The SAS System

The CANCORR Procedure

Canonical Correlation Analysis

Note: The correlation matrix for the VAR Variables is less than full rank. Therefore, some canonical coefficients will be zero.

Note: The correlation matrix for the WITH Variables is less than full rank. Therefore, some canonical correlations and coefficients will be zero.

	Canonical Correlation	Adjusted Canonical Correlation	Approximate Standard Error	Squared Canonical Correlation	Eigenvalues of Inv(E)*H = CanRsq/(1-CanRsq)				Test of H0: The canonical correlations in the current row and all that follow are zero				
					Eigenvalue	Difference	Proportion	Cumulative	Likelihood Ratio	Approximate F Value	Num DF	Den DF	Pr > F
1	0.953479	0.943348	0.010564	0.909123	10.0039	8.4314	0.7777	0.7777	0.01199029	4.95	77	349.01	<.0001
2	0.781842	0.730492	0.045188	0.611276	1.5725	1.0036	0.1223	0.9000	0.13194004	2.43	60	308.94	<.0001
3	0.602177	0.482217	0.074094	0.362617	0.5689	0.1683	0.0442	0.9442	0.33941846	1.62	45	267.02	0.0110
4	0.534810	0.470237	0.082998	0.286022	0.4006	0.1819	0.0311	0.9754	0.53251886	1.30	32	222.86	0.1421
5	0.423642	0.358231	0.095384	0.179473	0.2187	0.1538	0.0170	0.9924	0.74584720	0.90	21	175.71	0.5919
6	0.246834	0.081396	0.109165	0.060927	0.0649	0.0318	0.0050	0.9974	0.90898502	0.50	12	124	0.9082
7	0.178998	.	0.112523	0.032040	0.0331	0.0331	0.0026	1.0000	0.96795970	0.42	5	63	0.8352
8	0.000000	.	0.116248	0.000000	0.0000		0.0000	1.0000	1.00000000	.	.	.	.

Multivariate Statistics and F Approximations					
S=7 M=1.5 N=27.5					
Statistic	Value	F Value	Num DF	Den DF	Pr > F
Wilks' Lambda	0.01199029	4.95	77	349.01	<.0001
Pillai's Trace	2.44147745	3.07	77	441	<.0001
Hotelling-Lawley Trace	12.86265016	9.27	77	212.6	<.0001
Roy's Greatest Root	10.00390309	57.30	11	63	<.0001
NOTE: F Statistic for Roy's Greatest Root is an upper bound.					

The SAS System

The CANCORR Procedure

Canonical Correlation Analysis

Raw Canonical Coefficients for the VAR Variables								
	V1	V2	V3	V4	V5	V6	V7	V8
Gasoline_Gallons	1.3231065E-9	1.6589284E-8	-3.518086E-8	4.6567687E-9	1.0672044E-8	-1.065279E-8	5.1066155E-9	1.9906226E-8
Diesel_Gallons	1.703616E-8	-5.826306E-8	6.0823165E-8	-5.239693E-9	-7.406081E-8	8.9850476E-8	-1.07045E-7	-7.959796E-8
Kerosene_Gallons	-1.561394E-7	-1.827656E-6	-2.791446E-6	3.1067876E-7	-1.294602E-6	5.4340694E-7	3.0918145E-7	-3.059107E-8
Alternative_Fuels_Gallons	2.867428E-7	1.8623793E-7	4.1605666E-8	-1.205201E-6	-7.820916E-7	-1.229766E-7	9.4414841E-7	1.5858934E-6
Highway_Fuel_Use	1.1913774E-8	4.925823E-10	-3.717547E-8	-1.102393E-7	-6.696269E-8	1.2868897E-7	4.6785638E-8	2.6170785E-8
Total_Gallons_ST_Road_Tax	0	0	0	0	0	0	0	0
Registration_Fee	2.3366854E-6	-3.328062E-6	5.6137201E-6	3.0489315E-6	0.0000146483	0.0000119884	6.9815188E-6	-2.596437E-6
Driver_license_Fee	-1.536386E-7	-1.81073E-7	4.5410895E-7	4.4851754E-7	-1.479655E-7	1.1899388E-7	3.6554015E-8	2.8689361E-7
Emission_inspection	-6.979181E-7	1.6966945E-6	-5.872302E-7	-6.570253E-7	-7.99024E-7	1.2975254E-6	6.3997933E-7	-4.83416E-7
Overweight	5.7478251E-7	4.1212928E-7	1.8312505E-6	-2.600577E-6	-8.552198E-7	6.5640407E-6	-2.421894E-6	3.9247903E-6
Title_fee	1.6776038E-6	-3.880533E-6	6.8555775E-7	1.3478595E-6	2.8589474E-6	-3.261147E-6	-1.63025E-6	1.1943897E-6
Trust_Fund_Title_fee	3.179301E-7	1.9186758E-7	-5.39534E-7	2.5144835E-8	-5.263902E-7	-1.052761E-6	-1.031897E-7	-3.854165E-7

Raw Canonical Coefficients for the WITH Variables								
	W1	W2	W3	W4	W5	W6	W7	W8
Quarterly_GDP_of_NC	-0.000029518	0.0000582572	-0.000104769	-0.000158338	-0.00011092	0.0000435081	-0.000017616	0
Labor_Force	8.3621434E-6	0.0000234675	-0.00006107	9.8732544E-6	-0.000013805	-0.000035632	5.8505559E-6	0
Employment	-3.98523E-6	-0.000031227	0.0000581314	0.000011136	0.0000556476	0.0000339723	5.1892888E-6	0
Unemployment	0	0	0	0	0	0	0	0
UnemploymentRate	-1.297892822	28.109442654	91.331453429	-126.0257703	144.93200103	266.78222821	25.681282934	0
CPI_U	0.0898653961	-0.018545236	-0.677937374	0.3086769242	0.1660941217	0.5122668421	-1.584081055	0
Normalized_CPI_U	-22.08025025	21.765045497	115.00103929	-37.71222181	-69.62995091	-51.05015374	334.16309572	0
Monthly_Retail_and_Food_Services	0.0000181617	0.000133718	0.0000940829	-0.000044322	7.7311678E-6	-0.000086571	-0.000037514	0

