4	1.56	-0.56	-0.73	19.44	1
5	1.66	-0.66	-0.86	25.00	1
6	1.89	-0.89	-1.15	30.56	1
7	1.48	-0.48	-0.63	36.11	1
8	1.74	-0.74	-0.96	41.67	1
9	1.81	-0.81	-1.06	47.22	1
10	1.91	0.09	0.11	52.78	2
11	1.94	0.06	0.08	58.33	2
12	1.86	0.14	0.18	63.89	2
13	1.43	0.57	0.74	69.44	2
14	1.58	0.42	0.54	75.00	2
15	1.76	0.24	0.31	80.56	2
16	1.53	1.47	1.91	86.11	3
17	1.71	1.29	1.68	91.67	3
18	1.79	1.21	1.58	97.22	3

Ferruginous Hawk

CCW

2 outliers removed

Trend Slope as % of Avg =   1.65%

Regression Statistics

Multiple R	0.25
R Square	0.06
Adjusted R Square	0.01
Standard Error	0.77
Observations	19.00
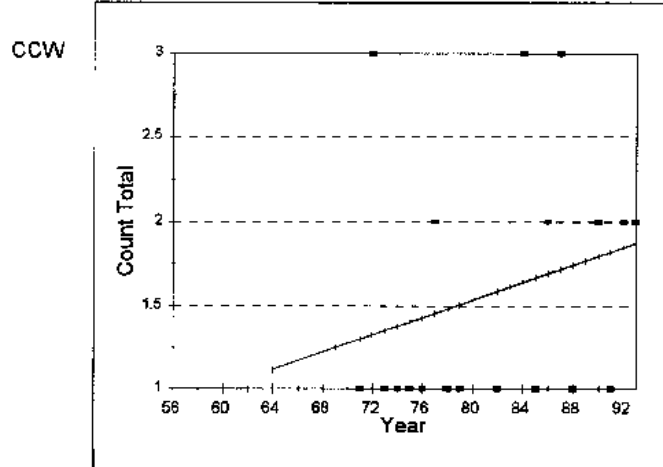
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	0.65	0.65	1.10	0.31
Residual	17.00	9.98	0.59		
Total	18.00	10.63			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-0.55	2.03	-0.27	0.79	-4.84	3.74
x1	0.03	0.02	1.05	0.31	-0.03	0.08

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	1.35	-0.35	-0.46	2.63	1
2	1.38	-0.38	-0.49	7.89	1
3	1.30	-0.30	-0.39	13.16	1
4	1.43	-0.43	-0.56	18.42	1
5	1.40	-0.40	-0.53	23.68	1
6	1.82	-0.82	-1.07	28.95	1
7	1.51	-0.51	-0.66	34.21	1
8	1.59	-0.59	-0.76	39.47	1
9	1.48	-0.48	-0.63	44.74	1
10	1.66	-0.66	-0.87	50.00	1
11	1.74	-0.74	-0.97	55.26	1
12	1.46	0.54	0.71	60.53	2
13	1.69	0.31	0.40	65.79	2
14	1.85	0.15	0.20	71.05	2
15	1.87	0.13	0.17	76.32	2
16	1.79	0.21	0.27	81.58	2
17	1.33	1.67	2.19	86.84	3
18	1.64	1.36	1.78	92.11	3
19	1.72	1.28	1.68	97.37	3

Merlin

ANWR+CCW

3 outliers removed

Trend Slope as % of Avg =   2.41%

Regression Statistics

Multiple R	0.33
R Square	0.11
Adjusted R Square	0.06
Standard Error	0.93
Observations	19.00
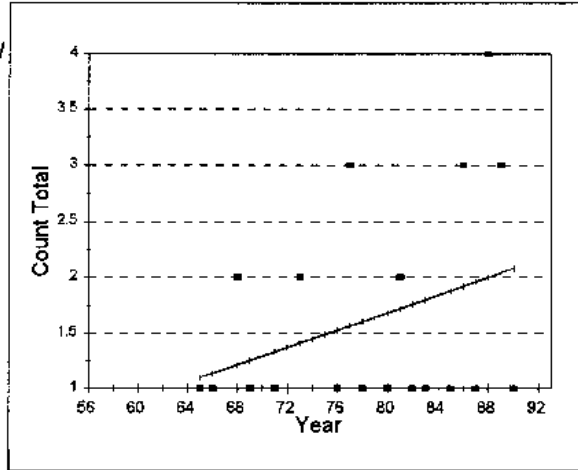
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	1.83	1.83	2.13	0.16
Residual	17.00	14.59	0.86		
Total	18.00	16.42			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-1.47	2.13	-0.69	0.50	-5.97	3.03
x1	0.04	0.03	1.46	0.16	-0.02	0.10

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	1.13	-0.13	-0.14	2.63	1
2	1.25	-0.25	-0.27	7.89	1
3	1.09	-0.09	-0.10	13.16	1
4	1.53	-0.53	-0.57	18.42	1
5	1.33	-0.33	-0.36	23.68	1
6	2.08	-1.08	-1.17	28.95	1
7	1.69	-0.69	-0.74	34.21	1
8	1.80	-0.80	-0.87	39.47	1
9	1.88	-0.88	-0.95	44.74	1
10	1.61	-0.61	-0.65	50.00	1
11	1.96	-0.96	-1.04	55.26	1
12	1.76	-0.76	-0.82	60.53	1
13	1.41	0.59	0.64	65.79	2
14	1.72	0.28	0.30	71.05	2
15	1.21	0.79	0.85	76.32	2
16	2.04	0.96	1.04	81.58	3
17	1.57	1.43	1.55	86.84	3
18	1.92	1.08	1.16	92.11	3
19	2.00	2.00	2.16	97.37	4

Merlin

2 outliers removed

Trend Slope as % of Avg =   2.28%

Regression Statistics

Multiple R	0.31
R Square	0.10
Adjusted R Square	0.01
Standard Error	1.02
Observations	13.00

ANWR
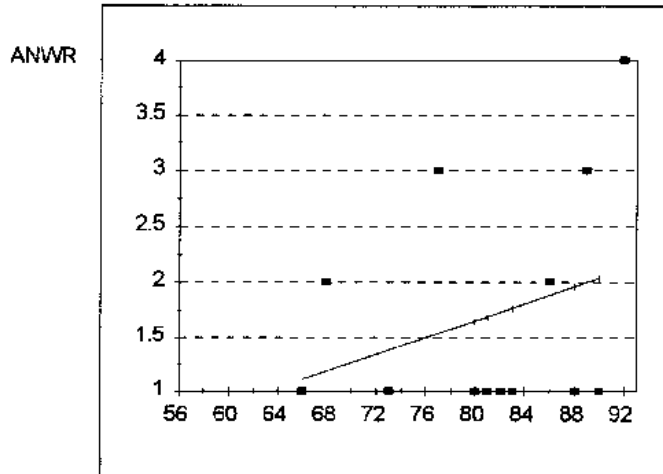
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	1.22	1.22	1.16	0.30
Residual	11.00	11.55	1.05		
Total	12.00	12.77			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-1.44	2.92	-0.49	0.63	-7.86	4.99
x1	0.04	0.04	1.08	0.30	-0.04	0.12

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	1.11	-0.11	-0.11		3.85	1
2	1.65	-0.65	-0.63		11.54	1
3	1.69	-0.69	-0.67		19.23	1
4	1.76	-0.76	-0.75		26.92	1
5	2.03	-1.03	-1.01		34.62	1
6	1.96	-0.96	-0.93		42.31	1
7	1.38	-0.38	-0.37		50.00	1
8	1.72	-0.72	-0.71		57.69	1
9	1.18	0.82	0.80		65.38	2
10	1.88	0.12	0.12		73.08	2
11	1.99	1.01	0.98		80.77	3
12	1.53	1.47	1.43		88.46	3
13	2.11	1.89	1.84		96.15	4

Merlin

CCW

Trend Slope as % of Avg =   3.16%

Regression Statistics

Multiple R	0.42
R Square	0.18
Adjusted R Square	0.11
Standard Error	0.88
Observations	14.00
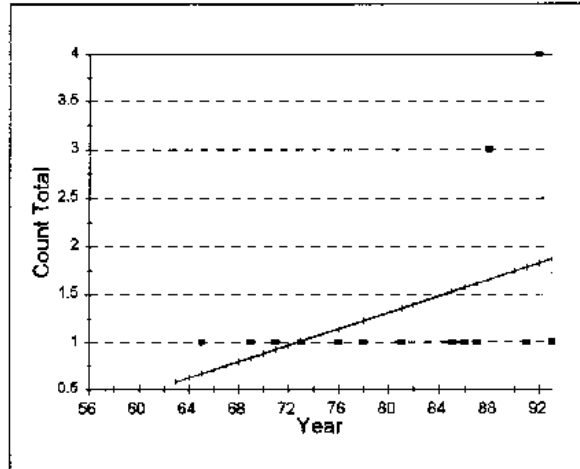
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	2.00	2.00	2.60	0.13
Residual	12.00	9.22	0.77		
Total	13.00	11.21			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-2.12	2.17	-0.98	0.35	-6.83	2.60
x1	0.04	0.03	1.61	0.13	-0.02	0.10

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	1.87	-0.87	-0.99	3.57	1
2	1.53	-0.53	-0.60	10.71	1
3	1.78	-0.78	-0.89	17.86	1
4	1.61	-0.61	-0.70	25.00	1
5	1.57	-0.57	-0.65	32.14	1
6	0.93	0.07	0.08	39.29	1
7	1.01	-0.01	-0.01	46.43	1
8	0.67	0.33	0.38	53.57	1
9	0.84	0.16	0.18	60.71	1
10	1.23	-0.23	-0.26	67.86	1
11	1.35	-0.35	-0.40	75.00	1
12	1.14	-0.14	-0.16	82.14	1
13	1.65	1.35	1.54	89.29	3
14	1.83	2.17	2.48	96.43	4

