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Data Set Name	WORK.IMPORT	**Observations**	6435
Member Type	DATA	**Variables**	8
Engine	V9	**Indexes**	0
Created	07/16/2020 04:59:41	**Observation Length**	64
Last Modified	07/16/2020 04:59:41	**Deleted Observations**	0
Protection		**Compressed**	NO
Data Set Type		**Sorted**	NO
Label			
Data Representation	SOLARIS_X86_64, LINUX_X86_64, ALPHA_TRU64, LINUX_IA64		
Encoding	utf-8 Unicode (UTF-8)		

Engine/Host Dependent Information	
Data Set Page Size	65536
Number of Data Set Pages	7
First Data Page	1
Max Obs per Page	1021
Obs in First Data Page	976
Number of Data Set Repairs	0
Filename	/tmp/SAS_work8A9400000939_localhost.localdomain/SAS_work31F600000939_localhost.localdomain/import.sas7bdat
Release Created	9.0401M6
Host Created	Linux
Inode Number	141631
Access Permission	rw-rw-r--
Owner Name	sasdemo
File Size	512KB
File Size (bytes)	524288

Alphabetic List of Variables and Attributes					
#	**Variable**	**Type**	**Len**	**Format**	**Informat**
7	CPI	Num	8	BEST12.	BEST32.
2	Date	Num	8	DDMMYY10.	DDMMYY10.
6	Fuel_Price	Num	8	BEST12.	BEST32.
4	Holiday_Flag	Num	8	BEST12.	BEST32.
1	Store	Num	8	BEST12.	BEST32.
5	Temperature	Num	8	BEST12.	BEST32.
8	Unemployment	Num	8	BEST12.	BEST32.
3	Weekly_Sales	Num	8	BEST12.	BEST32.

Store	Max_Weekly_Sales	Date
14	3818686.45	24/12/2010
20	3766687.43	24/12/2010
10	3749057.69	24/12/2010
4	3676388.98	23/12/2011
13	3595903.2	24/12/2010
2	3436007.68	24/12/2010
27	3078162.08	24/12/2010
23	2734277.1	24/12/2010
6	2727575.18	24/12/2010
19	2678206.42	24/12/2010
39	2554482.84	23/12/2011
1	2387950.2	24/12/2010
24	2386015.75	24/12/2010
11	2306265.36	24/12/2010
41	2263722.68	23/12/2011
31	2068942.97	24/12/2010
18	2027507.15	24/12/2010
28	2026026.39	24/12/2010
22	1962445.04	24/12/2010
32	1959526.96	23/12/2011
35	1781866.98	26/11/2010
12	1768249.89	24/12/2010
45	1682862.03	24/12/2010
40	1648829.18	24/12/2010
34	1620748.25	24/12/2010
21	1587257.78	24/12/2010
26	1573982.47	24/12/2010
8	1511641.09	24/12/2010
15	1368318.17	24/12/2010
17	1309226.79	24/12/2010
25	1295391.19	24/12/2010
29	1130926.79	24/12/2010
7	1059715.27	23/12/2011
16	1004730.69	24/12/2010
9	905324.68	23/12/2011
43	725043.04	17/09/2010
42	674919.45	10/02/2012
3	605990.41	24/12/2010

Store	Max_Weekly_Sales	Date
37	605791.46	23/12/2011
30	519354.88	24/12/2010
5	507900.07	25/11/2011
38	499267.66	06/04/2012
36	489372.02	07/05/2010
44	376233.89	23/12/2011
33	331173.51	14/05/2010

The MEANS Procedure

Analysis Variable : Weekly_Sales				
Store	N Obs	Std Dev	Maximum	Coeff of Variation
1	143	155980.77	2387950.20	10.03
2	143	237683.69	3436007.68	12.34
3	143	46319.63	605990.41	11.50
4	143	266201.44	3676388.98	12.71
5	143	37737.97	507900.07	11.87
6	143	212525.86	2727575.18	13.58
7	143	112585.47	1059715.27	19.73
8	143	106280.83	1511641.09	11.70
9	143	69028.67	905324.68	12.69
10	143	302262.06	3749057.69	15.91
11	143	165833.89	2306265.36	12.23
12	143	139166.87	1768249.89	13.79
13	143	265507.00	3595903.20	13.25
14	143	317569.95	3818686.45	15.71
15	143	120538.65	1368318.17	19.34
16	143	85769.68	1004730.69	16.52
17	143	112162.94	1309226.79	12.55
18	143	176641.51	2027507.15	16.28
19	143	191722.64	2678206.42	13.27
20	143	275900.56	3766687.43	13.09
21	143	128752.81	1587257.78	17.03
22	143	161251.35	1962445.04	15.68
23	143	249788.04	2734277.10	17.97
24	143	167745.68	2386015.75	12.36
25	143	112976.79	1295391.19	15.99
26	143	110431.29	1573982.47	11.01
27	143	239930.14	3078162.08	13.52
28	143	181758.97	2026026.39	13.73
29	143	99120.14	1130926.79	18.37
30	143	22809.67	519354.88	5.20
31	143	125855.94	2068942.97	9.02
32	143	138017.25	1959526.96	11.83
33	143	24132.93	331173.51	9.29
34	143	104630.16	1620748.25	10.82
35	143	211243.46	1781866.98	22.97

The MEANS Procedure

Analysis Variable : Weekly_Sales				
Store	N Obs	Std Dev	Maximum	Coeff of Variation
36	143	60725.17	489372.02	16.26
37	143	21837.46	605791.46	4.21
38	143	42768.17	499267.66	11.09
39	143	217466.45	2554482.84	14.99
40	143	119002.11	1648829.18	12.34
41	143	187907.16	2263722.68	14.82
42	143	50262.93	674919.45	9.03
43	143	40598.41	725043.04	6.41
44	143	24762.83	376233.89	8.18
45	143	130168.53	1682862.03	16.56

Store	Quarter	Max_GrowthRate
7	2012Q3	13.33078

Mean across sales during Holiday/Non Holidays.

The MEANS Procedure

Analysis Variable : Weekly_Sales		
Holiday_Flag	N Obs	Mean
0	5985	1041256.38
1	450	1122887.89

Mean across sales during Holiday/Non Holidays.

Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI	Unemployment	count
1	12/02/2010	1641957.44	1	38.51	2.548	211.2421698	8.106	220
1	10/09/2010	1507460.69	1	78.69	2.565	211.4951902	7.787	220
1	26/11/2010	1955624.11	1	64.52	2.735	211.7484333	7.838	220
1	31/12/2010	1367320.01	1	48.43	2.943	211.4049321	7.838	220
1	11/02/2011	1649614.93	1	36.39	3.022	212.9367046	7.742	220
1	09/09/2011	1540471.24	1	76	3.546	215.861056	7.962	220
1	25/11/2011	2033320.66	1	60.14	3.236	218.4676211	7.866	220
1	30/12/2011	1497462.72	1	44.55	3.129	219.5359898	7.866	220
1	10/02/2012	1802477.43	1	48.02	3.409	220.2651783	7.348	220
1	07/09/2012	1661767.33	1	83.96	3.73	222.4390153	6.908	220
2	12/02/2010	2137809.5	1	38.49	2.548	210.8979935	8.324	220
2	10/09/2010	1839128.83	1	79.09	2.565	211.1532104	8.099	220
2	26/11/2010	2658725.29	1	62.98	2.735	211.4062867	8.163	220
2	31/12/2010	1750434.55	1	47.3	2.943	211.064774	8.163	220
2	11/02/2011	2168041.61	1	33.19	3.022	212.5928624	8.028	220
2	09/09/2011	1748000.65	1	77.97	3.546	215.5148295	7.852	220
2	25/11/2011	2614202.3	1	56.36	3.236	218.1130269	7.441	220
2	30/12/2011	1874226.52	1	44.57	3.129	219.1773063	7.441	220
2	10/02/2012	2103322.68	1	46.98	3.409	219.9049073	7.057	220
2	07/09/2012	1898777.07	1	87.65	3.73	222.0747635	6.565	220
4	12/02/2010	2188307.39	1	28.84	2.573	126.4962581	8.623	220
4	10/09/2010	1865820.81	1	73.54	2.574	126.1145806	7.372	220
4	26/11/2010	2789469.45	1	48.08	2.752	126.6692667	7.127	220
4	31/12/2010	1794868.74	1	38.09	2.955	127.0876774	7.127	220
4	11/02/2011	2187847.29	1	33.29	3.033	127.859129	6.51	220
4	09/09/2011	2093139.01	1	73.34	3.554	129.3686129	5.644	220
4	25/11/2011	3004702.33	1	47.96	3.225	129.8364	5.143	220
4	30/12/2011	2007105.86	1	36.89	3.119	130.0710323	5.143	220
4	10/02/2012	2374660.64	1	33	3.411	130.3849032	4.607	220
4	07/09/2012	2125104.72	1	82.09	3.709	130.9325484	4.077	220
6	12/02/2010	1606283.86	1	40.57	2.548	212.7700425	7.259	220
6	10/09/2010	1424225.44	1	78.78	2.565	213.013312	6.973	220
6	26/11/2010	2267452.4	1	65.79	2.735	213.2672961	7.007	220
6	31/12/2010	1464050.02	1	49.14	2.943	212.9149674	7.007	220
6	11/02/2011	1486920.17	1	39.38	3.022	214.4630941	6.858	220
6	09/09/2011	1483574.38	1	80.21	3.546	217.3980304	6.925	220
6	25/11/2011	2249811.55	1	62.78	3.236	220.0417412	6.551	220

Mean across sales during Holiday/Non Holidays.

Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI	Unemployment	count
6	30/12/2011	1598080.52	1	46.8	3.129	221.1282634	6.551	220
6	10/02/2012	1620603.92	1	48.58	3.409	221.8644987	6.132	220
6	07/09/2012	1608077.01	1	86.33	3.73	224.0560076	5.668	220
8	26/11/2010	1261693.16	1	51.07	2.735	215.1077548	6.433	220
8	25/11/2011	1235163.86	1	49.61	3.236	221.9491571	6.123	220
10	12/02/2010	2176028.52	1	49.96	2.828	126.4962581	9.765	220
10	10/09/2010	1720530.23	1	84.04	2.961	126.1145806	9.199	220
10	26/11/2010	2939946.38	1	55.33	3.162	126.6692667	9.003	220
10	31/12/2010	1707298.14	1	49.67	3.148	127.0876774	9.003	220
10	11/02/2011	2115408.31	1	51.51	3.381	127.859129	8.744	220
10	09/09/2011	1670579.82	1	89.06	3.771	129.3686129	8.257	220
10	25/11/2011	2950198.64	1	60.68	3.76	129.8364	7.874	220
10	30/12/2011	1930690.37	1	48.92	3.428	130.0710323	7.874	220
10	10/02/2012	2218595.8	1	55.73	3.722	130.3849032	7.545	220
10	07/09/2012	1708283.28	1	83.07	4.124	130.9325484	7.17	220
11	12/02/2010	1574684.08	1	48.01	2.548	214.5747916	7.368	220
11	10/09/2010	1231428.46	1	81.93	2.565	214.8065431	7.346	220
11	26/11/2010	1757242.51	1	69.9	2.735	215.0614025	7.564	220
11	31/12/2010	1172003.1	1	55.03	2.943	214.6986466	7.564	220
11	11/02/2011	1419236.9	1	44.61	3.022	216.2660913	7.551	220
11	09/09/2011	1249439.95	1	84.91	3.546	219.2135305	7.567	220
11	25/11/2011	1848953.48	1	70.03	3.236	221.9011185	7.197	220
11	30/12/2011	1352084.21	1	48.86	3.129	223.0090839	7.197	220
11	10/02/2012	1574287.76	1	52.23	3.409	223.753643	6.833	220
11	07/09/2012	1304584.4	1	85.17	3.73	225.9660263	6.334	220
12	12/02/2010	1117863.33	1	47.87	2.946	126.4962581	13.975	220
12	26/11/2010	1601377.41	1	47.66	3.162	126.6692667	14.313	220
12	11/02/2011	1086421.57	1	51.3	3.381	127.859129	14.021	220
12	25/11/2011	1591920.42	1	53.25	3.622	129.8364	12.89	220
12	30/12/2011	1111638.07	1	44.64	3.428	130.0710323	12.89	220
12	10/02/2012	1199330.85	1	52.27	3.722	130.3849032	12.187	220
13	12/02/2010	2030933.46	1	33.16	2.671	126.4962581	8.316	220
13	10/09/2010	1772143.94	1	65.74	2.87	126.1145806	7.951	220
13	26/11/2010	2766400.05	1	28.22	2.83	126.6692667	7.795	220
13	31/12/2010	1675292	1	26.79	2.868	127.0876774	7.795	220
13	11/02/2011	1944438.9	1	30.83	3.034	127.859129	7.47	220
13	09/09/2011	1872921.31	1	70.19	3.619	129.3686129	6.877	220

Mean across sales during Holiday/Non Holidays.

Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI	Unemployment	count
13	25/11/2011	2864170.61	1	38.89	3.445	129.8364	6.392	220
13	30/12/2011	1969056.91	1	31.53	3.119	130.0710323	6.392	220
13	10/02/2012	2069284.57	1	33.73	3.116	130.3849032	6.104	220
13	07/09/2012	2165796.31	1	70.65	3.689	130.9325484	5.765	220
14	12/02/2010	1704218.84	1	27.73	2.773	181.982317	8.992	220
14	10/09/2010	2191767.76	1	70.87	2.699	182.598178	8.743	220
14	26/11/2010	2921709.71	1	46.15	3.039	182.7832769	8.724	220
14	31/12/2010	1623716.46	1	29.67	3.179	182.5714479	8.724	220
14	11/02/2011	1980405.03	1	30.3	3.239	183.7016129	8.549	220
14	09/09/2011	2202742.9	1	71.48	3.738	186.6737376	8.625	220
14	25/11/2011	2685351.81	1	48.71	3.492	188.3504	8.523	220
14	30/12/2011	1914148.89	1	37.79	3.389	189.0620155	8.523	220
14	10/02/2012	2077256.24	1	37	3.64	189.7076048	8.424	220
14	07/09/2012	1904512.34	1	75.7	3.911	191.5776756	8.684	220
15	26/11/2010	1120018.92	1	40.71	3.186	132.8369333	8.067	220
15	25/11/2011	1066478.1	1	41.1	3.689	136.4788	7.866	220
17	10/09/2010	1200888.28	1	56.28	2.87	126.1145806	6.697	220
17	09/09/2011	1161900.18	1	61.94	3.619	129.3686129	6.745	220
17	25/11/2011	1225700.28	1	32.81	3.445	129.8364	6.617	220
17	07/09/2012	1255633.29	1	61.99	3.689	130.9325484	5.936	220
18	12/02/2010	1187880.7	1	26.41	2.771	131.5866129	9.202	220
18	26/11/2010	1653759.36	1	40.81	3.07	132.8369333	9.331	220
18	11/02/2011	1122053.58	1	24.3	3.255	133.260871	9.131	220
18	25/11/2011	1624170.99	1	41.97	3.536	136.4788	8.471	220
18	10/02/2012	1161615.51	1	32.83	3.655	137.1666774	8.075	220
18	07/09/2012	1083521.24	1	71.85	3.921	138.4729355	8.535	220
19	12/02/2010	1536549.95	1	23.22	2.94	131.5866129	8.35	220
19	10/09/2010	1591453.39	1	63.36	2.837	132.7564516	8.099	220
19	26/11/2010	1993367.83	1	42.62	3.186	132.8369333	8.067	220
19	31/12/2010	1275146.94	1	28.65	3.336	132.8150323	8.067	220
19	11/02/2011	1430851.11	1	21.79	3.416	133.260871	7.771	220
19	09/09/2011	1566712.79	1	68.28	3.93	136.2745806	7.806	220
19	25/11/2011	1974646.78	1	42.75	3.689	136.4788	7.866	220
19	30/12/2011	1405168.06	1	31.65	3.566	136.6432581	7.866	220
19	10/02/2012	1499496.67	1	32.61	3.826	137.1666774	7.943	220
19	07/09/2012	1497073.82	1	72.2	4.076	138.4729355	8.193	220
20	12/02/2010	2109107.9	1	22.12	2.773	204.3857472	8.187	220

Mean across sales during Holiday/Non Holidays.

Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI	Unemployment	count
20	10/09/2010	2014954.79	1	65.02	2.699	204.7266827	7.527	220
20	26/11/2010	2811634.04	1	46.66	3.039	204.9621	7.484	220
20	31/12/2010	1799737.79	1	28.85	3.179	204.6432267	7.484	220
20	11/02/2011	2211388.14	1	25.38	3.239	206.0763862	7.343	220
20	09/09/2011	2050542.56	1	68.74	3.738	209.0225562	7.274	220
20	25/11/2011	2906233.25	1	46.38	3.492	211.4120757	7.082	220
20	30/12/2011	2043245	1	36.35	3.389	212.4035763	7.082	220
20	10/02/2012	2462978.28	1	33.47	3.64	213.1186138	6.961	220
20	07/09/2012	2080529.06	1	76.36	3.911	215.2189573	7.28	220
21	26/11/2010	1245628.61	1	62.96	2.735	211.4062867	8.163	220
21	25/11/2011	1219263.4	1	56.43	3.236	218.1130269	7.441	220
22	26/11/2010	1564502.26	1	44.61	3.07	136.6895714	8.572	220
22	25/11/2011	1535857.49	1	46.28	3.536	140.4217857	7.706	220
23	12/02/2010	1380892.08	1	18.75	2.771	131.5866129	5.892	220
23	10/09/2010	1272842.85	1	63.21	2.717	132.7564516	5.326	220
23	26/11/2010	2072685.05	1	34.95	3.07	132.8369333	5.287	220
23	31/12/2010	1169773.85	1	19.05	3.177	132.8150323	5.287	220
23	11/02/2011	1249786.4	1	21.52	3.255	133.260871	5.114	220
23	09/09/2011	1423289.9	1	66.04	3.809	136.2745806	4.584	220
23	25/11/2011	2057059.53	1	35.23	3.536	136.4788	4.42	220
23	30/12/2011	1213486.95	1	22.3	3.402	136.6432581	4.42	220
23	10/02/2012	1358444.07	1	26.6	3.655	137.1666774	4.261	220
23	07/09/2012	1427162.26	1	66.74	3.921	138.4729355	4.156	220
24	12/02/2010	1414107.1	1	25.94	2.94	131.5866129	8.326	220
24	10/09/2010	1474498.59	1	67.11	2.837	132.7564516	8.117	220
24	26/11/2010	1779276.51	1	41.92	3.186	132.8369333	8.275	220
24	31/12/2010	1208600.05	1	25.9	3.336	132.8150323	8.275	220
24	11/02/2011	1341240.62	1	26.51	3.416	133.260871	8.252	220
24	09/09/2011	1527455.19	1	68.32	3.93	136.2745806	8.358	220
24	25/11/2011	1761235.67	1	41.83	3.689	136.4788	8.454	220
24	30/12/2011	1363973.16	1	33.45	3.566	136.6432581	8.454	220
24	10/02/2012	1403460.87	1	33.82	3.826	137.1666774	8.659	220
24	07/09/2012	1477134.75	1	72.81	4.076	138.4729355	8.953	220
25	26/11/2010	1115240.61	1	43.43	3.039	204.9621	7.484	220
25	25/11/2011	1116211.39	1	43.49	3.492	211.4120757	7.082	220
26	10/09/2010	1042226.3	1	54.82	2.717	132.7564516	8.445	220
26	26/11/2010	1286833.62	1	28.11	3.07	132.8369333	8.149	220

Mean across sales during Holiday/Non Holidays.

Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI	Unemployment	count
26	09/09/2011	1069710.97	1	60.98	3.809	136.2745806	7.767	220
26	25/11/2011	1282320.05	1	31.07	3.536	136.4788	7.598	220
26	10/02/2012	1081005.64	1	23.89	3.655	137.1666774	7.467	220
26	07/09/2012	1081874.03	1	61.58	3.921	138.4729355	7.405	220
27	12/02/2010	1745362.72	1	29.81	2.94	135.4113076	8.237	220
27	10/09/2010	1913494.81	1	70.38	2.837	136.6212085	7.982	220
27	26/11/2010	2627910.75	1	46.67	3.186	136.6895714	8.021	220
27	31/12/2010	1440963	1	29.59	3.336	136.665265	8.021	220
27	11/02/2011	1636224.77	1	30.45	3.416	137.1378318	7.827	220
27	09/09/2011	1911470.84	1	70.93	3.93	140.2310173	7.85	220
27	25/11/2011	2504400.71	1	47.88	3.689	140.4217857	7.906	220
27	30/12/2011	1650604.6	1	37.85	3.566	140.5874505	7.906	220
27	10/02/2012	1651605.35	1	37.86	3.826	141.1199827	8.009	220
27	07/09/2012	1840955.23	1	76	4.076	142.500303	8.239	220
28	12/02/2010	1558968.49	1	47.87	2.946	126.4962581	13.975	220
28	10/09/2010	1246062.17	1	83.63	3.044	126.1145806	14.18	220
28	26/11/2010	1937033.5	1	47.66	3.162	126.6692667	14.313	220
28	31/12/2010	1090558.57	1	45.64	3.148	127.0876774	14.313	220
28	11/02/2011	1397301.38	1	51.3	3.381	127.859129	14.021	220
28	09/09/2011	1310087	1	88	3.913	129.3686129	13.503	220
28	25/11/2011	1929738.27	1	53.25	3.622	129.8364	12.89	220
28	30/12/2011	1270036.53	1	44.64	3.428	130.0710323	12.89	220
28	10/02/2012	1572966.15	1	52.27	3.722	130.3849032	12.187	220
28	07/09/2012	1469693.99	1	88.52	4.124	130.9325484	10.926	220
31	12/02/2010	1543947.23	1	37.77	2.548	210.8979935	8.324	220
31	10/09/2010	1308179.02	1	79.3	2.565	211.1532104	8.099	220
31	26/11/2010	1858856.06	1	62.96	2.735	211.4062867	8.163	220
31	31/12/2010	1198071.6	1	47.19	2.943	211.064774	8.163	220
31	11/02/2011	1539230.32	1	34.61	3.022	212.5928624	8.028	220
31	09/09/2011	1376670.27	1	78.87	3.546	215.5148295	7.852	220
31	25/11/2011	1934099.65	1	56.43	3.236	218.1130269	7.441	220
31	30/12/2011	1355405.95	1	45.16	3.129	219.1773063	7.441	220
31	10/02/2012	1527688.58	1	46.52	3.409	219.9049073	7.057	220
31	07/09/2012	1358111.62	1	88.4	3.73	222.0747635	6.565	220
32	12/02/2010	1123566.12	1	28.09	2.572	189.4642725	9.014	220
32	26/11/2010	1634635.86	1	29.97	2.742	191.0121805	9.137	220
32	11/02/2011	1124357.2	1	18.51	3.037	191.8572881	8.818	220

Mean across sales during Holiday/Non Holidays.

Store	Date	Weekly_Sales	Holiday_Flag	Temperature	Fuel_Price	CPI	Unemployment	count
32	09/09/2011	1128237.3	1	61.24	3.566	194.6387853	8.622	220
32	25/11/2011	1684468.66	1	40.22	3.424	195.7704	8.513	220
32	30/12/2011	1102367.65	1	32.99	3.119	196.3586101	8.513	220
32	10/02/2012	1129422.86	1	23.34	3.103	196.9195056	8.256	220
32	07/09/2012	1126685.95	1	72.56	3.596	198.0950484	7.872	220
34	26/11/2010	1309476.68	1	41.13	2.752	126.6692667	10.21	220
34	25/11/2011	1345595.82	1	45.99	3.225	129.8364	10.148	220
34	10/02/2012	1047658.09	1	36.7	3.411	130.3849032	9.653	220
35	12/02/2010	1168815.31	1	29.81	2.773	135.4113076	9.262	220
35	26/11/2010	1781866.98	1	46.67	3.039	136.6895714	8.763	220
35	25/11/2011	1733822.4	1	47.88	3.492	140.4217857	8.745	220
39	12/02/2010	1266229.07	1	44.58	2.548	209.9970208	8.554	220
39	10/09/2010	1279666.47	1	79.94	2.565	210.2641156	8.36	220
39	26/11/2010	2149355.2	1	67.75	2.735	210.5152765	8.476	220
39	31/12/2010	1230012.16	1	52.45	2.943	210.182398	8.476	220
39	11/02/2011	1227893.89	1	40.34	3.022	211.6985093	8.395	220
39	09/09/2011	1429345.86	1	79.15	3.546	214.6155376	8.177	220
39	25/11/2011	2338832.4	1	66.36	3.236	217.1812533	7.716	220
39	30/12/2011	1537139.56	1	47.6	3.129	218.2302364	7.716	220
39	10/02/2012	1442988.44	1	52.89	3.409	218.9551002	7.244	220
39	07/09/2012	1609811.75	1	83.71	3.73	221.1181142	6.623	220
40	26/11/2010	1166142.85	1	32.94	3.07	132.8369333	5.287	220
40	25/11/2011	1230011.95	1	32.76	3.536	136.4788	4.42	220
40	07/09/2012	1088248.4	1	65.06	3.921	138.4729355	4.156	220
41	12/02/2010	1075656.34	1	23.04	2.572	189.4642725	7.541	220
41	10/09/2010	1172672.27	1	63.3	2.78	190.3958293	7.335	220
41	26/11/2010	1866681.57	1	25.3	2.742	191.0121805	7.508	220
41	11/02/2011	1150003.36	1	16.81	3.037	191.8572881	7.241	220
41	09/09/2011	1280958.97	1	58.31	3.566	194.6387853	6.901	220
41	25/11/2011	1906713.35	1	36.37	3.424	195.7704	6.759	220
41	30/12/2011	1264014.16	1	34.12	3.119	196.3586101	6.759	220
41	10/02/2012	1238844.56	1	22	3.103	196.9195056	6.589	220
41	07/09/2012	1392143.82	1	67.41	3.596	198.0950484	6.432	220
45	26/11/2010	1182500.16	1	46.15	3.039	182.7832769	8.724	220
45	25/11/2011	1170672.94	1	48.71	3.492	188.3504	8.523	220

Mean across sales during Holiday/Non Holidays.

The REG Procedure
Model: MODEL1
Dependent Variable: Weekly_Sales

Number of Observations Read	143
Number of Observations Used	143

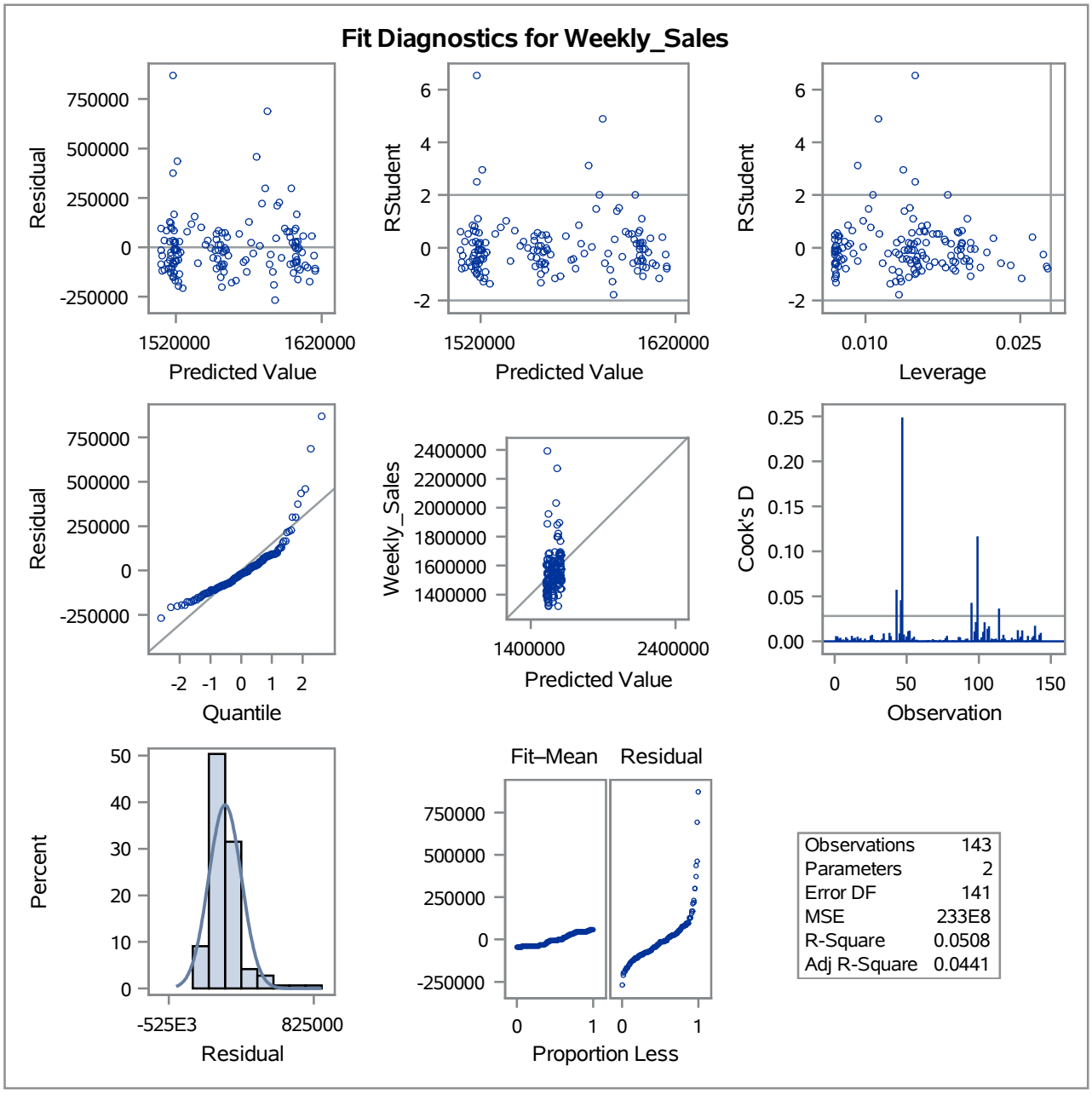
Analysis of Variance					
Source	**DF**	**Sum of Squares**	**Mean Square**	**F Value**	**Pr > F**
Model	1	1.755366E11	1.755366E11	7.55	0.0068
Error	141	3.279323E12	23257612366		
Corrected Total	142	3.45486E12			

Root MSE	152504	**R-Square**	0.0508
Dependent Mean	1555264	**Adj R-Sq**	0.0441
Coeff Var	9.80569		

Parameter Estimates					
Variable	**DF**	**Parameter Estimate**	**Standard Error**	**t Value**	**Pr > |t|**
Intercept	1	-190192	635470	-0.30	0.7652
CPI	1	8080.93496	2941.44194	2.75	0.0068

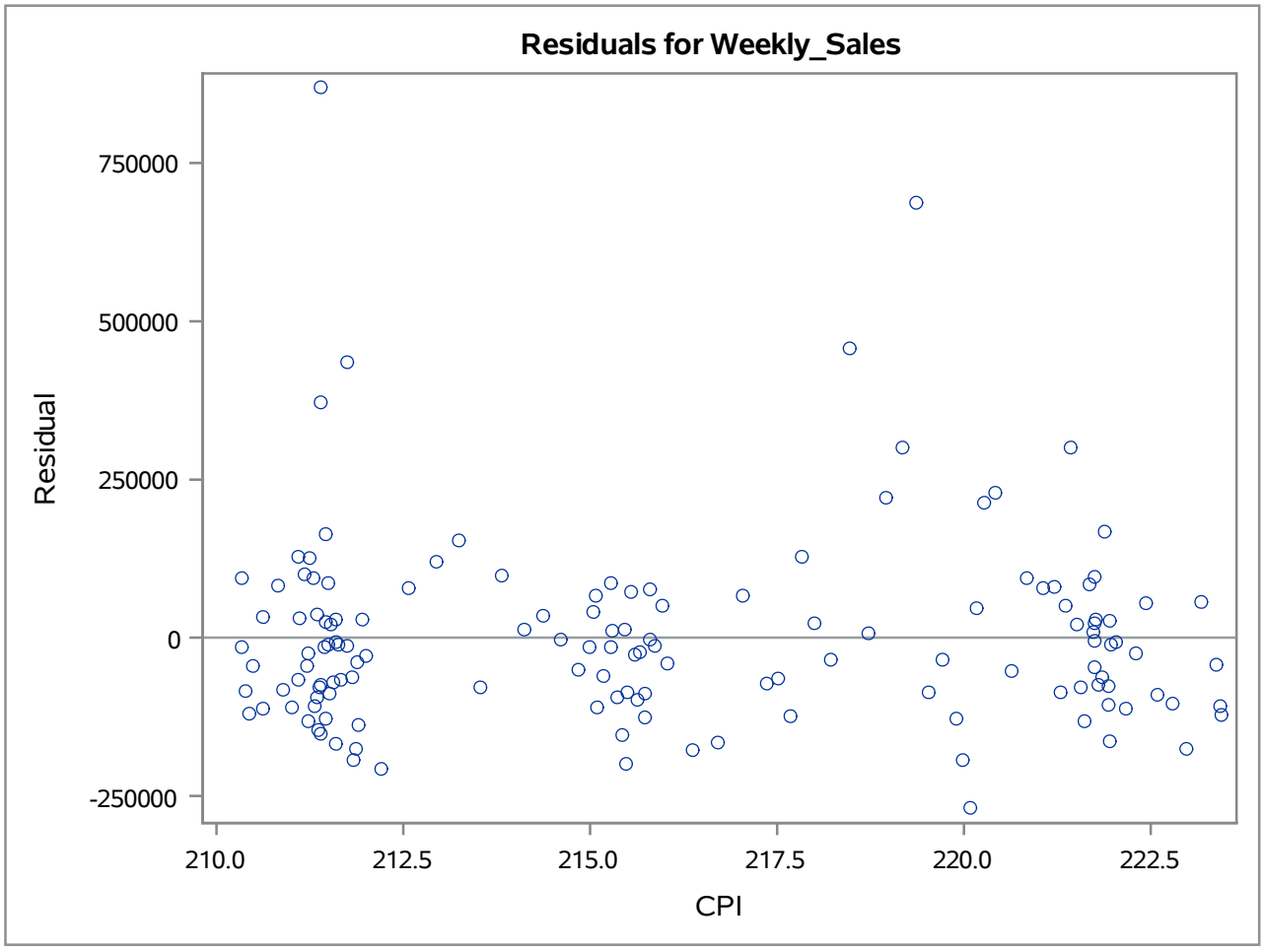
Mean across sales during Holiday/Non Holidays.

