

# WCALC FILES

## Contents

Acid Rain .....	3
Log File .....	3
Txt File .....	3
Climate Change .....	5
Log File .....	5
Txt File .....	5
Deforestation .....	7
Log File .....	7
Txt File .....	7
Eco-Friendly .....	9
Log File .....	9
Txt File .....	10
Environmental Protection .....	12
Log File .....	12
Txt File .....	12
Ozone Depletion .....	16
Log File .....	16
Txt File .....	16
Water Quality .....	18
Log File .....	18
Txt File .....	18
Wildlife Protection .....	20
Log File .....	20
Txt File .....	20

## Acid Rain

### Log File

46 records after date scan						
Period: 1980 to 1993, 14 Time Points						
Number of Series: 14						
Exponential Smoothing: On						
Iteration History: Dimension 1						
Iter	Convergence	Criterion	Items	Reliability	AlphaF	AlphaB
1	.4142	.001	14	.857	.648	1.000
2	.0992	.001	14	.932	.743	1.000
3	.0097	.001	14	.924	.730	1.000
4	.0018	.001	14	.923	.726	1.000
5	.0012	.001	14	.923	.732	1.000
6	.0003	.001	14	.923	.727	1.000
Loadings and descriptive variable information						
Vn	Variable	Cases	Dim 1	Dim 2	Mean	Std Deviation
			Loading	Loading		
10	Envir4	6	.988	.000	63.859	7.330
6	Deciq2	4	.721	.000	39.578	4.286
11	Envir5	3	.930	.000	89.260	1.012
8	Envir2	3	.921	.000	88.941	2.243
4	Cgall4	3	.910	.000	95.951	1.657
1	Cgall1	4	.663	.000	74.669	9.246
9	Envir3	3	.832	.000	47.400	3.789
2	Cgall2	2	1.000	.000	44.112	.707
5	Deciq1	2	1.000	.000	70.802	3.595
12	Envir6	2	1.000	.000	34.010	1.887
14	Envir8	2	1.000	.000	33.664	8.689
7	Envir1	4	.242	.000	80.794	1.208
3	Cgall3	4	-.437	.000	43.173	3.044
13	Envir7	2	-1.000	.000	25.480	.025
Dimension 1 Information						
Eigen Estimate 2.17 of possible 3.14						
Pct Variance Explained: 69.07						
Weighted Average Metric: Mean: 57.75 St. Dev: 3.43						

### Txt File

Cgall1	9/1/1980	66.00753296	1062
Cgall1	11/1/1981	75.76628352	1044
Cgall1	4/1/1985	67.56238004	1042
Cgall1	2/1/1986	89.33962264	1060
Cgall2	9/1/1980	43.40490798	652

Cgall2	11/1/1981	44.81927711	830
Cgall3	2/1/1986	44.37229437	924
Cgall3	10/1/1987	38.64836325	947
Cgall3	3/1/1989	47.02920443	993
Cgall3	5/1/1989	47.02920443	993
Cgall3	4/1/1990	42.64112903	992
Cgall4	10/1/1983	93.61256545	955
Cgall4	7/1/1989	97	1000
Cgall4	4/1/1990	97.24137931	1015
Deciq1	6/1/1982	67.20757268	1479
Deciq1	6/1/1986	74.39678284	1492
Deciq2	3/1/1985	32.39130435	1380
Deciq2	3/1/1986	41.96242171	1437
Deciq2	3/1/1987	40.45746962	1399
Deciq2	9/1/1988	43.5	1400
Envir1	4/1/1985	81.8329718	1844
Envir1	2/1/1986	78.96718666	1859
Envir1	9/1/1987	81.93411265	1882
Envir1	6/1/1989	80.44280443	1897
Envir2	2/1/1986	85.77656676	1835
Envir2	9/1/1987	90.70512821	1872
Envir2	6/1/1989	90.34151547	1874
Envir3	11/1/1981	48.99257688	1886
Envir3	11/1/1983	42.17171717	1980
Envir3	4/1/1985	51.03448276	2030
Envir4	9/1/1987	71.07215105	1483
Envir4	11/23/1988	74.34695244	1493
Envir4	12/3/1989	67.2	1500
Envir4	11/28/1990	55.98377282	1479
Envir4	3/29/1992	56.77680378	1483
Envir4	1/28/1993	57.77479893	1492
Envir5	11/1/1981	88.3161512	1746
Envir5	3/1/1983	88.92029395	1769
Envir5	11/1/1983	88.68138087	1767
Envir5	4/1/1984	90.66312997	1885
Envir6	2/1/1986	32.12247016	1927
Envir6	9/1/1987	35.8974359	1911
Envir7	2/1/1986	25.50505051	1980
Envir7	9/1/1987	25.45454545	1925
Envir8	2/1/1986	24.97477296	1982
Envir8	9/1/1987	42.35355106	1929