Peregrine Falcon

ANWR+CCW

3 outliers removed

Trend Slope as % of Avg = 0.41%

Regression Statistics

Multiple R	0.09
R Square	0.01
Adjusted R Square	-0.07
Standard Error	0.50
Observations	15.00
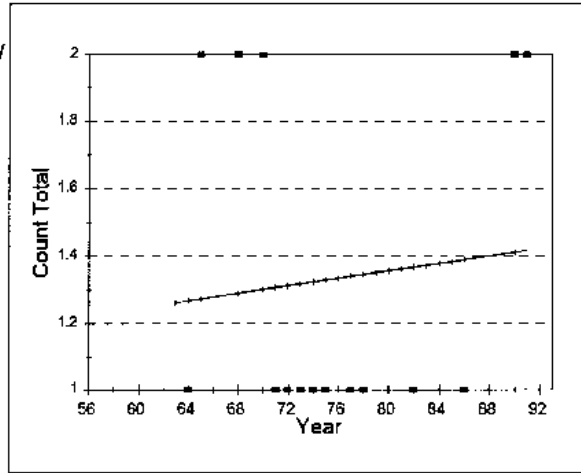
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	0.03	0.03	0.11	0.74
Residual	13.00	3.30	0.25		
Total	14.00	3.33			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	0.92	1.23	0.75	0.46	-1.73	3.57
x1	0.01	0.02	0.34	0.74	-0.03	0.04

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	1.34	-0.34	-0.67	3.33	1
2	1.33	-0.33	-0.65	10.00	1
3	1.32	-0.32	-0.64	16.67	1
4	1.32	-0.32	-0.63	23.33	1
5	1.39	-0.39	-0.77	30.00	1
6	1.37	-0.37	-0.73	36.67	1
7	1.35	-0.35	-0.69	43.33	1
8	1.27	-0.27	-0.53	50.00	1
9	1.31	-0.31	-0.61	56.67	1
10	1.31	-0.31	-0.62	63.33	1
11	1.27	0.73	1.44	70.00	2
12	1.42	0.58	1.16	76.67	2
13	1.41	0.59	1.17	83.33	2
14	1.30	0.70	1.38	90.00	2
15	1.29	0.71	1.41	96.67	2

Peregrine Falcon

Trend Slope as % of Avg =   0.69%

ANWR
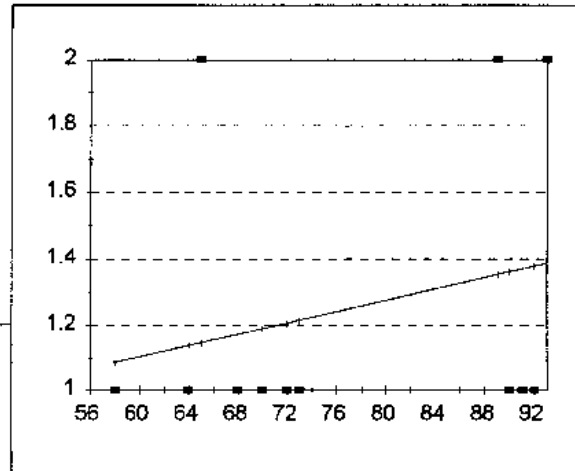
Regression Statistics

Multiple R	0.25
R Square	0.06
Adjusted R Square	-0.03
Standard Error	0.46
Observations	12

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	0.14	0.14	0.64	0.44
Residual	10.00	2.11	0.21		
Total	11.00	2.25			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	0.59	0.84	0.70	0.50	-1.28	2.46
x1	0.01	0.01	0.80	0.44	-0.02	0.03

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	1.09	-0.09	-0.19	4.17	1
2	1.14	-0.14	-0.30	12.50	1
3	1.15	0.85	1.86	20.83	1
4	1.17	-0.17	-0.37	29.17	1
5	1.19	-0.19	-0.41	37.50	1
6	1.21	-0.21	-0.45	45.83	1
7	1.21	-0.21	-0.47	54.17	1
8	1.35	0.65	1.41	62.50	1
9	1.36	-0.36	-0.78	70.83	1
10	1.37	-0.37	-0.80	79.17	2
11	1.38	-0.38	-0.82	87.50	2
12	1.39	0.61	1.33	95.83	2

Peregrine Falcon

CCW
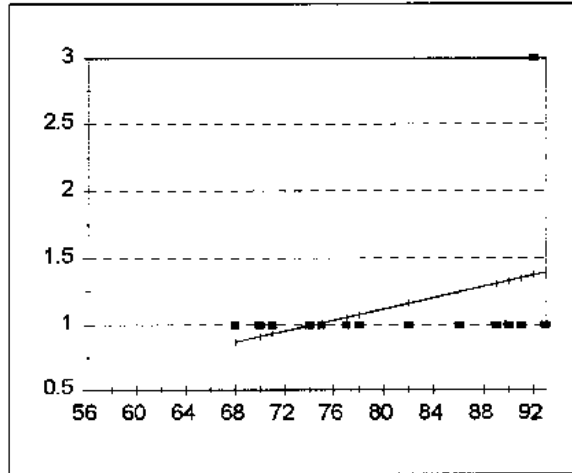
Trend Slope as % of Avg =   1.83%

Regression Statistics

Multiple R	0.35
R Square	0.12
Adjusted R Square	0.05
Standard Error	0.52
Observations	14.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	0.46	0.46	1.68	0.22
Residual	12.00	3.26	0.27		
Total	13.00	3.71			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-0.56	1.32	-0.42	0.68	-3.44	2.32
x1	0.02	0.02	1.29	0.22	-0.01	0.06

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	1.33	-0.33	-0.63	3.57	1
2	1.31	-0.31	-0.59	10.71	1
3	1.35	-0.35	-0.67	17.86	1
4	1.39	-0.39	-0.75	25.00	1
5	1.24	-0.24	-0.47	32.14	1
6	0.93	0.07	0.13	39.29	1
7	0.99	0.01	0.01	46.43	1
8	0.87	0.13	0.25	53.57	1
9	0.91	0.09	0.17	60.71	1
10	1.08	-0.08	-0.15	67.86	1
11	1.16	-0.16	-0.31	75.00	1
12	1.01	-0.01	-0.03	82.14	1
13	1.06	-0.06	-0.11	89.29	1
14	1.37	1.63	3.13	96.43	3

Gr. Prairie Chicken

ANWR

1 outlier removed

Trend Slope as % of Avg =   0.76%

Regression Statistics

Multiple R	0.07
R Square	0.00
Adjusted R Square	-0.49
Standard Error	0.61
Observations	4.00
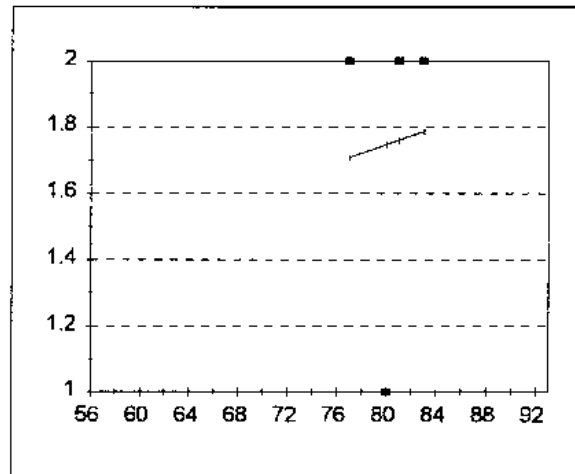
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	0.00	0.00	0.01	0.93
Residual	2.00	0.75	0.37		
Total	3.00	0.75			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	0.68	11.33	0.06	0.96	-48.06	49.42
x1	0.01	0.14	0.09	0.93	-0.59	0.62

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	1.75	-0.75	-1.22		12.50	1
2	1.79	0.21	0.35		37.50	2
3	1.76	0.24	0.39		62.50	2
4	1.71	0.29	0.48		87.50	2

Sandhill Crane

ANWR+CCW

Trend Slope as % of Avg =   3.26%
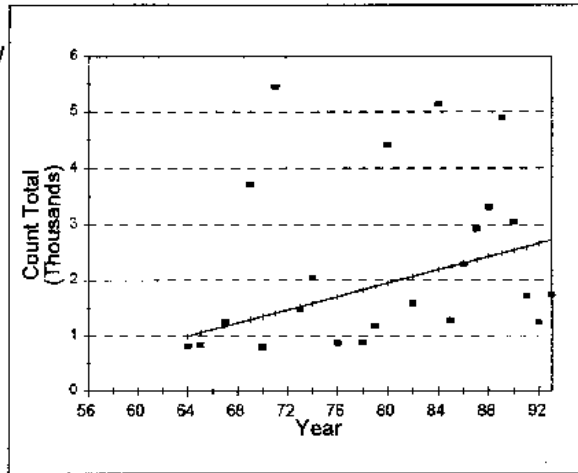
Regression Statistics

Multiple R	0.35
R Square	0.13
Adjusted R Square	0.10
Standard Error	1454.97
Observations	31.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	8842764.41	8842764.41	4.18	0.05
Residual	29.00	61390901.46	2116927.64		
Total	30.00	70233665.87			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-2823.67	2293.82	-1.23	0.23	-7515.05	1867.71
x1	59.71	29.22	2.04	0.05	-0.04	119.47

| Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	938.24	-917.24	-0.63	1.61	21
2	1654.80	-1353.80	-0.93	4.84	301
3	1117.38	-726.38	-0.50	8.06	391
4	1475.66	-1037.66	-0.71	11.29	438
5	2013.07	-1423.07	-0.98	14.52	590
6	1236.81	-537.81	-0.37	17.74	699
7	1774.22	-1047.22	-0.72	20.97	727
8	2132.50	-1385.50	-0.95	24.19	747
9	1356.23	-561.23	-0.39	27.42	795
10	997.95	-182.95	-0.13	30.65	815
11	1057.67	-222.67	-0.15	33.87	835
12	1714.51	-841.51	-0.58	37.10	873
13	1833.94	-950.94	-0.65	40.32	883
14	1893.65	-709.65	-0.49	43.55	1184
15	2669.92	-1425.92	-0.98	46.77	1244
16	1177.09	71.91	0.05	50.00	1249
17	2251.93	-971.93	-0.67	53.23	1280
18	1535.37	-53.37	-0.04	56.45	1482
19	2072.79	-480.79	-0.33	59.68	1592
20	2610.20	-892.20	-0.61	62.90	1718
21	2729.63	-991.63	-0.68	66.13	1738
22	1595.08	451.92	0.31	69.35	2047
23	2311.64	-20.64	-0.01	72.58	2291
24	2371.35	553.65	0.38	75.81	2925
25	2550.49	496.51	0.34	79.03	3047
26	2431.06	876.94	0.60	82.26	3308
27	1296.52	2422.48	1.66	85.48	3719
28	1953.36	2468.64	1.70	88.71	4422
29	2490.78	2409.22	1.66	91.94	4900
30	2192.21	2944.79	2.02	95.16	5137
31	1415.95	4038.05	2.78	98.39	5454