The REG Procedure
Model: MODEL1
Dependent Variable: Weekly_Sales



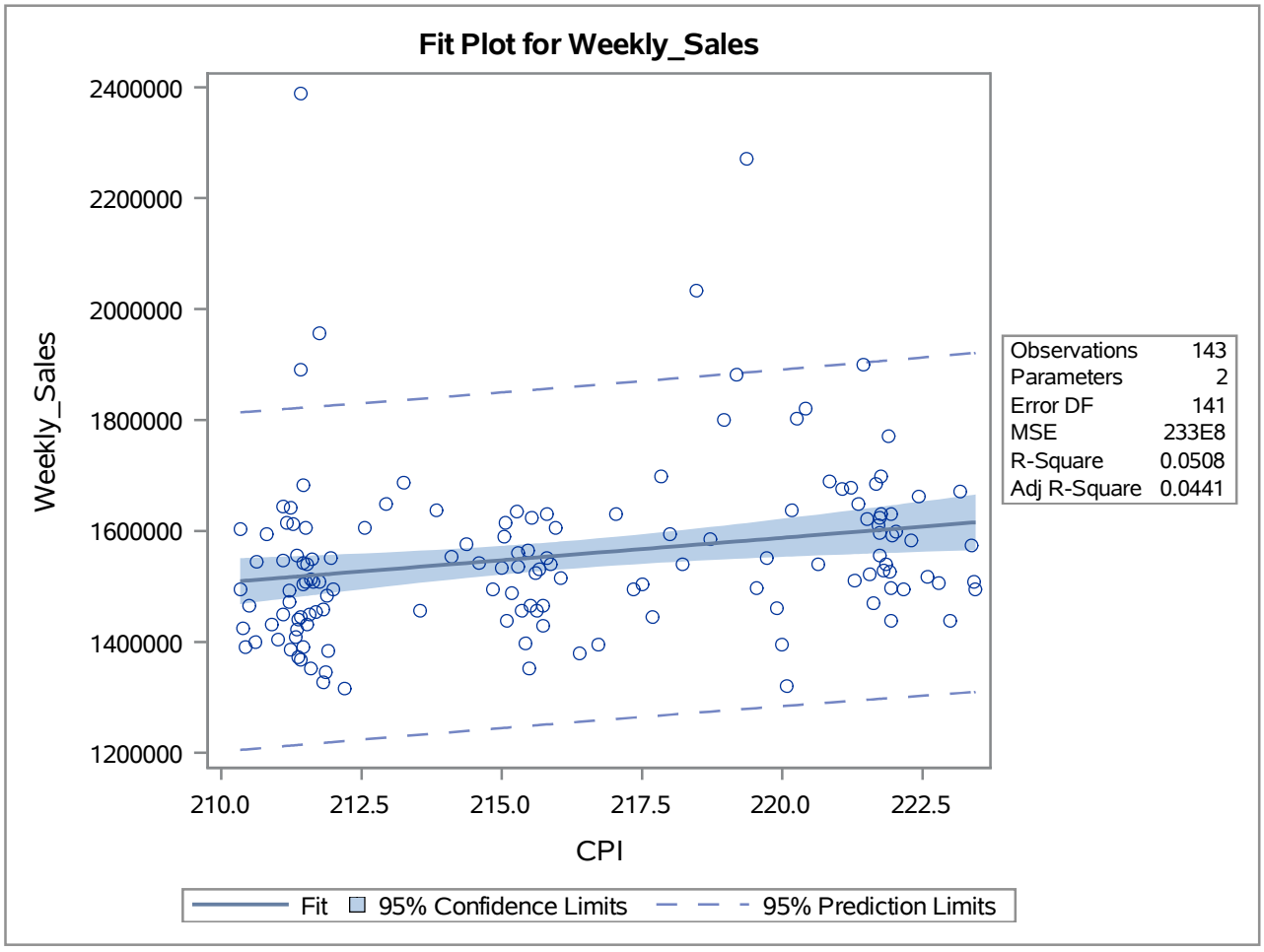
Mean across sales during Holiday/Non Holidays.

The REG Procedure
Model: MODEL1
Dependent Variable: Weekly_Sales



Mean across sales during Holiday/Non Holidays.

The REG Procedure
Model: MODEL1
Dependent Variable: Weekly_Sales



Mean across sales during Holiday/Non Holidays.

The REG Procedure
Model: MODEL1
Dependent Variable: Weekly_Sales

Number of Observations Read	143
Number of Observations Used	143

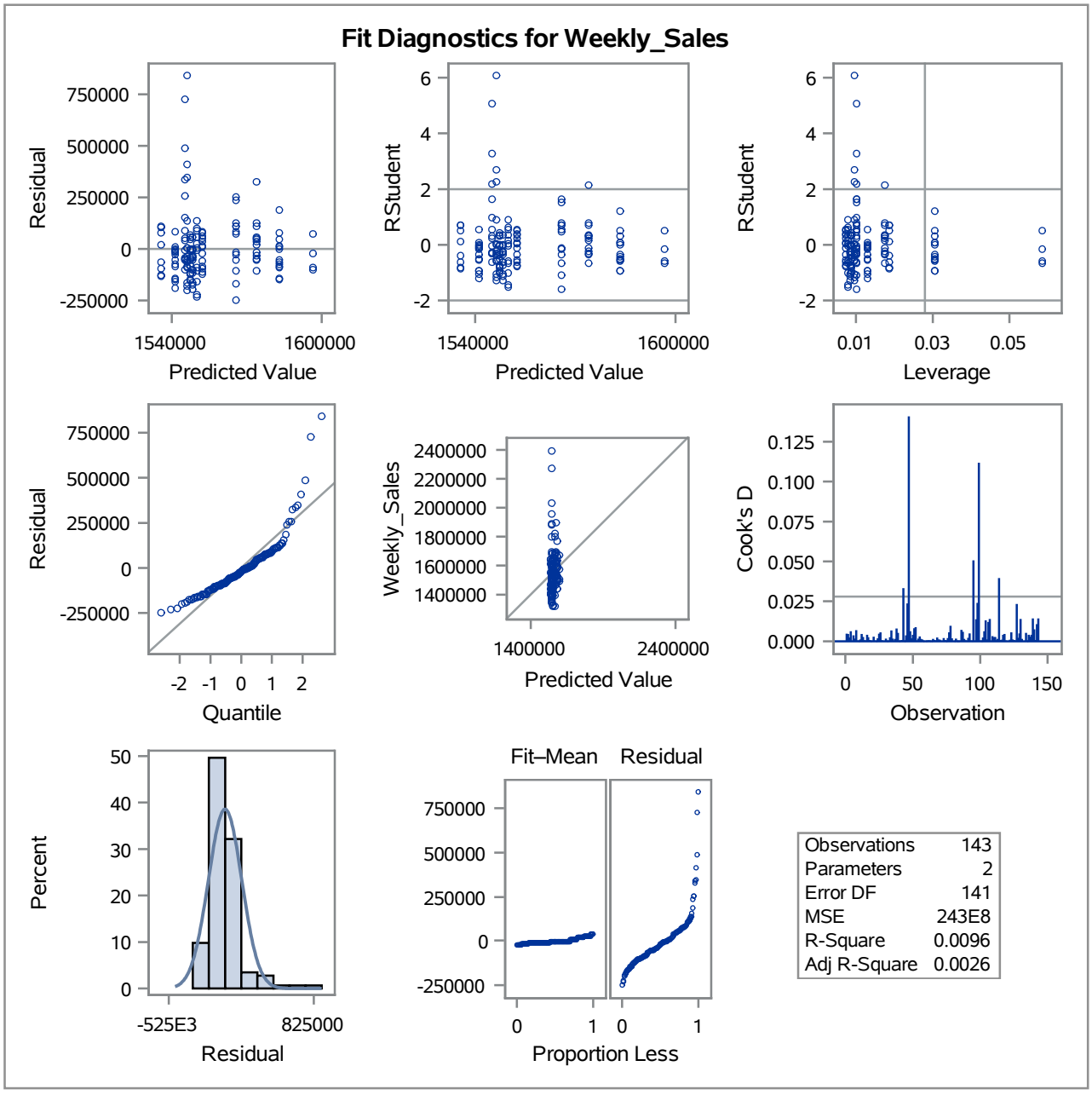
Analysis of Variance					
Source	**DF**	**Sum of Squares**	**Mean Square**	**F Value**	**Pr > F**
Model	1	33150277620	33150277620	1.37	0.2445
Error	141	3.42171E12	24267444750		
Corrected Total	142	3.45486E12			

Root MSE	155780	**R-Square**	0.0096
Dependent Mean	1555264	**Adj R-Sq**	0.0026
Coeff Var	10.01631		

Parameter Estimates					
Variable	**DF**	**Parameter Estimate**	**Standard Error**	**t Value**	**Pr > |t|**
Intercept	1	1858277	259583	7.16	<.0001
Unemployment	1	-39816	34066	-1.17	0.2445

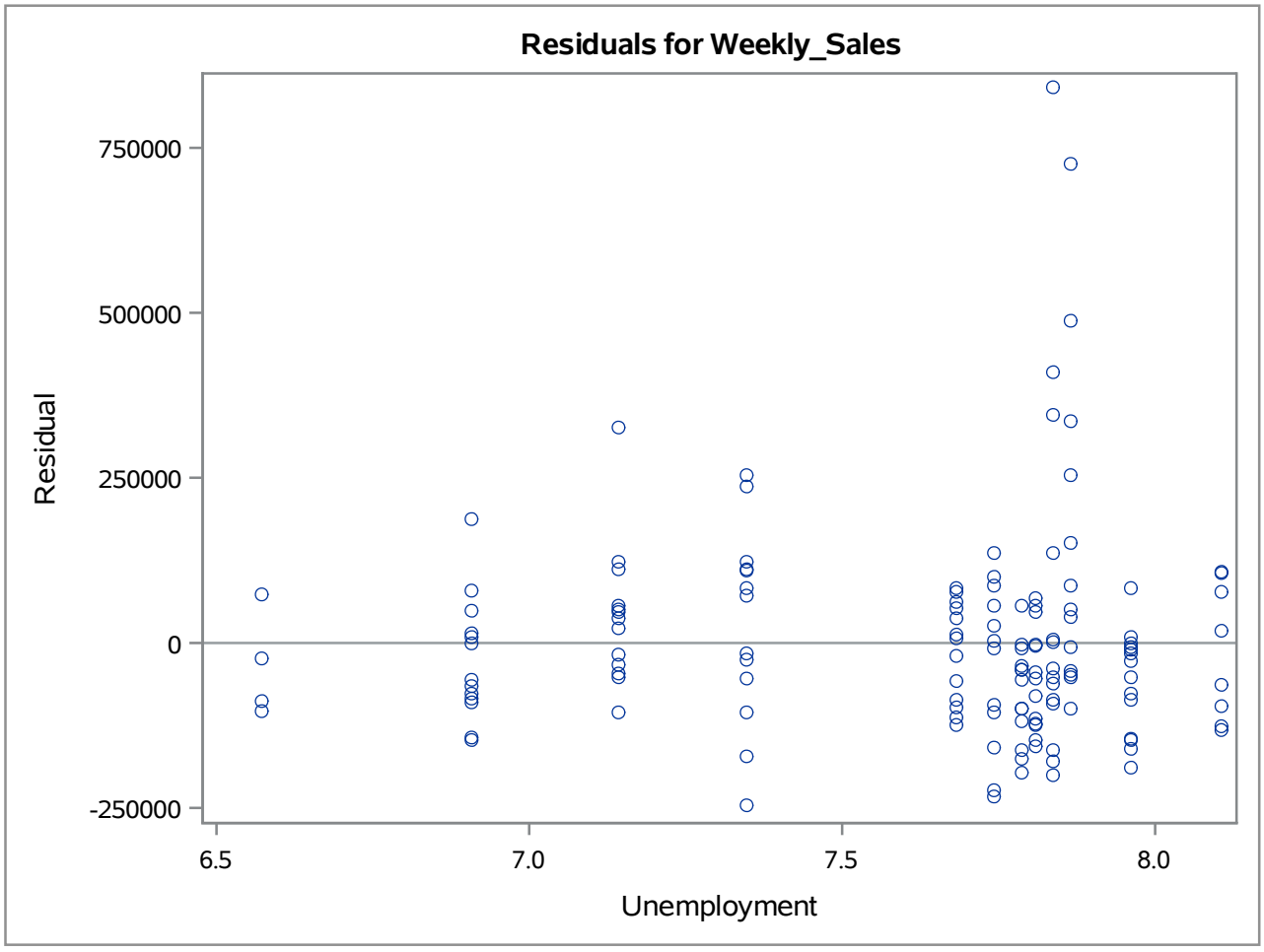
Mean across sales during Holiday/Non Holidays.

The REG Procedure
Model: MODEL1
Dependent Variable: Weekly_Sales



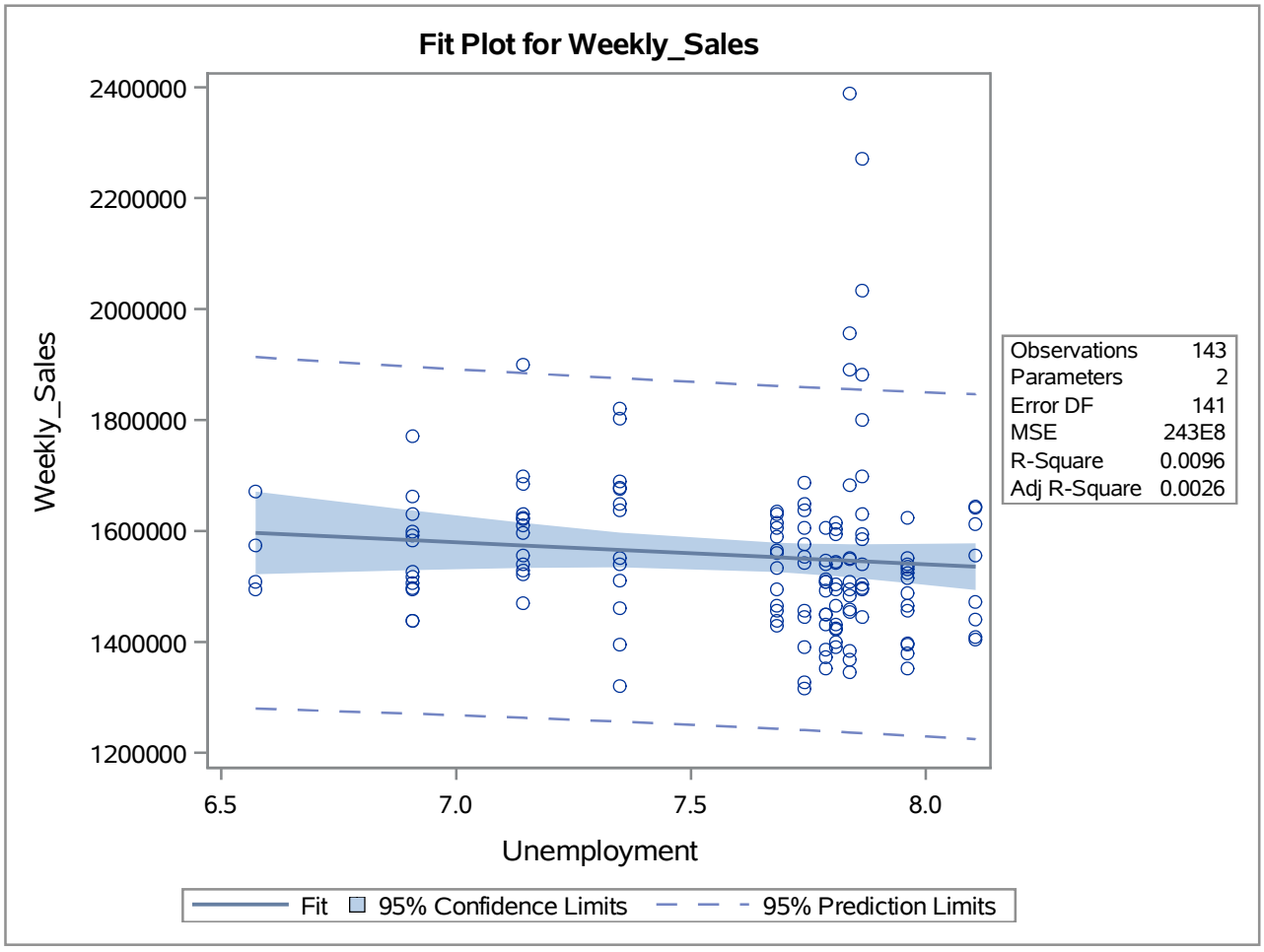
Mean across sales during Holiday/Non Holidays.

The REG Procedure
Model: MODEL1
Dependent Variable: Weekly_Sales



Mean across sales during Holiday/Non Holidays.

The REG Procedure
Model: MODEL1
Dependent Variable: Weekly_Sales



Mean across sales during Holiday/Non Holidays.

