

REQUEST:

Please identify the Company's most recent elasticities for the following services. Please provide these elasticity estimates by class of service to the extent possible. Please indicate: whether these estimates are for the Florida service territory or the BellSouth service region; whether these are short-run, long-run, or one-year average elasticities; and whether these estimates are considered preliminary or final. If preliminary, please indicate the anticipated finalization date of each of the preliminary estimates.

(g) Centrex lines

P R O P R I E T A R Y

RESPONSE:

The following lists the results of the latest ESSX Service elasticity study for the state of Florida:

Florida Specific ESSX[®] Service Elasticities

	Mileage Band -----	Small -----	Medium -----	Large -----
26	Less than 2.5 miles from CO:			
	Status:	Final	Prelim	Prelim
	Type:	Short	Short	Short
31	Greater than 2.5 miles from Central Office:			
	Status:	Final	Prelim	Prelim
	Type:	Short	Short	Short
34	Aggregate:			
	Status:	Final	Prelim	Prelim
	Type:	Long	Long	Long

DOCUMENT NUMBER-DATE

10285 SEP 23 83

FPSC-RECORDS/REPORTING

Southern Bell Tel. & Tel. Co.
FPSC Docket No. 920260-TL
FPSC Staff's 34th Interrogatories
August 18, 1993
Item No. 645 (g)
Page 2 of 2

P R O P R I E T A R Y

RESPONSE: (CONTINUED)

Further work in this area is not currently scheduled.

Southern Bell objects to this interrogatory to the extent the information requested is proprietary. Some of the information requested concerns competitive business information which would bring harm to Southern Bell if publicly released. This information is treated as proprietary and confidential business information by Southern Bell. Southern Bell will provide the proprietary data to the Commission Staff under a Request for Confidential Classification to be filed contemporaneously with the serving of Southern Bell's Interrogatory responses.



General Attorney

INFORMATION PROVIDED BY: DAVID RITTNER
MANAGER - ECONOMIC ANALYSIS
675 W. PEACHTREE ST., N.E.
ATLANTA, GA 30375

REQUEST:

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(k) Inside Wire

P R O P R I E T A R Y

RESPONSE:

Inside Wire - non-recurring and recurring.

21 Non-recurring Inside Wire: - Regional, Long Run
22 Recurring Inside Wire: - Regional, Short Run

- Both estimates are considered Final.

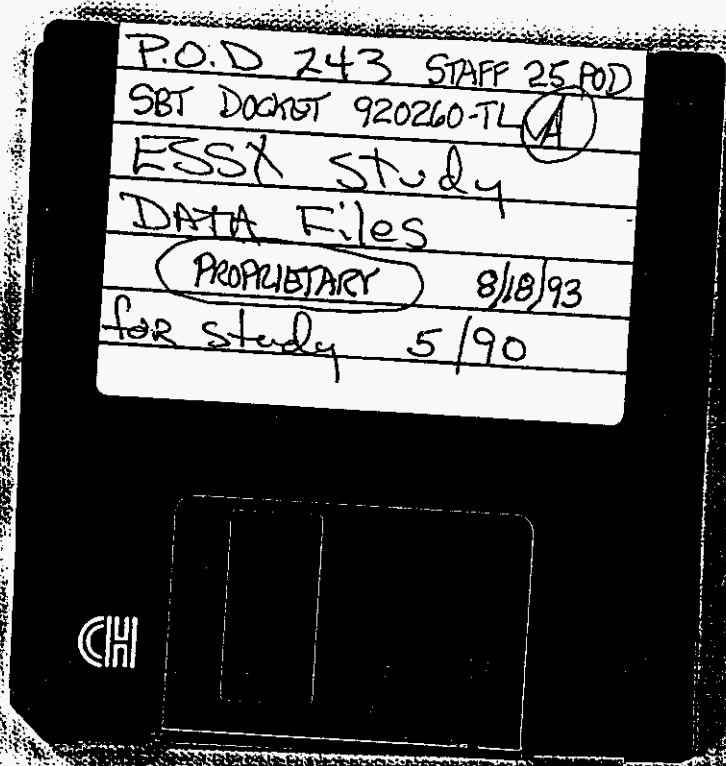
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General Attorney

RESPONSE PROVIDED BY:

DAVID RITTNER
MANAGER - ECONOMIC ANALYSIS
675 W. PEACHTREE ST., N.E.
ATLANTA, GA 30375



P.O.D 243 STAFF 25 POD
SBT DOCKET 920260-TL (A)
ESSX Study
DATA Files
(PROPRIETARY) 8/18/93
for study 5/90

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DOCUMENT NUMBER-DATE

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FPSC-RECORDS/REPORTING

ESSX DATA FILES

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FLLPOOL	BAT	1207	03-15-90	12:40p
FLS	PRN	1453	08-31-93	9:02a
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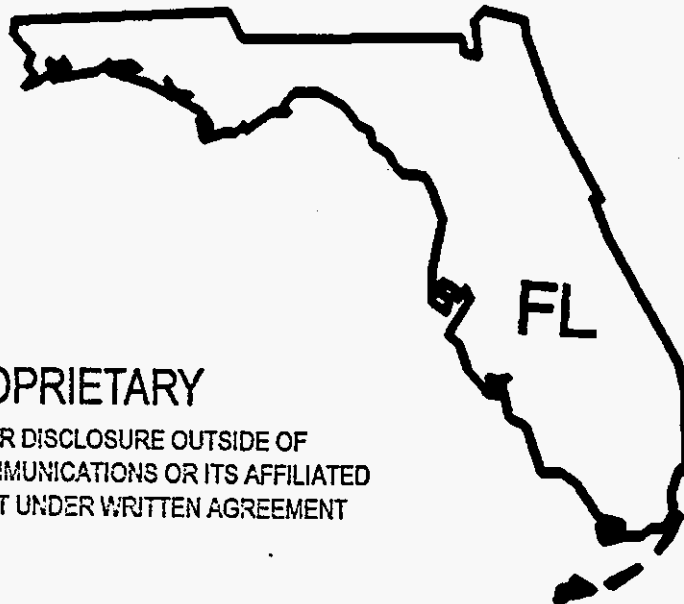
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RECORDS/REPORTING FOI B25Z

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**BellSouth Services
PRICING & ECONOMICS**

**DEMAND ANALYSIS:
ESSX SERVICE DEMAND ANALYSIS
FLORIDA**



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**Demand Analysis
5/90 jsm**

**DEMAND ANALYSIS FOR ESSX SERVICE:
FLORIDA**

Background and Introduction

ESSX Service provides analog and digital central office based switching capabilities for multi-line business customers. Numerous optional features may be included in the service package with payment plans ranging from monthly to 36, 60, and 84 months. For example, some optional features include call waiting, call forwarding, call restriction, and automatic route selection. ESSX Service's primary competition is the PBX, generally priced under ESSX at this time. Although the PBX price depends on a number of issues related to specific customer configurations, it is not priced on a distance sensitive basis as is ESSX Service.

The ESSX market is tariffed into three classes based on a customer's total number of station lines. If the customer has less than 200 lines, they are considered a small subscriber. If they are between 200 and 600, they are categorized as medium subscriber. If the number of station lines are over 600, they are classified as a large customer. Annual revenue potential for the ESSX market is considerable. Over _____ was billed through the distance sensitive rate elements in 1989. About half of this amount originated from the small subscriber class, comprising about _____ of total station lines. Competitive data indicates that the medium and large market prices are considerably below anything we are offering at this time. Current pricing strategies are aimed at better positioning ESSX in the small market - a market where we are best able to compete against PBX's and key systems.