The SAS System

The CANCORR Procedure

Canonical Correlation Analysis

Standardized Canonical Coefficients for the VAR Variables								
	V1	V2	V3	V4	V5	V6	V7	V8
Gasoline_Gallons	0.0533	0.6678	-1.4162	0.1875	0.4296	-0.4288	0.2056	0.8013
Diesel_Gallons	0.1614	-0.5521	0.5763	-0.0497	-0.7018	0.8514	-1.0143	-0.7543
Kerosene_Gallons	-0.0480	-0.5614	-0.8574	0.0954	-0.3977	0.1669	0.0950	-0.0094
Alternative_Fuels_Gallons	0.1564	0.1016	0.0227	-0.6573	-0.4265	-0.0671	0.5149	0.8649
Highway_Fuel_Use	0.0561	0.0023	-0.1749	-0.5187	-0.3151	0.6055	0.2201	0.1231
Total_Gallons_ST_Road_Tax	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Registration_Fee	0.2443	-0.0348	0.5870	0.3188	1.5316	1.2535	0.7300	-0.2715
Driver_license_Fee	-0.2785	-0.3282	0.8231	0.8130	-0.2682	0.2157	0.0663	0.5200
Emission_inspection	-0.9319	2.2656	-0.7841	-0.8773	-1.0669	1.7326	0.8546	-0.6455
Overweight	0.0491	0.0352	0.1564	-0.2221	-0.0730	0.5605	-0.2068	0.3351
Title_fee	0.8814	-2.0388	0.3602	0.7082	1.5021	-1.7134	-0.8565	0.6275
Trust_Fund_Title_fee	0.5813	0.3508	-0.9865	0.0460	-0.9625	-1.9249	-0.1887	-0.7047

Standardized Canonical Coefficients for the WITH Variables								
	W1	W2	W3	W4	W5	W6	W7	W8
Quarterly_GDP_of_NC	-1.0209	2.0150	-3.6237	-5.4765	-3.8364	1.5048	-0.6093	0.0000
Labor_Force	0.6245	1.7525	-4.5605	0.7373	-1.0309	-2.6609	0.4369	0.0000
Employment	-0.6549	-5.1317	9.5532	1.8301	9.1451	5.5830	0.8528	0.0000
Unemployment	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UnemploymentRate	-0.0273	0.5920	1.9234	-2.6540	3.0522	5.6183	0.5408	0.0000
CPI_U	0.7179	-0.1481	-5.4156	2.4658	1.3268	4.0922	-12.6543	0.0000
Normalized_CPI_U	-0.8584	0.8461	4.4707	-1.4661	-2.7069	-1.9846	12.9906	0.0000
Monthly_Retail_and_Food_Services	0.2363	1.7396	1.2240	-0.5766	0.1006	-1.1262	-0.4880	0.0000

The SAS System

The CANCORR Procedure

Canonical Structure

Correlations Between the VAR Variables and Their Canonical Variables								
	V1	V2	V3	V4	V5	V6	V7	V8
Gasoline_Gallons	0.4089	0.3078	-0.3291	0.3379	-0.0055	0.1977	-0.5146	0.3933
Diesel_Gallons	0.6096	0.1083	-0.0932	0.1720	-0.1613	0.2296	-0.6219	0.1446
Kerosene_Gallons	-0.1553	-0.6381	-0.4183	0.1452	-0.1819	0.1240	0.4830	-0.0992
Alternative_Fuels_Gallons	0.6173	-0.0407	0.1220	-0.2292	-0.1954	-0.1243	0.1988	0.4831
Highway_Fuel_Use	0.0416	-0.0529	-0.1592	-0.1786	-0.0676	0.3321	0.1021	-0.1683
Total_Gallons_ST_Road_Tax	0.4702	0.2680	-0.3092	0.2961	-0.0461	0.2414	-0.5354	0.3445
Registration_Fee	0.8202	0.0975	0.0230	0.3164	0.0623	0.2186	0.3768	-0.1097
Driver_license_Fee	0.1316	0.2087	0.1085	0.7847	-0.2460	0.1063	0.2133	0.2484
Emission_inspection	-0.3010	0.3046	-0.1846	0.0407	0.3667	-0.0910	0.0549	0.0284
Overweight	0.6523	0.3057	0.1616	0.0900	-0.0459	0.3026	0.0915	0.1718
Title_fee	-0.1808	0.1083	-0.1800	-0.0148	0.4915	-0.1608	-0.0502	0.1086
Trust_Fund_Title_fee	0.7855	0.2625	0.0097	0.3352	-0.2082	-0.0388	0.2967	-0.1667

Correlations Between the WITH Variables and Their Canonical Variables								
	W1	W2	W3	W4	W5	W6	W7	W8
Quarterly_GDP_of_NC	-0.9773	0.1356	-0.0792	0.0002	0.1269	-0.0580	-0.0285	0.0000
Labor_Force	-0.8491	0.2643	-0.2320	0.1282	0.3523	-0.0911	0.0805	0.0000
Employment	-0.9534	0.1599	-0.0636	0.1144	0.2115	-0.0602	-0.0037	0.0000
Unemployment	0.9832	-0.0690	-0.0724	-0.0972	-0.0891	0.0326	0.0698	0.0000
UnemploymentRate	0.9715	-0.0874	0.0124	-0.1578	-0.0478	0.1335	0.0582	0.0000
CPI_U	-0.8712	0.3264	-0.0169	0.3400	-0.0106	0.1351	-0.0162	0.0000
Normalized_CPI_U	-0.8740	0.3282	-0.0036	0.3308	-0.0226	0.1261	0.0510	0.0000
Monthly_Retail_and_Food_Services	-0.8048	0.5212	0.1339	0.1297	0.1483	-0.1139	-0.1051	0.0000

Correlations Between the VAR Variables and the Canonical Variables of the WITH Variables								
	W1	W2	W3	W4	W5	W6	W7	W8
Gasoline_Gallons	0.3899	0.2406	-0.1982	0.1807	-0.0023	0.0488	-0.0921	0.0000
Diesel_Gallons	0.5813	0.0847	-0.0561	0.0920	-0.0683	0.0567	-0.1113	0.0000
Kerosene_Gallons	-0.1481	-0.4989	-0.2519	0.0777	-0.0771	0.0306	0.0865	0.0000
Alternative_Fuels_Gallons	0.5886	-0.0319	0.0734	-0.1226	-0.0828	-0.0307	0.0356	0.0000
Highway_Fuel_Use	0.0397	-0.0414	-0.0959	-0.0955	-0.0286	0.0820	0.0183	0.0000
Total_Gallons_ST_Road_Tax	0.4483	0.2095	-0.1862	0.1584	-0.0195	0.0596	-0.0958	0.0000
Registration_Fee	0.7821	0.0762	0.0138	0.1692	0.0264	0.0540	0.0674	0.0000
Driver_license_Fee	0.1255	0.1632	0.0653	0.4197	-0.1042	0.0262	0.0382	0.0000
Emission_inspection	-0.2870	0.2382	-0.1112	0.0218	0.1553	-0.0225	0.0098	0.0000
Overweight	0.6219	0.2390	0.0973	0.0481	-0.0195	0.0747	0.0164	0.0000
Title_fee	-0.1724	0.0847	-0.1084	-0.0079	0.2082	-0.0397	-0.0090	0.0000
Trust_Fund_Title_fee	0.7490	0.2052	0.0059	0.1793	-0.0882	-0.0096	0.0531	0.0000