## Climate Change

### Log File

45 records after date scan						
Period: 1988 to 2015, 28 Time Points						
Number of Series: 12						
Exponential Smoothing: On						
Iteration History: Dimension 1						
Iter	Convergence	Criterion	Items	Reliability	AlphaF	AlphaB
1	.3915	.001	12	.728	1.000	.501
2	.0367	.001	12	.888	1.000	.517
3	.0239	.001	12	.879	.947	.764
4	.0008	.001	12	.884	.946	.760
Loadings and descriptive variable information						
			Dim 1	Dim 2		
Vn	Variable	Cases	Loading	Loading	Mean	Std Deviation
5	Envir7	11	.976	.000	44.834	5.458
1	Envir3	5	.989	.000	16.696	4.999
2	Envir4	4	.992	.000	39.624	5.594
7	Envir10	3	.778	.000	60.908	3.528
3	Envir5	2	1.000	.000	49.587	2.135
4	Envir6	2	1.000	.000	46.894	2.802
8	Envir11	2	1.000	.000	49.603	3.249
9	Envir12	2	1.000	.000	48.605	4.512
10	Envir13	2	1.000	.000	86.506	.079
11	Envir14	2	1.000	.000	59.341	1.857
12	Envir15	2	1.000	.000	77.089	1.834
6	Envir9	4	-.909	.000	75.681	2.001
Dimension 1 Information						
Eigen Estimate 1.37 of possible 1.46						
Pct Variance Explained: 93.72						
Weighted Average Metric: Mean: 54.21 St. Dev: 3.16						

### Txt File

Envir1	12/3/1998	24.79338843	1331
Envir1	2/4/1998	41.60363086	1322
Envir3	6/1/2006	15.08538899	2108
Envir3	7/5/2008	26.11398964	1930
Envir3	10/12/2010	16.55737705	1830
Envir3	1/1/2011	11.40602582	1394
Envir3	1/1/2012	14.31639227	1397
Envir4	2/24/1991	32.00531208	1506
Envir4	6/1/2004	37.44955609	1239

Envir4	6/1/2006	41.83359014	1298
Envir4	4/3/2007	47.20708447	1468
Envir5	6/1/2006	47.45139254	1903
Envir5	4/3/2007	51.72231055	1887
Envir6	1/1/2005	44.0925088	1989
Envir6	1/1/2006	49.69640355	2141
Envir7	10/1/1988	45.1590106	1415
Envir7	11/1/1989	46.37681159	1449
Envir7	10/1/1990	47.65517241	1450
Envir7	3/1/1992	47.15832206	1478
Envir7	12/1/1992	46.37288136	1475
Envir7	12/1/1995	36.5902965	1484
Envir7	3/1/1998	38.20754717	1484
Envir7	2/1/1999	42.76358874	1527
Envir7	2/1/2000	39.46700508	1576
Envir7	2/26/2001	42.67015707	1528
Envir7	3/1/2005	52.22857143	875
Envir7	3/1/2007	55.28455285	861
Envir9	12/1/2003	77.81456954	1812
Envir9	3/1/2005	77.52442997	1535
Envir9	3/1/2006	75.30266344	1652
Envir9	6/1/2006	71.47296457	1609
Envir9	3/1/2007	73.97025172	1748
Envir10	4/3/2007	65.87939698	1990
Envir10	12/1/2012	58.05114029	1447
Envir10	10/17/2013	58.79292404	1922
Envir11	12/1/2012	52.85234899	596
Envir11	10/17/2013	46.35416667	768
Envir12	1/1/2005	44.0925088	1989
Envir12	1/1/2006	53.11720698	2005
Envir13	10/17/2013	86.4274571	1923
Envir13	8/4/2015	86.58474142	1953
Envir14	10/17/2013	57.48466258	1630
Envir14	8/4/2015	61.19775421	1603
Envir15	10/17/2013	75.25496511	1863
Envir15	8/4/2015	78.92209178	1874