Florida underwent a rate restructure in late 1988 as the

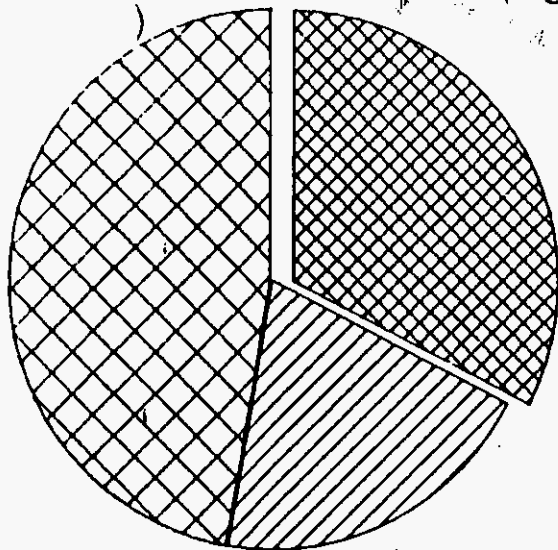
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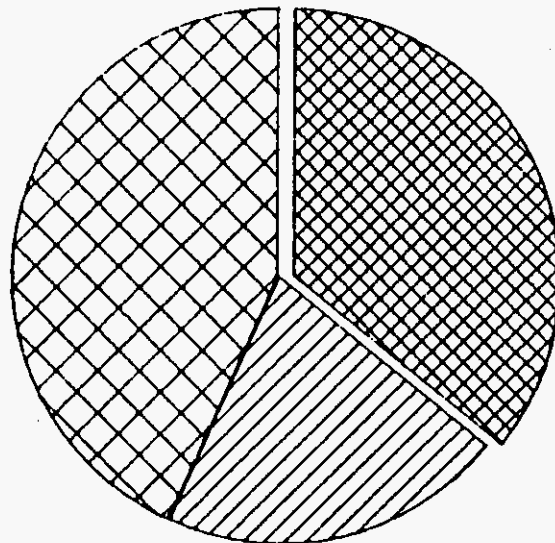
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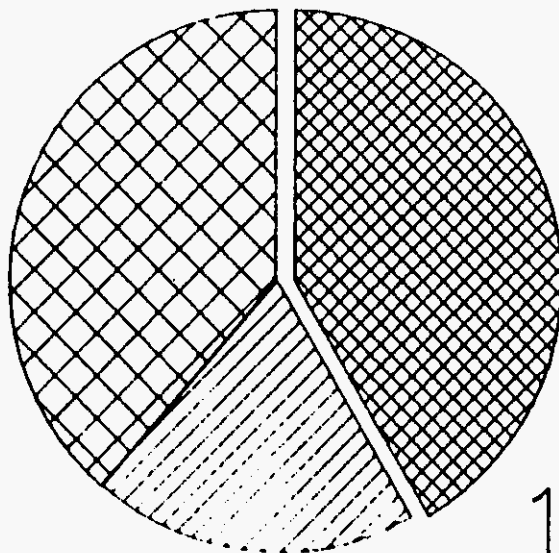
FLORIDA ESSX: SMALL, MEDIUM, & LARGE STATION LINE PROFILE BY CLASS



1987



1988



1989

DATA AS OF YEAR END

SI

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Methodology in Brief

Single equation econometric models were used to estimate to what extent business demand reacts to changes in the real price of ESSX Service. The models, analyzing demand data from April 1987 to December 1989, are primarily driven by two factors: 1). the real price of ESSX Service and 2). non-agricultural employment. The employment data was used to capture increases in telecommunication requirements over time. Furthermore, the study disaggregates the analysis into ESSX lines within 2.5 miles from the central office and those greater than 2.5 miles. The primary findings of the study are in measures of own-price elasticities which can be applied to base case administrative forecasts under various price scenarios.

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Summary of Results

Examination of the percentage of total station lines residing over 2.5 miles from the central office over time reveals a significant jump in the small category coinciding with the tariff changes in late 1988. Smaller, yet discernible increases in this ratio were also found in the medium and large categories, indicating marginal demand shifts in these markets.

The findings of this study support initial speculation that ESSX Service is in a highly competitive market. Where ESSX Service is priced anyway near the PBX price (small market), the short run elasticities were found to be over . In other words, if the average price is reduced by 1%, we may expect demand to increase by about within 1 year. The tariff changes to the medium and large classifications did not show the magnitude of price sensitivity found in the small market. This demand rigidity may reflect the longer time associated in moving from a PBX system to an ESSX network for the more complex subscriber. On the other hand, it may simply be a direct result of being priced significantly above the PBX market.

As expected, the long run implications of a price change significantly differed from the short run. In the contexts of the ESSX market, long run responsiveness would translate into the period of time where all contractual obligations have expired and financial constraints resulting from PBX investment and other equipment become negligible. In the small market, the long run price elasticity was found to be roughly twice the short run measure. Likewise, the analysis of the large market found an elasticity of around . Therefore, it seems that the existence of financial constraints do indeed significantly impact the magnitude of demand responsiveness

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over time.

