The SAS System

The VARMAX Procedure

Number of Observations	131
Number of Pairwise Missing	0
Observation(s) eliminated by differencing	1

Simple Summary Statistics

Variable	Type	N	Mean	Standard Deviation	Min	Max	Difference
Gasoline_Gallons	Dependent	131	723803.41985	30065616.647	-79753277.00	144221507.00	1
Diesel_Gallons	Dependent	131	33238.44275	8372156.1562	-25619284.00	44502244.000	1
Kerosene_Gallons	Dependent	131	-98.13740	274749.51108	-982820.0000	1042463.0000	1

Granger-Causality Wald Test

Test	DF	Chi-Square	Pr > ChiSq
1	4	10.05	0.0395

Test 1: Group 1 Variables:	Gasoline_Gallons
Group 2 Variables:	Diesel_Gallons Kerosene_Gallons

The SAS System

The VARMAX Procedure

Type of Model	VAR(2)
Estimation Method	Least Squares Estimation

Constant Estimates	
Variable	**Constant**
Gasoline_Gallons	564533.58428
Diesel_Gallons	-169765.1795
Kerosene_Gallons	3219.20363

AR Coefficient Estimates				
Lag	**Variable**	**Gasoline_Gallons**	**Diesel_Gallons**	**Kerosene_Gallons**
1	**Gasoline_Gallons**	-0.17766	-1.32776	-5.58738
	Diesel_Gallons	0.08929	-0.93535	-2.78610
	Kerosene_Gallons	-0.00274	0.00116	0.14133
2	**Gasoline_Gallons**	0.14441	-0.97562	-10.79713
	Diesel_Gallons	0.09594	-0.48681	-6.02674
	Kerosene_Gallons	-0.00043	-0.00280	-0.04126

Schematic Representation of Parameter Estimates			
Variable/Lag	**C**	**AR1**	**AR2**
Gasoline_Gallons	.	.-.	.-.
Diesel_Gallons	.	+-.	+--
Kerosene_Gallons	.	-..	...
+ is > 2*std error, - is < -2*std error, . is between, * is N/A			

Model Parameter Estimates						
Equation	**Parameter**	**Estimate**	**Standard Error**	**t Value**	**Pr > |t|**	**Variable**
Gasoline_Gallons	**CONST1**	564533.58428	2229360.5878	0.25	0.8005	1
	AR1_1_1	-0.17766	0.12262	-1.45	0.1499	Gasoline_Gallons(t-1)
	AR1_1_2	-1.32776	0.45264	-2.93	0.0040	Diesel_Gallons(t-1)
	AR1_1_3	-5.58738	9.02384	-0.62	0.5370	Kerosene_Gallons(t-1)
	AR2_1_1	0.14441	0.12045	1.20	0.2329	Gasoline_Gallons(t-2)
	AR2_1_2	-0.97562	0.45046	-2.17	0.0323	Diesel_Gallons(t-2)
	AR2_1_3	-10.79713	8.43647	-1.28	0.2030	Kerosene_Gallons(t-2)
Diesel_Gallons	**CONST2**	-169765.1795	581325.97082	-0.29	0.7708	1

	AR1_2_1	0.08929	0.03198	2.79	0.0061	Gasoline_Gallons(t-1)
	AR1_2_2	-0.93535	0.11803	-7.92	0.0001	Diesel_Gallons(t-1)
	AR1_2_3	-2.78610	2.35305	-1.18	0.2387	Kerosene_Gallons(t-1)
	AR2_2_1	0.09594	0.03141	3.05	0.0028	Gasoline_Gallons(t-2)
	AR2_2_2	-0.48681	0.11746	-4.14	0.0001	Diesel_Gallons(t-2)
	AR2_2_3	-6.02674	2.19988	-2.74	0.0071	Kerosene_Gallons(t-2)
Kerosene_Gallons	CONST3	3219.20363	23804.04328	0.14	0.8926	1
	AR1_3_1	-0.00274	0.00131	-2.09	0.0383	Gasoline_Gallons(t-1)
	AR1_3_2	0.00116	0.00483	0.24	0.8114	Diesel_Gallons(t-1)
	AR1_3_3	0.14133	0.09635	1.47	0.1450	Kerosene_Gallons(t-1)
	AR2_3_1	-0.00043	0.00129	-0.34	0.7370	Gasoline_Gallons(t-2)
	AR2_3_2	-0.00280	0.00481	-0.58	0.5622	Diesel_Gallons(t-2)
	AR2_3_3	-0.04126	0.09008	-0.46	0.6477	Kerosene_Gallons(t-2)

