The SAS System

The PRINCOMP Procedure

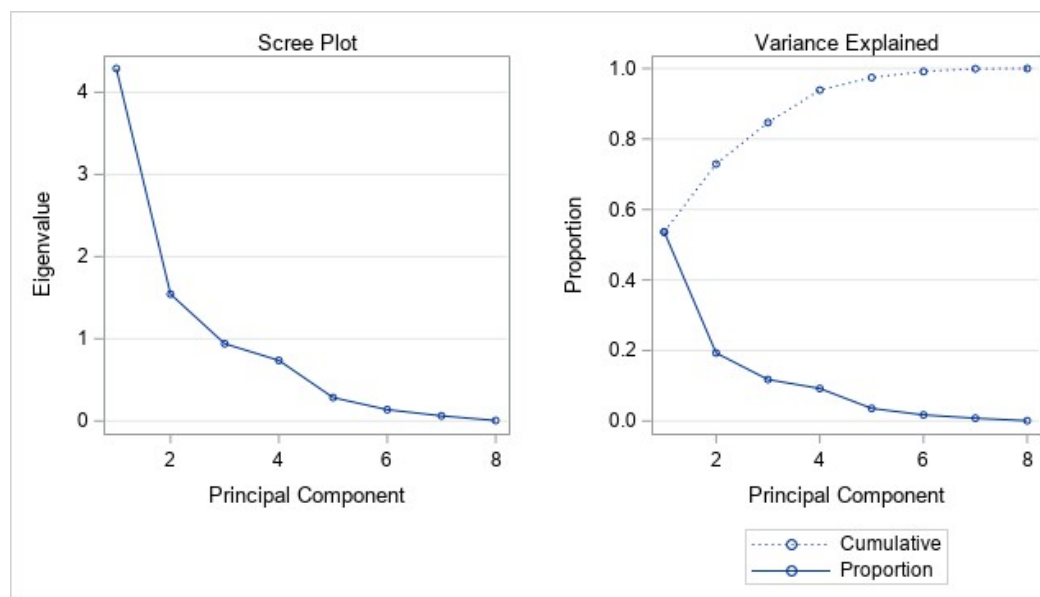| Observations	131
Variables	8

Simple Statistics

	Gasoline_Gallons	Diesel_Gallons	Total_Gallons_ST_Road_Tax	Registration_Fee	Driver_license_Fee	Emission_inspection	Overweight	Title_fee
Mean	376339304.3	79924269.50	463911608.9	378173.6309	10041394.29	1517272.693	521834.3536	8146858.034
StD	34531153.4	9355850.51	42545265.6	109171.3017	1518699.13	1432533.804	89006.8932	2048189.077

Correlation Matrix

	Gasoline_Gallons	Diesel_Gallons	Total_Gallons_ST_Road_Tax	Registration_Fee	Driver_license_Fee	Emission_inspection	Overweight	Title_fee
Gasoline_Gallons	1.0000	0.8063	0.9871	0.3731	0.2499	0.1346	0.3835	0.3326
Diesel_Gallons	0.8063	1.0000	0.8697	0.5728	0.0793	0.2425	0.5294	0.5372
Total_Gallons_ST_Road_Tax	0.9871	0.8697	1.0000	0.4365	0.2220	0.1605	0.4304	0.3952
Registration_Fee	0.3731	0.5728	0.4365	1.0000	0.2658	0.3412	0.7592	0.9059
Driver_license_Fee	0.2499	0.0793	0.2220	0.2658	1.0000	0.1046	0.2371	0.3384
Emission_inspection	0.1346	0.2425	0.1605	0.3412	0.1046	1.0000	0.3258	0.5344
Overweight	0.3835	0.5294	0.4304	0.7592	0.2371	0.3258	1.0000	0.7556
Title_fee	0.3326	0.5372	0.3952	0.9059	0.3384	0.5344	0.7556	1.0000

Eigenvalues of the Correlation Matrix

	Eigenvalue	Difference	Proportion	Cumulative
1	4.28923532	2.74564015	0.5362	0.5362
2	1.54359517	0.60325246	0.1929	0.7291
3	0.94034271	0.20351889	0.1175	0.8466
4	0.73682382	0.45219504	0.0921	0.9387
5	0.28462878	0.14713170	0.0356	0.9743
6	0.13749708	0.07531461	0.0172	0.9915
7	0.06218247	0.05648781	0.0078	0.9993