## Deforestation

### Log File

41 records after date scan						
Period: 1981 to 2007, 27 Time Points						
Number of Series: 14						
Exponential Smoothing: On						
Iteration History: Dimension 1						
Iter	Convergence	Criterion	Items	Reliability	AlphaF	AlphaB
1	.1386	.001	14	.034	.778	1.000
2	.0167	.001	14	.123	1.000	1.000
3	.0012	.001	14	.122	1.000	1.000
4	.0000	.001	14	.122	1.000	1.000
Loadings and descriptive variable information						
			Dim 1	Dim 2		
Vn	Variable	Cases	Loading	Loading	Mean	Std Deviation
4	Envir2	4	.920	.000	65.788	3.693
3	Envir1	4	.919	.000	11.606	2.955
1	Deciq1	4	.884	.000	22.110	6.261
7	Envir5	3	.945	.000	71.610	2.413
9	Envir7	3	.923	.000	50.828	13.998
2	Nangr1	2	1.000	.000	15.547	6.730
8	Envir6	2	1.000	.000	59.199	3.621
12	Envir10	2	1.000	.000	46.944	4.475
14	Envir12	2	1.000	.000	66.019	.648
10	Envir8	2	1.000	.000	51.374	11.270
13	Envir11	3	.073	.000	57.557	2.877
5	Envir3	5	.043	.000	39.538	8.805
6	Envir4	2	-1.000	.000	34.449	1.227
11	Envir9	2	-1.000	.000	16.563	1.650
Dimension 1 Information						
Eigen Estimate 1.08 of possible 1.48						
Pct Variance Explained: 72.88						
Weighted Average Metric: Mean: 42.81 St. Dev: 4.83						

### Txt File

Deciq1	6/1/1982	27.1886121	1405
Deciq1	12/1/1985	25.12010981	1457
Deciq1	6/1/1988	11.38545953	1458
Deciq1	6/1/1992	24.7464503	1479
Nangr1	7/1/1991	8.817204301	1395
Nangr1	6/1/1994	22.27692308	1625
Envir1	2/21/1989	6.596491228	1425
Envir1	1/28/1993	12.3517097	1433

Envir1	2/4/1998	14.03508772	1425
Envir1	2/8/1999	13.49734043	1504
Envir1	4/17/1999	13.37432744	1301
Envir2	3/1/2005	61.40749149	881
Envir2	3/1/2007	63.44586729	859
Envir2	9/1/1987	71.05788423	1503
Envir2	11/23/1988	67.24137931	1508
Envir3	2/2/1988	54.84114977	1322
Envir3	2/24/1991	29.75265018	1415
Envir3	1/19/1996	33.47022587	1461
Envir3	8/10/1998	36.59217877	1432
Envir3	2/20/2000	43.03363075	1457
Envir4	2/2/1988	33.22192513	1496
Envir4	2/21/1989	35.67567568	1480
Envir5	6/1/1981	73.57723577	1722
Envir5	8/10/1998	68.21192053	1359
Envir5	2/20/2000	73.04227304	1443
Envir6	2/21/1989	55.57837098	1461
Envir6	8/10/1998	62.81962681	1447
Envir7	2/22/1990	31.05802048	1465
Envir7	3/4/1994	59.83667409	1347
Envir7	8/10/1998	61.58892128	1372
Envir8	2/22/1990	40.10484928	1526
Envir8	2/24/1991	62.6440678	1475
Envir9	2/24/1991	18.21305842	1455
Envir9	4/3/1994	14.91289199	1435
Envir10	2/2/1988	51.41843972	1410
Envir10	2/21/1989	42.46861925	1434
Envir11	9/1/1987	59.49027498	1491
Envir11	2/23/1988	53.48993289	1490
Envir11	12/3/1989	59.68934911	1352
Envir12	2/2/1988	65.37102473	1415
Envir12	2/24/1991	66.66666667	1470



## Eco-Friendly

## Log File

83 records after date scan						
Period: 1985 to 2007, 23 Time Points						
Number of Series: 23						
Exponential Smoothing: On						
Iteration History: Dimension 1						
Iter	Convergence	Criterion	Items	Reliability	AlphaF	AlphaB
1	.1737	.001	23	.610	1.000	.781
2	.0067	.001	23	.719	.995	.744
3	.0022	.001	23	.727	.998	.742
4	.0012	.001	23	.730	.996	.741
5	.0006	.001	23	.732	.999	.737
Loadings and descriptive variable information						
			Dim 1	Dim 2		
Vn	Variable	Cases	Loading	Loading	Mean	Std Deviation
21	Envir11	4	.994	.000	49.291	4.495
11	Envir1	4	.954	.000	72.936	.705
15	Envir5	4	.941	.000	75.975	6.980
13	Envir3	4	.902	.000	65.928	5.543
14	Envir4	4	.866	.000	65.042	8.687
3	Cgall1	4	.760	.000	70.360	10.715
19	Envir9	3	.990	.000	56.295	1.733
12	Envir2	3	.966	.000	55.649	4.383
5	Cgall3	3	.963	.000	85.482	1.497
6	Deciq2	3	.961	.000	45.386	.936
22	Envir12	4	.687	.000	42.026	12.202
20	Envir10	3	.734	.000	26.844	1.876
1	Nangr1	2	1.000	.000	76.703	1.381
7	Deciq3	2	1.000	.000	36.648	1.244
8	Deciq4	2	1.000	.000	37.430	2.650
9	Deciq5	2	1.000	.000	56.208	3.834
23	Envir13	2	1.000	.000	52.031	11.705
17	Envir7	3	.038	.000	59.357	3.054
18	Envir8	3	-.192	.000	82.461	3.296
2	Nangr2	2	-1.000	.000	77.939	3.628
10	Deciq9	2	-1.000	.000	52.840	1.162
16	Envir6	2	-1.000	.000	39.469	2.984
4	Cgall2	3	-.939	.000	35.583	1.938
Dimension 1 Information						
Eigen Estimate 2.32 of possible 2.96						
Pct Variance Explained: 78.31						
Weighted Average Metric: Mean: 56.49 St. Dev: 3.96						