Covariances of Innovations			
Variable	Gasoline_Gallons	Diesel_Gallons	Kerosene_Gallons
Gasoline_Gallons	6.3513917E14	1.1604414E14	-2.57886E12
Diesel_Gallons	1.1604414E14	4.3186471E13	-6.155058E11
Kerosene_Gallons	-2.57886E12	-6.155058E11	72411863593

Log-likelihood	-5964.5

Information Criteria	
AICC	11997.97
HQC	12014.38
AIC	11983
SBC	12060.22
FPEC	9.98E38

Cross Covariances of Residuals				
Lag	Variable	Gasoline_Gallons	Diesel_Gallons	Kerosene_Gallons
0	Gasoline_Gallons	6.0067426E14	1.0974717E14	-2.438922E12
	Diesel_Gallons	1.0974717E14	4.0843019E13	-5.821063E11
	Kerosene_Gallons	-2.438922E12	-5.821063E11	68482537662
1	Gasoline_Gallons	-4.928796E13	-8.388858E12	-4.116211E11
	Diesel_Gallons	-3.0322E12	-1.138904E12	-56303485387
	Kerosene_Gallons	117050337086	21279117054	-588945026.5
2	Gasoline_Gallons	1.2090363E13	-1.494116E12	-87331560703
	Diesel_Gallons	-1.311681E12	-3.146464E12	56580753458

	Kerosene_Gallons	-1.430963E11	-72943788712	1588021769.8
3	Gasoline_Gallons	2.1145275E12	-9.770635E12	-4.75474E11
	Diesel_Gallons	-8.863047E12	-1.114535E13	57915128424
	Kerosene_Gallons	750928265840	386532526005	-16492332113

Cross Covariances of Residuals by Variable

Variable	Lag	Gasoline_Gallons	Diesel_Gallons	Kerosene_Gallons
Gasoline_Gallons	0	6.0067426E14	1.0974717E14	-2.438922E12
	1	-4.928796E13	-8.388858E12	-4.116211E11
	2	1.2090363E13	-1.494116E12	-87331560703
	3	2.1145275E12	-9.770635E12	-4.75474E11
Diesel_Gallons	0	1.0974717E14	4.0843019E13	-5.821063E11
	1	-3.0322E12	-1.138904E12	-56303485387
	2	-1.311681E12	-3.146464E12	56580753458
	3	-8.863047E12	-1.114535E13	57915128424
Kerosene_Gallons	0	-2.438922E12	-5.821063E11	68482537662
	1	117050337086	21279117054	-588945026.5
	2	-1.430963E11	-72943788712	1588021769.8
	3	750928265840	386532526005	-16492332113

Cross Correlations of Residuals

Lag	Variable	Gasoline_Gallons	Diesel_Gallons	Kerosene_Gallons
0	Gasoline_Gallons	1.00000	0.70067	-0.38027
	Diesel_Gallons	0.70067	1.00000	-0.34806
	Kerosene_Gallons	-0.38027	-0.34806	1.00000
1	Gasoline_Gallons	-0.08205	-0.05356	-0.06418
	Diesel_Gallons	-0.01936	-0.02788	-0.03367
	Kerosene_Gallons	0.01825	0.01272	-0.00860
2	Gasoline_Gallons	0.02013	-0.00954	-0.01362
	Diesel_Gallons	-0.00837	-0.07704	0.03383
	Kerosene_Gallons	-0.02231	-0.04362	0.02319
3	Gasoline_Gallons	0.00352	-0.06238	-0.07413
	Diesel_Gallons	-0.05659	-0.27288	0.03463
	Kerosene_Gallons	0.11708	0.23112	-0.24083

Cross Correlations of Residuals by Variable

Variable	Lag	Gasoline_Gallons	Diesel_Gallons	Kerosene_Gallons
Gasoline_Gallons	0	1.00000	0.70067	-0.38027
	1	-0.08205	-0.05356	-0.06418

	2	0.02013	-0.00954	-0.01362
	3	0.00352	-0.06238	-0.07413
Diesel_Gallons	0	0.70067	1.00000	-0.34806
	1	-0.01936	-0.02788	-0.03367
	2	-0.00837	-0.07704	0.03383
	3	-0.05659	-0.27288	0.03463
Kerosene_Gallons	0	-0.38027	-0.34806	1.00000
	1	0.01825	0.01272	-0.00860
	2	-0.02231	-0.04362	0.02319
	3	0.11708	0.23112	-0.24083