8	0.00569466		0.0007	1.0000

Eigenvectors								
	Prin1	**Prin2**	**Prin3**	**Prin4**	**Prin5**	**Prin6**	**Prin7**	**Prin8**
Gasoline_Gallons	0.370447	-.483615	0.070858	0.144548	0.086031	-.431672	-.057603	0.637111
Diesel_Gallons	0.410695	-.297526	-.211062	-.024863	-.179330	0.799069	0.088846	0.138126
Total_Gallons_ST_Road_Tax	0.392655	-.455263	0.013839	0.105405	0.020693	-.222945	-.052080	-.757899
Registration_Fee	0.399743	0.304658	-.038227	-.337120	-.429854	-.277542	0.608648	0.004593
Driver_license_Fee	0.172254	0.127679	0.928233	0.205476	0.007849	0.203330	0.093389	-.007943
Emission_inspection	0.214263	0.372033	-.290014	0.827611	0.111198	-.016705	0.184215	-.007374
Overweight	0.378778	0.260200	-.051619	-.347175	0.813313	0.058395	0.026522	-.006080
Title_fee	0.401339	0.393827	-.019734	-.077693	-.318327	-.058156	-.756481	0.020593

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Simple Statistics

	Quarterly_GDP_of_NC	Labor_Force	Employment	Unemployment	CPI_U	Monthly_Retail_and_Food_Services
Mean	493634.8659	4789807.303	4458658.803	331148.5000	229.8194167	84598.64394
StD	60920.6385	161914.831	271197.361	118862.9613	11.3662603	15923.19124

Correlation Matrix

	Quarterly_GDP_of_NC	Labor_Force	Employment	Unemployment	CPI_U	Monthly_Retail_and_Food_Services
Quarterly_GDP_of_NC	1.0000	0.9667	0.9570	-.8667	0.9595	0.8537
Labor_Force	0.9667	1.0000	0.9751	-.8626	0.9094	0.8250
Employment	0.9570	0.9751	1.0000	-.9533	0.9047	0.8552
Unemployment	-.8667	-.8626	-.9533	1.0000	-.8253	-.8275
CPI_U	0.9595	0.9094	0.9047	-.8253	1.0000	0.8807
Monthly_Retail_and_Food_Services	0.8537	0.8250	0.8552	-.8275	0.8807	1.0000

Eigenvalues of the Correlation Matrix

	Eigenvalue	Difference	Proportion	Cumulative
1	5.47806266	5.25219309	0.9130	0.9130
2	0.22586957	0.02071085	0.0376	0.9507
3	0.20515872	0.13275099	0.0342	0.9848
4	0.07240773	0.05390640	0.0121	0.9969
5	0.01850133	0.01850133	0.0031	1.0000
6	0.00000000		0.0000	1.0000