Sandhill Crane

Data Corrected:
Count/(Party Hours^B)
where B = .42

ANWR

2 outliers removed

Trend Slope as % of Avg = -0.47%

Chart (ANWR): y-axis 0, 100, 200, 300, 400, 500, 600; x-axis 56, 60, 64, 68, 72, 76, 80, 84, 88, 92
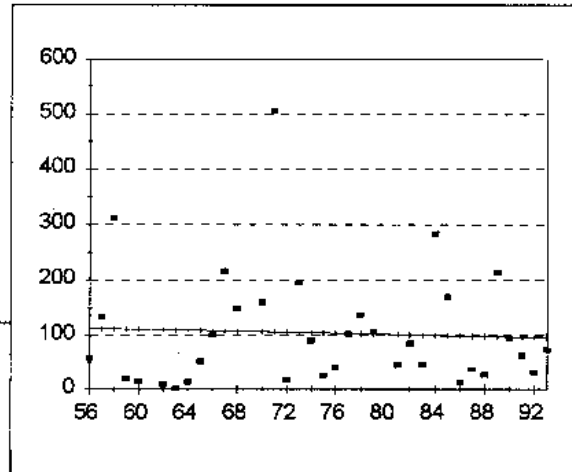
Regression Statistics

Multiple R	0.05
R Square	0.00
Adjusted R Square	-0.03
Standard Error	107.21
Observations	35

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	989.32	989.32	0.09	0.77
Residual	33.00	379266.52	11492.92		
Total	34.00	380255.84			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	139.64	123.46	1.13	0.27	-111.54	390.82
x1	-0.48	1.63	-0.29	0.77	-3.80	2.84

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	112.84	-54.17	-0.51	1.43	2
2	112.37	20.27	0.19	4.29	9
3	111.89	200.20	1.87	7.14	12
4	111.41	-91.67	-0.86	10.00	14
5	110.93	-96.28	-0.90	12.86	15
6	109.97	-100.97	-0.94	15.71	18
7	109.49	-107.27	-1.00	18.57	20
8	109.02	-95.19	-0.89	21.43	25
9	108.54	-56.43	-0.53	24.29	27
10	108.06	-8.19	-0.08	27.14	31
11	107.58	107.93	1.01	30.00	37
12	107.10	40.69	0.38	32.86	40
13	106.15	53.47	0.50	35.71	45
14	105.67	400.95	3.74	38.57	46
15	105.19	-87.29	-0.81	41.43	52
16	104.71	89.51	0.83	44.29	59
17	104.23	-14.96	-0.14	47.14	62
18	103.75	-78.26	-0.73	50.00	72
19	103.27	-62.95	-0.59	52.86	85
20	102.80	-0.79	-0.01	55.71	89
21	102.32	34.00	0.32	58.57	94
22	101.84	5.04	0.05	61.43	100
23	100.88	-55.52	-0.52	64.29	102
24	100.40	-15.61	-0.15	67.14	107
25	99.93	-53.86	-0.50	70.00	133
26	99.45	183.47	1.71	72.86	136
27	98.97	69.63	0.65	75.71	148
28	98.49	-86.05	-0.80	78.57	160
29	98.01	-60.56	-0.56	81.43	169
30	97.53	-70.64	-0.66	84.29	194
31	97.05	116.04	1.08	87.14	213
32	96.58	-2.86	-0.03	90.00	216
33	96.10	-34.59	-0.32	92.86	283
34	95.62	-64.16	-0.60	95.71	312
35	95.14	-22.94	-0.21	98.57	507

Sandhill Crane

4 outliers removed

Trend Slope as % of Avg =   7.32%

Regression Statistics

Multiple R	0.65
R Square	0.43
Adjusted R Square	0.40
Standard Error	585.70
Observations	27.00

CCW
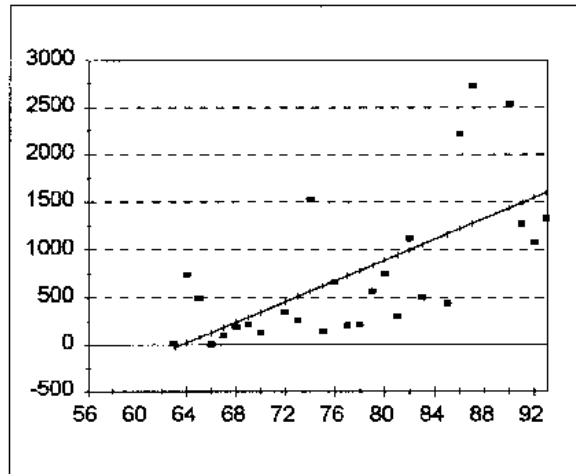
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	6408645.76	6408645.76	18.68	0.00
Residual	25.00	8576032.31	343041.29		
Total	26.00	14984678.07			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-3464.91	980.32	-3.53	0.00	-5483.92	-1445.90
x1	54.48	12.60	4.32	0.00	28.52	80.44

| Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	130.78	-125.78	-0.21	1.85	5
2	-32.66	45.66	0.08	5.56	13
3	185.26	-87.26	-0.15	9.26	98
4	348.70	-219.70	-0.38	12.96	129
5	621.10	-470.10	-0.80	16.67	151
6	239.74	-49.74	-0.08	20.37	190
7	730.06	-526.06	-0.90	24.07	204
8	294.22	-75.22	-0.13	27.78	219
9	784.54	-561.54	-0.96	31.48	223
10	512.14	-247.14	-0.42	35.19	265
11	947.98	-645.98	-1.10	38.89	302
12	457.66	-110.66	-0.19	42.59	347
13	1165.90	-721.90	-1.23	46.30	444
14	76.30	418.70	0.71	50.00	495
15	1056.94	-556.94	-0.95	53.70	500
16	839.02	-276.02	-0.47	57.41	563
17	675.58	-14.58	-0.02	61.11	661
18	21.82	718.18	1.23	64.81	740
19	893.50	-145.50	-0.25	68.52	748
20	1547.26	-465.26	-0.79	72.22	1082
21	1002.46	114.54	0.20	75.93	1117
22	1492.78	-224.78	-0.38	79.63	1268
23	1601.74	-273.74	-0.47	83.33	1328
24	566.62	958.38	1.64	87.04	1525
25	1220.38	995.62	1.70	90.74	2216
26	1438.30	1096.70	1.87	94.44	2535
27	1274.86	1450.14	2.48	98.15	2725

Whooping Crane

Data Corrected:
Count/(Party Hours^B)
where B = .92

ANWR

4 outliers removed

Trend Slope as % of Avg = 0.14%
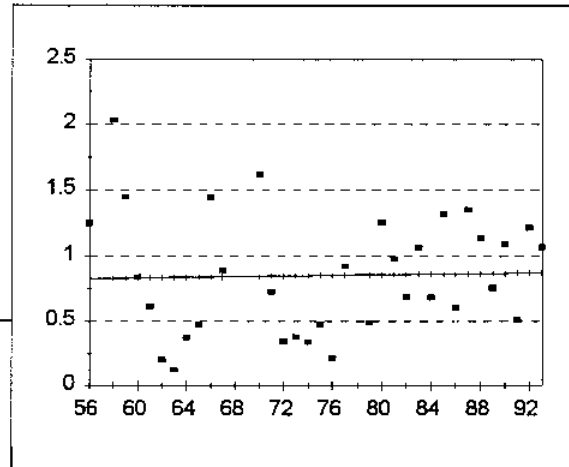
Regression Statistics

Multiple R	0.03
R Square	0.00
Adjusted R Square	-0.03
Standard Error	0.47
Observations	34

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	0.01	0.01	0.03	0.87
Residual	32.00	6.94	0.22		
Total	33.00	6.94			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	0.76	0.55	1.38	0.18	-0.36	1.88
x1	0.00	0.01	0.17	0.87	-0.01	0.02

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	0.83	0.42	0.91	1.47	0
2	0.83	1.20	2.58	4.41	0
3	0.83	0.62	1.33	7.35	0
4	0.83	0.01	0.01	10.29	0
5	0.83	-0.22	-0.47	13.24	0
6	0.83	-0.63	-1.36	16.18	0
7	0.83	-0.71	-1.53	19.12	0
8	0.84	-0.47	-1.00	22.06	0
9	0.84	-0.36	-0.78	25.00	0
10	0.84	0.61	1.31	27.94	0
11	0.84	0.05	0.11	30.88	1
12	0.84	0.78	1.67	33.82	1
13	0.84	-0.12	-0.26	36.76	1
14	0.85	-0.51	-1.09	39.71	1
15	0.85	-0.47	-1.01	42.65	1
16	0.85	-0.51	-1.10	45.59	1
17	0.85	-0.38	-0.81	48.53	1
18	0.85	-0.64	-1.37	51.47	1
19	0.85	0.07	0.15	54.41	1
20	0.85	-0.37	-0.79	57.35	1
21	0.86	0.40	0.85	60.29	1
22	0.86	0.12	0.26	63.24	1
23	0.86	-0.17	-0.36	66.18	1
24	0.86	0.20	0.43	69.12	1
25	0.86	-0.18	-0.38	72.06	1
26	0.86	0.46	0.98	75.00	1
27	0.86	-0.26	-0.55	77.94	1
28	0.86	0.49	1.04	80.88	1
29	0.87	0.27	0.58	83.82	1
30	0.87	-0.11	-0.24	86.76	1
31	0.87	0.22	0.48	89.71	1
32	0.87	-0.36	-0.77	92.65	1
33	0.87	0.34	0.74	95.59	2
34	0.87	0.20	0.42	98.53	2