Schematic Representation of Cross Correlations of Residuals

Variable/Lag	0	1	2	3
Gasoline_Gallons	++−	. . .	. . .	. . .
Diesel_Gallons	++−	. . .	. . .	.−.
Kerosene_Gallons	−−+	. . .	. . .	.+−

+ is > 2*std error, - is < -2*std error, . is between

Portmanteau Test for Cross Correlations of Residuals

Up To Lag	DF	Chi-Square	Pr > ChiSq
3	9	39.29	<.0001

Univariate Model ANOVA Diagnostics

Variable	R-Square	Standard Deviation	F Value	Pr > F
Gasoline_Gallons	0.2383	25201967.680	6.36	<.0001
Diesel_Gallons	0.4186	6571641.3973	14.64	<.0001
Kerosene_Gallons	0.0992	269094.52539	2.24	0.0439

Univariate Model White Noise Diagnostics

Variable	Durbin Watson	Normality		ARCH	
		Chi-Square	Pr > ChiSq	F Value	Pr > F
Gasoline_Gallons	2.08117	31.81	<.0001	1.61	0.2073
Diesel_Gallons	2.03218	66.08	<.0001	3.69	0.0569
Kerosene_Gallons	1.98598	44.75	<.0001	3.31	0.0714

Univariate Model AR Diagnostics

Variable	AR1		AR2		AR3		AR4	
	F Value	Pr > F	F Value	Pr > F	F Value	Pr > F	F Value	Pr > F

Gasoline_Gallons	0.93	0.3365	1.41	0.2479	1.06	0.3674	1.42	0.2307
Diesel_Gallons	0.10	0.7515	0.53	0.5897	4.14	0.0078	7.45	<.0001
Kerosene_Gallons	0.01	0.9220	0.09	0.9109	2.69	0.0496	2.01	0.0977

Simple Impulse Response

Lag	Variable Response\Impulse	Gasoline_Gallons	Diesel_Gallons	Kerosene_Gallons
1	Gasoline_Gallons	-0.17766	-1.32776	-5.58738
	STD	0.12262	0.45264	9.02384
	Diesel_Gallons	0.08929	-0.93535	-2.78610
	STD	0.03198	0.11803	2.35305
	Kerosene_Gallons	-0.00274	0.00116	0.14133
	STD	0.00131	0.00483	0.09635
2	Gasoline_Gallons	0.07273	0.49574	-6.89488
	STD	0.11956	0.47045	9.34937
	Diesel_Gallons	0.00420	0.26629	-4.31343
	STD	0.03552	0.14224	2.76290
	Kerosene_Gallons	-0.00023	-0.00007	-0.00919
	STD	0.00121	0.00424	0.09273
3	Gasoline_Gallons	-0.10038	0.26709	7.38881
	STD	0.09600	0.43226	3.99956
	Diesel_Gallons	-0.04078	0.11637	3.41296
	STD	0.03254	0.13995	1.59997
	Kerosene_Gallons	-0.00029	0.00208	0.01699
	STD	0.00053	0.00264	0.04274

Simple Impulse Response by Variable

Variable Response\Impulse	Lag	Gasoline_Gallons	Diesel_Gallons	Kerosene_Gallons
Gasoline_Gallons	1	-0.17766	-1.32776	-5.58738
	STD	0.12262	0.45264	9.02384
	2	0.07273	0.49574	-6.89488
	STD	0.11956	0.47045	9.34937
	3	-0.10038	0.26709	7.38881
	STD	0.09600	0.43226	3.99956
Diesel_Gallons	1	0.08929	-0.93535	-2.78610
	STD	0.03198	0.11803	2.35305
	2	0.00420	0.26629	-4.31343
	STD	0.03552	0.14224	2.76290

	3	-0.04078	0.11637	3.41296
	STD	0.03254	0.13995	1.59997
Kerosene_Gallons	1	-0.00274	0.00116	0.14133
	STD	0.00131	0.00483	0.09635
	2	-0.00023	-0.00007	-0.00919
	STD	0.00121	0.00424	0.09273
	3	-0.00029	0.00208	0.01699
	STD	0.00053	0.00264	0.04274