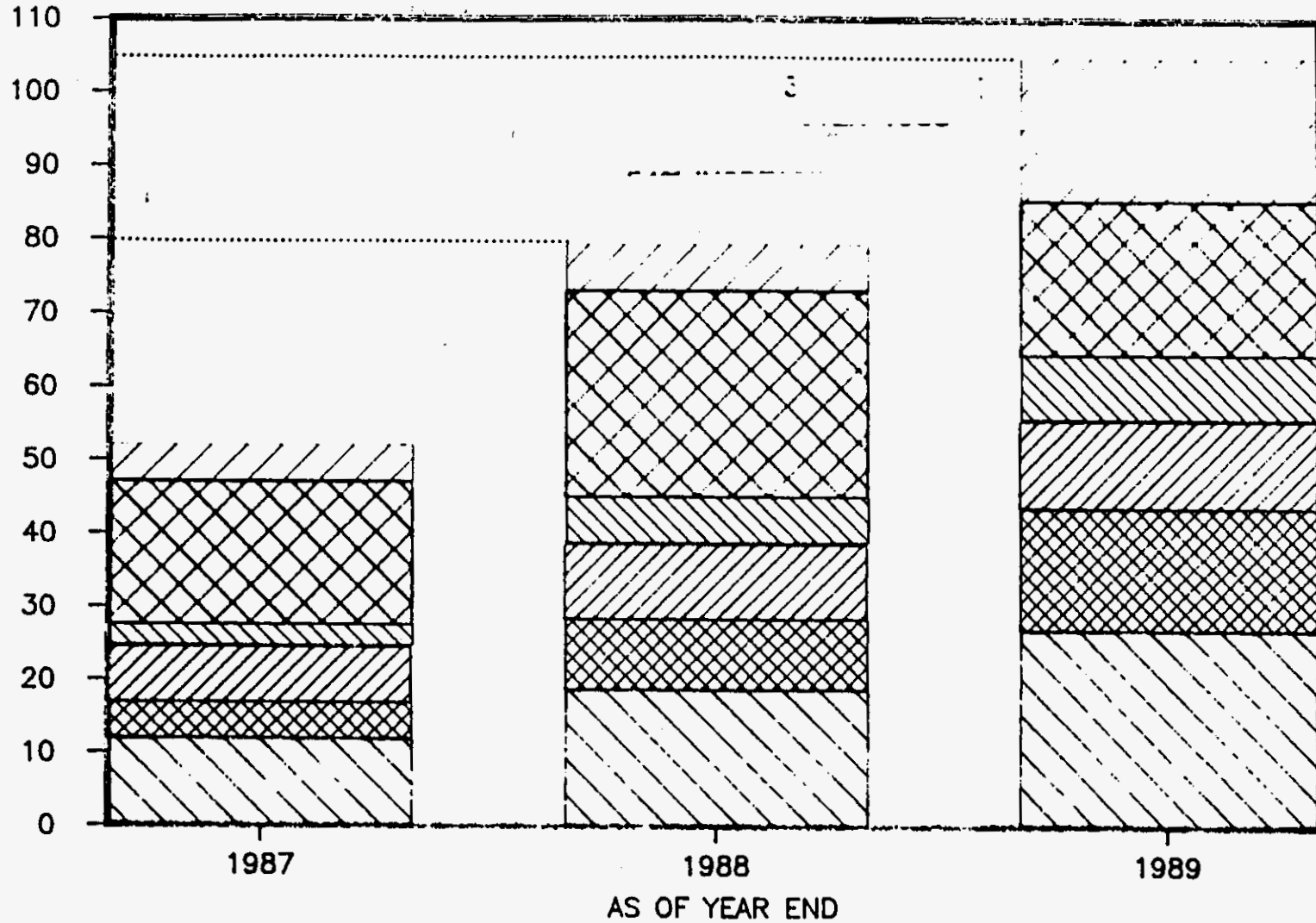
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FLORIDA ESSX: SMALL, MEDIUM, & LARGE



AS OF YEAR END

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Technical Discussion

Data Requirements:

Monthly data from April 1987 to December 1989 was obtained for the number of ESSX lines by mileage band, the corresponding distance sensitive portion of billed revenue, non-agricultural employment for the state, and the consumer price index. Although analog and digital breakdowns of the demand and revenue were available, it was decided to work with an aggregate of two. Since analog to digital conversions have and will continue to occur with significant frequency, separate elasticity models would have to account for these shifts. Moreover, theory suggests little differential in price sensitivity from the consumer's point of view. Even if analog/digital elasticities were developed, the pricing strategy of the product team is towards a single uniform rate.