The REG Procedure
Model: MODEL1
Dependent Variable: Weekly_Sales

Number of Observations Read	143
Number of Observations Used	143

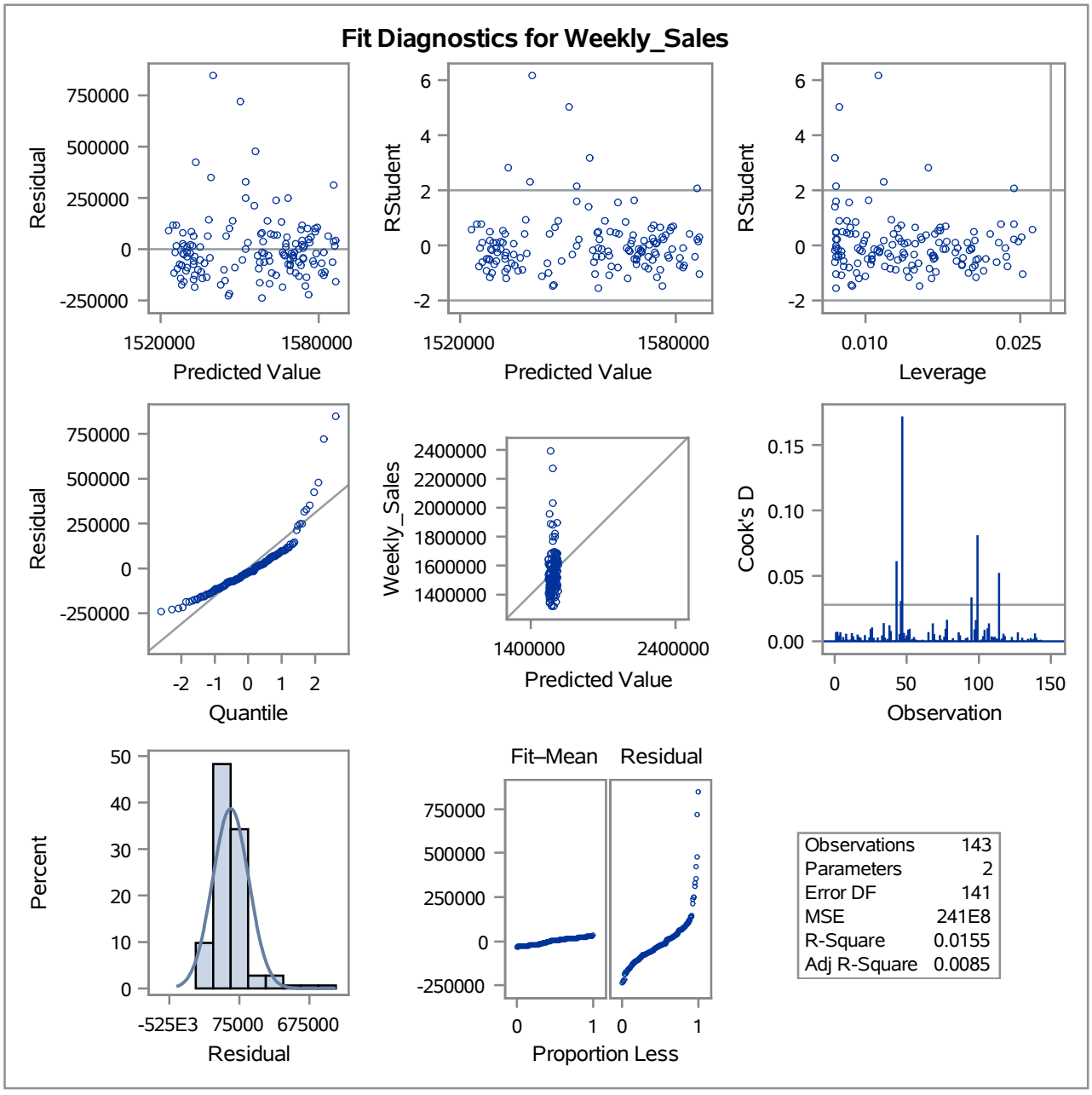
Analysis of Variance					
Source	**DF**	**Sum of Squares**	**Mean Square**	**F Value**	**Pr > F**
Model	1	53630005455	53630005455	2.22	0.1382
Error	141	3.40123E12	24122198454		
Corrected Total	142	3.45486E12			

Root MSE	155313	**R-Square**	0.0155
Dependent Mean	1555264	**Adj R-Sq**	0.0085
Coeff Var	9.98629		

Parameter Estimates					
Variable	**DF**	**Parameter Estimate**	**Standard Error**	**t Value**	**Pr > |t|**
Intercept	1	1408835	99060	14.22	<.0001
Fuel_Price	1	45479	30501	1.49	0.1382

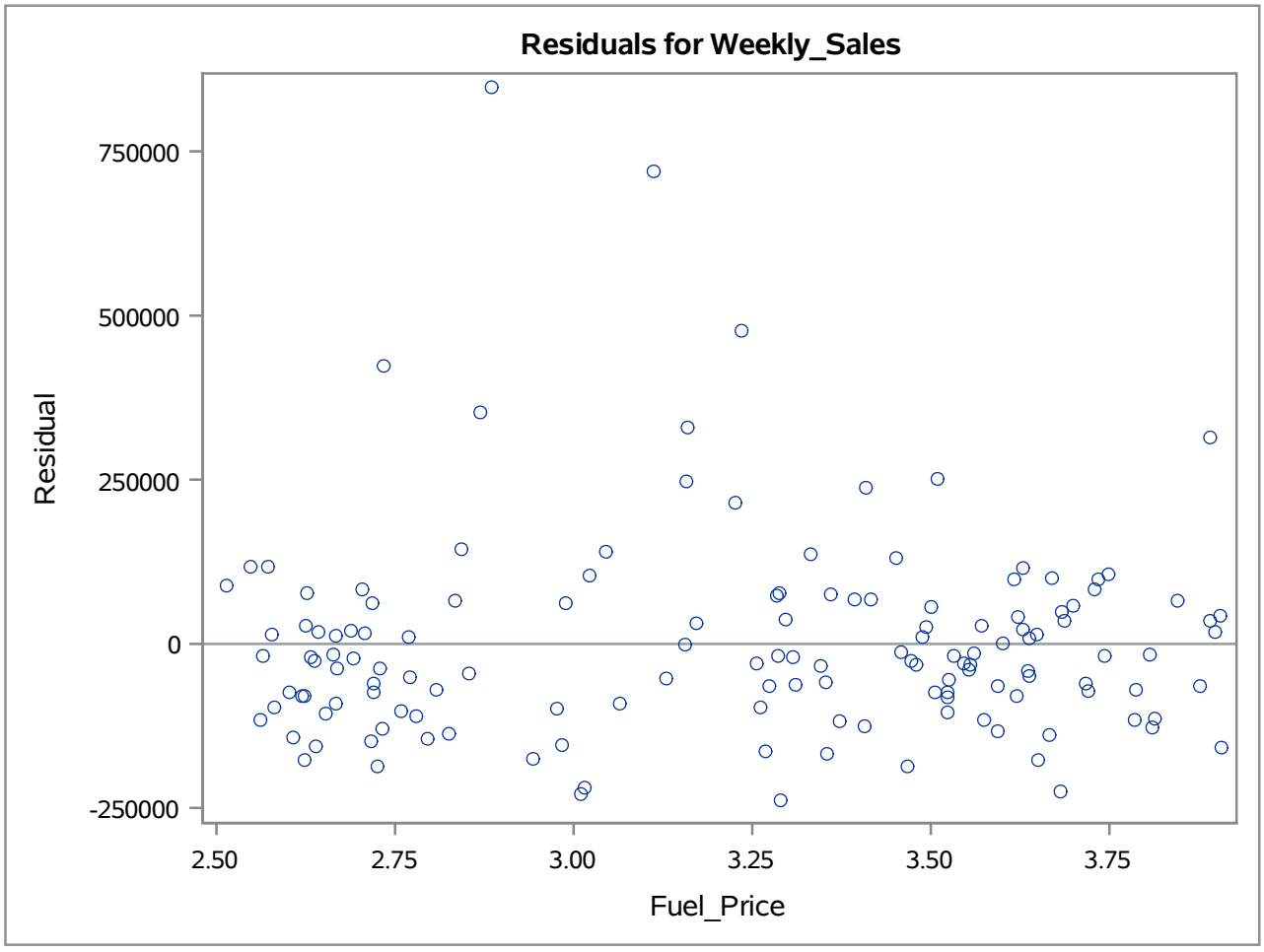
Mean across sales during Holiday/Non Holidays.

The REG Procedure
Model: MODEL1
Dependent Variable: Weekly_Sales



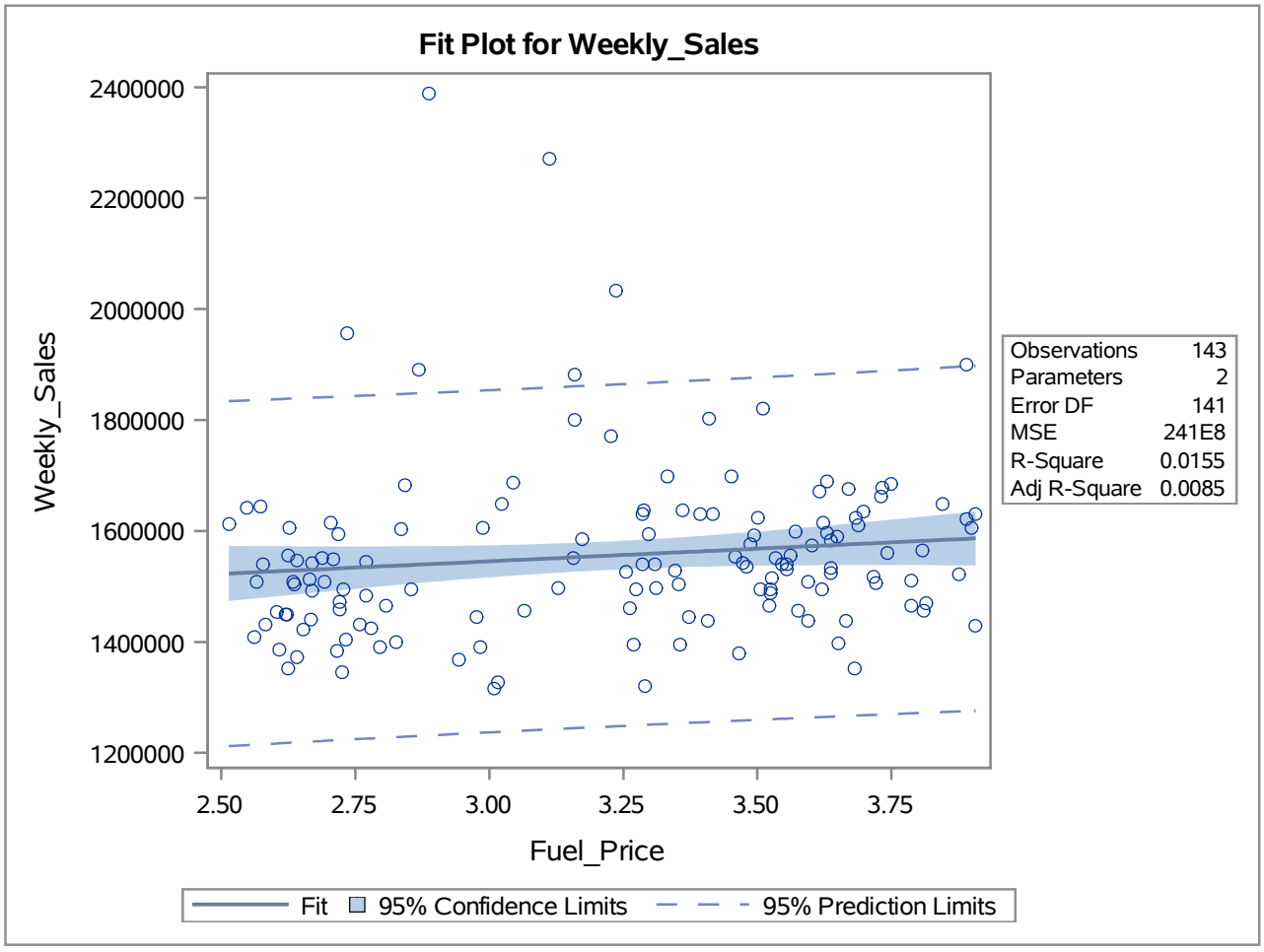
Mean across sales during Holiday/Non Holidays.

The REG Procedure
Model: MODEL1
Dependent Variable: Weekly_Sales



Mean across sales during Holiday/Non Holidays.

The REG Procedure
Model: MODEL1
Dependent Variable: Weekly_Sales



Mean across sales during Holiday/Non Holidays.

The REG Procedure
Model: MODEL1
Dependent Variable: Weekly_Sales

Number of Observations Read	143
Number of Observations Used	143

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	2.936132E11	97871067831	4.30	0.0062
Error	139	3.161247E12	22742782618		
Corrected Total	142	3.45486E12			

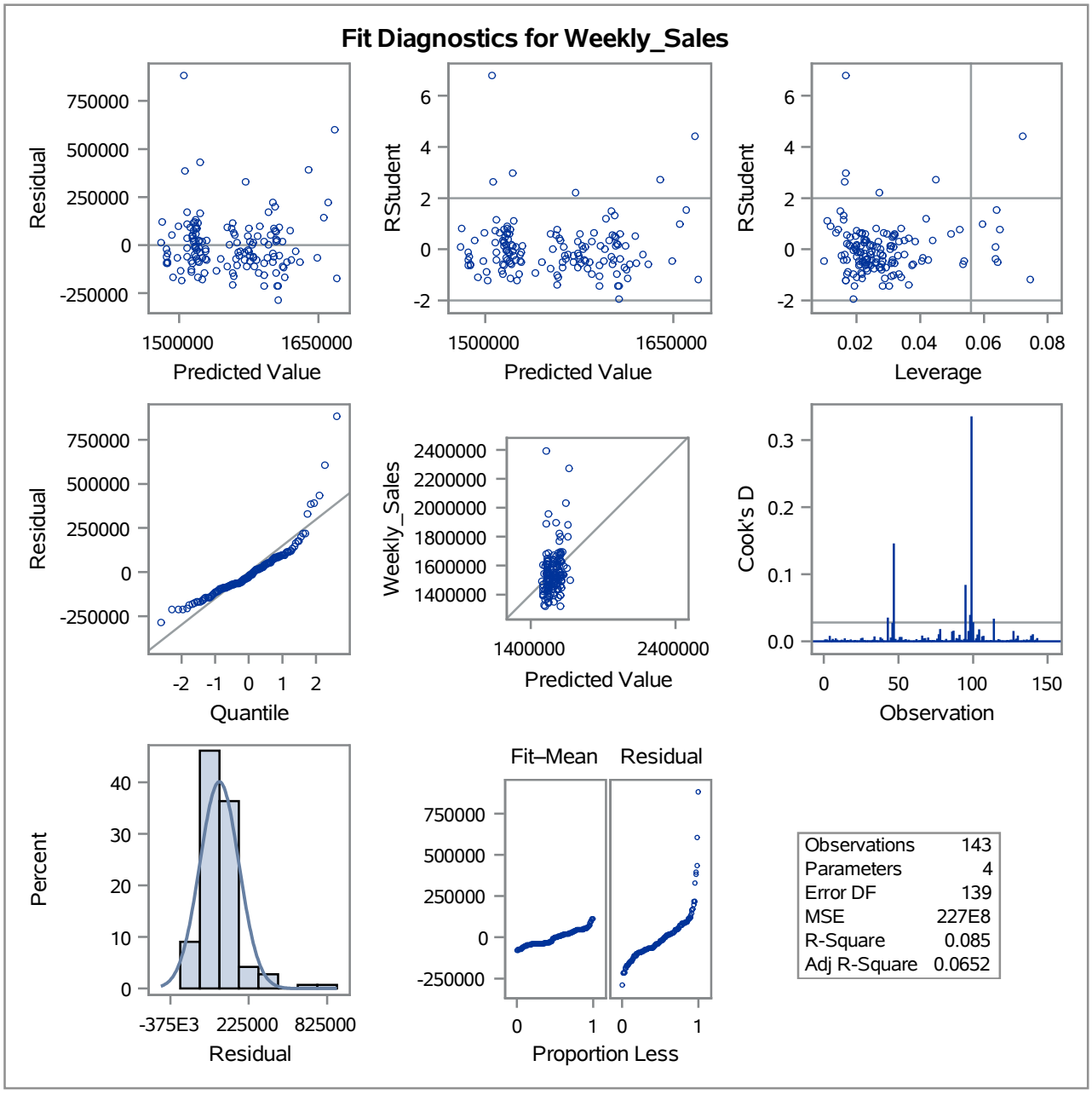
Root MSE	150807	**R-Square**	0.0850
Dependent Mean	1555264	**Adj R-Sq**	0.0652
Coeff Var	9.69656		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|
Intercept	1	-3887096	1740276	-2.23	0.0271
CPI	1	21792	6785.27208	3.21	0.0016
Unemployment	1	124064	58779	2.11	0.0366
Fuel_Price	1	-64838	46841	-1.38	0.1685

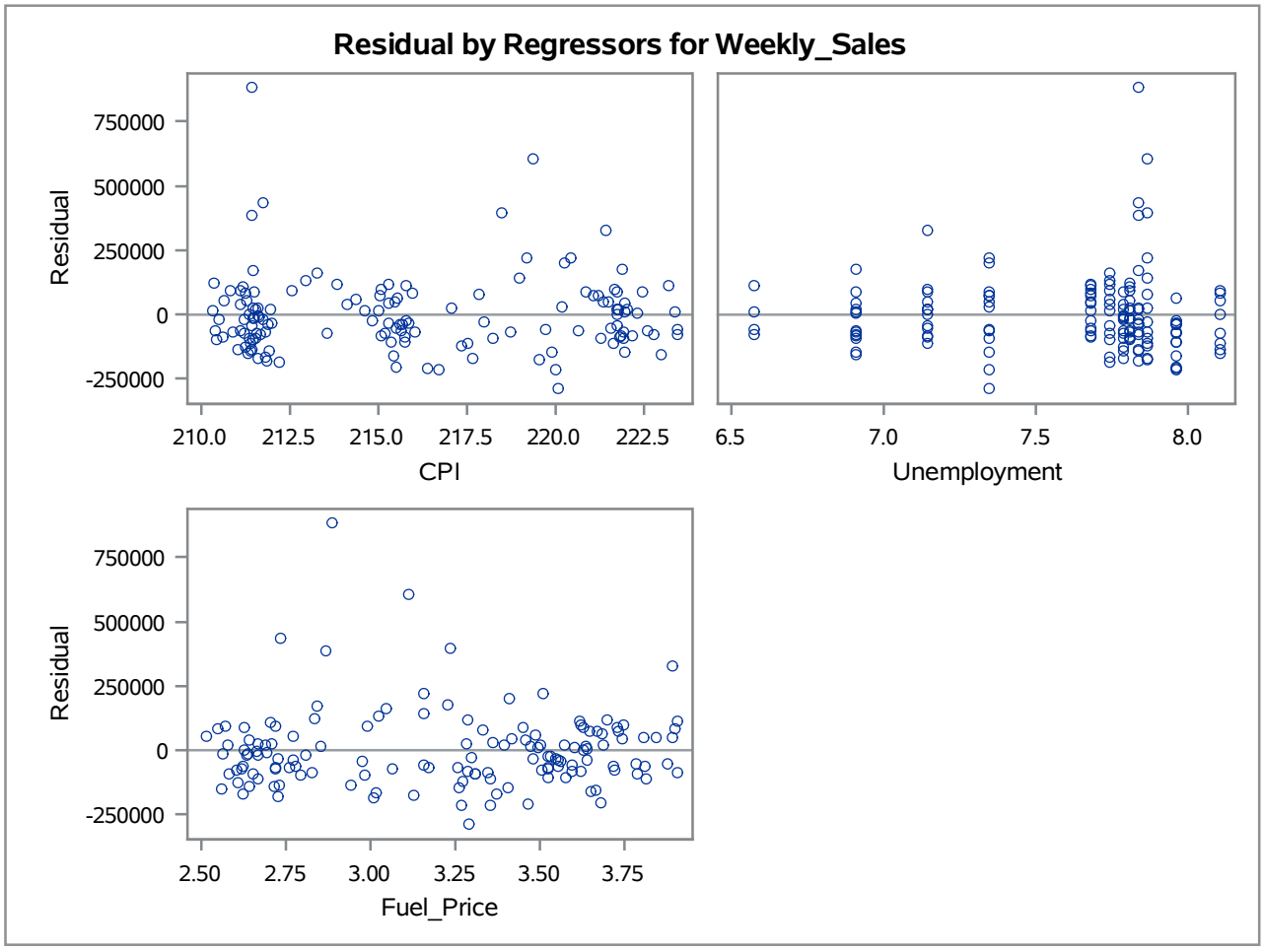
Mean across sales during Holiday/Non Holidays.