## Txt File

Nangr1	7/1/1991	75.3220339	1475
Nangr1	6/1/1994	78.08441558	1848
Nangr2	7/1/1991	81.56650912	1481
Nangr2	6/1/1994	74.3109151	1814
Cgall1	12/1/1989	52.02185792	915
Cgall1	12/1/1990	74.3697479	952
Cgall1	4/1/1991	78.97435897	975
Cgall1	4/1/1993	76.07555089	953
Cgall2	12/1/1990	37.74834437	906
Cgall2	4/1/1991	35.95628415	915
Cgall2	4/1/1993	33.04442037	923
Cgall3	12/1/1990	84.8785872	906
Cgall3	4/1/1991	84.02625821	914
Cgall3	4/1/1993	87.54062839	923
Deciq1	3/1/1990	76.88710755	1497
Deciq1	6/1/1990	79.31497649	1489
Deciq2	1/9/1990	44.23592493	1492
Deciq2	3/1/1992	46.52870494	1498
Deciq2	3/1/1993	45.39385848	1498
Deciq3	9/1/1990	35.40414162	1497
Deciq3	3/1/1992	37.89192795	1499
Deciq4	3/1/1992	40.08016032	1497
Deciq4	3/1/1993	34.77970628	1498
Deciq5	12/1/1989	52.37449118	1474
Deciq5	1/3/1991	62.68343816	1431
Deciq5	12/1/1991	57.42024965	1442
Deciq6	3/1/1991	69.47227789	1497
Deciq6	6/1/1991	77.50333778	1498
Deciq6	9/1/1991	58.31099196	1492
Deciq6	12/1/1991	77.37617135	1494
Deciq7	3/1/1991	64.59170013	1494
Deciq7	6/1/1991	66.35451505	1495
Deciq7	9/1/1991	65.14131898	1486
Deciq7	12/1/1991	69.48356808	1491
Deciq8	3/1/1991	44.79305741	1498
Deciq8	6/1/1991	51.27005348	1496
Deciq8	9/1/1991	51.74731183	1488
Deciq8	12/1/1991	55.16085791	1492
Deciq9	12/1/1989	54.00134499	1487
Deciq9	3/1/1991	51.67785235	1490
Envir1	1/7/1991	71.91746351	1987
Envir1	6/1/2004	72.67080745	1288
Envir1	6/1/2006	73.40909091	1320
Envir1	4/3/2007	73.74517375	1554
Envir2	6/1/2004	51.37457045	1164

Envir2	6/1/2006	53.8996139	1295
Envir2	4/3/2007	61.6734143	1482
Envir3	12/3/1989	56.38297872	1504
Envir3	7/1/1991	68.1397739	1946
Envir3	1/28/1993	69.57104558	1492
Envir3	1/18/1995	69.61770624	1491
Envir4	12/8/1989	50.50985724	1471
Envir4	8/16/1990	68.82859034	1511
Envir4	9/10/1991	67.36486486	1480
Envir4	6/21/1992	73.46387576	1481
Envir5	12/8/1989	65.38461538	728
Envir5	8/16/1990	75.12339585	1013
Envir5	9/10/1991	78.81873727	982
Envir5	6/21/1992	84.57196613	1063
Envir6	8/12/1989	42.45283019	742
Envir6	8/16/1990	36.48424544	603
Envir7	8/16/1990	55.59481743	849
Envir7	9/10/1991	63.07506053	826
Envir7	6/21/1992	59.40082645	968
Envir8	11/28/1990	85.44668588	1388
Envir8	1/28/1993	84.06951484	1381
Envir8	1/18/1995	77.86764706	1360
Envir9	11/28/1990	54.33759247	1487
Envir9	1/28/1993	58.55130785	1491
Envir9	1/18/1995	55.99464166	1493
Envir10	11/28/1990	26.00408441	1469
Envir10	1/28/1993	29.44369064	1474
Envir10	1/18/1995	25.08474576	1475
Envir11	11/28/1990	46.42375169	1482
Envir11	1/28/1993	55.8	1500
Envir11	1/18/1995	50.90421969	1493
Envir11	8/7/1996	44.03485255	1492
Envir12	11/28/1990	21.78883658	1487
Envir12	1/28/1993	52.33022636	1502
Envir12	1/18/1995	50.9006004	1499
Envir12	8/7/1996	43.08617234	1497
Envir13	4/1/1985	40.3257329	1535
Envir13	7/1/1991	63.73626374	1820