Short Term / Long Term Responsiveness:

The ESSX market for BellSouth is comprised of a number of tariffed contractual arrangements locking the customer into a set price for various periods. As mentioned earlier, these arrangements vary from month to month, 36 months, 60 months, and 84 months schedules. Financial penalties to discourage early contract termination are more substantial at earlier termination dates. Therefore, such constraints suggest that the short-term reaction to a price change may significantly differ from the long-term. In order to investigate this issue, both short and long run models were developed for the ESSX market.

The short run models utilize two aggregation levels of the

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mileage band data. The first category was for those customers less than 2.5 miles from the central office. As a histogram plot of the existing demand shows, the majority of ESSX customers reside within a mile from the central office. We would expect this "submarket" to be less sensitive to direct ESSX price changes since they are priced relatively low. A stronger reaction to price decreases would be expected for the outer mileage band customer (i.e. >2.5 miles). The decision to use the 2.5 mile cut-off point was more an empirical constraint imposed by the recent rate restructure rather than by economic or market theory.

Pooled cross-section times series procedures were used to develop the long run models. Elasticity results from pure cross-sectional studies are generally viewed as long term responsiveness measures. That is because the model's scope of analysis does not capture shocks to the time series component. Economic textbooks frequently define "long term" to represent that amount of time where all inputs to factors of production are variable. In the contexts of the ESSX market, this would translate into the period of time where all contractual obligations have expired and financial constraints resulting from PBX investment and other equipment become negligible.

Since Florida has experienced a rate change over the historical study period, it was necessary to exclude that portion of the data from the estimation of the long run regression models to observe pure long run effects. By doing so, we created a pooled cross-section time series model where the time series component was filtered from any direct price effects on demand. Price fluctuations in the time component of these models would then reflect only marginal indirect price movements.

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Examination of demand information for the long term analysis indicated significant differences in the number of existing ESSX lines as we move further and further from the central office. Marketing research suggests that businesses are not located equi-distance from the central office. In general, business telecommunication requirements are skewed heavily in favor of the nearer mileage bands. Therefore, price is not the only factor in determining the distributional characteristics of ESSX customers as measured from their central office. The potential number of subscriber lines at each mileage band has to be accounted for in any econometric measure of price sensitivity. The models constructed here make use of differential intercepts to essentially "backcast" these mileage band differences in order to obtain realistic estimates of price elasticities.

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The Price Variables:

The ESSX price variable used throughout the study consisted of the sum of two price variables: 1). the distance-sensitive ESSX rate and 2). a non-distance sensitive user rate. The market was assumed to observe the sum of these ESSX prices on their bill, rather than looking at the mileage sensitive portion only. Values for the distance-sensitive rate were obtained directly from monthly billing revenue by mileage band divided by the number of ESSX station lines. The non-distance sensitive portion of the total ESSX price was derived using a "typical system" configuration for tariffed elements like...

1. CPE RELATED-CO
2. CE & INTERCOM
3. EULC ON NARS
4. FEATURES (ECAS)
5. NARS
6. TERMINATIONS
7. SMDR-P
8. NON-REC
9. CPE

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Initial model specifications attempted to capture significant demand fluctuations caused by marginal tariff changes to this "typical system" rate. In some cases, such specifications tended to increase the standard error of the price variable. This finding could result from either the demand not following a stable response to the tariff changes specified in the model or the accuracy level of the constructed "typical system" variable. The final specification employed an average "typical system" rate that remained constant over the historical period.

As done in most time series studies, the aggregate price variable was deflated using the consumer price index. Examination of the nominal loop (distance-sensitive) rate through the end of 1988

shows marginal upward or downward drifts in price. These trends occur, however, not because of direct rate changes, but mileage band distributional shifts as well as the impact of analog to digital conversions. Changes to the tariffed rate appear towards the end of 1988 as the impact of rate restructures begins and customers elect to resubscribe.