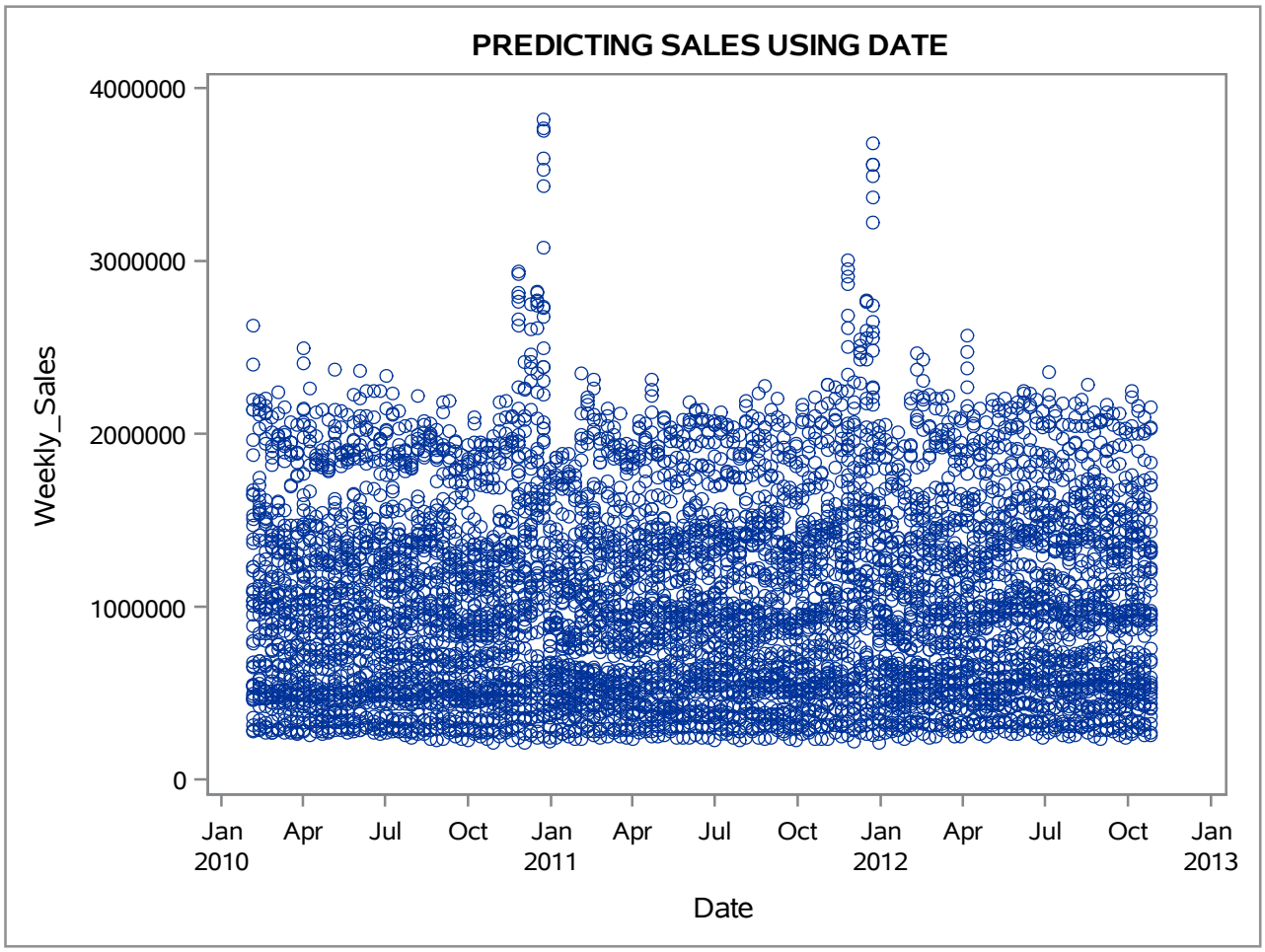
The REG Procedure
Model: MODEL1
Dependent Variable: Weekly_Sales



Mean across sales during Holiday/Non Holidays.

The REG Procedure
Model: MODEL1
Dependent Variable: Weekly_Sales

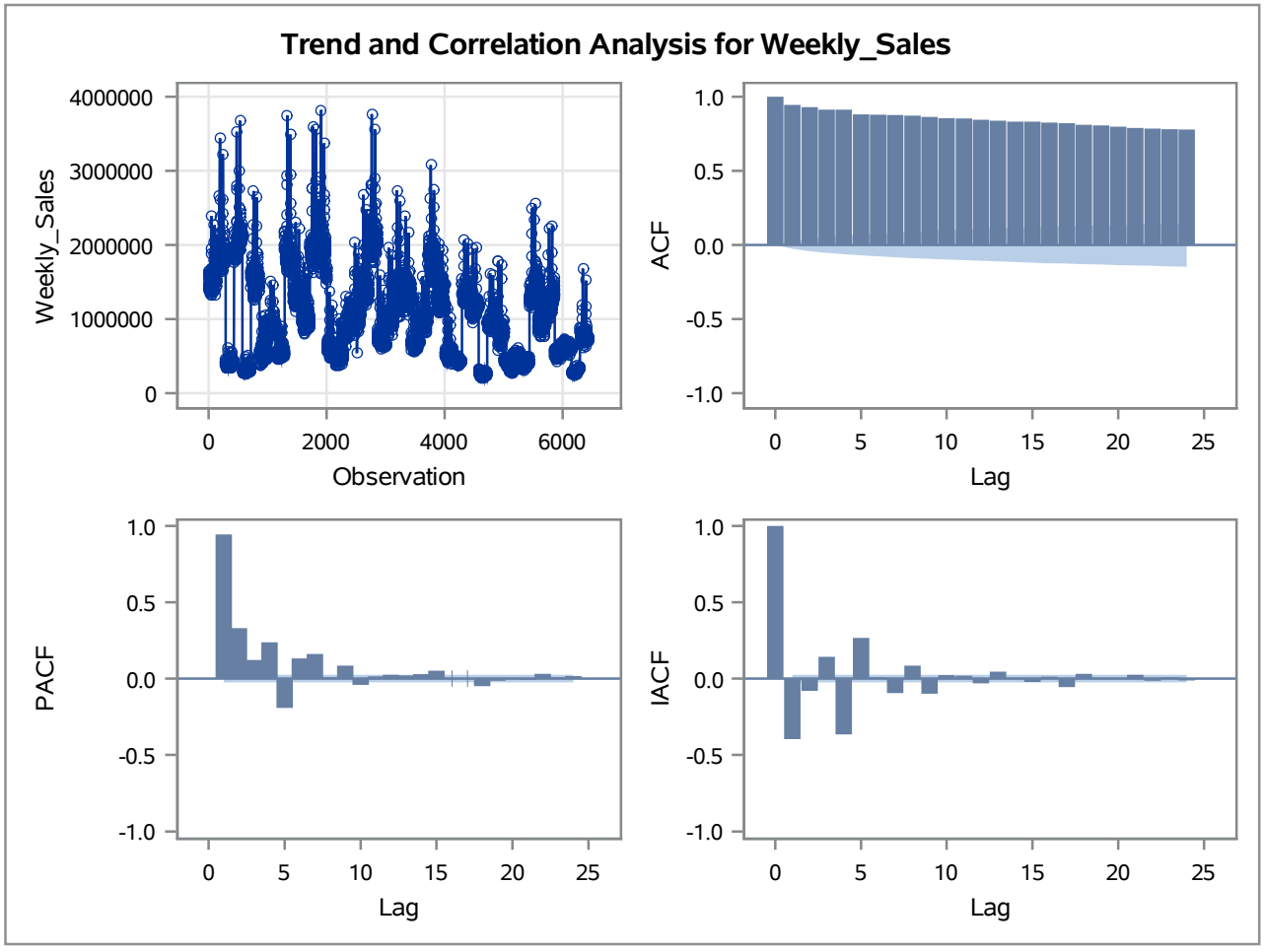



PREDICTING SALES USING DATE
Weekly_Sales
4000000
3000000
2000000
1000000
0
Jan
2010
Apr
Jul
Oct
Jan
2011
Apr
Jul
Oct
Jan
2012
Apr
Jul
Oct
Jan
2013
Date

The ARIMA Procedure

Name of Variable = Weekly_Sales	
Mean of Working Series	1046965
Standard Deviation	564322.8
Number of Observations	6435

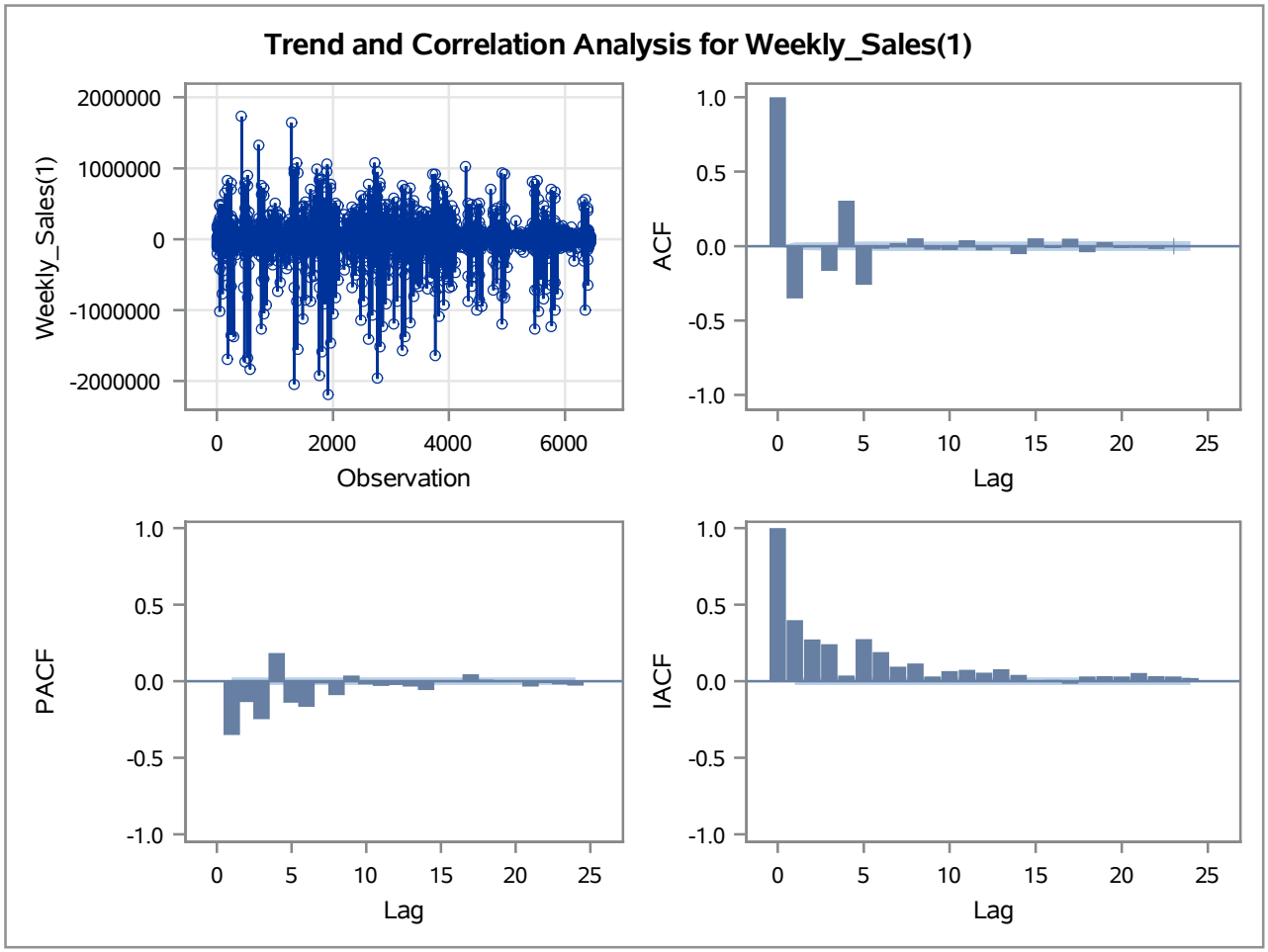
Autocorrelation Check for White Noise									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	9999.99	6	<.0001	0.945	0.929	0.912	0.913	0.881	0.878
12	9999.99	12	<.0001	0.876	0.872	0.863	0.856	0.852	0.844
18	9999.99	18	<.0001	0.838	0.832	0.832	0.826	0.821	0.811
24	9999.99	24	<.0001	0.806	0.797	0.790	0.784	0.781	0.778



The ARIMA Procedure

Name of Variable = Weekly_Sales	
Period(s) of Differencing	1
Mean of Working Series	-137.303
Standard Deviation	186878.2
Number of Observations	6434
Observation(s) eliminated by differencing	1

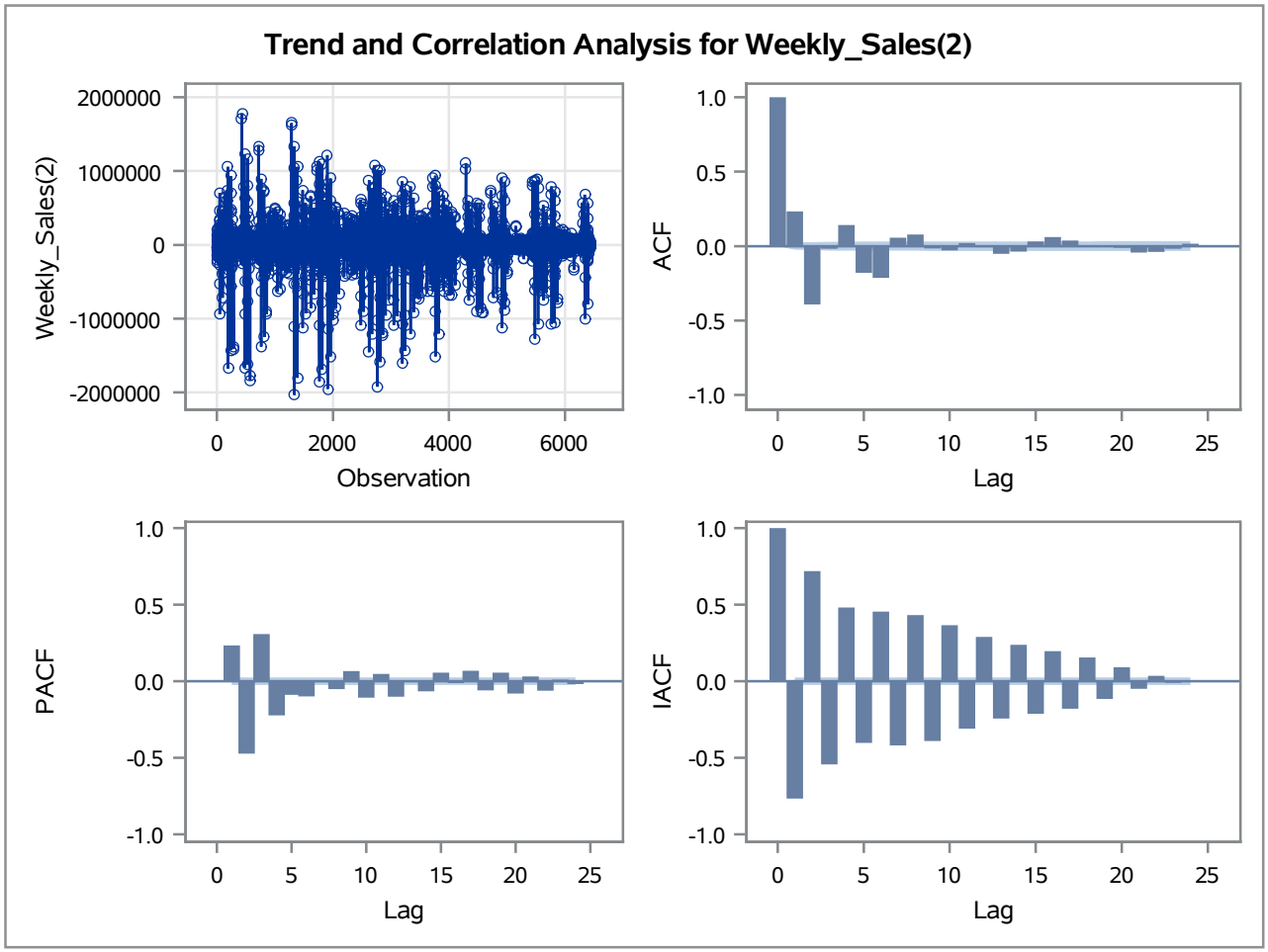
Autocorrelation Check for White Noise									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	2012.96	6	<.0001	-0.351	0.004	-0.167	0.306	-0.261	-0.018
12	2056.33	12	<.0001	0.020	0.052	-0.024	-0.026	0.040	-0.028
18	2123.49	18	<.0001	0.008	-0.054	0.053	-0.013	0.051	-0.042
24	2132.36	24	<.0001	0.026	-0.014	-0.011	-0.020	-0.002	0.001



The ARIMA Procedure

Name of Variable = Weekly_Sales	
Period(s) of Differencing	2
Mean of Working Series	-280.933
Standard Deviation	212992.3
Number of Observations	6433
Observation(s) eliminated by differencing	2