## Environmental Protection

### Log File

128 records after date scan						
Period: 1986 to 2010, 25 Time Points						
Number of Series: 10						
Exponential Smoothing: On						
Iteration History: Dimension 1						
Iter	Convergence	Criterion	Items	Reliability	AlphaF	AlphaB
1	.9035	.001	10	.881	.940	.907
2	.0489	.001	10	.952	.937	.933
3	.0061	.001	10	.953	.927	.920
4	.0016	.001	10	.953	.927	.919
5	.0004	.001	10	.953	.927	.919
Loadings and descriptive variable information						
			Dim 1	Dim 2		
Vn	Variable	Cases	Loading	Loading	Mean	Std Deviation
10	Envir8	24	.990	.000	47.228	8.641
3	Envir1	10	.650	.000	68.611	7.075
4	Envir2	8	.777	.000	71.353	5.525
7	Envir5	4	.965	.000	85.444	1.975
5	Envir3	2	1.000	.000	72.357	17.267
6	Envir4	3	.174	.000	46.517	4.157
2	Deciq2	5	-.056	.000	46.647	2.573
1	Deciq1	5	-.339	.000	60.116	4.494
8	Envir6	2	-1.000	.000	87.231	2.942
9	Envir7	10	-.954	.000	61.319	8.980
Dimension 1 Information						
Eigen Estimate 2 of possible 2.92						
Pct Variance Explained: 68.62						
Weighted Average Metric: Mean: 70.35 St. Dev: 7.62						

### Txt File

Deciq1	6/1/1986	60.90727151	1499
Deciq1	6/1/1988	61.61548732	1498
Deciq1	6/1/1989	63.20375335	1492
Deciq1	6/1/1990	63.51441985	1491
Deciq1	6/1/1991	51.33868809	1494
Deciq2	6/1/1986	48.42387659	1491
Deciq2	6/1/1988	42.40591398	1488
Deciq2	6/1/1989	44.9255751	1478
Deciq2	6/1/1990	48.38709677	1488
Deciq2	6/1/1991	49.09090909	1485

Envir1	9/1/1987	77.3006135	1467
Envir1	11/23/1988	66.78297278	1433
Envir1	5/15/1989	65.51961459	1453
Envir1	12/3/1989	55.70745044	1463
Envir1	2/22/1990	56.57982632	1497
Envir1	5/3/1990	59.52054795	1460
Envir1	11/5/1990	53.42935528	1458
Envir1	9/10/1991	65.54856744	1431
Envir1	12/30/1991	56.43702157	1437
Envir1	3/29/1992	66.55100625	1441
Envir1	1/18/1995	72.19101124	1424
Envir1	1/19/1996	73.43532684	1438
Envir1	2/8/1999	77.746676	1429
Envir1	11/12/2001	74.01091405	1466
Envir2	9/1/1987	74.87989019	1457
Envir2	11/23/1988	66.78297278	1433
Envir2	12/3/1989	62.28842248	1477
Envir2	11/5/1990	69.58587916	1473
Envir2	5/26/1991	56.55172414	1450
Envir2	12/30/1991	76.8861454	1458
Envir2	1/18/1995	78.53725222	1463
Envir2	1/19/1996	78.18428184	1476
Envir2	11/12/2001	73.81596752	1478
Envir3	3/29/1992	55.08940853	1454
Envir3	2/4/1998	89.62418301	1224
Envir4	4/3/1994	52.18658892	1372
Envir4	2/4/1998	42.33524355	1396
Envir4	10/12/2010	45.03042596	1972
Envir5	11/23/1988	85.77291382	1462
Envir5	12/3/1989	82.36914601	1452
Envir5	12/30/1991	85.75418994	1432
Envir5	1/28/1993	87.88088643	1444
Envir6	12/3/1989	90.17264276	1506
Envir6	8/10/1998	84.28860418	1483
Envir7	12/1/1997	47.1657754	1870
Envir7	10/25/1998	46.7230444	1892
Envir7	10/16/2000	58.59491779	1338
Envir7	10/10/2001	59.42720764	1257
Envir7	9/1/2003	56.90093141	1181
Envir7	9/1/2004	62.65270506	1146
Envir7	9/1/2005	66.78476528	1129
Envir7	9/1/2006	72.20248668	1126
Envir7	10/14/2007	73.6453202	1218
Envir7	10/21/2008	69.09340659	728
Envir8	2/1/1986	41.53424658	1825
Envir8	9/1/1986	42.63607257	1874