Black-bellied Plover

ANWR+CCW

3 outliers removed

Trend Slope as % of Avg =   3.56%

Regression Statistics

Multiple R	0.52
R Square	0.27
Adjusted R Square	0.24
Standard Error	60.04
Observations	28.00
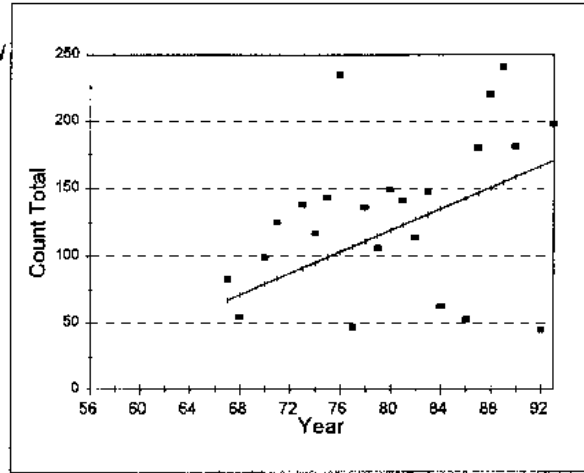
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	34481.05	34481.05	9.56	0.00
Residual	26.00	93738.20	3605.32		
Total	27.00	128219.25			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-198.26	100.72	-1.97	0.06	-405.30	8.78
x1	3.96	1.28	3.09	0.00	1.33	6.60

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	51.50	-45.50	-0.76	1.79	6
2	55.46	-42.46	-0.71	5.36	13
3	138.72	-120.72	-2.01	8.93	18
4	59.43	-40.43	-0.67	12.50	19
5	63.39	-20.39	-0.34	16.07	43
6	166.47	-121.47	-2.02	19.64	45
7	107.00	-60.00	-1.00	23.21	47
8	142.68	-89.68	-1.49	26.79	53
9	71.32	-16.32	-0.27	30.36	55
10	134.75	-71.75	-1.20	33.93	63
11	67.36	15.64	0.26	37.50	83
12	79.25	19.75	0.33	41.07	99
13	114.93	-8.93	-0.15	44.64	106
14	126.82	-12.82	-0.21	48.21	114
15	95.11	21.89	0.36	51.79	117
16	83.22	41.78	0.70	55.36	125
17	110.97	25.03	0.42	58.93	136
18	91.14	46.86	0.78	62.50	138
19	122.86	18.14	0.30	66.07	141
20	99.07	43.93	0.73	69.64	143
21	130.79	16.21	0.27	73.21	147
22	118.90	30.10	0.50	76.79	149
23	146.65	33.35	0.56	80.36	180
24	158.54	22.46	0.37	83.93	181
25	170.43	27.57	0.46	87.50	198
26	150.61	69.39	1.16	91.07	220
27	103.04	131.96	2.20	94.64	235
28	154.58	86.42	1.44	98.21	241

Black-bellied Plover

4 outliers removed

Trend Slope as % of Avg =   5.49%

ANWR

Regression Statistics

Multiple R	0.49
R Square	0.24
Adjusted R Square	0.20
Standard Error	21.09
Observations	25.00
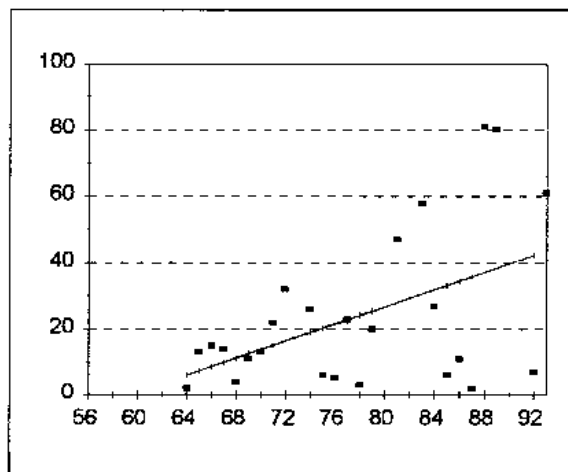
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	3167.54	3167.54	7.12	0.01
Residual	23.00	10232.62	444.90		
Total	24.00	13400.16			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-76.79	37.84	-2.03	0.05	-155.08	1.50
x1	1.29	0.48	2.67	0.01	0.29	2.30

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	35.77	-33.77	-1.60		2.00	2
2	6.02	-4.02	-0.19		6.00	2
3	24.13	-21.13	-1.00		10.00	3
4	11.19	-7.19	-0.34		14.00	4
5	21.54	-16.54	-0.78		18.00	5
6	33.19	-27.19	-1.29		22.00	6
7	20.25	-14.25	-0.68		26.00	6
8	42.24	-35.24	-1.67		30.00	7
9	12.48	-1.48	-0.07		34.00	11
10	34.48	-23.48	-1.11		38.00	11
11	13.78	-0.78	-0.04		42.00	13
12	7.31	5.69	0.27		46.00	13
13	9.90	4.10	0.19		50.00	14
14	8.60	6.40	0.30		54.00	15
15	25.42	-5.42	-0.26		58.00	20
16	15.07	6.93	0.33		62.00	22
17	22.84	0.16	0.01		66.00	23
18	18.95	7.05	0.33		70.00	26
19	31.89	-4.89	-0.23		74.00	27
20	16.37	15.63	0.74		78.00	32
21	28.01	18.99	0.90		82.00	47
22	30.60	27.40	1.30		86.00	58
23	43.54	17.46	0.83		90.00	61
24	38.36	41.64	1.97		94.00	80
25	37.07	43.93	2.08		98.00	81

Black-bellied Plover

Data Corrected:
Count/(Party Hours^B)
where B = .61

    4 outliers removed

Trend Slope as % of Avg =   0.81%

Regression Statistics

Multiple R	0.12
R Square	0.01
Adjusted R Square	-0.02
Standard Error	3.25
Observations	27.00

CCW
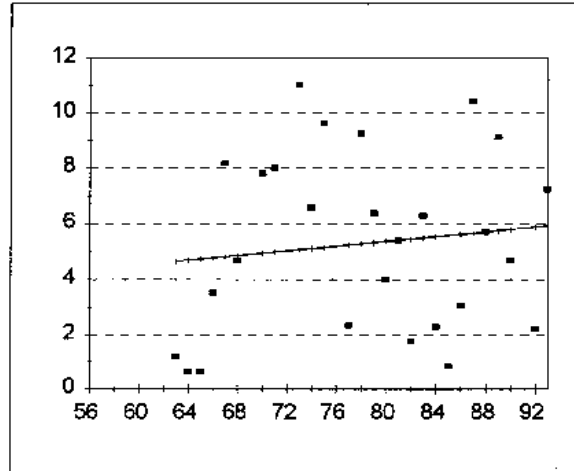
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	4.00	4.00	0.38	0.54
Residual	25.00	263.59	10.54		
Total	26.00	267.59			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	1.95	5.46	0.36	0.72	-9.29	13.20
x1	0.04	0.07	0.62	0.54	-0.10	0.19

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	4.73	-4.10	-1.26	1.85	1
2	4.69	-4.04	-1.24	5.56	1
3	5.59	-4.74	-1.46	9.26	1
4	4.65	-3.45	-1.06	12.96	1
5	5.46	-3.69	-1.14	16.67	2
6	5.89	-3.66	-1.13	20.37	2
7	5.54	-3.25	-1.00	24.07	2
8	5.24	-2.89	-0.89	27.78	2
9	5.63	-2.56	-0.79	31.48	3
10	4.77	-1.26	-0.39	35.19	4
11	5.37	-1.38	-0.42	38.89	4
12	5.80	-1.12	-0.34	42.59	5
13	4.86	-0.17	-0.05	46.30	5
14	5.41	-0.01	-0.00	50.00	5
15	5.71	0.00	0.00	53.70	6
16	5.50	0.79	0.24	57.41	6
17	5.33	1.06	0.33	61.11	6
18	5.12	1.47	0.45	64.81	7
19	5.93	1.31	0.40	68.52	7
20	4.94	2.87	0.88	72.22	8
21	4.99	3.01	0.93	75.93	8
22	4.82	3.36	1.03	79.63	8
23	5.76	3.35	1.03	83.33	9
24	5.29	3.97	1.22	87.04	9
25	5.16	4.45	1.37	90.74	10
26	5.67	4.74	1.46	94.44	10
27	5.07	5.95	1.83	98.15	11

Snowy Plover

ANWR+CCW

2 outliers removed

Trend Slope as % of Avg =   1.85%
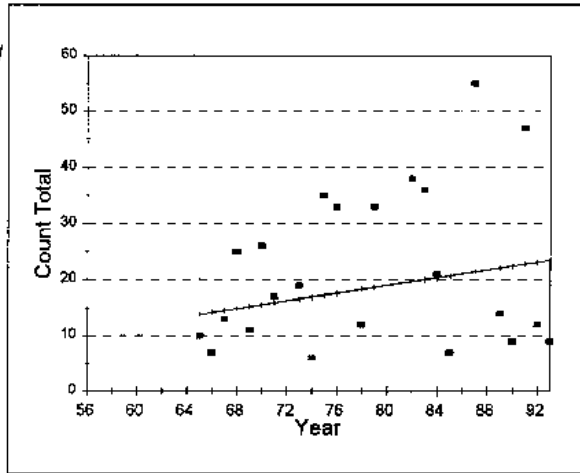
Regression Statistics

Multiple R	0.21
R Square	0.04
Adjusted R Square	0.01
Standard Error	14.21
Observations	28.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	246.43	246.43	1.22	0.28
Residual	26.00	5252.53	202.02		
Total	27.00	5498.96			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-8.30	24.38	-0.34	0.74	-58.41	41.81
x1	0.34	0.31	1.10	0.28	-0.29	0.98