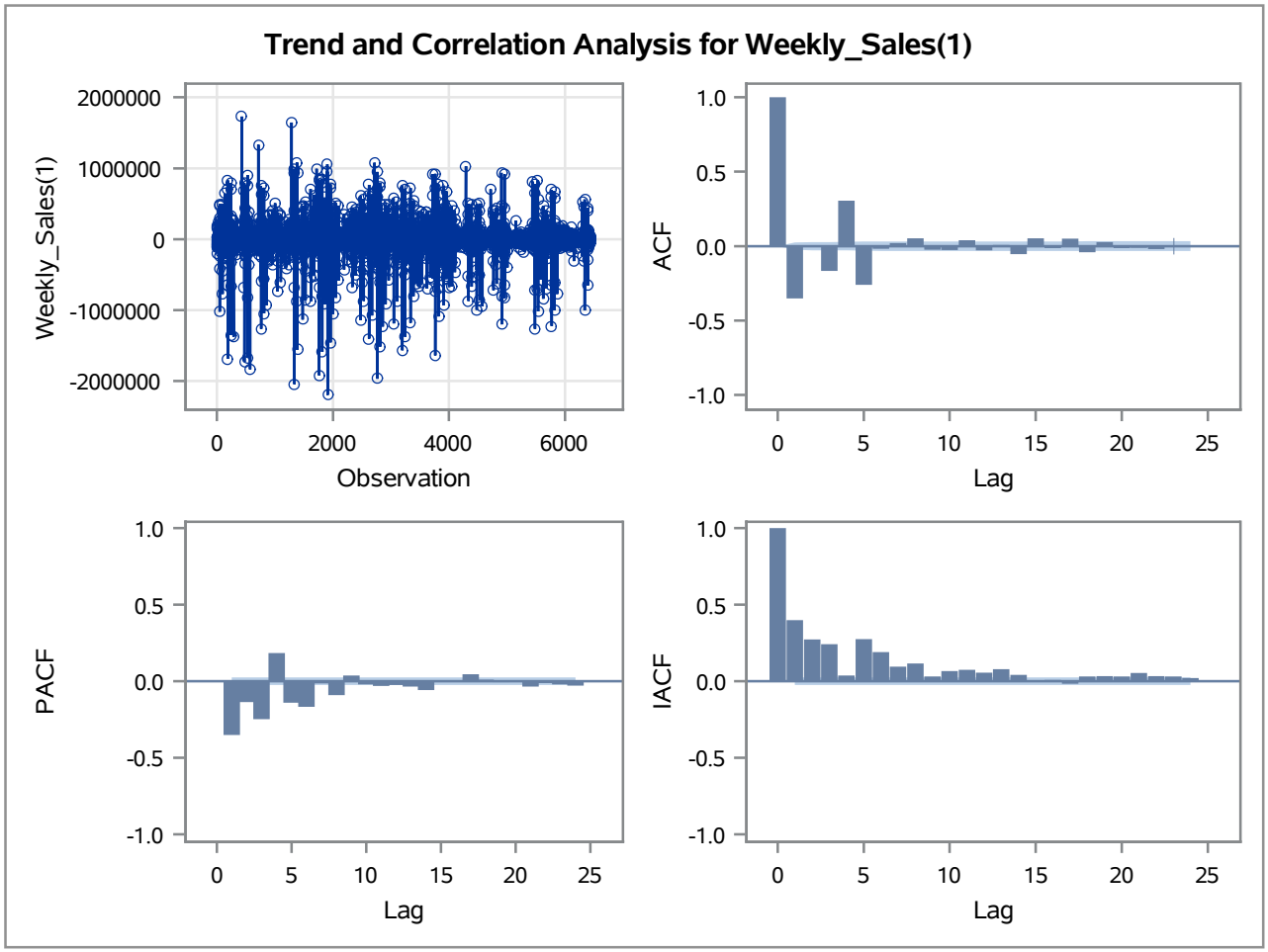
Autocorrelation Check for White Noise									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	1974.65	6	<.0001	0.233	-0.393	-0.019	0.141	-0.180	-0.213
12	2044.24	12	<.0001	0.057	0.078	-0.016	-0.027	0.020	-0.006
18	2108.31	18	<.0001	-0.051	-0.037	0.030	0.061	0.036	-0.005
24	2134.85	24	<.0001	-0.004	-0.010	-0.043	-0.040	-0.017	0.015



The ARIMA Procedure

Name of Variable = Weekly_Sales	
Period(s) of Differencing	1
Mean of Working Series	-137.303
Standard Deviation	186878.2
Number of Observations	6434
Observation(s) eliminated by differencing	1

Autocorrelation Check for White Noise									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	2012.96	6	<.0001	-0.351	0.004	-0.167	0.306	-0.261	-0.018
12	2056.33	12	<.0001	0.020	0.052	-0.024	-0.026	0.040	-0.028
18	2123.49	18	<.0001	0.008	-0.054	0.053	-0.013	0.051	-0.042
24	2132.36	24	<.0001	0.026	-0.014	-0.011	-0.020	-0.002	0.001



The ARIMA Procedure

Conditional Least Squares Estimation					
Parameter	Estimate	Standard Error	t Value	Approx Pr > |t|	Lag
MU	-138.96211	1615.8	-0.09	0.9315	0
AR1,1	-0.35060	0.01168	-30.02	<.0001	1

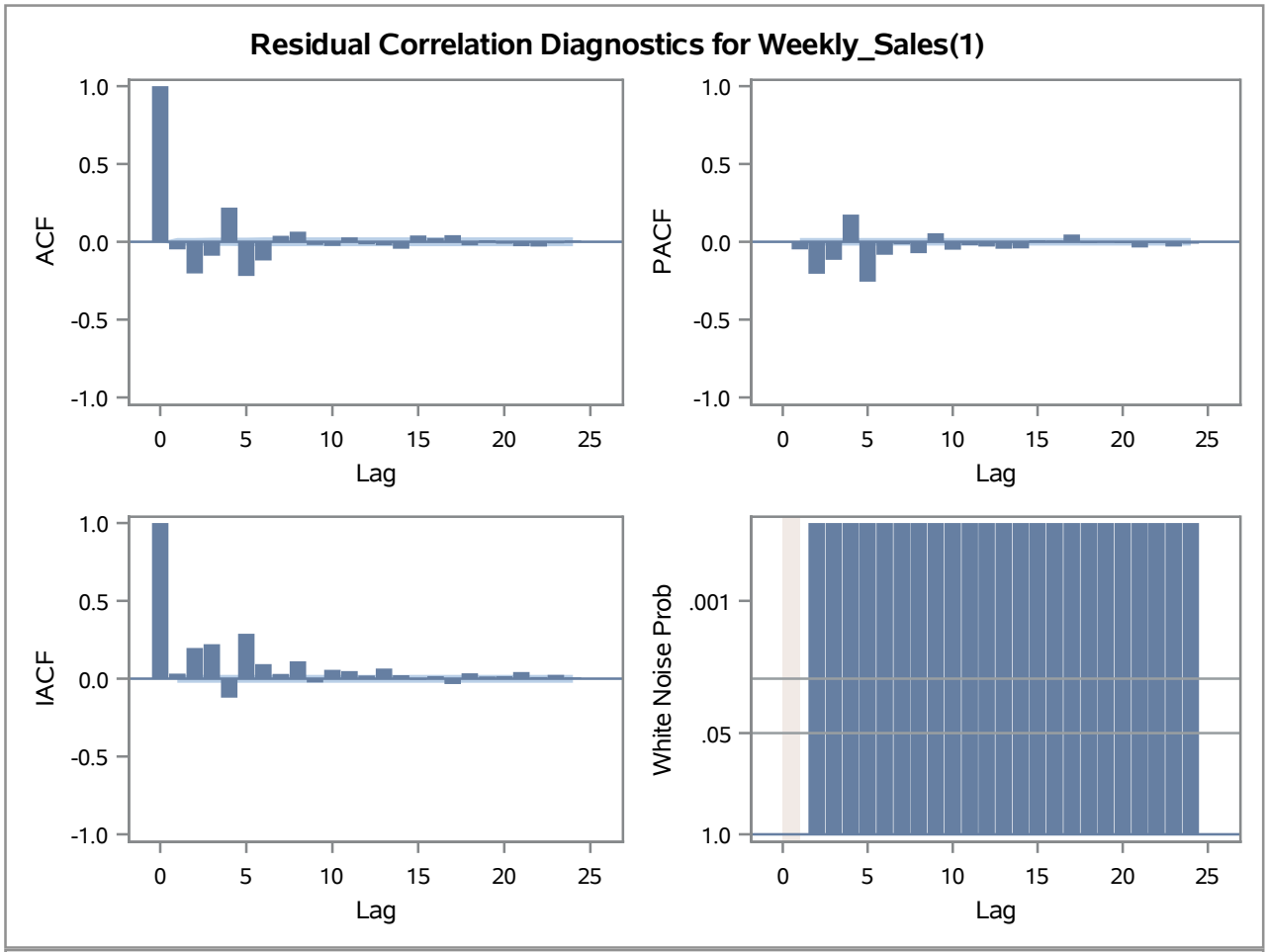
Constant Estimate	-187.682
Variance Estimate	3.064E10
Std Error Estimate	175043.6
AIC	173613.6
SBC	173627.1
Number of Residuals	6434

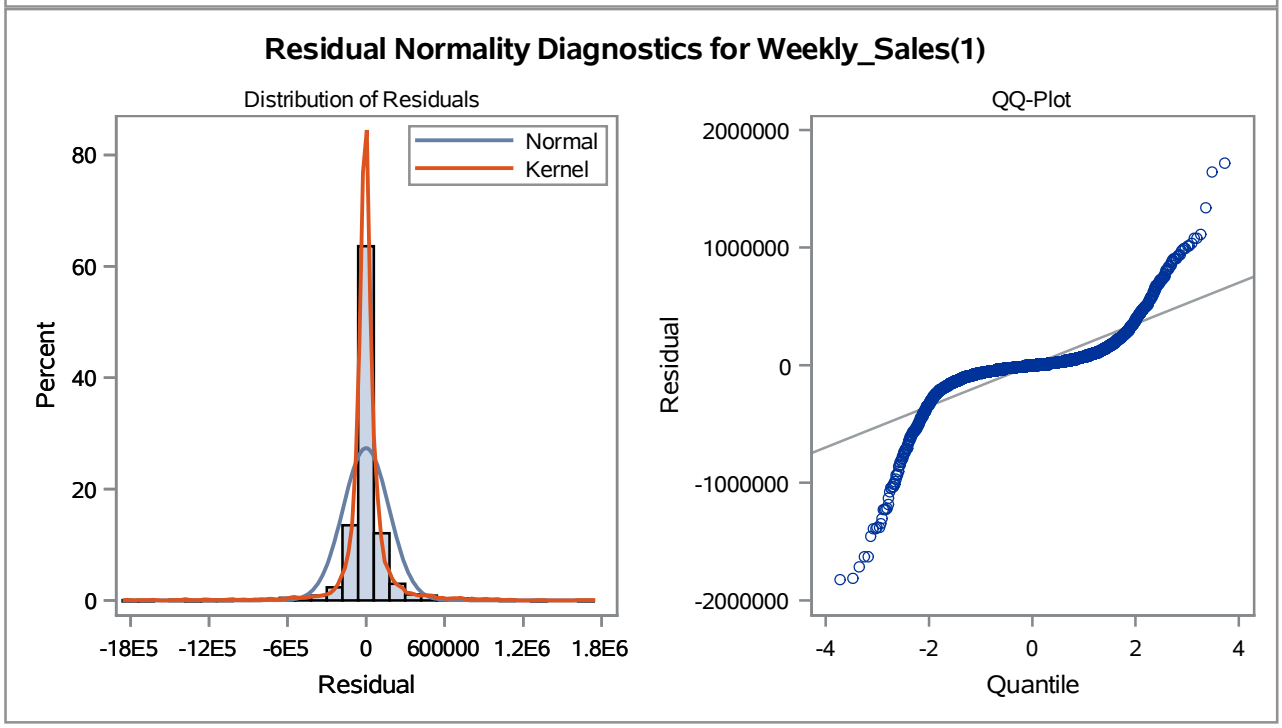
*** AIC and SBC do not include log determinant.**

Correlations of Parameter Estimates		
Parameter	MU	AR1,1
MU	1.000	0.000
AR1,1	0.000	1.000

Autocorrelation Check of Residuals									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	1043.36	5	<.0001	-0.048	-0.202	-0.090	0.220	-0.219	-0.119
12	1095.57	11	<.0001	0.039	0.066	-0.020	-0.027	0.029	-0.017
18	1142.95	17	<.0001	-0.023	-0.045	0.041	0.025	0.044	-0.023
24	1156.56	23	<.0001	0.011	-0.012	-0.028	-0.030	-0.010	0.009
30	1193.46	29	<.0001	0.034	0.027	-0.004	0.034	0.036	-0.037
36	1238.34	35	<.0001	-0.066	-0.008	-0.006	-0.005	0.050	-0.008
42	1282.76	41	<.0001	0.028	0.014	-0.047	-0.040	0.043	0.016
48	1680.01	47	<.0001	-0.029	0.075	0.062	-0.018	-0.202	0.100

The ARIMA Procedure





Model for variable Weekly_Sales	
Estimated Mean	-138.962
Period(s) of Differencing	1

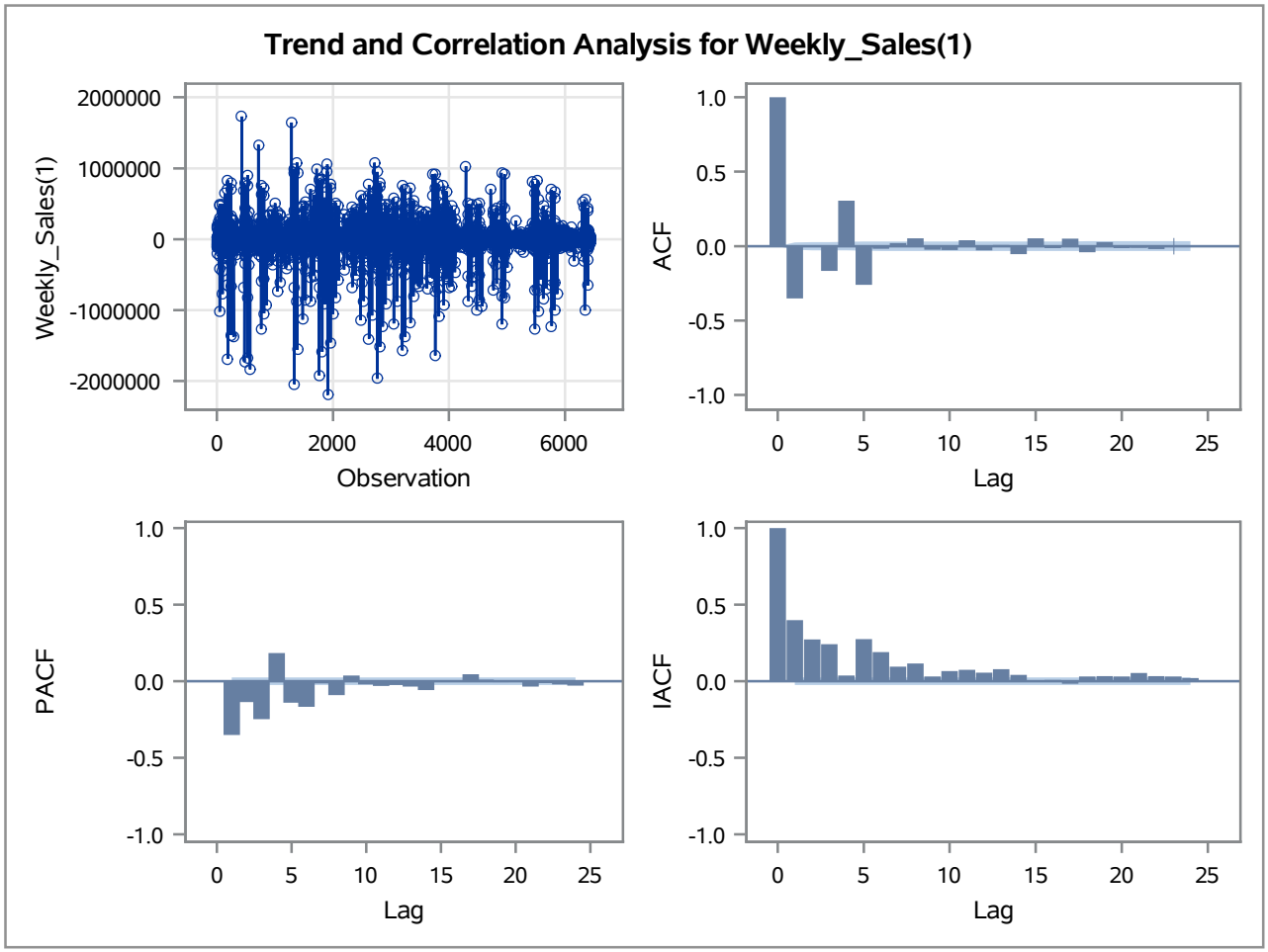
The ARIMA Procedure

Autoregressive Factors	
Factor 1:	1 + 0.3506 B**(1)

The ARIMA Procedure

Name of Variable = Weekly_Sales	
Period(s) of Differencing	1
Mean of Working Series	-137.303
Standard Deviation	186878.2
Number of Observations	6434
Observation(s) eliminated by differencing	1

Autocorrelation Check for White Noise									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	2012.96	6	<.0001	-0.351	0.004	-0.167	0.306	-0.261	-0.018
12	2056.33	12	<.0001	0.020	0.052	-0.024	-0.026	0.040	-0.028
18	2123.49	18	<.0001	0.008	-0.054	0.053	-0.013	0.051	-0.042
24	2132.36	24	<.0001	0.026	-0.014	-0.011	-0.020	-0.002	0.001



