

The SAS System

The PRINCOMP Procedure

Observations	75
Variables	12

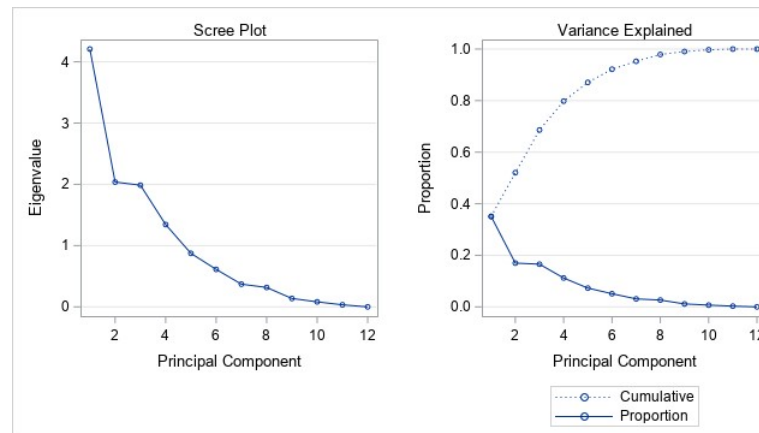
Simple Statistics												
	Gasoline_Gallons	Diesel_Gallons	Kerosene_Gallons	Alternative_Fuels_Gallons	Highway_Fuel_Use	Total_Gallons_ST_Road_Tax	Registration_Fee	Driver_license_Fee	Emission_inspection	Overweight	Title_fee	Trust_Fund_Title_fee
Mean	385445630.7	84100795.91	272098.7867	705526.1333	7078992.960	477603044.5	437083.5339	9932972.281	2228357.177	562486.3956	124498.5395	9138675.503
StD	40255686.7	9475775.68	307162.6503	545363.9861	4705293.264	48321611.4	104557.3189	1812550.508	1335299.524	85387.4169	525401.0027	1828430.331

Correlation Matrix												
	Gasoline_Gallons	Diesel_Gallons	Kerosene_Gallons	Alternative_Fuels_Gallons	Highway_Fuel_Use	Total_Gallons_ST_Road_Tax	Registration_Fee	Driver_license_Fee	Emission_inspection	Overweight	Title_fee	Tr
Gasoline_Gallons	1.0000	0.8306	-.3653	0.1967	-.0491	0.9911	0.2612	0.3136	-.1149	0.3066	-.0733	
Diesel_Gallons	0.8306	1.0000	-.3386	0.3905	-.1391	0.8767	0.3702	0.1760	-.2050	0.3532	-.1354	
Kerosene_Gallons	-.3653	-.3386	1.0000	0.0079	-.0428	-.3684	0.0825	0.0158	-.0838	-.1993	-.0991	
Alternative_Fuels_Gallons	0.1967	0.3905	0.0079	1.0000	-.4041	0.2124	0.4597	0.0610	-.1753	0.4004	-.1115	
Highway_Fuel_Use	-.0491	-.1391	-.0428	-.4041	1.0000	0.0244	0.0114	0.0451	-.0349	-.0075	0.0068	
Total_Gallons_ST_Road_Tax	0.9911	0.8767	-.3684	0.2124	0.0244	1.0000	0.2970	0.3010	-.1419	0.3272	-.0888	
Registration_Fee	0.2612	0.3702	0.0825	0.4597	0.0114	0.2970	1.0000	0.4363	-.1510	0.6865	-.1529	
Driver_license_Fee	0.3136	0.1760	0.0158	0.0610	0.0451	0.3010	0.4363	1.0000	0.2020	0.3636	0.1089	
Emission_inspection	-.1149	-.2050	-.0838	-.1753	-.0349	-.1419	-.1510	0.2020	1.0000	-.0860	0.9495	
Overweight	0.3066	0.3532	-.1993	0.4004	-.0075	0.3272	0.6865	0.3636	-.0860	1.0000	-.1005	
Title_fee	-.0733	-.1354	-.0991	-.1115	0.0068	-.0888	-.1529	0.1089	0.9495	-.1005	1.0000	
Trust_Fund_Title_fee	0.2443	0.3508	-.0496	0.3964	0.0746	0.2837	0.8869	0.5531	-.0758	0.6882	-.1147	