Envir8	3/1/1987	49.08503767	1858
Envir8	11/1/1987	15.28969957	1864
Envir8	11/1/1988	45.18828452	1912
Envir8	6/1/1989	30.49040512	1876
Envir8	1/1/1989	27.56785524	1879
Envir8	12/1/1989	38.01139306	1931
Envir8	4/1/1990	30.96605744	1915
Envir8	6/1/1990	35.22434244	1939
Envir8	10/1/1990	36.72520661	1936
Envir8	1/1/1991	41.70638704	2098
Envir8	4/1/1991	40.58945191	1934
Envir8	7/1/1991	38.63157895	1900
Envir8	10/1/1991	43.53182752	1461
Envir8	2/1/1992	43.0176565	1869
Envir8	5/2/1992	47.32945531	1891
Envir8	8/1/1992	50.7548152	1921
Envir8	11/1/1992	46.72603457	1909
Envir8	3/1/1993	50.67357513	1930
Envir8	6/1/1993	49.81353223	1877
Envir8	9/1/1993	51.25601283	1871
Envir8	12/1/1993	56.00223339	1791
Envir8	3/1/1994	55.39033457	1883
Envir8	6/1/1994	58.37295298	1893
Envir8	9/1/1994	57.67973856	1836
Envir8	12/1/1994	57.53498385	1858
Envir8	3/1/1995	59.3716143	1846
Envir8	6/1/1995	58.38180857	1891
Envir8	9/1/1995	59.42887931	1856
Envir8	1/3/1996	60.44133477	1858
Envir8	1/6/1996	60.17699115	1808
Envir8	1/10/1996	59.17582418	1820
Envir8	1/12/1996	58.68131868	1820
Envir8	1/3/1997	54.89864865	1776
Envir8	1/6/1997	55.41222658	1783
Envir8	1/9/1997	56.93593315	1795
Envir8	12/1/1997	58.87323944	1775
Envir8	4/6/1998	59.54022989	1740
Envir8	7/16/1998	55.45977011	1740
Envir8	10/25/1998	57.6	1750
Envir8	1/31/1999	58.90973036	1706
Envir8	4/30/1999	56.09893198	1779
Envir8	8/2/1999	49.88290398	1708
Envir8	11/1/1999	53.59911406	1806
Envir8	1/16/2000	57.72727273	1980
Envir8	4/15/2000	55.86206897	1885
Envir8	7/15/2000	55.24364407	1888

Envir8	10/16/2000	50.6940874	1945
Envir8	4/24/2001	50.89418778	1342
Envir8	7/10/2001	48.31207802	1333
Envir8	10/10/2001	50.42372881	1180
Envir8	1/5/2002	48.79227053	1242
Envir8	3/1/2003	57.38427627	1361
Envir8	6/1/2003	53.75191424	1306
Envir8	9/1/2003	55.20504732	1268
Envir8	12/1/2003	62.58823529	1275
Envir8	12/1/2003	62.58823529	1275
Envir8	12/1/2004	45.59471366	1362
Envir8	3/1/2005	44.77296727	947
Envir8	9/1/2005	48.65488086	1301
Envir8	3/1/2006	42.7184466	1236
Envir8	6/1/2006	36.81229773	1236
Envir8	9/1/2006	39.75308642	1215
Envir8	12/1/2006	35.99361532	1253
Envir8	3/4/2007	39.3002441	1229
Envir8	6/30/2007	35.91606134	1239
Envir8	10/14/2007	40.22082019	1268
Envir8	1/3/2008	42.61501211	1239
Envir8	4/7/2008	35.97560976	1312
Envir8	7/5/2008	35.76982893	1286
Envir8	2/1/2009	40.11328527	1942
Envir8	3/1/2009	44.28571429	1330
Envir8	6/1/2009	39.75026015	961