The ARIMA Procedure

Conditional Least Squares Estimation					
Parameter	Estimate	Standard Error	t Value	Approx Pr > |t|	Lag
MU	-135.46338	928.64801	-0.15	0.8840	0
MA1,1	0.66531	0.01812	36.73	<.0001	1
AR1,1	0.23250	0.02363	9.84	<.0001	1

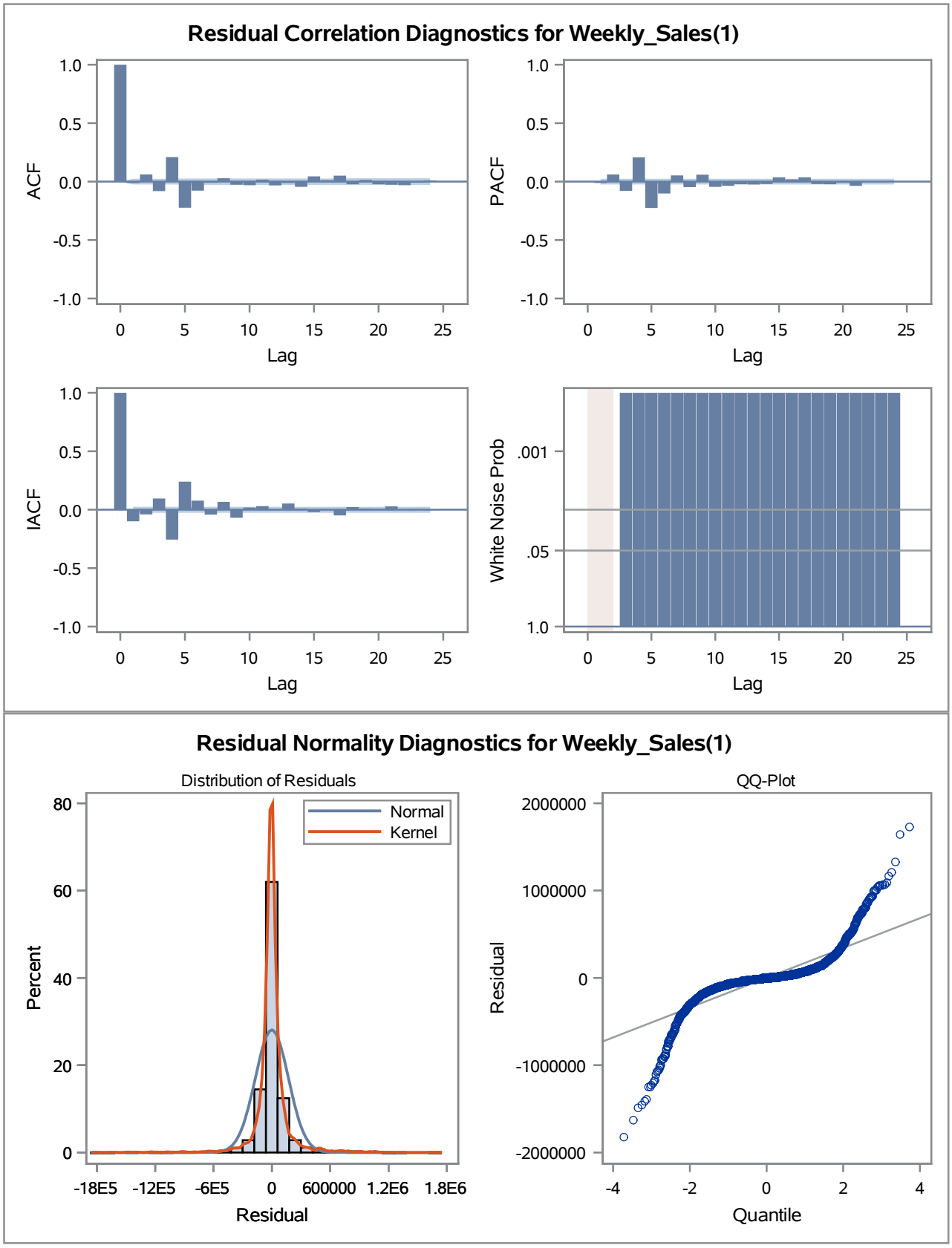
Constant Estimate	-103.968
Variance Estimate	2.916E10
Std Error Estimate	170776.2
AIC	173297
SBC	173317.3
Number of Residuals	6434

*** AIC and SBC do not include log determinant.**

Correlations of Parameter Estimates			
Parameter	MU	MA1,1	AR1,1
MU	1.000	-0.000	-0.000
MA1,1	-0.000	1.000	0.858
AR1,1	-0.000	0.858	1.000

Autocorrelation Check of Residuals									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	707.93	4	<.0001	-0.012	0.060	-0.081	0.210	-0.222	-0.077
12	732.64	10	<.0001	-0.011	0.030	-0.026	-0.030	0.017	-0.031
18	780.73	16	<.0001	-0.012	-0.044	0.046	0.013	0.052	-0.022
24	796.69	22	<.0001	0.013	-0.021	-0.027	-0.030	-0.007	0.011
30	834.49	28	<.0001	0.036	0.038	0.011	0.035	0.026	-0.033
36	878.08	34	<.0001	-0.060	-0.016	-0.010	-0.010	0.051	-0.007
42	908.59	40	<.0001	0.030	0.011	-0.031	-0.029	0.036	0.026
48	1279.43	46	<.0001	-0.016	0.072	0.018	0.005	-0.210	0.087

The ARIMA Procedure



Model for variable Weekly_Sales	
Estimated Mean	-135.463
Period(s) of Differencing	1

The ARIMA Procedure

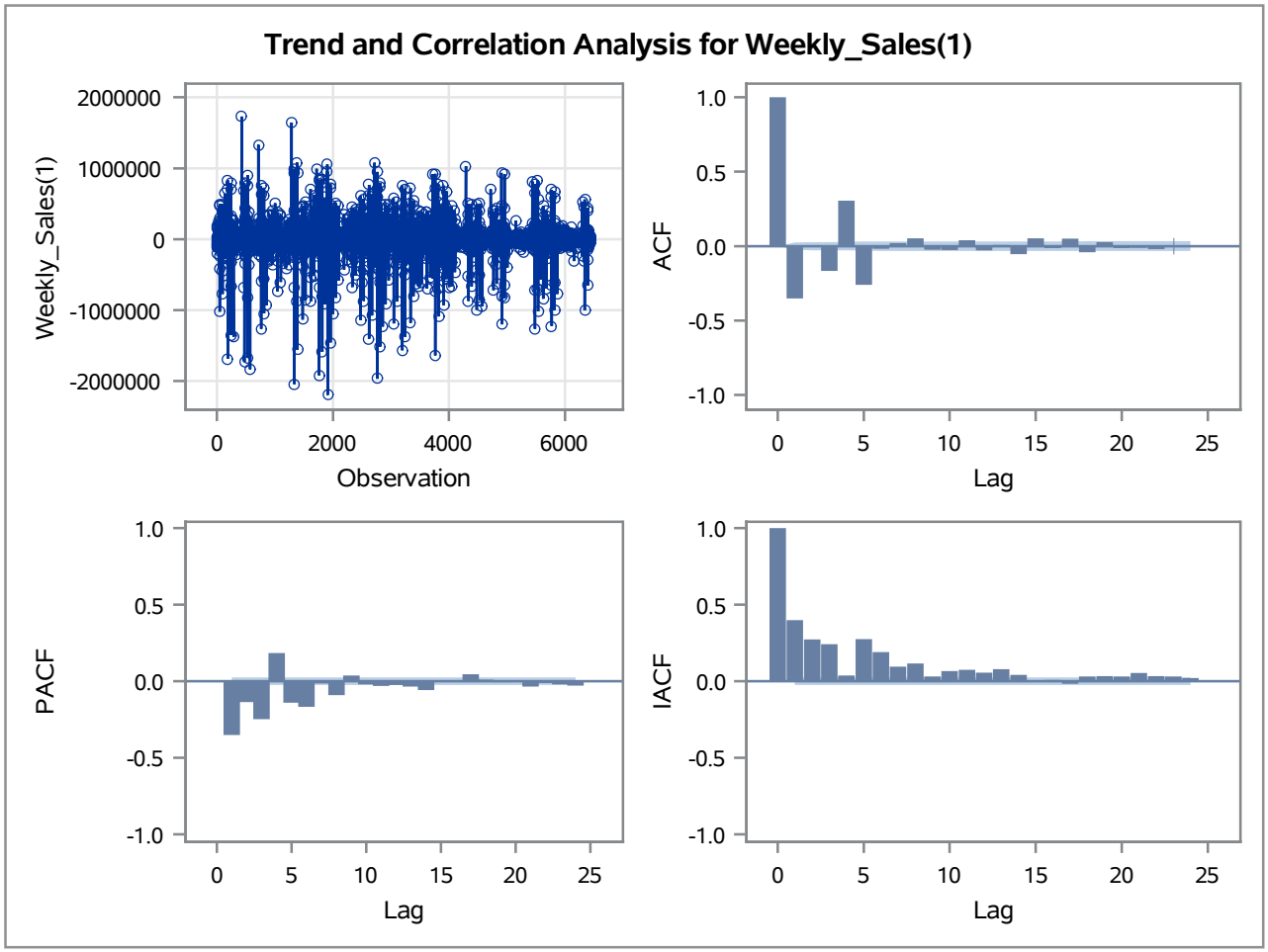
Autoregressive Factors	
Factor 1:	1 - 0.2325 B**(1)

Moving Average Factors	
Factor 1:	1 - 0.66531 B**(1)

The ARIMA Procedure

Name of Variable = Weekly_Sales	
Period(s) of Differencing	1
Mean of Working Series	-137.303
Standard Deviation	186878.2
Number of Observations	6434
Observation(s) eliminated by differencing	1

Autocorrelation Check for White Noise									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	2012.96	6	<.0001	-0.351	0.004	-0.167	0.306	-0.261	-0.018
12	2056.33	12	<.0001	0.020	0.052	-0.024	-0.026	0.040	-0.028
18	2123.49	18	<.0001	0.008	-0.054	0.053	-0.013	0.051	-0.042
24	2132.36	24	<.0001	0.026	-0.014	-0.011	-0.020	-0.002	0.001



The ARIMA Procedure

Conditional Least Squares Estimation					
Parameter	Estimate	Standard Error	t Value	Approx Pr > |t|	Lag
MU	-133.26183	762.92287	-0.17	0.8613	0
MA1,1	0.82328	0.01785	46.13	<.0001	1
AR1,1	0.37738	0.02248	16.79	<.0001	1
AR1,2	0.13122	0.01682	7.80	<.0001	2

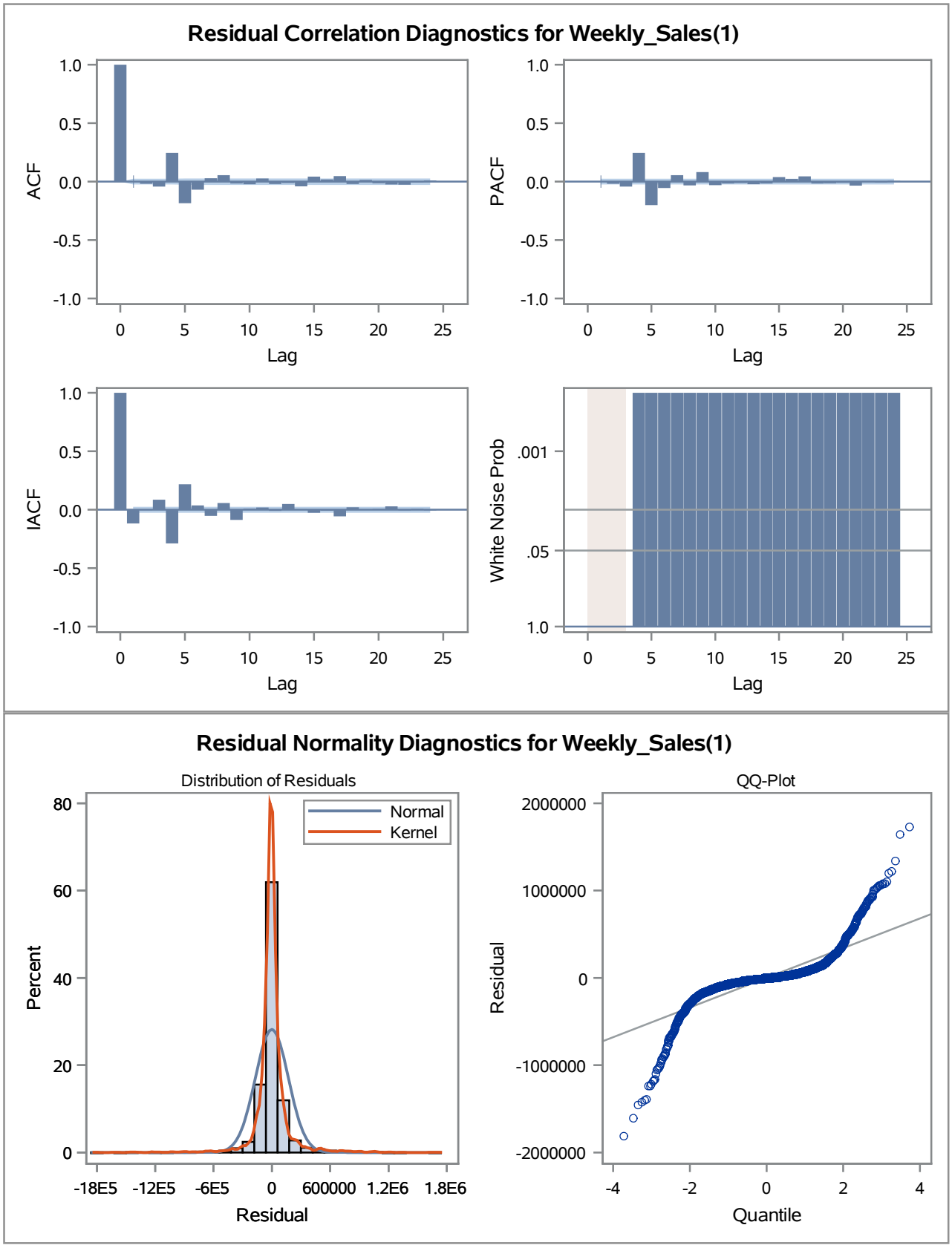
Constant Estimate	-65.4843
Variance Estimate	2.895E10
Std Error Estimate	170139.3
AIC	173249.9
SBC	173277
Number of Residuals	6434

*** AIC and SBC do not include log determinant.**

Correlations of Parameter Estimates				
Parameter	MU	MA1,1	AR1,1	AR1,2
MU	1.000	-0.000	-0.000	-0.000
MA1,1	-0.000	1.000	0.835	0.678
AR1,1	-0.000	0.835	1.000	0.391
AR1,2	-0.000	0.678	0.391	1.000

Autocorrelation Check of Residuals									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	652.48	3	<.0001	0.001	-0.019	-0.043	0.245	-0.185	-0.068
12	689.62	9	<.0001	0.029	0.056	-0.015	-0.022	0.027	-0.020
18	732.69	15	<.0001	-0.013	-0.041	0.044	0.018	0.047	-0.021
24	744.10	21	<.0001	0.014	-0.014	-0.023	-0.026	-0.005	0.011
30	779.12	27	<.0001	0.035	0.033	0.005	0.034	0.031	-0.031
36	817.57	33	<.0001	-0.058	-0.009	-0.006	-0.007	0.049	-0.007
42	850.55	39	<.0001	0.029	0.014	-0.034	-0.030	0.039	0.021
48	1204.44	45	<.0001	-0.023	0.069	0.036	-0.003	-0.197	0.095

The ARIMA Procedure



Model for variable Weekly_Sales	
Estimated Mean	-133.262
Period(s) of Differencing	1

The ARIMA Procedure

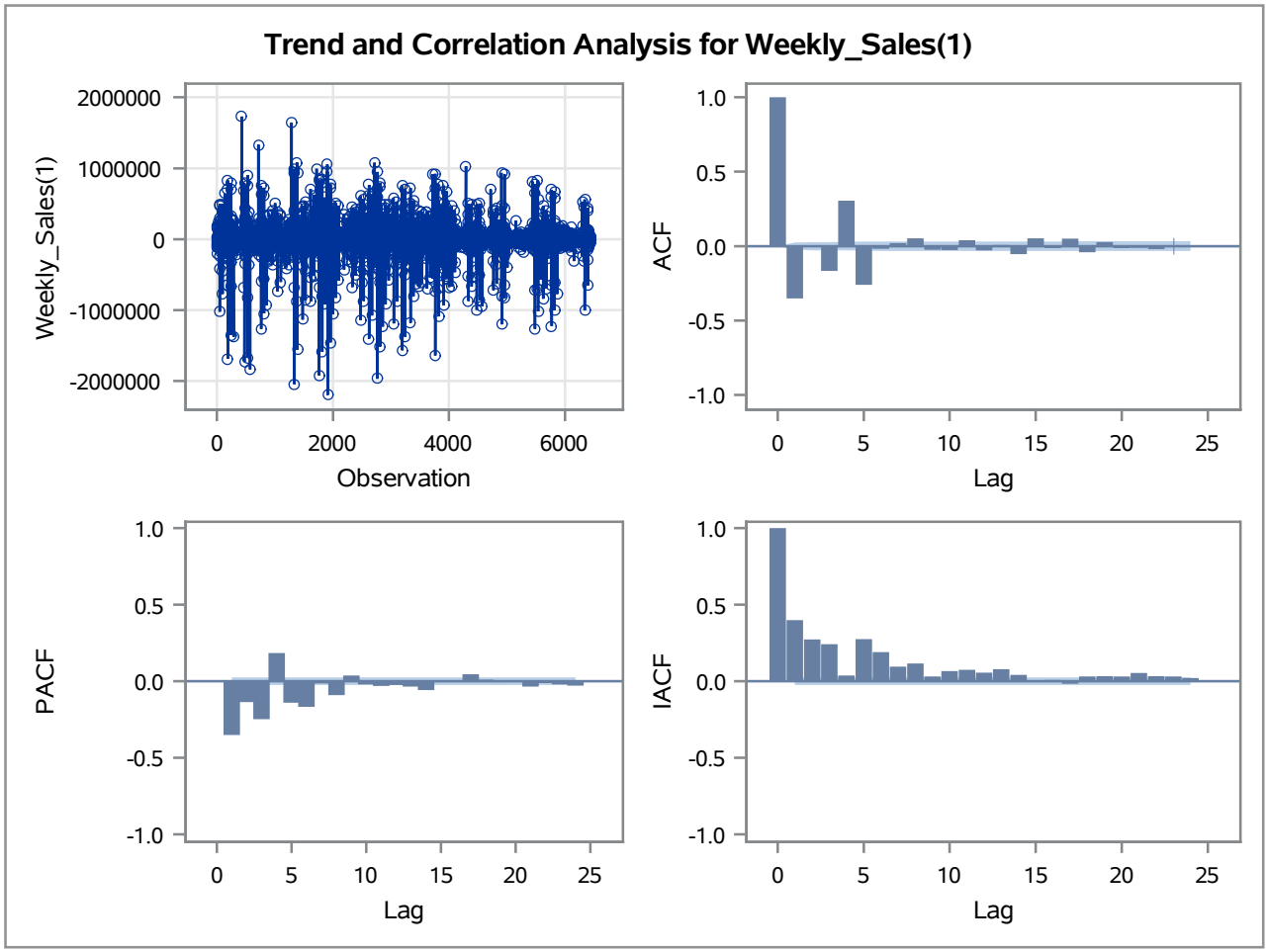
Autoregressive Factors	
Factor 1:	1 - 0.37738 B**(1) - 0.13122 B**(2)

Moving Average Factors	
Factor 1:	1 - 0.82328 B**(1)

The ARIMA Procedure

Name of Variable = Weekly_Sales	
Period(s) of Differencing	1
Mean of Working Series	-137.303
Standard Deviation	186878.2
Number of Observations	6434
Observation(s) eliminated by differencing	1

Autocorrelation Check for White Noise									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	2012.96	6	<.0001	-0.351	0.004	-0.167	0.306	-0.261	-0.018
12	2056.33	12	<.0001	0.020	0.052	-0.024	-0.026	0.040	-0.028
18	2123.49	18	<.0001	0.008	-0.054	0.053	-0.013	0.051	-0.042
24	2132.36	24	<.0001	0.026	-0.014	-0.011	-0.020	-0.002	0.001



Error: The estimation algorithm did not converge after 50 iterations.