Eigenvalues of the Correlation Matrix				
	Eigenvalue	Difference	Proportion	Cumulative
1	4.20800979	2.17109470	0.3507	0.3507
2	2.03691508	0.05033873	0.1697	0.5204
3	1.98657635	0.64288220	0.1655	0.6860
4	1.34369415	0.46982979	0.1120	0.7979
5	0.87386436	0.26220226	0.0728	0.8708
6	0.61166210	0.24100960	0.0510	0.9217
7	0.37065250	0.05416242	0.0309	0.9526
8	0.31649008	0.17955751	0.0264	0.9790
9	0.13693257	0.05519516	0.0114	0.9904
10	0.08173741	0.04827179	0.0068	0.9972
11	0.03346562	0.03346562	0.0028	1.0000
12	0.00000000		0.0000	1.0000

Eigenvectors												
	Prin1	Prin2	Prin3	Prin4	Prin5	Prin6	Prin7	Prin8	Prin9	Prin10	Prin11	Prin12

Gasoline_Gallons	0.374699	0.202993	-.348558	0.039395	0.227558	0.028594	-.100843	0.103424	-.439834	0.171793	-.023285	0.631170
Diesel_Gallons	0.395431	0.091179	-.302233	-.106648	0.081032	0.207097	-.034864	-.214028	0.755453	-.193781	0.076087	0.148571
Kerosene_Gallons	-.138151	-.276314	0.279994	-.064288	0.729277	0.404428	-.261332	0.179051	0.092026	0.133211	-.006206	0.004816
Alternative_Fuels_Gallons	0.256062	-.166541	0.119244	-.544400	-.130549	0.299110	0.606612	0.326211	-.091841	0.031585	0.075489	0.008551
Highway_Fuel_Use	-.037037	0.044873	0.029008	0.757514	-.145811	0.491048	0.314867	0.209103	0.055685	-.033883	0.083667	0.073774
Total_Gallons_ST_Road_Tax	0.388102	0.187723	-.343693	0.079115	0.194428	0.118195	-.055002	0.069371	-.213302	0.103021	0.004482	-.757636
Registration_Fee	0.362847	-.136934	0.375861	0.044618	-.021066	0.180235	-.139721	-.399647	-.349091	-.598254	0.119949	0.000000
Driver_license_Fee	0.238503	0.195701	0.306912	0.209357	0.434416	-.568869	0.374153	0.220818	0.144595	-.206748	-.045372	0.000000
Emission_inspection	-.117948	0.609437	0.260118	-.136967	0.009513	0.086495	-.073599	-.034624	0.002176	0.147624	0.701618	0.000000
Overweight	0.348417	-.037677	0.267932	0.029772	-.367101	-.071814	-.528169	0.603501	0.144610	0.014109	-.017431	0.000000
Title_fee	-.108663	0.612168	0.209605	-.159103	-.028781	0.281507	-.022264	-.004698	0.002566	-.127635	-.668809	0.000000
Trust_Fund_Title_fee	0.361845	-.067151	0.395891	0.125308	-.094112	-.013591	0.076083	-.427286	0.081479	0.680806	-.156805	0.000000



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Observations	125
Variables	8

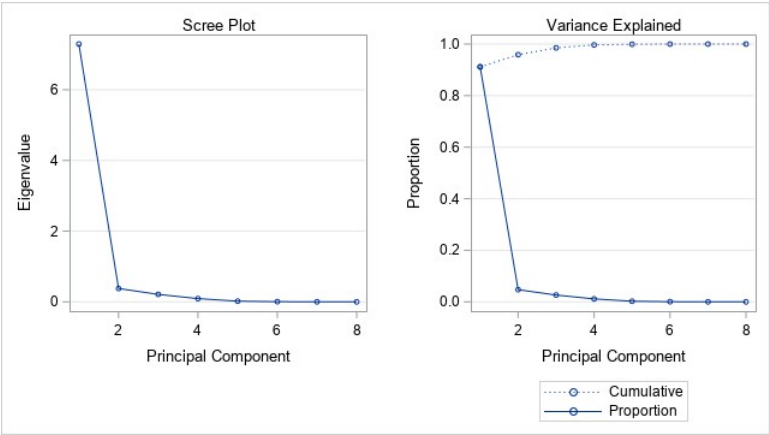
Simple Statistics								
	Quarterly_GDP_of_NC	Labor_Force	Employment	Unemployment	UnemploymentRate	CPI_U	Normalized_CPI_U	Monthly_Retail_and_Food_Services
Mean	493296.6616	4790456.584	4455883.616	334572.9680	0.0701600000	229.6936800	1.100080000	84268.92800
Std	62332.5646	164957.001	277036.733	121071.4880	0.0268203101	11.6534880	0.055872782	16187.50869