## Ozone Depletion

### Log File

28 records after date scan						
Period:						
Number of Series: 1988 to 2001, 14 Time Points						
Exponential Smoothing: On						
Iteration History: Dimension 1						
Iter	Convergence	Criterion	Items	Reliability	AlphaF	AlphaB
1	.6982	.001	6	.936	.575	.500
2	.0094	.001	6	.932	.643	.500
3	.0014	.001	6	.932	.645	.500
4	.0001	.001	6	.932	.645	.500
Loadings and descriptive variable information						
			Dim 1	Dim 2		
Vn	Variable	Cases	Loading	Loading	Mean	Std Deviation
6	Envir4	10	.982	.000	60.163	5.191
2	Envir2	5	.882	.000	61.491	5.234
4	Cgall1	4	.858	.000	62.161	9.122
1	Envir1	5	.585	.000	30.414	8.391
3	Envir3	2	1.000	.000	26.578	19.474
5	Deciq1	2	1.000	.000	37.445	4.557
Dimension 1 Information						
Eigen Estimate 1.58 of possible 2						
Pct Variance Explained: 79.21						
Weighted Average Metric: Mean: 46.89 St. Dev: 8.86						

### Txt File

Envir1	2/21/1989	39.15789474	1425
Envir1	2/22/1990	16.76607025	1509
Envir1	2/24/1991	30.76923077	1404
Envir1	1/28/1993	38.96648045	1432
Envir1	4/17/1999	26.40926641	1295
Envir2	12/3/1989	63.11594203	1380
Envir2	3/29/1992	69.83584131	1462
Envir2	9/10/1994	59.98598458	1427
Envir2	7/8/1996	60.90846524	1453
Envir2	2/4/1998	53.61111111	1440
Envir3	7/31/1997	46.05263158	152
Envir3	2/4/1998	7.103825137	366
Cgall1	9/1/1989	71.5407262	1019
Cgall1	3/1/1992	71.01449275	966
Cgall1	6/1/1994	53.39412361	987



Cgall1	6/1/2000	52.69461078	1002
Deciq1	6/1/1989	42.00268817	1488
Deciq1	3/1/1994	32.88770053	1496
Envir4	11/23/1988	61.86440678	1416
Envir4	12/3/1989	65.66552901	1465
Envir4	11/28/1990	62.27709191	1458
Envir4	3/19/1992	68.40324763	1478
Envir4	1/28/1993	66.5317139	1482
Envir4	1/28/1996	55.07051713	1489
Envir4	4/9/1998	53.8047138	1485
Envir4	4/9/1999	57.78501629	1535
Envir4	2/20/2000	54.69543147	1576
Envir4	2/26/2001	55.53372626	1527

## Water Quality

### Log File

50 records after date scan						
Period: 1980 to 2008, 29 Time Points						
Number of Series: 13						
Exponential Smoothing: On						
Iteration History: Dimension 1						
Iter	Convergence	Criterion	Items	Reliability	AlphaF	AlphaB
1	.1960	.001	13	-.037	.500	.676
2	.0271	.001	13	.154	.500	.644
3	.0089	.001	13	.156	.500	.656
4	.0040	.001	13	.160	.500	.662
5	.0017	.001	13	.162	.500	.665
6	.0010	.001	13	.160	.500	.676
7	.0015	.001	13	.166	.500	.658
Loadings and descriptive variable information						
Vn	Variable	Cases	Dim 1	Dim 2	Mean	Std Deviation
			Loading	Loading		
1	Envir1	9	.710	.000	65.917	6.584
9	Envir10	6	.906	.000	30.133	3.557
13	Cgall1	5	.592	.000	69.637	2.930
5	Envir5	3	.949	.000	66.257	10.265
3	Envir3	3	.801	.000	70.059	5.714
7	Envir7	7	.288	.000	17.925	3.646
4	Envir4	2	1.000	.000	64.485	.456
10	Envir11	2	1.000	.000	90.225	5.672
12	Envir13	2	1.000	.000	71.104	3.528
11	Envir12	3	.273	.000	80.905	3.317
6	Envir6	2	-1.000	.000	75.621	.948
8	Envir9	2	-1.000	.000	66.102	1.062
2	Envir2	3	-.996	.000	56.335	2.352
Dimension 1 Information						
Eigen Estimate 1.02 of possible 1.69						
Pct Variance Explained: 60.43						
Weighted Average Metric: Mean: 65.97 St. Dev: 3.71						

### Txt File

Envir1	9/1/1987	68.42809365	1495
Envir1	11/23/1988	73.75415282	1505
Envir1	12/3/1989	73.6946464	1513
Envir1	11/28/1990	52.04560698	1491
Envir1	2/24/1991	64.15722851	1501