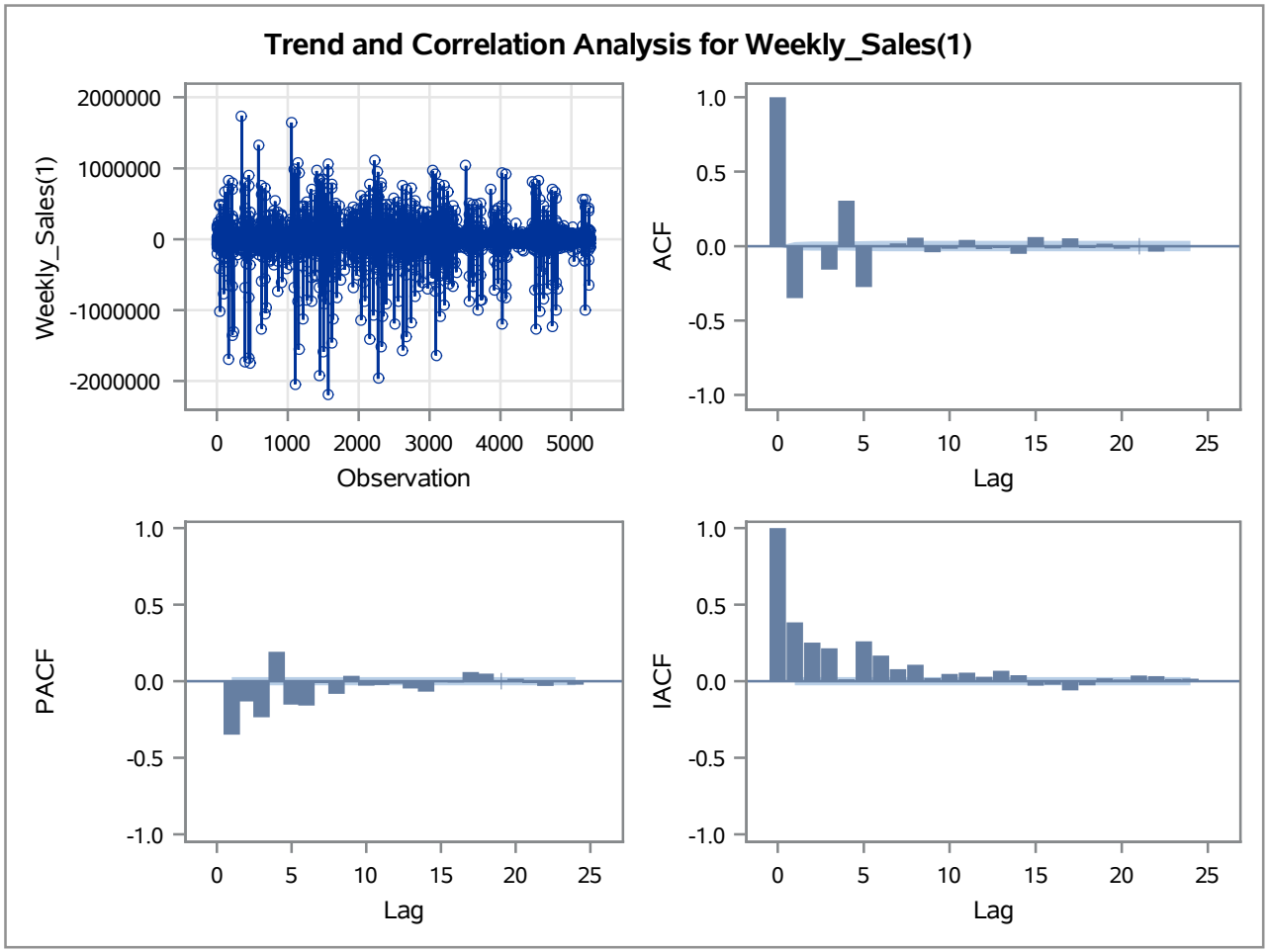
The ARIMA Procedure

ARIMA Estimation Optimization Summary	
Estimation Method	Conditional Least Squares
Parameters Estimated	5
Termination Criteria	Maximum Relative Change in Estimates
Iteration Stopping Value	0.001
Criteria Value	0.027967
Alternate Criteria	Relative Change in Objective Function
Alternate Criteria Value	6.402E-9
Maximum Absolute Value of Gradient	4.454E10
R-Square Change from Last Iteration	0.000809
Objective Function	Sum of Squared Residuals
Objective Function Value	1.814E14
Marquardt's Lambda Coefficient	0.001
Numerical Derivative Perturbation Delta	0.001
Iterations	50
Warning Message	The estimation algorithm did not converge.

The ARIMA Procedure

Name of Variable = Weekly_Sales	
Period(s) of Differencing	1
Mean of Working Series	-177.074
Standard Deviation	203192.9
Number of Observations	5264
Observation(s) eliminated by differencing	1

Autocorrelation Check for White Noise									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	1667.12	6	<.0001	-0.350	0.006	-0.158	0.304	-0.276	-0.004
12	1707.43	12	<.0001	0.018	0.057	-0.041	-0.017	0.041	-0.020
18	1759.57	18	<.0001	-0.014	-0.052	0.062	-0.015	0.053	-0.013
24	1769.89	24	<.0001	0.016	-0.017	-0.002	-0.036	0.006	-0.006



The ARIMA Procedure

Conditional Least Squares Estimation					
Parameter	Estimate	Standard Error	t Value	Approx Pr > |t|	Lag
MU	-162.86471	1182.3	-0.14	0.8904	0
MA1,1	0.63493	0.02155	29.46	<.0001	1
AR1,1	0.20722	0.02732	7.59	<.0001	1

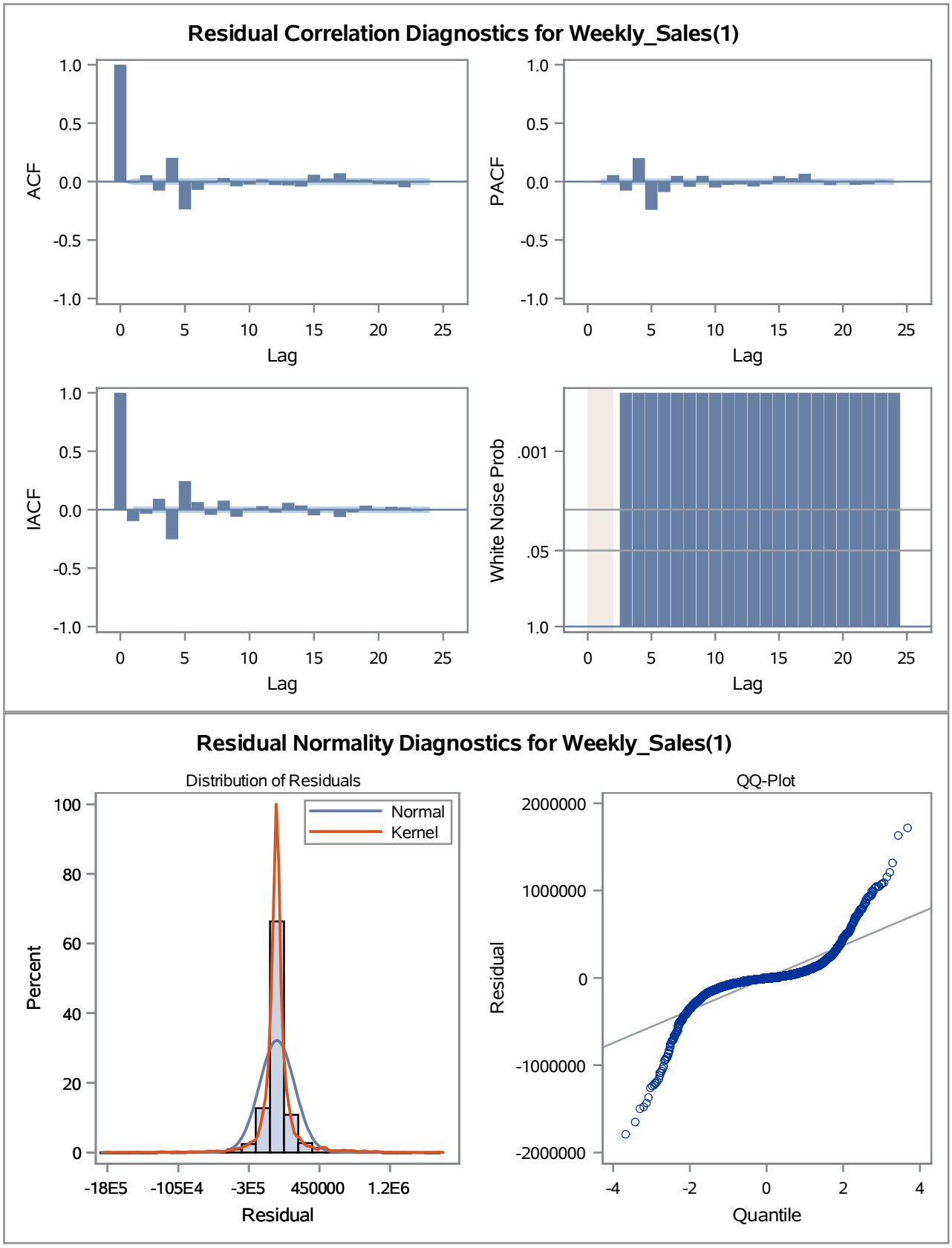
Constant Estimate	-129.116
Variance Estimate	3.468E10
Std Error Estimate	186231.1
AIC	142696.2
SBC	142715.9
Number of Residuals	5264

*** AIC and SBC do not include log determinant.**

Correlations of Parameter Estimates			
Parameter	MU	MA1,1	AR1,1
MU	1.000	0.000	0.000
MA1,1	0.000	1.000	0.870
AR1,1	0.000	0.870	1.000

Autocorrelation Check of Residuals									
To Lag	Chi-Square	DF	Pr > ChiSq	Autocorrelations					
6	588.04	4	<.0001	-0.010	0.055	-0.077	0.204	-0.237	-0.070
12	611.86	10	<.0001	-0.012	0.031	-0.040	-0.025	0.019	-0.028
18	675.83	16	<.0001	-0.032	-0.042	0.058	0.025	0.071	0.016
24	695.34	22	<.0001	0.019	-0.020	-0.023	-0.048	-0.011	-0.004
30	728.63	28	<.0001	0.029	-0.014	0.038	0.010	0.021	-0.057
36	752.46	34	<.0001	-0.038	-0.020	-0.001	-0.031	0.039	0.013
42	775.91	40	<.0001	0.017	0.021	-0.041	0.005	0.026	0.036
48	1112.34	46	<.0001	-0.060	0.040	0.011	0.025	-0.227	0.077

The ARIMA Procedure



Model for variable Weekly_Sales	
Estimated Mean	-162.865
Period(s) of Differencing	1

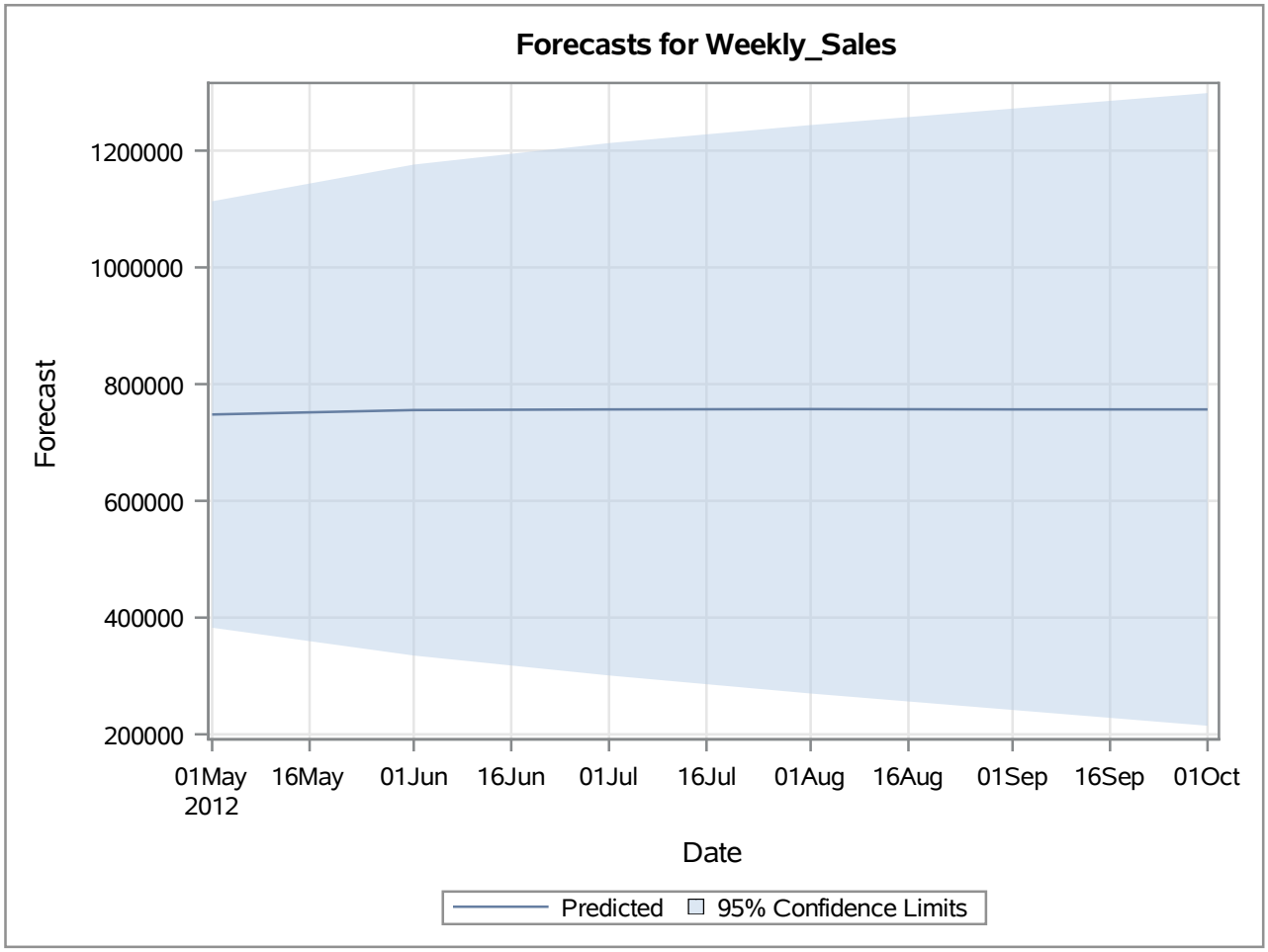
The ARIMA Procedure

Warning: The ID value for observation 5259 is the same as the ID value for the last observation according to ID variable DATE.
Warning: The ID value for observation 5260 is the same as the ID value for the last observation according to ID variable DATE.

Warning: The ID value for observation 5261 is the same as the ID value for the last observation according to ID variable DATE.

Warning: The ID value for observation 5263 is the same as the ID value for the last observation according to ID variable DATE.

Warning: The ID value for observation 5264 is the same as the ID value for the last observation according to ID variable DATE.

Warning: The ID value for observation 5265 is the same as the ID value for the last observation according to ID variable DATE.

Forecasts for variable Weekly_Sales				
Obs	Forecast	Std Error	95% Confidence Limits	
5266	748011.1	186231	383004.9	1113017.3
5267	755432.8	214572	334880.2	1175985.4
5268	756841.6	232710	300737.5	1212945.6
5269	757004.4	248320	270306.0	1243702.8
5270	756909.0	262772	241884.8	1271933.2
5271	756760.1	276424	214978.3	1298541.9