Correlation Matrix								
	Quarterly_GDP_of_NC	Labor_Force	Employment	Unemployment	UnemploymentRate	CPI_U	Normalized_CPI_U	Monthly_Retail_and_Food_Services
Quarterly_GDP_of_NC	1.0000	0.9680	0.9569	-.8707	-.8740	0.9621	0.9598	0.8560
Labor_Force	0.9680	1.0000	0.9771	-.8732	-.8790	0.9155	0.9120	0.8291
Employment	0.9569	0.9771	1.0000	-.9570	-.9582	0.9066	0.9040	0.8555
Unemployment	-.8707	-.8732	-.9570	1.0000	0.9948	-.8272	-.8259	-.8281
UnemploymentRate	-.8740	-.8790	-.9582	0.9948	1.0000	-.8344	-.8331	-.8347
CPI_U	0.9621	0.9155	0.9066	-.8272	-.8344	1.0000	0.9987	0.8826
Normalized_CPI_U	0.9598	0.9120	0.9040	-.8259	-.8331	0.9987	1.0000	0.8815
Monthly_Retail_and_Food_Services	0.8560	0.8291	0.8555	-.8281	-.8347	0.8826	0.8815	1.0000

Eigenvalues of the Correlation Matrix				
	Eigenvalue	Difference	Proportion	Cumulative
1	7.29256788	6.91503061	0.9116	0.9116
2	0.37753727	0.16585956	0.0472	0.9588
3	0.21167771	0.11988112	0.0265	0.9852
4	0.09179658	0.07181835	0.0115	0.9967
5	0.01997824	0.01474715	0.0025	0.9992
6	0.00523109	0.00401985	0.0007	0.9998
7	0.00121123	0.00121123	0.0002	1.0000
8	0.00000000		0.0000	1.0000

Eigenvectors								
	Prin1	Prin2	Prin3	Prin4	Prin5	Prin6	Prin7	Prin8
Quarterly_GDP_of_NC	0.361362	0.200844	0.285032	0.081149	-.856279	-.087971	0.017274	0.000000
Labor_Force	0.356869	0.052078	0.425003	0.564710	0.366392	-.081743	0.009208	-.478955
Employment	0.364532	-.202454	0.216348	0.225488	0.176717	0.224101	0.000193	0.804380
Unemployment	-.347900	0.534213	0.084008	0.253440	0.094834	-.624162	0.012103	0.351533
UnemploymentRate	-.349412	0.513500	0.092049	0.243021	-.049254	0.737723	-.005993	0.000000
CPI_U	0.355399	0.411175	0.011169	-.385230	0.197594	0.014988	-.718910	0.000000
Normalized_CPI_U	0.354812	0.413943	0.003498	-.413341	0.219143	0.035923	0.694682	0.000000

Monthly_Retail_and_Food_Services	0.337424	0.162735	-0.821983	0.425593	-0.053177	0.005393	0.004555	0.000000
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The PRINCOMP Procedure

Observations	125
Variables	12

Simple Statistics

	Ave_Temperature_F	Ave_Precipitation	Ave_Snowfall	Ave_snow_depth	Ave_heating_degree_day	Ave_Cooling_Degree_Day	Hurrican_times_occurred	Daily_Dew_Point	Sea_Level_Pressure	Daily_Visibility	Daily_Wind_Speed	Daily_Humi
Mean	61.76640000	0.1327200000	0.0180000000	0	8.417600000	4.796800000	0.1760000000	49.51440000	1017.830400	46.8491200	9.21760000	177.4400
StD	14.34600621	0.0641743593	0.0497574763	0	9.042409613	5.651490469	0.4590312380	15.04435755	2.577515	420.9157135	14.34547284	449.4085

