Input Data Set						
Name	WORK.PREPROCESSEDDATA					
Label	U.S. Violent Crime Data 1989-1997					
Time ID Variable	Date					

Estimation Span Summary									
Variable Type Obs Last Obs NObs NMiss Min Max Mean Standard Deviation									
MurdersTX	Dependent	JAN1989	DEC1997	108	0	85.00000	280.00000	166.47222	39.87280

Forecast Span Summary									
Variable Type First Obs Last Obs NObs NMiss Min Max Mean Deviation									
MurdersTX	Dependent	JAN1989	DEC1997	108	0	85.00000	280.00000	166.47222	39.87280

Preliminary Estimates of the Free Parameters						
Component	Parameter	Estimate				
Irregular	Error Variance	4711.21769				
Level	Error Variance	1766.70663				
Slope	Error Variance	1766.70663				
Season	Error Variance	2443.85047				

Likelihood Based Fit Statistics					
Statistic	Value				
Full Log Likelihood	-431.5				
Diffuse Part of Log Likelihood	-4.97				
Non-Missing Observations Used	108				
Estimated Parameters	4				
Initialized Diffuse State Elements	13				
Normalized Residual Sum of Squares	95				
AIC (smaller is better)	870.96				
BIC (smaller is better)	881.17				
AICC (smaller is better)	871.4				
HQIC (smaller is better)	875.08				
CAIC (smaller is better)	885.17				

Likelihood Optimization Algorithm Converged in 6 Iterations.

Final Estimates of the Free Parameters								
Component	Parameter	Estimate	Approx Std Error	t Value	Approx Pr > t			
Irregular	Error Variance	239.38162	48.55214	4.93	<.0001			
Level	Error Variance	25.44934	18.72870	1.36	0.1742			
Slope	Error Variance	0.08117	0.13315	0.61	0.5421			
Season	Error Variance	1.87519	5.64980	0.33	0.7400			

Fit Statistics Based on Residuals					
Mean Squared Error	502.09238				
Root Mean Squared Error	22.40742				
Mean Absolute Percentage Error	10.22714				
Maximum Percent Error	34.18651				
R-Square	0.71581				
Adjusted R-Square	0.70645				
Random Walk R-Square	0.27292				
Amemiya's Adjusted R-Square	0.69083				
Number of non-missing residuals used for computing the fit statistics = 95					

Significance Analysis of Components (Based on the Final State)						
Component DF Chi-Square Pr > ChiSq						
Irregular	1	0.55	0.4590			
Level	1	133.11	<.0001			
Slope	1	0.99	0.3202			
Season	11	56.83	<.0001			

Trend Information (Based on the Final State)						
Name	Estimate	Standard Error				
Level	102.9402892	8.9222689				
Slope	-1.28937299	1.2971184				

Summary of Seasons							
Name	Туре	Season Length	Error Variance				
Season	DUMMY	12	1.87519				

Outlier Summary								
Obs	Obs Date Break Type Estimate Error Chi-Square DF Pr > ChiS						Pr > ChiSq	
19	JUL1990	Additive Outlier	65.69128	18.195074	13.03	1	0.0003	
89	MAY1996	Additive Outlier	47.68446	18.195255	6.87	1	0.0088	

	Forecasts for Variable MurdersTX								
Obs	Date	Forecast	Standard Error	95% Confidence Limit					
109	JAN1998	92.526616	20.05145	53.226492	131.826740				
110	FEB1998	78.163267	20.93265	37.136030	119.190505				
111	MAR1998	88.625620	21.92298	45.657367	131.593872				
112	APR1998	81.373350	22.94284	36.406208	126.340492				
113	MAY1998	94.666739	23.98829	47.650546	141.682932				
114	JUN1998	94.687462	25.05740	45.575858	143.799065				
115	JUL1998	115.470298	26.14851	64.220161	166.720436				
116	AUG1998	117.377829	27.26015	63.948913	170.806744				
117	SEP1998	99.629876	28.39101	43.984523	155.275228				
118	OCT1998	94.597461	29.53973	36.700663	152.494259				
119	NOV1998	82.379398	30.70174	22.205101	142.553695				
120	DEC1998	95.214461	31.79383	32.899698	157.529224				