Correlations Between the WITH Variables and the Canonical Variables of the VAR Variables								
	V1	V2	V3	V4	V5	V6	V7	V8
Quarterly_GDP_of_NC	-0.9318	0.1060	-0.0477	0.0001	0.0538	-0.0143	-0.0051	-0.0000
Labor_Force	-0.8096	0.2066	-0.1397	0.0686	0.1493	-0.0225	0.0144	-0.0000
Employment	-0.9090	0.1250	-0.0383	0.0612	0.0896	-0.0149	-0.0007	0.0000
Unemployment	0.9375	-0.0539	-0.0436	-0.0520	-0.0377	0.0080	0.0125	-0.0000
UnemploymentRate	0.9263	-0.0684	0.0075	-0.0844	-0.0203	0.0330	0.0104	0.0000
CPI_U	-0.8306	0.2552	-0.0102	0.1818	-0.0045	0.0333	-0.0029	-0.0000
Normalized_CPI_U	-0.8333	0.2566	-0.0022	0.1769	-0.0096	0.0311	0.0091	-0.0000
Monthly_Retail_and_Food_Services	-0.7673	0.4075	0.0806	0.0694	0.0628	-0.0281	-0.0188	0.0000

The SAS System

The CANCORR Procedure

Canonical Correlation Analysis

Note: The correlation matrix for the VAR Variables is less than full rank. Therefore, some canonical correlations and coefficients will be zero.

Note: The correlation matrix for the WITH Variables is less than full rank. Therefore, some canonical correlations and coefficients will be zero.

	Canonical Correlation	Adjusted Canonical Correlation	Approximate Standard Error	Squared Canonical Correlation	Eigenvalues of Inv(E)*H = CanRsq/(1-CanRsq)				Test of H0: The canonical correlations in the current row and all that follow are zero				
					Eigenvalue	Difference	Proportion	Cumulative	Likelihood Ratio	Approximate F Value	Num DF	Den DF	Pr > F
1	0.801646	0.726804	0.041543	0.642636	1.7983	0.7518	0.3934	0.3934	0.04167857	1.78	121	431.67	<.0001
2	0.715084	0.612044	0.056805	0.511345	1.0464	0.2947	0.2289	0.6223	0.11662784	1.39	100	398.48	0.0139
3	0.655081	0.577662	0.066362	0.429131	0.7517	0.3899	0.1644	0.7867	0.23867125	1.12	81	364.41	0.2489
4	0.515445	0.308555	0.085363	0.265683	0.3618	0.0673	0.0791	0.8658	0.41808436	0.84	64	329.49	0.7990
5	0.476980	.	0.089800	0.227510	0.2945	0.1571	0.0644	0.9302	0.56935163	0.70	49	293.8	0.9318
6	0.347555	0.165311	0.102206	0.120794	0.1374	0.0718	0.0301	0.9603	0.73703408	0.51	36	257.46	0.9909
7	0.248178	.	0.109088	0.061592	0.0656	0.0029	0.0144	0.9747	0.83829551	0.43	25	220.68	0.9929
8	0.243037	.	0.109381	0.059067	0.0628	0.0143	0.0137	0.9884	0.89331696	0.43	16	183.94	0.9723
9	0.215031	.	0.110873	0.046238	0.0485	0.0445	0.0106	0.9990	0.94939463	0.36	9	148.61	0.9538
10	0.062931	.	0.115787	0.003960	0.0040	0.0034	0.0009	0.9999	0.99542131	0.07	4	124	0.9906
11	0.024917	.	0.116175	0.000621	0.0006		0.0001	1.0000	0.99937913	0.04	1	63	0.8438

Multivariate Statistics and F Approximations					
S=11 M=-0.5 N=25.5					
Statistic	Value	F Value	Num DF	Den DF	Pr > F
Wilks' Lambda	0.04167857	1.78	121	431.67	<.0001
Pillai's Trace	2.36857897	1.57	121	693	0.0003
Hotelling-Lawley Trace	4.57162207	1.94	121	245.82	<.0001
Roy's Greatest Root	1.79826844	10.30	11	63	<.0001
NOTE: F Statistic for Roy's Greatest Root is an upper bound.					