Collection of competitive PBX historical prices at an accuracy level needed in this analysis was impossible. Moreover, competitive knowledge would at best indicate a drop in the PBX price of about 6% per year, a trend that is expected to continue over the next few years. Explicitly including a trend component of this nature into the regression model would tend to cause multicollinearity problems with existing highly linear variables, not adding any further explanatory nature to the analysis.

Instead, by dividing the market into the distance sensitive categories mentioned earlier (above and below 2.5 mile locations), relative price considerations were implicitly included. This is simply because ESSX is priced on a distance sensitive basis while PBX systems are not. ESSX in the small class, for example, is competitively priced at lower mileage bands, but well above market price at the outer distances. Market disaggregation would better capture the behavior of those existing or potential ESSX subscribers close enough to the market price to be affected by the range of rate adjustments imposed by the new ESSX tariff.

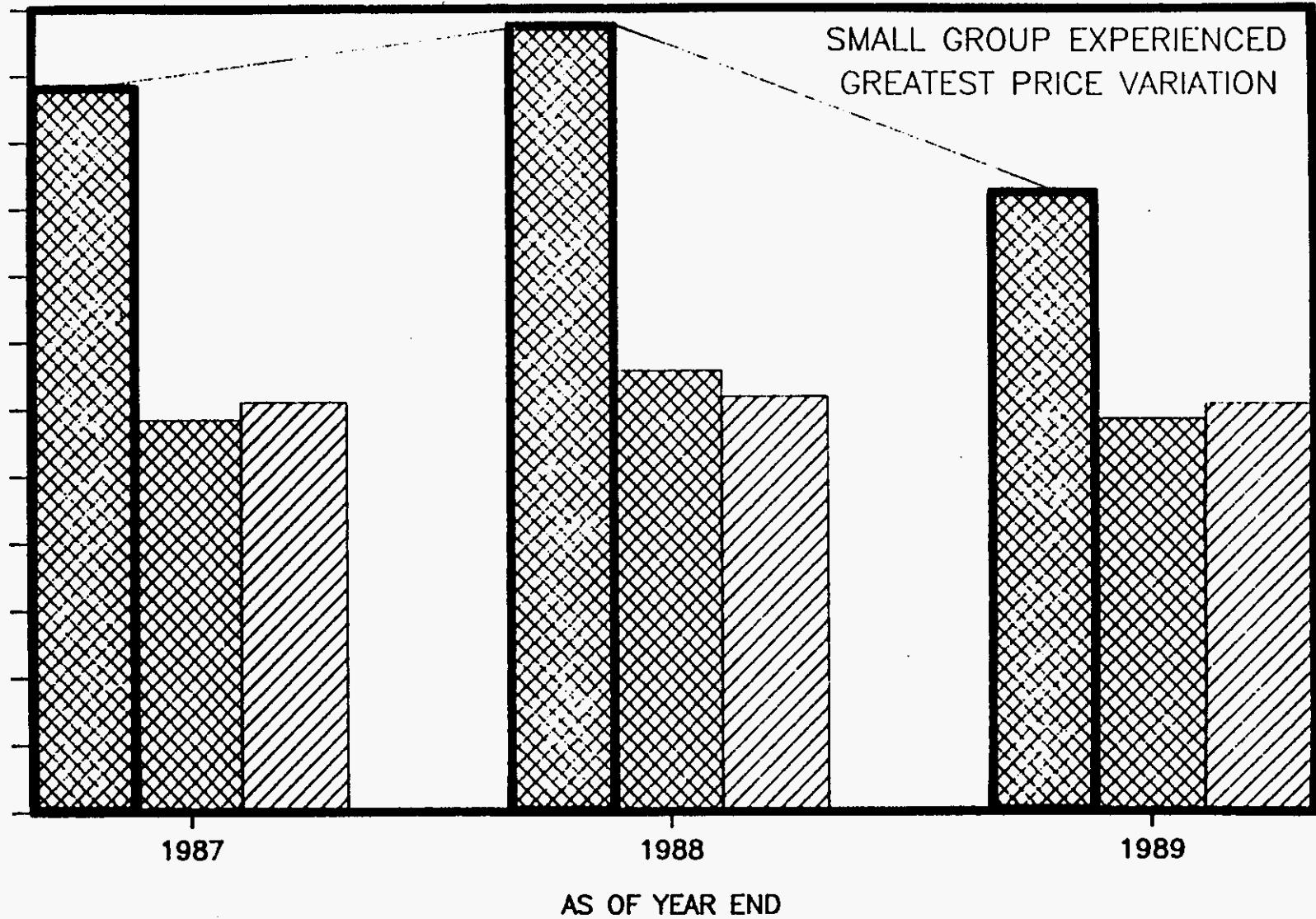
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FLORIDA ESSX: SMALL, MEDIUM, & LARGE