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	13.55	-11.55	-0.81	1.79	2
2	19.35	-15.35	-1.08	5.36	4
3	17.99	-12.99	-0.91	8.93	5
4	19.01	-14.01	-0.99	12.50	5
5	21.06	-15.06	-1.06	16.07	6
6	16.96	-10.96	-0.77	19.64	6
7	14.23	-7.23	-0.51	23.21	7
8	20.72	-13.72	-0.97	26.79	7
9	23.45	-14.45	-1.02	30.36	9
10	22.43	-13.43	-0.94	33.93	9
11	13.89	-3.89	-0.27	37.50	10
12	15.26	-4.26	-0.30	41.07	11
13	18.33	-6.33	-0.45	44.64	12
14	23.11	-11.11	-0.78	48.21	12
15	14.58	-1.58	-0.11	51.79	13
16	22.09	-8.09	-0.57	55.36	14
17	15.94	1.06	0.07	58.93	17
18	16.62	2.38	0.17	62.50	19
19	20.38	0.62	0.04	66.07	21
20	14.92	10.08	0.71	69.64	25
21	15.60	10.40	0.73	73.21	26
22	18.67	14.33	1.01	76.79	33
23	17.65	15.35	1.08	80.36	33
24	17.31	17.69	1.24	83.93	35
25	20.04	15.96	1.12	87.50	36
26	19.70	18.30	1.29	91.07	38
27	22.77	24.23	1.70	94.64	47
28	21.40	33.60	2.36	98.21	55

Snowy Plover

ANWR

Trend Slope as % of Avg =   3.41%
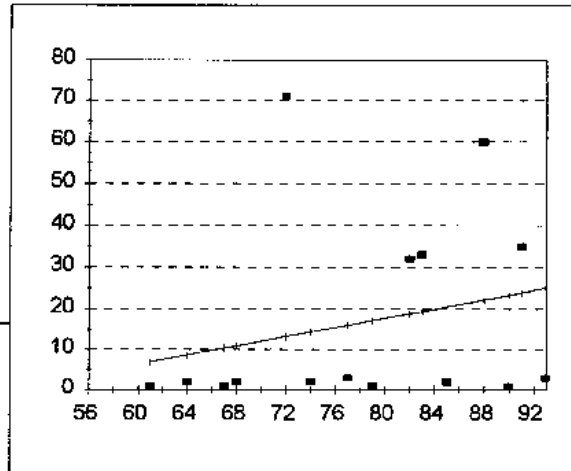
Regression Statistics

Multiple R	0.25
R Square	0.06
Adjusted R Square	-0.01
Standard Error	23.87
Observations	15

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	475.21	475.21	0.83	0.38
Residual	13.00	7408.39	569.88		
Total	14.00	7883.60			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-27.65	48.84	-0.57	0.58	-133.17	77.87
x1	0.57	0.62	0.91	0.38	-0.77	1.90

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	6.84	-5.84	-0.24	3.33	1
2	8.53	-6.53	-0.27	10.00	1
3	10.23	-9.23	-0.39	16.67	1
4	10.80	-8.80	-0.37	23.33	1
5	13.06	57.94	2.43	30.00	2
6	14.19	-12.19	-0.51	36.67	2
7	15.88	-12.88	-0.54	43.33	2
8	17.01	-16.01	-0.67	50.00	2
9	18.71	13.29	0.56	56.67	3
10	19.28	13.72	0.57	63.33	3
11	20.41	-18.41	-0.77	70.00	32
12	22.10	37.90	1.59	76.67	33
13	23.23	-22.23	-0.93	83.33	35
14	23.80	11.20	0.47	90.00	60
15	24.93	-21.93	-0.92	96.67	71

Snowy Plover

CCW

1 outlier removed

Trend Slope as % of Avg =   -1.42%

Regression Statistics

Multiple R	0.17
R Square	0.03
Adjusted R Square	-0.01
Standard Error	9.92
Observations	28.00
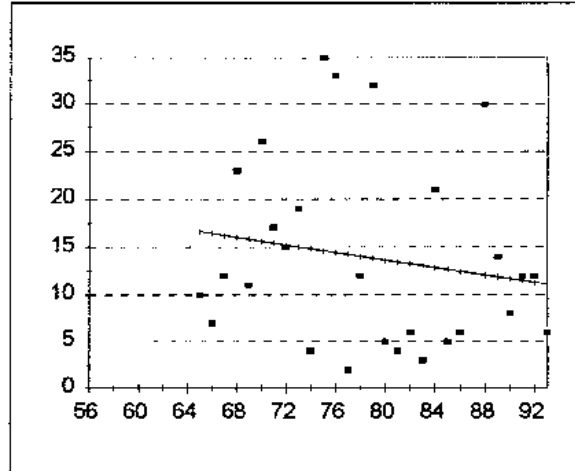
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	76.89	76.89	0.78	0.38
Residual	26.00	2558.97	98.42		
Total	27.00	2635.86			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	29.50	17.72	1.66	0.11	-6.92	65.93
x1	-0.20	0.22	-0.88	0.38	-0.66	0.26

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	14.27	-12.27	-1.24	1.79	2
2	13.08	-10.08	-1.02	5.36	3
3	13.48	-9.48	-0.96	8.93	4
4	14.86	-10.86	-1.09	12.50	4
5	12.68	-7.68	-0.77	16.07	5
6	13.67	-8.67	-0.87	19.64	5
7	13.28	-7.28	-0.73	23.21	6
8	11.10	-5.10	-0.51	26.79	6
9	12.49	-6.49	-0.65	30.36	6
10	16.44	-9.44	-0.95	33.93	7
11	11.70	-3.70	-0.37	37.50	8
12	16.64	-6.64	-0.67	41.07	10
13	15.85	-4.85	-0.49	44.64	11
14	16.25	-4.25	-0.43	48.21	12
15	14.07	-2.07	-0.21	51.79	12
16	11.50	0.50	0.05	55.36	12
17	11.30	0.70	0.07	58.93	12
18	11.89	2.11	0.21	62.50	14
19	15.26	-0.26	-0.03	66.07	15
20	15.46	1.54	0.16	69.64	17
21	15.06	3.94	0.40	73.21	19
22	12.88	8.12	0.82	76.79	21
23	16.05	6.95	0.70	80.36	23
24	15.65	10.35	1.04	83.93	26
25	12.09	17.91	1.81	87.50	30
26	13.87	18.13	1.83	91.07	32
27	14.47	18.53	1.87	94.64	33
28	14.66	20.34	2.05	98.21	35

Semipalmated Plover

ANWR+CCW

1 outliers removed

Trend Slope as % of Avg =   4.21%

Regression Statistics

Multiple R	0.38
R Square	0.14
Adjusted R Square	0.11
Standard Error	28.76
Observations	28.00
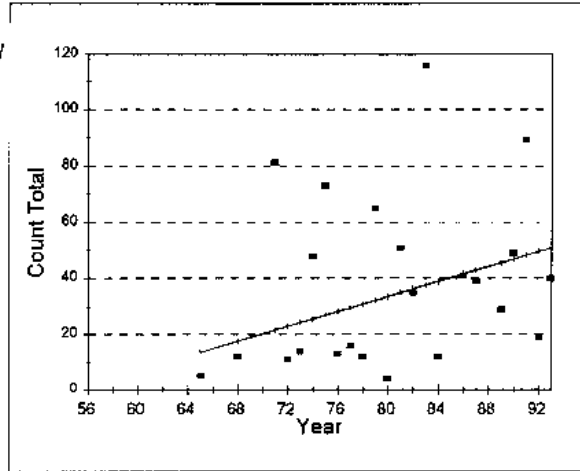
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	3609.78	3609.78	4.36	0.05
Residual	26.00	21511.93	827.38		
Total	27.00	25121.71			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-73.19	50.52	-1.45	0.16	-177.04	30.65
x1	1.34	0.64	2.09	0.05	0.02	2.65

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	12.26	-10.26	-0.36	1.79	2
2	14.93	-12.93	-0.45	5.36	2
3	20.27	-17.27	-0.60	8.93	3
4	18.93	-15.93	-0.55	12.50	3
5	40.30	-36.30	-1.26	16.07	4
6	33.62	-29.62	-1.03	19.64	4
7	13.59	-8.59	-0.30	23.21	5
8	22.94	-11.94	-0.42	26.79	11
9	17.60	-5.60	-0.19	30.36	12
10	30.95	-18.95	-0.66	33.93	12
11	38.96	-26.96	-0.94	37.50	12
12	28.28	-15.28	-0.53	41.07	13
13	24.28	-10.28	-0.36	44.64	14
14	29.62	-13.62	-0.47	48.21	16
15	49.64	-30.64	-1.07	51.79	19
16	45.64	-16.64	-0.58	55.36	29
17	36.29	-1.29	-0.04	58.93	35
18	42.97	-3.97	-0.14	62.50	39
19	50.98	-10.98	-0.38	66.07	40
20	41.63	-0.63	-0.02	69.64	41
21	25.61	22.39	0.78	73.21	48
22	46.97	2.03	0.07	76.79	49
23	34.96	16.04	0.56	80.36	51
24	32.29	32.71	1.14	83.93	65
25	26.95	46.05	1.60	87.50	73
26	21.60	59.40	2.06	91.07	81
27	48.31	40.69	1.41	94.64	89
28	37.63	78.37	2.72	98.21	116

Semipalmated Plover

ANWR

1 outlier removed

Trend Slope as % of Avg =   3.67%

Regression Statistics

Multiple R	0.34
R Square	0.12
Adjusted R Square	0.04
Standard Error	10.32
Observations	13
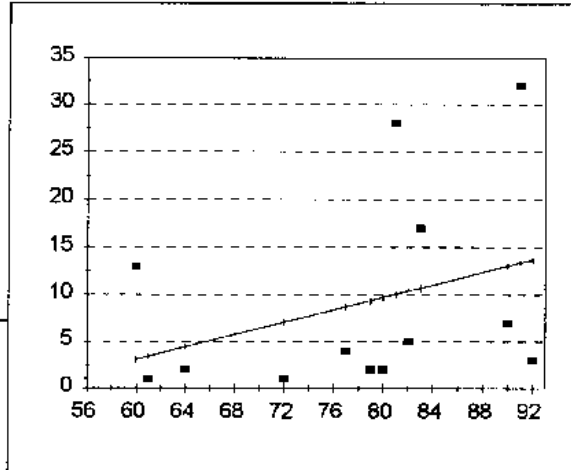
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	154.04	154.04	1.45	0.25
Residual	11.00	1171.96	106.54		
Total	12.00	1326.00			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-16.73	21.59	-0.77	0.45	-64.26	30.79
x1	0.33	0.27	1.20	0.25	-0.27	0.94