The SAS System

The CANCORR Procedure

Canonical Correlation Analysis

Raw Canonical Coefficients for the VAR Variables												
	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	V11	V12
Gasoline_Gallons	7.4335367E-9	1.3190312E-8	1.0393061E-8	-3.875717E-8	6.6710453E-9	-1.37893E-10	2.0814131E-8	2.7970983E-9	1.2371699E-8	-5.773152E-9	-1.288714E-8	0
Diesel_Gallons	-4.43074E-8	-8.911918E-9	3.3310218E-9	2.0307873E-7	-4.285264E-8	4.54987E-8	-3.053822E-8	-5.27614E-10	2.7568622E-8	-1.90392E-8	4.8734151E-8	0
Kerosene_Gallons	-2.870856E-6	1.2357738E-6	-4.494576E-7	-1.277988E-7	1.245957E-6	2.8325196E-7	1.0564597E-6	7.3545273E-8	1.7202479E-6	2.5485119E-7	6.6703091E-7	0
Alternative_Fuels_Gallons	1.6475669E-7	1.0639874E-6	8.6754772E-7	-2.734713E-7	5.3362094E-7	8.9408139E-7	-8.909333E-7	-5.198821E-7	-5.054863E-7	1.2569956E-6	-8.673395E-7	0
Highway_Fuel_Use	7.2733471E-9	7.4020529E-8	1.1028401E-7	3.6948085E-8	2.4465816E-8	8.2673125E-8	-1.340967E-8	1.4740965E-7	-5.302071E-8	1.2035926E-7	4.6271098E-8	0
Total_Gallons_ST_Road_Tax	0	0	0	0	0	0	0	0	0	0	0	0
Registration_Fee	1.0154691E-6	-0.00001007	3.8740135E-7	1.9363841E-6	2.9349445E-6	9.2634632E-6	4.4993256E-6	4.3150097E-6	-0.00001558	-8.196801E-6	-6.160792E-6	0
Driver_license_Fee	4.8909211E-8	2.0764072E-7	-2.056708E-7	1.9663065E-7	1.4196304E-7	-6.834228E-8	-5.598685E-7	1.9150794E-7	-2.065563E-7	-3.190462E-7	-3.642007E-8	0
Emission_inspection	6.0666644E-7	5.6897183E-7	-8.715879E-7	3.8051998E-7	-5.133039E-7	2.1868366E-6	8.5665064E-7	2.2919996E-7	7.8193116E-8	1.0226246E-6	-2.59708E-7	0
Overweight	2.0517486E-6	5.5423501E-6	-4.935705E-6	6.8185135E-6	7.8183793E-6	-8.615747E-6	7.2224632E-6	-1.106206E-6	-1.969117E-7	3.6158007E-6	2.7123007E-6	0
Title_fee	-1.245E-6	-1.342209E-6	2.4853004E-6	-1.100958E-6	1.8169321E-6	-4.454788E-6	-1.723622E-6	-1.389981E-6	-2.067565E-7	-2.748754E-6	2.014163E-6	0
Trust_Fund_Title_fee	-1.453518E-8	-2.473973E-7	8.5075004E-8	-5.37997E-7	-1.57766E-7	-3.109889E-7	-2.077521E-7	-2.072144E-7	1.152367E-6	4.0479133E-7	3.0040362E-7	0

Raw Canonical Coefficients for the WITH Variables												
	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12
Ave_Temperature_F	-0.047263665	-1.459656051	-0.068278479	-1.070053775	-0.861369025	1.1925180129	0.2580086432	-0.858107343	-0.566313178	0.2079184481	0.3620833421	0
Ave_Precipitation	-1.87322306	-1.094584768	-5.876928532	-0.307672429	-12.495876	0.1075040228	-2.821895219	-3.145946111	12.246227347	-1.266071747	0.1523228636	0
Ave_Snowfall	-1.072727379	0.2057129438	2.7700459939	-3.530035623	3.8494451465	0.4061602944	19.033241696	0.6356958235	4.2424156376	6.5029809122	-13.88442147	0
Ave_snow_depth	.	.	.	.	.	.	.	.	.	.	.	.
Ave_heating_degree_day	-0.137257044	-1.325767409	0.3782696414	-1.08180829	-0.909410546	1.224103659	0.1581290366	-0.890426469	-0.66814806	-0.059974857	0.393391196	0
Ave_Cooling_Degree_Day	0.1597057435	1.4857446247	-0.301165968	0.8407488607	0.9350525018	-1.035873253	-0.29061893	1.0778583985	0.7542572256	-0.126875774	-0.28181854	0
Hurrican_times_occurred	-0.179280376	-0.626129823	0.7395647776	0.1042976301	-1.045849236	0.4320072637	-0.223843067	1.3251666749	-0.101974319	1.082505389	0.1464709584	0
Daily_Dew_Point	-0.017969517	0.1362213435	0.3774489721	0.1054744604	0.0124752092	-0.045338035	-0.033623471	-0.094837763	-0.092743172	-0.154477624	-0.055074591	0
Sea_Level_Pressure	0.0328278843	0.2321175678	-0.156293548	-0.028826776	0.1315458076	0.187664577	-0.180346859	-0.166074698	0.0992647592	0.3249734193	-0.097025997	0
Daily_Visibility	-0.000129488	-0.000156041	-0.00013356	0.0012189551	0.0003857816	0.0010233249	0.0007862263	-0.000056326	0.0004740244	-0.000029675	0.0003297939	0
Daily_Wind_Speed	0.0150320233	-0.141296397	0.1451072106	0.0523693372	0.3136994365	0.0803823277	-0.28201475	0.1182097864	0.061883477	-0.127769759	-0.325277781	0
Daily_Humidity	-0.000416791	0.004939864	-0.00488446	-0.001371407	-0.010350468	-0.001944244	0.0091961016	-0.003386404	-0.00308448	0.0035233336	0.0094387923	0

The SAS System

The CANCORR Procedure

Canonical Correlation Analysis

Standardized Canonical Coefficients for the VAR Variables												
	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	V11	V12
Gasoline_Gallons	0.2992	0.5310	0.4184	-1.5602	0.2685	-0.0056	0.8379	0.1126	0.4980	-0.2324	-0.5188	0.0000
Diesel_Gallons	-0.4198	-0.0844	0.0316	1.9243	-0.4061	0.4311	-0.2894	-0.0050	0.2612	-0.1804	0.4618	0.0000
Kerosene_Gallons	-0.8818	0.3796	-0.1381	-0.0393	0.3827	0.0870	0.3245	0.0226	0.5284	0.0783	0.2049	0.0000
Alternative_Fuels_Gallons	0.0899	0.5803	0.4731	-0.1491	0.2910	0.4876	-0.4859	-0.2835	-0.2757	0.6855	-0.4730	0.0000
Highway_Fuel_Use	0.0342	0.3483	0.5189	0.1739	0.1151	0.3890	-0.0631	0.6936	-0.2495	0.5663	0.2177	0.0000
Total_Gallons_ST_Road_Tax	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Registration_Fee	0.1062	-1.0529	0.0405	0.2025	0.3069	0.9686	0.4704	0.4512	-1.6290	-0.8570	-0.6442	0.0000
Driver_license_Fee	0.0887	0.3764	-0.3728	0.3564	0.2573	-0.1239	-1.0148	0.3471	-0.3744	-0.5783	-0.0660	0.0000
Emission_inspection	0.8101	0.7597	-1.1638	0.5081	-0.6854	2.9201	1.1439	0.3061	0.1044	1.3655	-0.3468	0.0000
Overweight	0.1752	0.4732	-0.4214	0.5822	0.6676	-0.7357	0.6167	-0.0945	-0.0168	0.3087	0.2316	0.0000
Title_fee	-0.6541	-0.7052	1.3058	-0.5784	0.9546	-2.3405	-0.9056	-0.7303	-0.1086	-1.4442	1.0582	0.0000
Trust_Fund_Title_fee	-0.0266	-0.4523	0.1556	-0.9837	-0.2885	-0.5686	-0.3799	-0.3789	2.1070	0.7401	0.5493	0.0000