Envir1	3/29/1992	61.96524064	1496
Envir1	1/28/1993	70.94414894	1504
Envir1	1/19/1996	61.03379722	1509
Envir1	2/20/2000	67.2327044	1590
Envir2	9/1/1987	53.90309556	1486
Envir2	11/23/1988	55.58528428	1495
Envir2	1/28/1990	59.51580363	1487
Envir3	9/1/1987	77.5850567	1499
Envir3	3/1/2005	68.84480747	857
Envir3	3/1/2007	63.74859708	891
Envir4	3/1/2005	64.02877698	834
Envir4	3/1/2007	64.94117647	850
Envir5	6/1/1982	68.4532925	1959
Envir5	9/1/1984	77.58532858	1963
Envir5	11/23/1988	52.73095078	1483
Envir6	11/28/1990	76.56903766	1434
Envir6	1/28/1993	74.67309016	1453
Envir7	10/1/1988	12.66709102	1571
Envir7	6/1/1989	12.67682263	1838
Envir7	11/1/1989	18.1083266	1237
Envir7	7/1/1991	16.05922551	1756
Envir7	9/1/1993	16.77814939	1794
Envir7	4/17/1999	24.03644008	1427
Envir7	2/20/2000	20.2020202	1386
Envir7	3/1/2005	20.87126138	1538
Envir9	6/26/1988	67.1641791	1474
Envir9	8/12/1989	65.04065041	1476
Envir10	1/28/1993	32.56979241	1397
Envir10	8/10/1998	33.91891892	740
Envir10	4/15/2000	33.55065196	1994
Envir10	10/10/2001	29.55787382	2013
Envir10	6/1/2004	26.73366834	1990
Envir10	7/5/2008	24.46916077	1978
Envir11	4/1/1980	84.55240175	1832
Envir11	9/1/1984	95.8971824	2023
Envir12	6/1/2003	81.49546828	1324
Envir12	6/1/2005	76.57961247	1187
Envir12	6/30/2007	84.64079273	1211
Envir13	6/1/2003	67.57575758	1320
Envir13	6/1/2005	74.63203463	1155
Cgall1	9/1/1989	75.07163324	1047
Cgall1	3/1/1992	66.33266533	998
Cgall1	6/1/1994	69.32270916	1004
Cgall1	6/1/1996	69.32270916	1004
Cgall1	6/1/2000	68.13294233	1023

## Wildlife Protection

### Log File

28 records after date scan						
Period: 1981 to 2007, 27 Time Points						
Number of Series: 8						
Exponential Smoothing: On						
Iteration History: Dimension 1						
Iter	Convergence	Criterion	Items	Reliability	AlphaF	AlphaB
1	.3089	.001	8	.374	.875	.725
2	.0147	.001	8	.909	1.000	.766
3	.0005	.001	8	.909	1.000	.768
Loadings and descriptive variable information						
Vn	Variable	Cases	Dim 1 Loading	Dim 2 Loading	Mean	Std Deviation
2	Envir1	9	.954	.000	52.915	3.799
7	Envir6	4	.890	.000	60.191	3.857
3	Envir2	3	1.000	.000	65.000	6.453
5	Envir4	2	1.000	.000	49.590	.066
6	Envir5	2	1.000	.000	12.321	.722
8	Envir7	2	1.000	.000	51.934	3.837
1	Statc3	3	-.997	.000	89.113	1.522
4	Envir3	3	-.999	.000	20.474	9.162
Dimension 1 Information						
Eigen Estimate .98 of possible 1.04						
Pct Variance Explained: 94.04						
Weighted Average Metric: Mean: 49.86 St. Dev: 3.67						

### Txt File

Statc3	1/1/1981	90.39659514	67903
Statc3	1/1/1987	86.97504791	53743
Statc3	1/1/1991	89.96707312	66511
Envir1	11/28/1990	54.79082321	1482
Envir1	3/29/1992	51.07962213	1482
Envir1	1/28/1993	58.72170439	1502
Envir1	1/19/1996	50.53333333	1500
Envir1	4/9/1998	48.09364548	1495
Envir1	2/20/2000	50.88495575	1582
Envir1	2/26/2001	50.03240441	1543
Envir1	3/1/2005	52.28365385	832
Envir1	3/4/2007	59.8119859	851
Envir2	9/1/1987	71.34268537	1497
Envir2	11/23/1988	67.50998668	1502

Envir2	12/3/1989	56.1461794	1505
Envir3	12/30/1991	7.567567568	1295
Envir3	1/19/1996	25.92873389	1319
Envir3	2/26/2001	27.9245283	1325
Envir4	10/1/1990	49.65553789	1887
Envir4	2/1/1992	49.52380952	1890
Envir5	9/1/1984	11.59921027	2026
Envir5	9/1/1985	13.04347826	2047
Envir6	11/28/1990	63.34688347	1476
Envir6	12/30/1991	64.44595513	1471
Envir6	1/28/1993	57.89473684	1482
Envir6	1/18/1995	55.0744249	1478
Envir7	11/1/1981	48.09688581	1734
Envir7	2/1/1983	55.77032405	1759