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	3.10	9.90	0.96	3.85	1
2	3.43	-2.43	-0.24	11.54	1
3	4.42	-2.42	-0.23	19.23	2
4	7.07	-6.07	-0.59	26.92	2
5	8.72	-4.72	-0.46	34.62	2
6	9.38	-7.38	-0.72	42.31	3
7	9.71	-7.71	-0.75	50.00	4
8	10.04	17.96	1.74	57.69	5
9	10.37	-5.37	-0.52	65.38	7
10	10.70	6.30	0.61	73.08	13
11	13.02	-6.02	-0.58	80.77	17
12	13.35	18.65	1.81	88.46	28
13	13.68	-10.68	-1.03	96.15	32

Semipalmated Plover

2 outliers removed

Trend Slope as % of Avg =   2.88%

Regression Statistics

Multiple R	0.28
R Square	0.08
Adjusted R Square	0.04
Standard Error	22.81
Observations	26.00

CCW
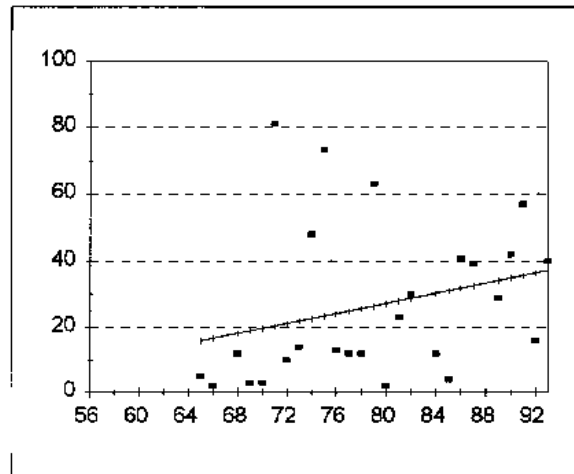
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	1029.92	1029.92	1.98	0.17
Residual	24.00	12482.23	520.09		
Total	25.00	13512.15			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-33.53	42.81	-0.78	0.44	-121.88	54.83
x1	0.76	0.54	1.41	0.17	-0.35	1.87

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	16.55	-14.55	-0.64	1.92	2
2	27.17	-25.17	-1.10	5.77	2
3	19.58	-16.58	-0.73	9.62	3
4	18.83	-15.83	-0.69	13.46	3
5	30.97	-26.97	-1.18	17.31	4
6	15.79	-10.79	-0.47	21.15	5
7	21.10	-11.10	-0.49	25.00	10
8	18.07	-6.07	-0.27	28.85	12
9	25.66	-13.66	-0.60	32.69	12
10	24.90	-12.90	-0.57	36.54	12
11	30.21	-18.21	-0.80	40.38	12
12	24.14	-11.14	-0.49	44.23	13
13	21.86	-7.86	-0.34	48.08	14
14	36.28	-20.28	-0.89	51.92	16
15	27.93	-4.93	-0.22	55.77	23
16	34.00	-5.00	-0.22	59.62	29
17	28.69	1.31	0.06	63.46	30
18	32.48	6.52	0.29	67.31	39
19	37.04	2.96	0.13	71.15	40
20	31.73	9.27	0.41	75.00	41
21	34.76	7.24	0.32	78.85	42
22	22.62	25.38	1.11	82.69	48
23	35.52	21.48	0.94	86.54	57
24	26.41	36.59	1.60	90.38	63
25	23.38	49.62	2.18	94.23	73
26	20.34	60.66	2.66	98.08	81

Piping Plover

ANWR+CCW

1 outliers removed

Trend Slope as % of Avg = 1.92%
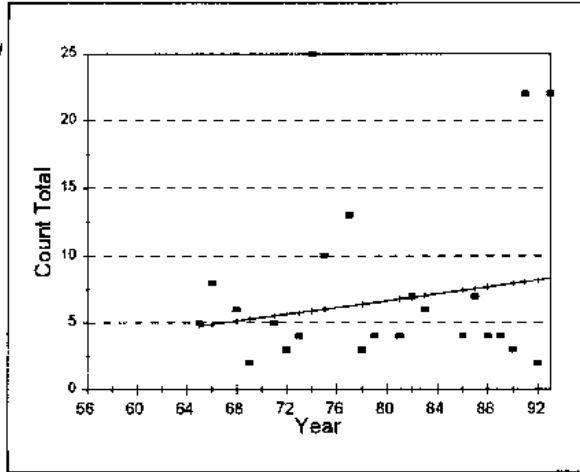
Regression Statistics

Multiple R	0.16
R Square	0.03
Adjusted R Square	-0.01
Standard Error	6.57
Observations	27.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	29.99	29.99	0.69	0.41
Residual	25.00	1080.53	43.22		
Total	26.00	1110.52			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-3.44	12.10	-0.28	0.78	-28.37	21.49
x1	0.13	0.15	0.83	0.41	-0.19	0.44

| Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	7.17	-6.17	-0.94	1.85	1
2	5.40	-4.40	-0.67	5.56	1
3	6.16	-5.16	-0.79	9.26	1
4	7.30	-5.30	-0.81	12.96	2
5	5.28	-3.28	-0.50	16.67	2
6	8.18	-6.18	-0.94	20.37	2
7	5.66	-2.66	-0.40	24.07	3
8	6.41	-3.41	-0.52	27.78	3
9	7.93	-4.93	-0.75	31.48	3
10	7.80	-3.80	-0.58	35.19	4
11	7.68	-3.68	-0.56	38.89	4
12	5.78	-1.78	-0.27	42.59	4
13	6.54	-2.54	-0.39	46.30	4
14	7.43	-3.43	-0.52	50.00	4
15	6.79	-2.79	-0.42	53.70	4
16	4.77	0.23	0.03	57.41	5
17	5.53	-0.53	-0.08	61.11	5
18	7.05	-1.05	-0.16	64.81	6
19	5.15	0.85	0.13	68.52	6
20	6.92	0.08	0.01	72.22	7
21	7.55	-0.55	-0.08	75.93	7
22	4.90	3.10	0.47	79.63	8
23	6.04	3.96	0.60	83.33	10
24	6.29	6.71	1.02	87.04	13
25	8.06	13.94	2.12	90.74	22
26	8.31	13.69	2.08	94.44	22
27	5.91	19.09	2.90	98.15	25

Piping Plover

Data Corrected: ANWR
Count/(Party Hours^B)
where B = .84

  1 outlier removed

Trend Slope as % of Avg =   -3.07%
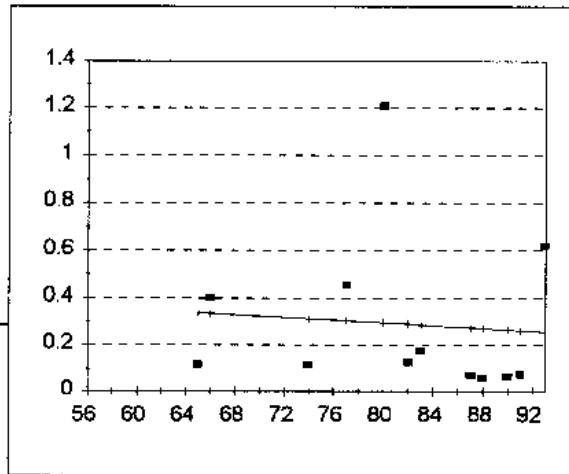
Regression Statistics

Multiple R	0.08
R Square	0.01
Adjusted R Square	-0.09
Standard Error	0.36
Observations	12

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1	0.01	0.01	0.06	0.81
Residual	10.00	1.28	0.13		
Total	11.00	1.29			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	0.53	0.94	0.56	0.59	-1.58	2.63
x1	-0.00	0.01	-0.25	0.80	-0.03	0.02

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	0.34	-0.22	-0.62		4.17	0.06
2	0.34	0.07	0.18		12.50	0.07
3	0.31	-0.20	-0.55		20.83	0.07
4	0.30	0.15	0.43		29.17	0.07
5	0.30	0.91	2.55		37.50	0.12
6	0.29	-0.16	-0.45		45.83	0.12
7	0.29	-0.11	-0.31		54.17	0.13
8	0.27	-0.20	-0.57		62.50	0.17
9	0.27	-0.21	-0.59		70.83	0.40
10	0.27	-0.20	-0.56		79.17	0.46
11	0.26	-0.19	-0.53		87.50	0.62
12	0.26	0.36	1.01		95.83	1.21

Piping Plover

2 outliers removed

Trend Slope as % of Avg =   -1.72%

Regression Statistics

Multiple R	0.20
R Square	0.04
Adjusted R Square	-0.00
Standard Error	1.96
Observations	25.00

CCW
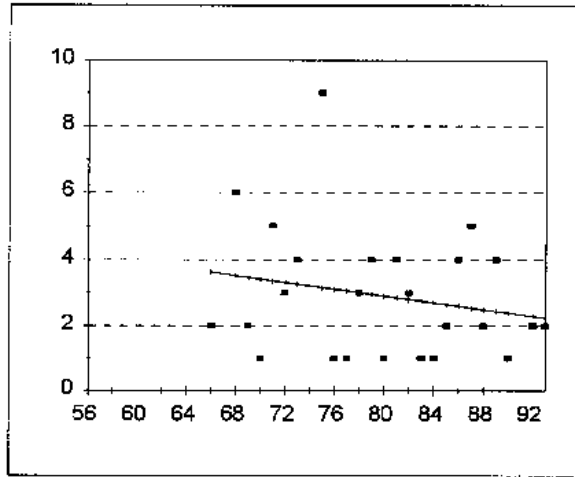
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	3.78	3.78	0.99	0.33
Residual	23.00	88.06	3.83		
Total	24.00	91.84			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	6.92	4.04	1.71	0.10	-1.44	15.27
x1	-0.05	0.05	-0.99	0.33	-0.15	0.05