Standardized Canonical Coefficients for the WITH Variables												
	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12
Ave_Temperature_F	-0.6658	-20.5623	-0.9618	-15.0740	-12.1342	16.7991	3.6346	-12.0883	-7.9777	2.9290	5.1007	0.0000
Ave_Precipitation	-0.1151	-0.0672	-0.3610	-0.0189	-0.7676	0.0066	-0.1733	-0.1933	0.7523	-0.0778	0.0094	0.0000
Ave_Snowfall	-0.0514	0.0099	0.1328	-0.1692	0.1845	0.0195	0.9123	0.0305	0.2033	0.3117	-0.6655	0.0000
Ave_snow_depth	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Ave_heating_degree_day	-1.2158	-11.7439	3.3508	-9.5829	-8.0557	10.8433	1.4007	-7.8876	-5.9186	-0.5313	3.4847	0.0000
Ave_Cooling_Degree_Day	0.8867	8.2489	-1.6721	4.6679	5.1915	-5.7512	-1.6135	5.9843	4.1877	-0.7044	-1.5647	0.0000
Hurrican_times_occurred	-0.0853	-0.2979	0.3518	0.0496	-0.4975	0.2055	-0.1065	0.6304	-0.0485	0.5150	0.0697	0.0000
Daily_Dew_Point	-0.2712	2.0557	5.6960	1.5917	0.1883	-0.6842	-0.5074	-1.4312	-1.3996	-2.3312	-0.8311	0.0000
Sea_Level_Pressure	0.0810	0.5727	-0.3856	-0.0711	0.3245	0.4630	-0.4449	-0.4097	0.2449	0.8017	-0.2394	0.0000
Daily_Visibility	-0.0704	-0.0848	-0.0726	0.6624	0.2096	0.5561	0.4272	-0.0306	0.2576	-0.0161	0.1792	0.0000
Daily_Wind_Speed	0.2729	-2.5652	2.6344	0.9507	5.6951	1.4593	-5.1199	2.1461	1.1235	-2.3196	-5.9053	0.0000
Daily_Humidity	-0.2374	2.8141	-2.7825	-0.7812	-5.8963	-1.1076	5.2387	-1.9291	-1.7571	2.0071	5.3770	0.0000

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Canonical Structure

Correlations Between the VAR Variables and Their Canonical Variables

	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	V11	V12
Gasoline_Gallons	0.3463	0.2612	0.4031	0.1015	0.1469	0.0833	0.2224	0.1340	0.4425	-0.4847	-0.3353	0.0000
Diesel_Gallons	0.1875	0.0308	0.4554	0.5317	0.0898	0.1289	0.0839	-0.0284	0.4807	-0.3459	-0.3012	0.0000
Kerosene_Gallons	-0.8763	0.0574	-0.2782	-0.1596	0.2930	0.1701	0.0278	0.0782	0.0271	0.0560	0.0216	0.0000
Alternative_Fuels_Gallons	0.0087	0.0086	0.3042	0.1582	0.4652	0.1652	-0.2548	-0.4751	0.0799	0.2505	-0.5280	0.0000
Highway_Fuel_Use	0.0486	0.0196	0.3566	-0.0364	0.0435	-0.0208	-0.0010	0.7800	-0.1039	0.2820	0.4096	0.0000
Total_Gallons_ST_Road_Tax	0.3245	0.2260	0.4615	0.1860	0.1514	0.0956	0.1989	0.1771	0.4539	-0.4409	-0.3044	0.0000
Registration_Fee	0.1110	-0.5624	0.0355	0.1319	0.6656	0.2161	-0.0056	0.1742	0.2064	-0.0258	-0.2990	0.0000
Driver_license_Fee	0.2894	0.1243	-0.3283	-0.0006	0.4817	0.1744	-0.4784	0.3311	0.2658	-0.3482	-0.0111	0.0000
Emission_inspection	0.2864	0.1294	-0.1249	-0.1671	0.1564	0.4386	0.0069	-0.3369	-0.0846	-0.1586	0.7035	0.0000
Overweight	0.4130	-0.1315	-0.1008	0.3364	0.7146	-0.1975	0.1979	0.0374	0.2118	0.1668	-0.1609	0.0000
Title_fee	0.2064	0.0951	0.1079	-0.1582	0.2166	0.2914	-0.0210	-0.3914	-0.1362	-0.2343	0.7435	0.0000
Trust_Fund_Title_fee	0.2585	-0.4918	-0.0199	0.0712	0.5560	0.1305	-0.1926	0.1728	0.5074	0.1249	-0.1403	0.0000

Correlations Between the WITH Variables and Their Canonical Variables

	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12
Ave_Temperature_F	0.9825	-0.0624	0.0780	0.0590	-0.1040	0.0217	0.0476	-0.0212	0.0835	0.0040	-0.0128	0.0000
Ave_Precipitation	0.1335	0.0127	-0.0717	0.1233	-0.6181	0.0140	-0.1283	-0.1732	0.5933	-0.2481	-0.3455	0.0000
Ave_Snowfall	-0.5030	0.0995	0.1558	-0.3791	0.0949	-0.0087	0.5483	0.0604	0.2536	0.1197	-0.4209	0.0000
Ave_snow_depth	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Ave_heating_degree_day	-0.9432	0.1409	-0.0386	-0.2011	0.1237	0.0985	-0.0269	0.0966	-0.0211	-0.0849	0.0769	0.0000
Ave_Cooling_Degree_Day	0.9140	0.1083	0.1189	-0.1477	-0.0515	0.1748	0.0735	0.1406	0.1879	-0.1237	0.0897	0.0000
Hurrican_times_occurred	0.2290	-0.1083	0.3730	0.1899	-0.3717	0.1148	-0.1258	0.5418	-0.0046	0.5475	0.0145	0.0000
Daily_Dew_Point	0.9564	0.0020	0.1992	0.0948	-0.1386	0.0197	0.0371	-0.0834	0.0897	-0.0059	-0.0244	0.0000
Sea_Level_Pressure	-0.5942	0.4006	-0.0571	-0.0616	0.1175	0.2809	-0.2833	-0.2750	-0.0530	0.4665	-0.1017	0.0000
Daily_Visibility	-0.2203	-0.0637	-0.0130	0.5848	0.2097	0.5711	0.2652	0.0094	0.2248	-0.1242	0.3142	0.0000
Daily_Wind_Speed	0.0032	0.2144	-0.3513	0.1930	-0.3292	0.2940	-0.0358	0.1737	-0.4691	-0.2838	-0.5163	0.0000
Daily_Humidity	0.0119	0.2688	-0.3569	0.1861	-0.3636	0.2833	0.0082	0.1645	-0.4916	-0.2643	-0.4631	0.0000