Decomposition of Prediction Error Covariances

Lead	Variable	Gasoline_Gallons	Diesel_Gallons	Kerosene_Gallons
1	Gasoline_Gallons	6.3513917E14	0.00000	0.00000
	Diesel_Gallons	2.1202032E13	2.1984438E13	0.00000
	Kerosene_Gallons	10470963629	947553512.74	60993346451
2	Gasoline_Gallons	7.3552897E14	3.6645443E13	1.9041393E12
	Diesel_Gallons	2.4340198E13	4.0473238E13	473450533917
	Kerosene_Gallons	16591119393	948692699.06	62211701855
3	Gasoline_Gallons	7.5877277E14	4.308001E13	4.8037215E12
	Diesel_Gallons	2.7485162E13	4.2381382E13	1.608275E12
	Kerosene_Gallons	16618112257	948696120.75	62216850246
4	Gasoline_Gallons	7.6300023E14	4.4130365E13	8.1336233E12
	Diesel_Gallons	2.8192849E13	4.2575504E13	2.3187431E12
	Kerosene_Gallons	16618490846	1033886031.1	62234465860
5	Gasoline_Gallons	7.632512E14	4.7368157E13	8.5546975E12
	Diesel_Gallons	2.8246727E13	4.3176193E13	2.3907094E12
	Kerosene_Gallons	16622810959	1069324914.2	62234605098
6	Gasoline_Gallons	7.6326851E14	4.8369173E13	8.5728551E12
	Diesel_Gallons	2.8248487E13	4.3343532E13	2.3954159E12
	Kerosene_Gallons	16626113700	1070624227.0	62237836524

Decomposition of Prediction Error Covariances by Variable

Variable	Lead	Gasoline_Gallons	Diesel_Gallons	Kerosene_Gallons
Gasoline_Gallons	1	6.3513917E14	0.00000	0.00000
	2	7.3552897E14	3.6645443E13	1.9041393E12
	3	7.5877277E14	4.308001E13	4.8037215E12
	4	7.6300023E14	4.4130365E13	8.1336233E12
	5	7.632512E14	4.7368157E13	8.5546975E12
	6	7.6326851E14	4.8369173E13	8.5728551E12
Diesel_Gallons	1	2.1202032E13	2.1984438E13	0.00000

	2	2.4340198E13	4.0473238E13	473450533917
	3	2.7485162E13	4.2381382E13	1.608275E12
	4	2.8192849E13	4.2575504E13	2.3187431E12
	5	2.8246727E13	4.3176193E13	2.3907094E12
	6	2.8248487E13	4.3343532E13	2.3954159E12
Kerosene_Gallons	1	10470963629	947553512.74	60993346451
	2	16591119393	948692699.06	62211701855
	3	16618112257	948696120.75	62216850246
	4	16618490846	1033886031.1	62234465860
	5	16622810959	1069324914.2	62234605098
	6	16626113700	1070624227.0	62237836524

Proportions of Prediction Error Covariances				
Lead	Variable	Gasoline_Gallons	Diesel_Gallons	Kerosene_Gallons
1	Gasoline_Gallons	1.00000	0.00000	0.00000
	Diesel_Gallons	0.49094	0.50906	0.00000
	Kerosene_Gallons	0.14460	0.01309	0.84231
2	Gasoline_Gallons	0.95020	0.04734	0.00246
	Diesel_Gallons	0.37282	0.61993	0.00725
	Kerosene_Gallons	0.20804	0.01190	0.78007
3	Gasoline_Gallons	0.94064	0.05341	0.00596
	Diesel_Gallons	0.38454	0.59296	0.02250
	Kerosene_Gallons	0.20829	0.01189	0.77982
4	Gasoline_Gallons	0.93589	0.05413	0.00998
	Diesel_Gallons	0.38574	0.58253	0.03173
	Kerosene_Gallons	0.20803	0.01294	0.77903
5	Gasoline_Gallons	0.93173	0.05782	0.01044
	Diesel_Gallons	0.38268	0.58494	0.03239
	Kerosene_Gallons	0.20798	0.01338	0.77865
6	Gasoline_Gallons	0.93058	0.05897	0.01045
	Diesel_Gallons	0.38180	0.58582	0.03238
	Kerosene_Gallons	0.20800	0.01339	0.77861

Proportions of Prediction Error Covariances by Variable				
Variable	Lead	Gasoline_Gallons	Diesel_Gallons	Kerosene_Gallons
Gasoline_Gallons	1	1.00000	0.00000	0.00000
	2	0.95020	0.04734	0.00246
	3	0.94064	0.05341	0.00596
	4	0.93589	0.05413	0.00998