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	2.76	-1.76	-0.90	2.00	1
2	3.06	-2.06	-1.05	6.00	1
3	2.91	-1.91	-0.98	10.00	1
4	2.41	-1.41	-0.72	14.00	1
5	3.11	-2.11	-1.08	18.00	1
6	3.41	-2.41	-1.23	22.00	1
7	2.71	-1.71	-0.87	26.00	1
8	2.51	-0.51	-0.26	30.00	2
9	2.31	-0.31	-0.16	34.00	2
10	2.26	-0.26	-0.13	38.00	2
11	2.66	-0.66	-0.34	42.00	2
12	3.46	-1.46	-0.75	46.00	2
13	3.61	-1.61	-0.82	50.00	2
14	3.31	-0.31	-0.16	54.00	3
15	2.81	0.19	0.10	58.00	3
16	3.01	-0.01	-0.00	62.00	3
17	3.26	0.74	0.38	66.00	4
18	2.96	1.04	0.53	70.00	4
19	2.46	1.54	0.79	74.00	4
20	2.61	1.39	0.71	78.00	4
21	2.86	1.14	0.58	82.00	4
22	3.36	1.64	0.84	86.00	5
23	2.56	2.44	1.25	90.00	5
24	3.51	2.49	1.27	94.00	6
25	3.16	5.84	2.99	98.00	9

Killdeer

ANWR+CCW

Trend Slope as % of Avg =   0.01%
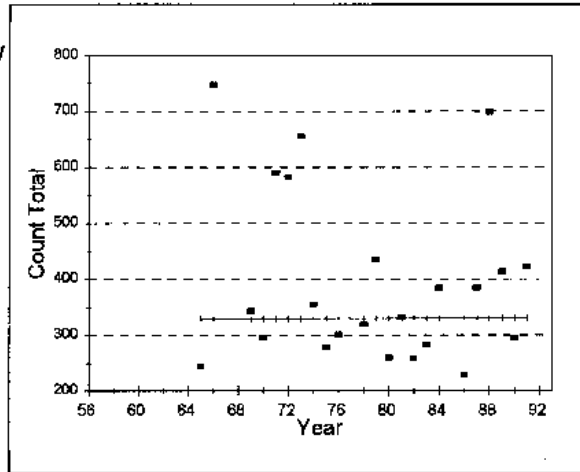
Regression Statistics

Multiple R	0.00
R Square	0.00
Adjusted R Square	-0.03
Standard Error	177.27
Observations	31.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	3.64	3.64	0.00	0.99
Residual	29.00	911355.84	31426.06		
Total	30.00	911359.48			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	327.88	279.48	1.17	0.25	-243.72	899.48
x1	0.04	3.56	0.01	0.99	-7.24	7.32

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	330.30	-238.30	-1.34	1.61	92
2	330.45	-218.45	-1.23	4.84	112
3	330.83	-213.83	-1.21	8.06	117
4	331.45	-212.45	-1.20	11.29	119
5	331.14	-206.14	-1.16	14.52	125
6	330.33	-182.33	-1.03	17.74	148
7	330.49	-119.49	-0.67	20.97	211
8	331.41	-109.41	-0.62	24.19	222
9	331.18	-102.18	-0.58	27.42	229
10	330.37	-86.37	-0.49	30.65	244
11	331.02	-73.02	-0.41	33.87	258
12	330.95	-70.95	-0.40	37.10	260
13	330.76	-52.76	-0.30	40.32	278
14	331.06	-48.06	-0.27	43.55	283
15	330.56	-35.56	-0.20	46.77	295
16	331.33	-36.33	-0.20	50.00	295
17	330.79	-29.79	-0.17	53.23	301
18	330.87	-10.87	-0.06	56.45	320
19	330.99	2.01	0.01	59.68	333
20	330.53	13.47	0.08	62.90	344
21	330.72	25.28	0.14	66.13	356
22	331.10	53.90	0.30	69.35	385
23	331.22	54.78	0.31	72.58	386
24	331.29	82.71	0.47	75.81	414
25	331.37	90.63	0.51	79.03	422
26	330.91	104.09	0.59	82.26	435
27	330.64	251.36	1.42	85.48	582
28	330.60	259.40	1.46	88.71	590
29	330.68	324.32	1.83	91.94	655
30	331.25	367.75	2.07	95.16	699
31	330.41	416.59	2.35	98.39	747

Killdeer

1 outlier removed

Trend Slope as % of Avg =   1.18%

ANWR

Regression Statistics

Multiple R	0.21
R Square	0.05
Adjusted R Square	0.02
Standard Error	37.27
Observations	37.00
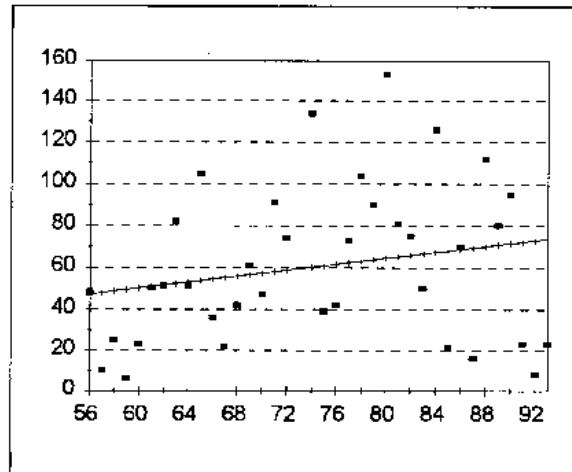
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	2325.13	2325.13	1.67	0.20
Residual	35.00	48606.11	1388.75		
Total	36.00	50931.24			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	7.33	41.56	0.18	0.86	-77.04	91.69
x1	0.71	0.55	1.29	0.20	-0.41	1.83

| Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	47.28	0.72	0.02	1.35	6
2	46.00	-38.00	-1.02	4.05	8
3	48.71	-23.71	-0.64	6.76	10
4	49.43	-43.43	-1.17	9.46	16
5	50.14	-27.14	-0.73	12.16	21
6	50.85	-0.85	-0.02	14.86	22
7	51.57	-0.57	-0.02	17.57	23
8	52.28	29.72	0.80	20.27	23
9	52.99	-1.99	-0.05	22.97	23
10	53.71	51.29	1.38	25.68	25
11	54.42	-18.42	-0.49	28.38	36
12	55.13	-33.13	-0.89	31.08	39
13	55.85	-13.85	-0.37	33.78	42
14	56.56	4.44	0.12	36.49	42
15	57.27	-10.27	-0.28	39.19	47
16	57.99	33.01	0.89	41.89	48
17	58.70	15.30	0.41	44.59	50
18	60.13	73.87	1.98	47.30	50
19	60.84	-21.84	-0.59	50.00	51
20	61.55	-19.55	-0.52	52.70	51
21	62.27	10.73	0.29	55.41	61
22	62.98	41.02	1.10	58.11	70
23	63.70	26.30	0.71	60.81	73
24	64.41	88.59	2.38	63.51	74
25	65.12	15.88	0.43	66.22	75
26	65.84	9.16	0.25	68.92	80
27	66.55	-16.55	-0.44	71.62	81
28	67.26	58.74	1.58	74.32	82
29	67.98	-46.98	-1.26	77.03	90
30	68.69	1.31	0.04	79.73	91
31	69.40	-53.40	-1.43	82.43	95
32	70.12	41.88	1.12	85.14	104
33	70.83	9.17	0.25	87.84	105
34	71.54	23.46	0.63	90.54	112
35	72.26	-49.26	-1.32	93.24	126
36	72.97	-64.97	-1.74	95.95	134
37	73.68	-50.68	-1.36	98.65	153

Killdeer

Data Corrected:
Count/(Party Hours^B)
where B = .79

1 outlier removed

Trend Slope as % of Avg =   -0.87%

CCW
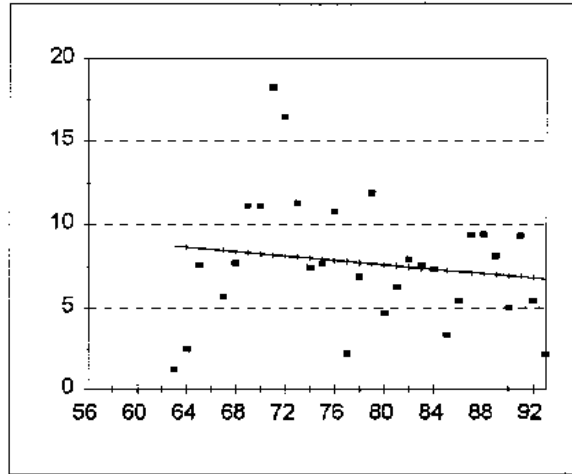
Regression Statistics

Multiple R	0.15
R Square	0.02
Adjusted R Square	-0.01
Standard Error	3.93
Observations	30.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	10.35	10.35	0.67	0.42
Residual	28.00	432.75	15.46		
Total	29.00	443.10			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	12.91	6.42	2.01	0.05	-0.25	26.07
x1	-0.07	0.08	-0.82	0.42	-0.23	0.10

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	8.71	-7.47	-1.90	1.67	1
2	6.71	-4.58	-1.17	5.00	2
3	7.78	-5.61	-1.43	8.33	2
4	8.65	-6.17	-1.57	11.67	2
5	7.25	-3.92	-1.00	15.00	3
6	7.58	-2.93	-0.75	18.33	5
7	6.91	-1.93	-0.49	21.67	5
8	7.18	-1.82	-0.46	25.00	5
9	6.78	-1.37	-0.35	28.33	5
10	8.45	-2.76	-0.70	31.67	6
11	7.51	-1.28	-0.32	35.00	6
12	7.71	-0.87	-0.22	38.33	7
13	7.31	-0.01	-0.00	41.67	7
14	7.98	-0.57	-0.15	45.00	7
15	7.38	0.15	0.04	48.33	8
16	8.58	-1.04	-0.26	51.67	8
17	7.91	-0.26	-0.07	55.00	8
18	8.38	-0.69	-0.18	58.33	8
19	7.45	0.45	0.12	61.67	8
20	6.98	1.11	0.28	65.00	8
21	6.85	2.49	0.63	68.33	9
22	7.11	2.25	0.57	71.67	9
23	7.05	2.37	0.60	75.00	9
24	7.85	2.92	0.74	78.33	11
25	8.25	2.86	0.73	81.67	11
26	8.31	2.83	0.72	85.00	11
27	8.05	3.24	0.83	88.33	11
28	7.65	4.25	1.08	91.67	12
29	8.11	8.31	2.11	95.00	16
30	8.18	10.04	2.55	98.33	18