Correlation Matrix

	Ave_Temperature_F	Ave_Precipitation	Ave_Snowfall	Ave_snow_depth	Ave_heating_degree_day	Ave_Cooling_Degree_Day	Hurrican_times_occurred	Daily_Dew_Point	Sea_Level_Pressure	Daily_Visibility	Daily_Wind
Ave_Temperature_F	1.0000	0.2599	-.4433	0.0000	-.9617	0.9052	0.3017	0.9853	-.5551	-.1232	
Ave_Precipitation	0.2599	1.0000	-.0117	0.0000	-.2628	0.2254	0.1397	0.3058	-.1284	-.0319	
Ave_Snowfall	-.4433	-.0117	1.0000	0.0000	0.5013	-.2867	-.1222	-.4352	0.1614	-.0324	
Ave_snow_depth	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Ave_heating_degree_day	-.9617	-.2628	0.5013	0.0000	1.0000	-.7561	-.2965	-.9545	0.5131	0.1419	
Ave_Cooling_Degree_Day	0.9052	0.2254	-.2867	0.0000	-.7561	1.0000	0.2725	0.8837	-.5334	-.0764	
Hurrican_times_occurred	0.3017	0.1397	-.1222	0.0000	-.2965	0.2725	1.0000	0.3120	-.1279	-.0343	
Daily_Dew_Point	0.9853	0.3058	-.4352	0.0000	-.9545	0.8837	0.3120	1.0000	-.4984	-.1159	
Sea_Level_Pressure	-.5551	-.1284	0.1614	0.0000	0.5131	-.5334	-.1279	-.4984	1.0000	0.0756	
Daily_Visibility	-.1232	-.0319	-.0324	0.0000	0.1419	-.0764	-.0343	-.1159	0.0756	1.0000	
Daily_Wind_Speed	-.0217	0.1824	-.0551	0.0000	0.0017	-.0433	-.0225	-.0251	0.0864	-.0222	
Daily_Humidity	-.0135	0.1691	-.0565	0.0000	-.0022	-.0289	-.0141	-.0129	0.0908	-.0244	

Eigenvalues of the Correlation Matrix

	Eigenvalue	Difference	Proportion	Cumulative
1	4.51147406	2.44423193	0.4101	0.4101
2	2.06724213	1.02400126	0.1879	0.5981
3	1.04324087	0.07389798	0.0948	0.6929
4	0.96934289	0.08321404	0.0881	0.7810
5	0.88612885	0.14269305	0.0806	0.8616
6	0.74343581	0.19402569	0.0676	0.9292
7	0.54941011	0.34124169	0.0499	0.9791
8	0.20816842	0.19196985	0.0189	0.9980
9	0.01619857	0.01147446	0.0015	0.9995
10	0.00472411	0.00408991	0.0004	0.9999
11	0.00063420	0.00063420	0.0001	1.0000
12	0.00000000		0.0000	1.0000

Eigenvectors

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	Prin1	Prin2	Prin3	Prin4	Prin5	Prin6	Prin7	Prin8	Prin9	Prin10	Prin11	Prin12
Ave_Temperature_F	0.463772	-0.06049	-0.022943	-0.047576	-0.041126	0.012415	0.196911	-0.092820	-0.326097	-0.035749	0.790720	0.00000
Ave_Precipitation	0.152958	0.211697	0.371878	0.566009	-0.274378	-0.576963	-0.239888	0.074489	-0.037169	-0.021666	0.003715	0.00000
Ave_Snowfall	-0.232709	-0.054782	0.559824	0.260027	-0.296978	0.457813	0.446686	-0.253624	-0.013508	-0.001608	-0.001329	0.00000
Ave_snow_depth	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	1.00000
Ave_heating_degree_day	-0.447001	-0.012050	0.051282	0.077593	-0.021800	0.089158	-0.093192	0.605177	0.360628	0.117505	0.513990	0.00000
Ave_Cooling_Degree_Day	0.419727	-0.027843	0.028341	0.014850	-0.126341	0.164596	0.324091	0.726604	-0.189895	-0.038583	-0.329302	0.00000
Hurrican_times_occurred	0.176474	-0.004961	0.121484	0.496741	0.765804	0.311893	-0.152813	0.013934	-0.004539	0.003932	0.002800	0.00000
Daily_Dew_Point	0.458813	0.000159	-0.011815	-0.002805	-0.024665	-0.055658	0.242013	-0.140136	0.818547	0.193416	-0.000423	0.00000
Sea_Level_Pressure	-0.292029	0.090071	-0.106977	0.084311	0.372106	-0.494845	0.707192	0.018853	-0.065040	-0.003560	0.000180	0.00000
Daily_Visibility	-0.065758	-0.027046	-0.717408	0.583337	-0.304624	0.181261	0.086844	-0.082041	-0.007283	-0.003324	-0.000457	0.00000
Daily_Wind_Speed	-0.009543	0.687084	-0.038954	-0.065720	-0.006029	0.142831	0.003472	-0.018062	-0.153320	0.690431	-0.031787	0.00000
Daily_Humidity	-0.006036	0.685764	-0.042561	-0.071037	0.005800	0.154349	0.028894	0.008579	0.167794	-0.684697	0.033211	0.00000