Eigenvectors

	Prin1	Prin2	Prin3	Prin4	Prin5	Prin6

Quarterly_GDP_of_NC	0.418062	-.000943	0.378414	-.102782	-.819428	0.000000
Labor_Force	0.413338	-.222127	0.372511	0.559368	0.313000	-.479776
Employment	0.421017	-.338179	-.042670	0.175182	0.173509	0.803595
Unemployment	-.397543	0.469006	0.604789	0.362275	0.030491	0.352207
CPI_U	0.408561	0.368902	0.334616	-.624977	0.440937	0.000000
Monthly_Retail_and_Food_Services	0.390074	0.692993	-.488344	0.352158	-.071477	0.000000
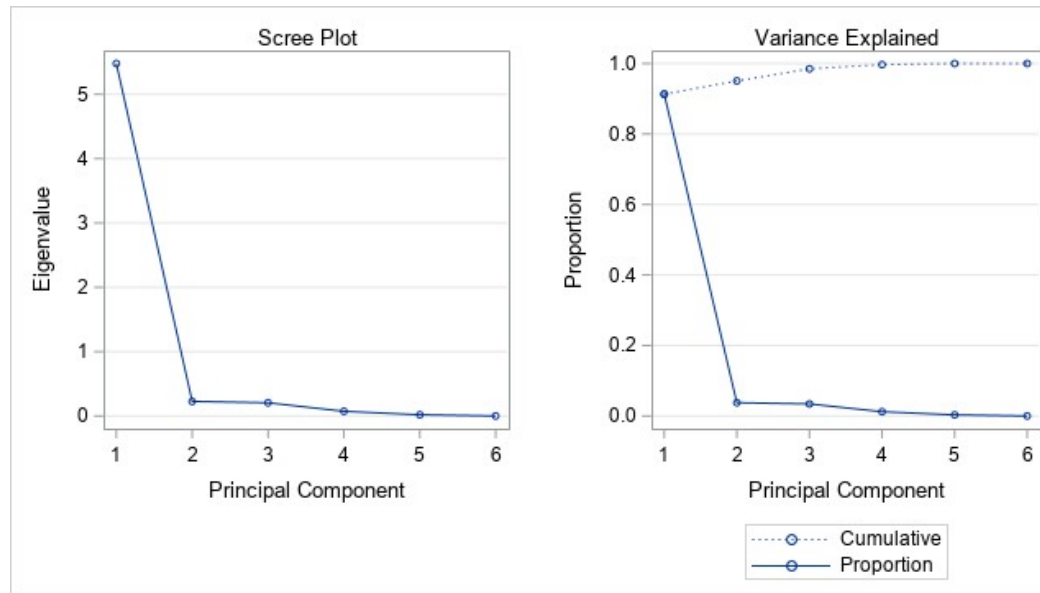
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Observations	132
Variables	6

Simple Statistics						
	Ave_Temperature_F	Ave_Snowfall	Ave_heating_degree_day	Ave_Cooling_Degree_Day	Hurrican_times_occurred	Daily_Wind_Speed
Mean	61.59393939	0.0193181818	8.471969697	4.685606061	0.1666666667	5.765909091
StD	14.31568167	0.0544394500	9.120811823	5.595583490	0.4483500995	0.979470923

Correlation Matrix						
	Ave_Temperature_F	Ave_Snowfall	Ave_heating_degree_day	Ave_Cooling_Degree_Day	Hurrican_times_occurred	Daily_Wind_Speed
Ave_Temperature_F	1.0000	-.4592	-.9607	0.8981	0.2975	-.0935
Ave_Snowfall	-.4592	1.0000	0.5270	-.2795	-.1173	0.0296
Ave_heating_degree_day	-.9607	0.5270	1.0000	-.7426	-.2871	0.0283
Ave_Cooling_Degree_Day	0.8981	-.2795	-.7426	1.0000	0.2742	-.1897
Hurrican_times_occurred	0.2975	-.1173	-.2871	0.2742	1.0000	-.0826
Daily_Wind_Speed	-.0935	0.0296	0.0283	-.1897	-.0826	1.0000

Eigenvalues of the Correlation Matrix				
	Eigenvalue	Difference	Proportion	Cumulative
1	3.14425745	2.10985262	0.5240	0.5240
2	1.03440482	0.15572450	0.1724	0.6964
3	0.87868032	0.13438391	0.1464	0.8429
4	0.74429641	0.54658923	0.1240	0.9669
5	0.19770719	0.19705338	0.0330	0.9999
6	0.00065381		0.0001	1.0000

Eigenvectors						
	Prin1	Prin2	Prin3	Prin4	Prin5	Prin6

Ave_Temperature_F	0.551439	0.054490	-.043701	0.216229	-.140844	0.790218
Ave_Snowfall	-.327084	-.297944	0.302715	0.800648	-.267526	-.001230
Ave_heating_degree_day	-.531150	-.154752	0.040008	-.072885	0.646499	0.518708
Ave_Cooling_Degree_Day	0.495063	-.122166	-.038569	0.400359	0.686827	-.326315
Hurrican_times_occurred	0.232213	-.307832	0.858794	-.336485	0.023641	0.002960
Daily_Wind_Speed	-.088322	0.880129	0.407232	0.182720	0.135432	-.002394