Mountain Plover

CCW

Trend Slope as % of Avg =   5.93%

Regression Statistics

Multiple R	0.29
R Square	0.08
Adjusted R Square	-0.14
Standard Error	23.68
Observations	6.00
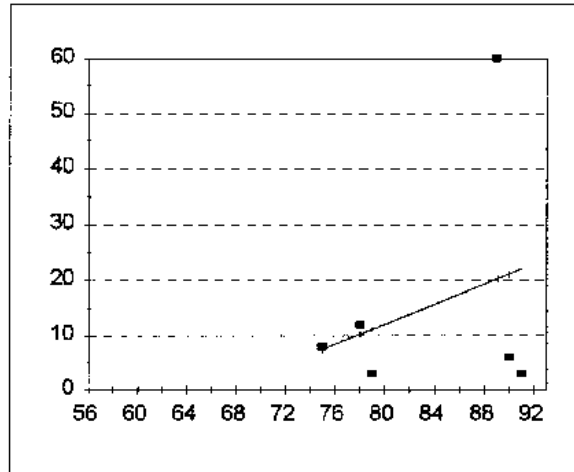
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	208.04	208.04	0.37	0.58
Residual	4.00	2243.29	560.82		
Total	5.00	2451.33			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-60.79	125.35	-0.48	0.65	-408.82	287.25
x1	0.91	1.49	0.61	0.57	-3.24	5.06

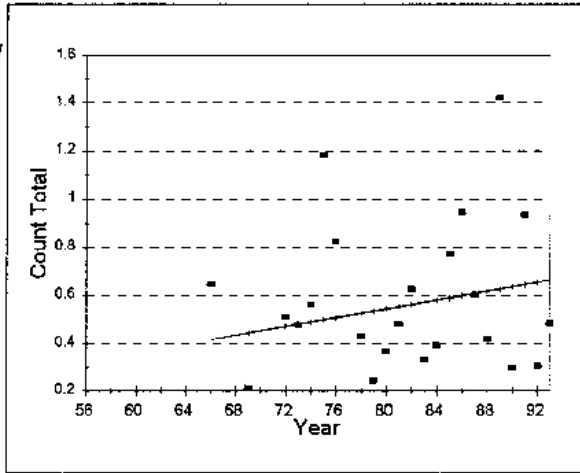| Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	22.01	-19.01	-0.80		8.33	3
2	11.09	-8.09	-0.34		25.00	3
3	21.10	-15.10	-0.64		41.67	6
4	7.45	0.55	0.02		58.33	8
5	10.18	1.82	0.08		75.00	12
6	20.19	39.81	1.68		91.67	60

Am. Oystercatcher

Data Corrected:
Count/(Party Hours)^B
where B = .51

1 outliers removed

Trend Slope as % of Avg =   1.65%

ANWR+CCW

Regression Statistics

Multiple R	0.23
R Square	0.05
Adjusted R Square	0.01
Standard Error	0.32
Observations	25.00

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	0.12	0.12	1.25	0.28
Residual	23.00	2.30	0.10		
Total	24.00	2.42			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-0.18	0.66	-0.28	0.78	-1.55	1.18
x1	0.01	0.01	1.12	0.28	-0.01	0.03

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	0.43	-0.32	-1.03	2.00	0
2	0.52	-0.32	-1.02	6.00	0
3	0.44	-0.23	-0.74	10.00	0
4	0.54	-0.29	-0.92	14.00	0
5	0.64	-0.34	-1.07	18.00	0
6	0.65	-0.35	-1.10	22.00	0
7	0.57	-0.24	-0.76	26.00	0
8	0.55	-0.18	-0.56	30.00	0
9	0.58	-0.19	-0.60	34.00	0
10	0.62	-0.20	-0.63	38.00	0
11	0.53	-0.10	-0.30	42.00	0
12	0.48	-0.00	-0.01	46.00	0
13	0.55	-0.07	-0.23	50.00	0
14	0.66	-0.18	-0.56	54.00	0
15	0.47	0.04	0.12	58.00	1
16	0.49	0.07	0.22	62.00	1
17	0.61	-0.01	-0.02	66.00	1
18	0.56	0.06	0.20	70.00	1
19	0.42	0.23	0.73	74.00	1
20	0.59	0.18	0.58	78.00	1
21	0.51	0.32	1.01	82.00	1
22	0.65	0.29	0.92	86.00	1
23	0.60	0.35	1.10	90.00	1
24	0.50	0.68	2.16	94.00	1
25	0.63	0.80	2.52	98.00	1

Am. Oystercatcher

1 outlier removed

Trend Slope as % of Avg =   2.23%

ANWR

Regression Statistics

Multiple R	0.24
R Square	0.06
Adjusted R Square	0.01
Standard Error	3.59
Observations	24.00
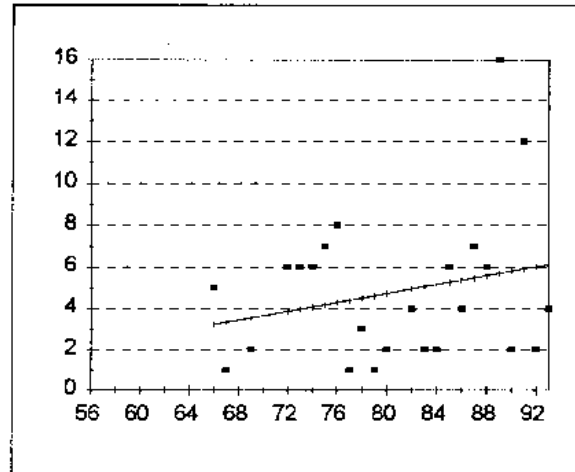
Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	17.17	17.17	1.34	0.26
Residual	22.00	282.79	12.85		
Total	23.00	299.96			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	-3.85	7.51	-0.51	0.61	-19.42	11.73
x1	0.11	0.09	1.16	0.26	-0.09	0.30

Observations	Predicted Y	Residuals	Stdzd Residuals	Percentile	y
1	3.22	1.78	0.50	2.08	1
2	3.33	-2.33	-0.65	6.25	1
3	3.54	-1.54	-0.43	10.42	1
4	3.86	2.14	0.60	14.58	2
5	3.97	2.03	0.57	18.75	2
6	4.08	1.92	0.54	22.92	2
7	4.18	2.82	0.79	27.08	2
8	4.29	3.71	1.03	31.25	2
9	4.40	-3.40	-0.95	35.42	2
10	4.51	-1.51	-0.42	39.58	3
11	4.61	-3.61	-1.01	43.75	4
12	4.72	-2.72	-0.76	47.92	4
13	4.93	-0.93	-0.26	52.08	4
14	5.04	-3.04	-0.85	56.25	5
15	5.15	-3.15	-0.88	60.42	6
16	5.26	0.74	0.21	64.58	6
17	5.36	-1.36	-0.38	68.75	6
18	5.47	1.53	0.43	72.92	6
19	5.58	0.42	0.12	77.08	6
20	5.68	10.32	2.88	81.25	7
21	5.79	-3.79	-1.06	85.42	7
22	5.90	6.10	1.70	89.58	8
23	6.01	-4.01	-1.12	93.75	12
24	6.11	-2.11	-0.59	97.92	16

Am. Oystercatcher
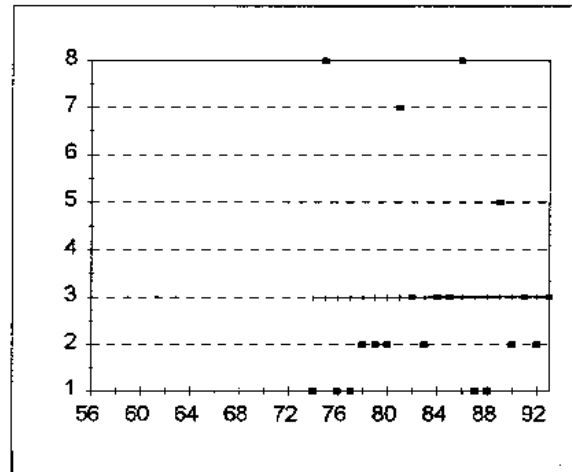
Trend Slope as % of Avg =   0.05%

Regression Statistics

Multiple R	0.00
R Square	0.00
Adjusted R Square	-0.06
Standard Error	2.31
Observations	20.00

CCW

Analysis of Variance

	df	Sum of Squares	Mean Square	F	Significance F
Regression	1.00	0.00	0.00	0.00	0.99
Residual	18.00	96.00	5.33		
Total	19.00	96.00			

	Coefficient	Standard Error	t Statistic	P-value	Lower 95.00%	Upper 95.00%
Intercept	2.87	7.50	0.38	0.71	-12.87	18.62
x1	0.00	0.09	0.02	0.99	-0.19	0.19

Observations	Predicted Y	Residuals	Stdzd Residuals		Percentile	y
1	2.99	-1.99	-0.86		2.50	1
2	3.01	-2.01	-0.87		7.50	1
3	3.01	-2.01	-0.87		12.50	1
4	2.99	-1.99	-0.86		17.50	1
5	2.99	-1.99	-0.86		22.50	1
6	3.00	-1.00	-0.43		27.50	2
7	3.01	-1.01	-0.44		32.50	2
8	3.01	-1.01	-0.44		37.50	2
9	2.99	-0.99	-0.43		42.50	2
10	2.99	-0.99	-0.43		47.50	2
11	2.99	-0.99	-0.43		52.50	2
12	3.01	-0.01	-0.00		57.50	3
13	3.00	0.00	0.00		62.50	3
14	3.00	-0.00	-0.00		67.50	3
15	3.00	-0.00	-0.00		72.50	3
16	3.01	-0.01	-0.01		77.50	3
17	3.01	1.99	0.86		82.50	5
18	3.00	4.00	1.73		87.50	7
19	3.00	5.00	2.16		92.50	8
20	2.99	5.01	2.17		97.50	8