	5	0.93173	0.05782	0.01044
	6	0.93058	0.05897	0.01045
Diesel_Gallons	1	0.49094	0.50906	0.00000
	2	0.37282	0.61993	0.00725
	3	0.38454	0.59296	0.02250
	4	0.38574	0.58253	0.03173
	5	0.38268	0.58494	0.03239
	6	0.38180	0.58582	0.03238
Kerosene_Gallons	1	0.14460	0.01309	0.84231
	2	0.20804	0.01190	0.78007
	3	0.20829	0.01189	0.77982
	4	0.20803	0.01294	0.77903
	5	0.20798	0.01338	0.77865
	6	0.20800	0.01339	0.77861

Forecasts

Variable	Obs	Time	Forecast	Standard Error	95% Confidence Limits	
Gasoline_Gallons	133	AUG2009	374118852.21	25201967.680	324723903.21	423513801.20
	134	SEP2009	378559224.05	30069868.076	319623365.60	437495082.50
	135	OCT2009	379974744.20	36417247.692	308598250.31	451351238.10
	136	NOV2009	378333715.35	40695514.053	298571973.47	458095457.22
	137	DEC2009	380315194.17	44928014.655	292257903.55	468372484.79
Diesel_Gallons	133	AUG2009	71084880.454	6571641.3973	58204699.996	83965060.912
	134	SEP2009	73139399.136	7199826.5489	59027998.405	87250799.867
	135	OCT2009	73469110.691	8903104.0257	56019347.450	90918873.932
	136	NOV2009	72461803.223	9957866.1823	52944744.143	91978862.303
	137	DEC2009	73007900.091	10889853.693	51664179.055	94351621.126
Kerosene_Gallons	133	AUG2009	54137.01086	269094.52539	-473278.5673	581552.58906
	134	SEP2009	62018.19242	430521.76209	-781788.9558	905825.34068
	135	OCT2009	74188.69346	546734.63939	-997391.5089	1145768.8958
	136	NOV2009	67637.93541	643553.09183	-1193702.947	1328978.8175
	137	DEC2009	71229.50765	728469.84207	-1356545.147	1499004.1619

The SAS System

The VARMAX Procedure

Number of Observations	131
Number of Pairwise Missing	0
Observation(s) eliminated by differencing	1

Simple Summary Statistics

Variable	Type	N	Mean	Standard Deviation	Min	Max	Difference
Diesel_Gallons	Dependent	131	33238.44275	8372156.1562	-25619284.00	44502244.000	1
Kerosene_Gallons	Dependent	131	-98.13740	274749.51108	-982820.0000	1042463.0000	1
Gasoline_Gallons	Independent	131	723803.41985	30065616.647	-79753277.00	144221507.00	1

The SAS System

The VARMAX Procedure

Type of Model	VARX(2,1)
Estimation Method	Least Squares Estimation

Constant Estimates	
Variable	**Constant**
Diesel_Gallons	-179853.4944
Kerosene_Gallons	5716.60493

Coefficient Estimates of Independent Variables		
Lag	**Variable**	**Gasoline_Gallons**
0	**Diesel_Gallons**	0.18832
	Kerosene_Gallons	-0.00405
1	**Diesel_Gallons**	0.09003
	Kerosene_Gallons	-0.00353

AR Coefficient Estimates			
Lag	**Variable**	**Diesel_Gallons**	**Kerosene_Gallons**
1	**Diesel_Gallons**	-0.59683	-2.98475
	Kerosene_Gallons	-0.00402	0.11596
2	**Diesel_Gallons**	-0.13196	-3.93908
	Kerosene_Gallons	-0.00637	-0.08485

Schematic Representation of Parameter Estimates					
Variable/Lag	**C**	**XL0**	**XL1**	**AR1**	**AR2**
Diesel_Gallons	.	+	+	-.	--
Kerosene_Gallons	.	-	-	..	..
+ is > 2*std error, - is < -2*std error, . is between, * is N/A					