Correlations Between the VAR Variables and the Canonical Variables of the WITH Variables

	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12
Gasoline_Gallons	0.2776	0.1868	0.2641	0.0523	0.0701	0.0290	0.0552	0.0326	0.0952	-0.0305	-0.0084	0.0000
Diesel_Gallons	0.1503	0.0220	0.2983	0.2740	0.0428	0.0448	0.0208	-0.0069	0.1034	-0.0218	-0.0075	0.0000
Kerosene_Gallons	-0.7024	0.0410	-0.1822	-0.0823	0.1398	0.0591	0.0069	0.0190	0.0058	0.0035	0.0005	0.0000
Alternative_Fuels_Gallons	0.0070	0.0061	0.1993	0.0816	0.2219	0.0574	-0.0632	-0.1155	0.0172	0.0158	-0.0132	0.0000
Highway_Fuel_Use	0.0389	0.0140	0.2336	-0.0188	0.0207	-0.0072	-0.0002	0.1896	-0.0223	0.0177	0.0102	0.0000
Total_Gallons_ST_Road_Tax	0.2601	0.1616	0.3023	0.0959	0.0722	0.0332	0.0494	0.0431	0.0976	-0.0277	-0.0076	0.0000
Registration_Fee	0.0890	-0.4021	0.0233	0.0680	0.3175	0.0751	-0.0014	0.0423	0.0444	-0.0016	-0.0074	0.0000
Driver_license_Fee	0.2320	0.0889	-0.2151	-0.0003	0.2298	0.0606	-0.1187	0.0805	0.0572	-0.0219	-0.0003	0.0000
Emission_inspection	0.2296	0.0925	-0.0819	-0.0861	0.0746	0.1525	0.0017	-0.0819	-0.0182	-0.0100	0.0175	0.0000
Overweight	0.3311	-0.0940	-0.0660	0.1734	0.3409	-0.0686	0.0491	0.0091	0.0455	0.0105	-0.0040	0.0000
Title_fee	0.1655	0.0680	0.0707	-0.0815	0.1033	0.1013	-0.0052	-0.0951	-0.0293	-0.0147	0.0185	0.0000
Trust_Fund_Title_fee	0.2073	-0.3516	-0.0130	0.0367	0.2652	0.0454	-0.0478	0.0420	0.1091	0.0079	-0.0035	0.0000

Correlations Between the WITH Variables and the Canonical Variables of the VAR Variables

	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	V11	V12
Ave_Temperature_F	0.7877	-0.0446	0.0511	0.0304	-0.0496	0.0075	0.0118	-0.0052	0.0179	0.0002	-0.0003	0.0000
Ave_Precipitation	0.1070	0.0091	-0.0470	0.0636	-0.2948	0.0049	-0.0318	-0.0421	0.1276	-0.0156	-0.0086	0.0000
Ave_Snowfall	-0.4032	0.0712	0.1021	-0.1954	0.0453	-0.0030	0.1361	0.0147	0.0545	0.0075	-0.0105	0.0000
Ave_snow_depth	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Ave_heating_degree_day	-0.7561	0.1008	-0.0253	-0.1037	0.0590	0.0342	-0.0067	0.0235	-0.0045	-0.0053	0.0019	0.0000
Ave_Cooling_Degree_Day	0.7327	0.0775	0.0779	-0.0761	-0.0245	0.0607	0.0182	0.0342	0.0404	-0.0078	0.0022	0.0000
Hurrican_times_occurred	0.1836	-0.0775	0.2443	0.0979	-0.1773	0.0399	-0.0312	0.1317	-0.0010	0.0345	0.0004	0.0000
Daily_Dew_Point	0.7667	0.0014	0.1305	0.0489	-0.0661	0.0069	0.0092	-0.0203	0.0193	-0.0004	-0.0006	0.0000
Sea_Level_Pressure	-0.4763	0.2865	-0.0374	-0.0318	0.0561	0.0976	-0.0703	-0.0668	-0.0114	0.0294	-0.0025	0.0000
Daily_Visibility	-0.1766	-0.0456	-0.0085	0.3014	0.1000	0.1985	0.0658	0.0023	0.0483	-0.0078	0.0078	0.0000

Correlations Between the WITH Variables and the Canonical Variables of the VAR Variables												
	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	V11	V12
Daily_Wind_Speed	0.0026	0.1533	-0.2301	0.0995	-0.1570	0.1022	-0.0089	0.0422	-0.1009	-0.0179	-0.0129	0.0000
Daily_Humidity	0.0096	0.1922	-0.2338	0.0959	-0.1734	0.0985	0.0020	0.0400	-0.1057	-0.0166	-0.0115	0.0000

Correlations Between the WITH Variables and the Canonical Variables of the VAR Variables												
	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	V11	V12
Daily_Wind_Speed	0.0026	0.1533	-0.2301	0.0995	-0.1570	0.1022	-0.0089	0.0422	-0.1009	-0.0179	-0.0129	0.0000

The SAS System

The CANCORR Procedure

Canonical Correlation Analysis

Note: The correlation matrix for the VAR Variables is less than full rank. Therefore, some canonical correlations and coefficients will be zero.

Note: The correlation matrix for the WITH Variables is less than full rank. Therefore, some canonical coefficients will be zero.