Model Parameter Estimates						
Equation	**Parameter**	**Estimate**	**Standard Error**	**t Value**	**Pr > |t|**	**Variable**
Diesel_Gallons	**CONST1**	-179853.4944	429623.73687	-0.42	0.6762	1
	XL0_1_1	0.18832	0.01739	10.83	0.0001	Gasoline_Gallons(t)
	XL1_1_1	0.09003	0.02137	4.21	0.0001	Gasoline_Gallons(t-1)
	AR1_1_1	-0.59683	0.08451	-7.06	0.0001	Diesel_Gallons(t-1)
	AR1_1_2	-2.98475	1.69699	-1.76	0.0811	Kerosene_Gallons(t-1)

	AR2_1_1	-0.13196	0.06582	-2.00	0.0472	Diesel_Gallons(t-2)
	AR2_1_2	-3.93908	1.64014	-2.40	0.0178	Kerosene_Gallons(t-2)
Kerosene_Gallons	CONST2	5716.60493	21964.82551	0.26	0.7951	1
	XL0_2_1	-0.00405	0.00089	-4.55	0.0001	Gasoline_Gallons(t)
	XL1_2_1	-0.00353	0.00109	-3.23	0.0016	Gasoline_Gallons(t-1)
	AR1_2_1	-0.00402	0.00432	-0.93	0.3535	Diesel_Gallons(t-1)
	AR1_2_2	0.11596	0.08676	1.34	0.1839	Kerosene_Gallons(t-1)
	AR2_2_1	-0.00637	0.00337	-1.89	0.0609	Diesel_Gallons(t-2)
	AR2_2_2	-0.08485	0.08385	-1.01	0.3136	Kerosene_Gallons(t-2)

Covariances of Innovations

Variable	Diesel_Gallons	Kerosene_Gallons
Diesel_Gallons	2.3700475E13	-1.405465E11
Kerosene_Gallons	-1.405465E11	61949246124

Log-likelihood	-3710.1

Information Criteria	
AICC	7459.719
HQC	7473.959
AIC	7454.205
SBC	7502.822
FPEC	1.61E24

Cross Covariances of Residuals

Lag	Variable	Diesel_Gallons	Kerosene_Gallons
0	Diesel_Gallons	2.2414403E13	-1.329199E11
	Kerosene_Gallons	-1.329199E11	58587659125
1	Diesel_Gallons	-1.622249E12	1199512113.7
	Kerosene_Gallons	90283818675	-2491762760
2	Diesel_Gallons	-4.576635E12	1859935413.5
	Kerosene_Gallons	-36447614269	794794556.54
3	Diesel_Gallons	-6.139849E12	179879476692
	Kerosene_Gallons	211631422646	-15178467574

Cross Correlations of Residuals

Lag	Variable	Diesel_Gallons	Kerosene_Gallons
0	Diesel_Gallons	1.00000	-0.11599
	Kerosene_Gallons	-0.11599	1.00000
1	Diesel_Gallons	-0.07238	0.00105

	Kerosene_Gallons	0.07878	-0.04253
2	Diesel_Gallons	-0.20418	0.00162
	Kerosene_Gallons	-0.03181	0.01357
3	Diesel_Gallons	-0.27392	0.15697
	Kerosene_Gallons	0.18468	-0.25907

Schematic Representation of Cross Correlations of Residuals				
Variable/Lag	0	1	2	3
Diesel_Gallons	+.	..	-.	-.
Kerosene_Gallons	.+	..	..	+-
+ is > 2*std error, - is < -2*std error, . is between				

Portmanteau Test for Cross Correlations of Residuals			
Up To Lag	DF	Chi-Square	Pr > ChiSq
3	4	29.34	<.0001

Univariate Model ANOVA Diagnostics				
Variable	R-Square	Standard Deviation	F Value	Pr > F
Diesel_Gallons	0.6809	4868313.3453	43.39	<.0001
Kerosene_Gallons	0.2293	248896.05486	6.05	<.0001

Univariate Model White Noise Diagnostics					
Variable	Durbin Watson	Normality		ARCH	
		Chi-Square	Pr > ChiSq	F Value	Pr > F
Diesel_Gallons	2.12238	31.53	<.0001	15.24	0.0002
Kerosene_Gallons	1.99040	53.48	<.0001	10.47	0.0016

Univariate Model AR Diagnostics								
Variable	AR1		AR2		AR3		AR4	
	F Value	Pr > F	F Value	Pr > F	F Value	Pr > F	F Value	Pr > F
Diesel_Gallons	0.68	0.4121	3.21	0.0437	7.24	0.0002	9.87	<.0001
Kerosene_Gallons	0.25	0.6165	0.93	0.3978	4.32	0.0063	2.68	0.0348