	Canonical Correlation	Adjusted Canonical Correlation	Approximate Standard Error	Squared Canonical Correlation	Eigenvalues of Inv(E)*H = CanRsq/(1-CanRsq)				Test of H0: The canonical correlations in the current row and all that follow are zero				
					Eigenvalue	Difference	Proportion	Cumulative	Likelihood Ratio	Approximate F Value	Num DF	Den DF	Pr > F
1	0.639809	0.563286	0.053041	0.409356	0.6931	0.2800	0.4384	0.4384	0.27078107	2.05	77	648.63	<.0001
2	0.540646	0.453792	0.063553	0.292298	0.4130	0.1246	0.2613	0.6997	0.45845027	1.53	60	570.9	0.0085
3	0.473151	0.424312	0.069698	0.223872	0.2884	0.2031	0.1825	0.8822	0.64780170	1.11	45	490.69	0.2922
4	0.280356	0.098731	0.082744	0.078599	0.0853	0.0286	0.0540	0.9361	0.83465811	0.64	32	407.26	0.9383
5	0.231565	.	0.084987	0.053623	0.0567	0.0276	0.0358	0.9720	0.90585796	0.53	21	319.28	0.9562
6	0.168150	.	0.087264	0.028274	0.0291	0.0139	0.0184	0.9904	0.95718463	0.41	12	224	0.9577
7	0.122328	.	0.088459	0.014964	0.0152		0.0096	1.0000	0.98503590	0.34	5	113	0.8856

Multivariate Statistics and F Approximations					
S=7 M=1.5 N=52.5					
Statistic	Value	F Value	Num DF	Den DF	Pr > F
Wilks' Lambda	0.27078107	2.05	77	648.63	<.0001
Pillai's Trace	1.10098624	1.92	77	791	<.0001
Hotelling-Lawley Trace	1.58079168	2.17	77	419.87	<.0001
Roy's Greatest Root	0.69306620	7.12	11	113	<.0001
NOTE: F Statistic for Roy's Greatest Root is an upper bound.					

The SAS System

The CANCORR Procedure

Canonical Correlation Analysis

Raw Canonical Coefficients for the VAR Variables								
	V1	V2	V3	V4	V5	V6	V7	V8
Quarterly_GDP_of_NC	-0.000012859	-0.000014677	-3.185885E-6	0.0000904217	6.9945983E-6	0.0000170694	-0.00003711	0
Labor_Force	0.0000138349	5.0107009E-6	-0.000034169	-0.000018805	-0.000016778	0.0000633891	-6.165088E-6	0
Employment	-0.000012717	-0.000011569	0.000027257	2.8349875E-6	4.7228667E-6	-0.000067914	0.0000201475	0
Unemployment	0	0	0	0	0	0	0	0
UnemploymentRate	-11.68354853	-68.31367571	84.039214074	27.595259327	-23.7230199	-327.144685	66.944132893	0
CPI_U	0.353901092	-0.194730237	-0.870668964	-0.395195473	1.4476068231	-0.147547192	0.0481415637	0
Normalized_CPI_U	-71.06371112	50.293906841	190.62897085	14.784032255	-288.6662063	13.162050366	-34.40278655	0
Monthly_Retail_and_Food_Services	0.0001166265	0.0000128557	0.0000234241	0.0000619694	-0.000017952	0.0000189345	0.000047431	0

Raw Canonical Coefficients for the WITH Variables								
	W1	W2	W3	W4	W5	W6	W7	W8
Ave_Temperature_F	0.3053048624	-0.899027383	0.1860019496	0.6338643207	-0.678195705	0.108015672	-1.129066755	0.7062377262
Ave_Precipitation	-3.060531455	2.1295072034	9.3884530277	-0.750192017	0.9315310407	7.9563680735	5.6967712187	6.6786855835
Ave_Snowfall	1.9543435905	0.6582619299	-12.02907795	2.8990502785	12.790907532	0.0973734672	0.3390157964	-7.883457799
Ave_snow_depth	.	.	.	.	.	.	.	.
Ave_heating_degree_day	0.2302253118	-0.819719711	-0.01133439	0.8707918917	-0.806874668	-0.156766466	-1.017737685	0.9540184155
Ave_Cooling_Degree_Day	-0.202838686	0.8444243923	-0.016753171	-0.93068218	0.7810107423	0.2040902571	1.1551939522	-0.810795969
Hurrican_times_occurred	0.5168805873	-0.096248865	-0.789337827	-0.824263735	0.0720559902	0.301753549	-0.52115227	0.3456284064
Daily_Dew_Point	-0.030488762	0.1422964352	-0.192163369	0.2220037187	-0.07223215	-0.261459715	0.0754823977	0.1347943478
Sea_Level_Pressure	-0.029138601	0.2509571497	0.0119443841	-0.092291629	0.0921222581	0.2308954924	-0.298463923	0.0380593014
Daily_Visibility	0.0001175822	0.0004431482	-0.000376702	0.0010009321	-0.000946923	0.0012475268	0.0002485292	-0.001286547
Daily_Wind_Speed	-0.09802998	0.2255634744	-0.296468183	-0.329731942	-0.374093174	-0.248727123	0.0639912819	-0.020486548
Daily_Humidity	0.0030690496	-0.006751512	0.0101167215	0.0107227948	0.0120713306	0.006719375	-0.002543857	-0.000254906

The SAS System

The CANCORR Procedure

Canonical Correlation Analysis

Standardized Canonical Coefficients for the VAR Variables								
	V1	V2	V3	V4	V5	V6	V7	V8
Quarterly_GDP_of_NC	-0.8004	-0.9135	-0.1983	5.6278	0.4353	1.0624	-2.3097	0.0000
Labor_Force	2.2900	0.8294	-5.6557	-3.1126	-2.7771	10.4923	-1.0205	0.0000
Employment	-3.5294	-3.2106	7.5646	0.7868	1.3107	-18.8482	5.5915	0.0000
Unemployment	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
UnemploymentRate	-0.3167	-1.8516	2.2779	0.7480	-0.6430	-8.8672	1.8145	0.0000
CPI_U	4.1253	-2.2699	-10.1490	-4.6066	16.8741	-1.7199	0.5612	0.0000
Normalized_CPI_U	-3.9688	2.8088	10.6464	0.8257	-16.1216	0.7351	-1.9213	0.0000
Monthly_Retail_and_Food_Services	1.8895	0.2083	0.3795	1.0040	-0.2908	0.3068	0.7685	0.0000

Standardized Canonical Coefficients for the WITH Variables								
	W1	W2	W3	W4	W5	W6	W7	W8
Ave_Temperature_F	4.3799	-12.8975	2.6684	9.0934	-9.7294	1.5496	-16.1976	10.1317
Ave_Precipitation	-0.1964	0.1367	0.6025	-0.0481	0.0598	0.5106	0.3656	0.4286
Ave_Snowfall	0.0972	0.0328	-0.5985	0.1442	0.6364	0.0048	0.0169	-0.3923
Ave_snow_depth	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Ave_heating_degree_day	2.0818	-7.4122	-0.1025	7.8741	-7.2961	-1.4175	-9.2028	8.6266
Ave_Cooling_Degree_Day	-1.1463	4.7723	-0.0947	-5.2597	4.4139	1.1534	6.5286	-4.5822
Hurrican_times_occurred	0.2373	-0.0442	-0.3623	-0.3784	0.0331	0.1385	-0.2392	0.1587
Daily_Dew_Point	-0.4587	2.1408	-2.8910	3.3399	-1.0867	-3.9335	1.1356	2.0279
Sea_Level_Pressure	-0.0751	0.6468	0.0308	-0.2379	0.2374	0.5951	-0.7693	0.0981
Daily_Visibility	0.0495	0.1865	-0.1586	0.4213	-0.3986	0.5251	0.1046	-0.5415
Daily_Wind_Speed	-1.4063	3.2358	-4.2530	-4.7302	-5.3665	-3.5681	0.9180	-0.2939
Daily_Humidity	1.3793	-3.0342	4.5465	4.8189	5.4250	3.0197	-1.1432	-0.1146

The SAS System

The CANCORR Procedure

Canonical Structure

Correlations Between the VAR Variables and Their Canonical Variables

	V1	V2	V3	V4	V5	V6	V7	V8
Quarterly_GDP_of_NC	0.1013	-0.8812	0.3519	-0.0568	0.0814	0.2255	-0.1691	0.0000
Labor_Force	0.0839	-0.9119	0.2695	-0.1639	-0.0014	0.2476	0.0226	0.0000
Employment	0.0257	-0.8439	0.4110	-0.1454	0.1132	0.2777	0.0845	0.0000
Unemployment	0.0558	0.6875	-0.5734	0.1090	-0.2613	-0.2980	-0.1627	0.0000
UnemploymentRate	0.0480	0.6737	-0.5394	0.1321	-0.2449	-0.3939	-0.1422	0.0000
CPI_U	0.2238	-0.7702	0.4262	-0.2331	0.1208	0.1780	-0.2729	0.0000
Normalized_CPI_U	0.2139	-0.7568	0.4546	-0.2334	0.0837	0.1837	-0.2822	0.0000
Monthly_Retail_and_Food_Services	0.4872	-0.6396	0.5242	-0.0560	0.1186	0.2452	0.0379	0.0000

Correlations Between the WITH Variables and Their Canonical Variables

	W1	W2	W3	W4	W5	W6	W7	W8
Ave_Temperature_F	0.9131	0.2566	0.1785	-0.0225	-0.0842	-0.1049	0.1065	0.0388
Ave_Precipitation	0.0129	0.4446	0.3680	-0.0033	0.0291	0.1287	0.4293	0.3405
Ave_Snowfall	-0.3131	-0.1710	-0.5227	0.0990	0.5342	0.0704	0.1282	-0.0953
Ave_snow_depth	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Ave_heating_degree_day	-0.8330	-0.2955	-0.2128	0.0335	0.0989	0.1688	-0.0373	0.0284
Ave_Cooling_Degree_Day	0.8888	0.1914	0.1006	-0.0254	-0.0174	0.0130	0.2363	0.1159
Hurrican_times_occurred	0.4666	0.1270	-0.2645	-0.3309	0.0829	0.1275	-0.1244	0.1636
Daily_Dew_Point	0.8776	0.3527	0.1351	0.0667	-0.0645	-0.1440	0.1221	0.1014
Sea_Level_Pressure	-0.5802	0.4024	-0.1058	0.0338	0.1720	0.2761	-0.5780	0.1180
Daily_Visibility	-0.0671	0.1583	-0.1611	0.4124	-0.4651	0.5302	0.1093	-0.4404
Daily_Wind_Speed	-0.1192	0.3010	0.4434	-0.0162	0.0661	-0.4235	-0.1926	-0.3480
Daily_Humidity	-0.0937	0.2840	0.4696	0.0420	0.1278	-0.4031	-0.2032	-0.3416

Correlations Between the VAR Variables and the Canonical Variables of the WITH Variables

	W1	W2	W3	W4	W5	W6	W7	W8
Quarterly_GDP_of_NC	0.0648	-0.4764	0.1665	-0.0159	0.0189	0.0379	-0.0207	-0.0000
Labor_Force	0.0537	-0.4930	0.1275	-0.0460	-0.0003	0.0416	0.0028	-0.0000
Employment	0.0164	-0.4563	0.1945	-0.0408	0.0262	0.0467	0.0103	0.0000
Unemployment	0.0357	0.3717	-0.2713	0.0306	-0.0605	-0.0501	-0.0199	-0.0000
UnemploymentRate	0.0307	0.3642	-0.2552	0.0370	-0.0567	-0.0662	-0.0174	0.0000
CPI_U	0.1432	-0.4164	0.2016	-0.0654	0.0280	0.0299	-0.0334	-0.0000
Normalized_CPI_U	0.1369	-0.4091	0.2151	-0.0654	0.0194	0.0309	-0.0345	0.0000
Monthly_Retail_and_Food_Services	0.3117	-0.3458	0.2480	-0.0157	0.0275	0.0412	0.0046	0.0000

Correlations Between the WITH Variables and the Canonical Variables of the VAR Variables

	V1	V2	V3	V4	V5	V6	V7	V8
Ave_Temperature_F	0.5842	0.1388	0.0845	-0.0063	-0.0195	-0.0176	0.0130	0.0000
Ave_Precipitation	0.0083	0.2404	0.1741	-0.0009	0.0067	0.0216	0.0525	0.0000
Ave_Snowfall	-0.2003	-0.0925	-0.2473	0.0277	0.1237	0.0118	0.0157	0.0000
Ave_snow_depth	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Ave_heating_degree_day	-0.5329	-0.1598	-0.1007	0.0094	0.0229	0.0284	-0.0046	0.0000
Ave_Cooling_Degree_Day	0.5686	0.1035	0.0476	-0.0071	-0.0040	0.0022	0.0289	0.0000
Hurrican_times_occurred	0.2986	0.0686	-0.1252	-0.0928	0.0192	0.0214	-0.0152	0.0000
Daily_Dew_Point	0.5615	0.1907	0.0639	0.0187	-0.0149	-0.0242	0.0149	0.0000
Sea_Level_Pressure	-0.3712	0.2175	-0.0501	0.0095	0.0398	0.0464	-0.0707	0.0000
Daily_Visibility	-0.0429	0.0856	-0.0762	0.1156	-0.1077	0.0892	0.0134	0.0000
Daily_Wind_Speed	-0.0762	0.1628	0.2098	-0.0045	0.0153	-0.0712	-0.0236	0.0000
Daily_Humidity	-0.0600	0.1536	0.2222	0.0118	0.0296	-0.0678	-0.0249	0.0000