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The Small Market:

At the end of 1989, Florida's small ESSX market consisted of
3 approximatel station lines within 2.5 miles of the central
4 office with another residing outside that distance. The demand
for lines outside 2.5 miles more than doubled in relative terms,
4 growing from about of total demand in late 1988 to in late
1989. Just prior to the tariff changes, the majority of demand
resided in the first mileage band with bands 7-10 showing less than
9 station lines each.

The impact of the 1988 restructure first appeared in November
1988 with demand in the new USOC's associated with the tariff changes.
The ESSX nominal loop price decreased at a rather sharp rate at that
time and continued throughout 1989. The tariff restructure for ESSX
station lines within 2.5 miles from the central office translated into
15 a drop in the average loop rate to \$ in 1989. Shifts in the
16 outer mileage bands were quite large, dropping from \$32 to \$17.

A graphical inspection of the data indicates significant
demand gains occurring approximately 8 months after the tariff changes
were instituted. This could occur for a variety of reasons such as
lead time termination requirements for leased PBX systems, budgetary
constraints in major telecommunication decisions, and the time needed
by marketing to promote the service to potential customers under a new
pricing package. Because indirect price shifts do occur before the
restructure, specifying such a long lag did not adequately explain the
nature of these particular price drifts.

The short term model for the small market with customers less

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than 2.5 miles from the central office specified aggregate demand for the first 7 mileage bands as a function of non-agricultural employment and the aggregate real price of ESSX. As the statistics indicate below, the model explained over 99% of the fluctuations in demand over the historical period. A number of lag structures were specified (polynomial lags, 2nd, 4th & 6th period lags), but produced no more explanatory power than the above specification.

Since all models in this study were estimated using a loglinear functional form, the estimated coefficients represent the constant elasticities in the equation. In addition, such a transformation tends to minimize the consequences of heteroscedastic disturbances in the residuals. Both the trend and price variables were found statistically significant. The price elasticity of 13 implies that for every percentage drop in the real aggregate price, 15 demand will increase by .

Further diagnostics were performed as the algorithm adjusting for autocorrelation resulted in a large residual for the first observation of the series. Deleting the first 10 observations one at a time yielded a relatively stable price elasticity, fluctuating 20 around with t-statistics moving as high as -3.3. Specifying 2nd and 4th period lags produced a similar fluctuation as the sample size was decreased. However, dropping the last 10 observations one at a time produced significantly smaller elasticities which eventually proved insignificant. Therefore, additional demand measurements over time may improve the standard error of the price variable as the full impact of the rate restructure evolves.

The short term model for the small market with customers located greater than 2.5 miles from the central office specified

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aggregate demand for the last 3 mileage bands as a function of non-agricultural employment and the aggregate real price of ESSX. As the statistics indicate, the model explained over 96% of the fluctuations in demand over the historical period. Both the trend and price variables were found statistically significant. Estimated at 6.0 the price elasticity in this case is very close to the one in the previous model.

Since the majority of existing ESSX lines are priced quite a bit lower than those found outside the 2.5 mile range, we expected to find a significant difference between the elasticities of the two groups. As mentioned above, the elasticities were not found to significantly differ from one another. Should not the outer mileage band base of potential customers be more sensitive to price changes?

The answer to this question may be found in the assumptions underlying the log-linear functional form of the demand models. Specifying the equation in log form yields parameter estimates for the elasticities that develop an average or constant measure of sensitivity over the entire range of price adjustments. This may be reasonable when the price variations are marginal, as in the case of the smaller mileage band customer base. But the outer mileage band customers experienced about a 25% price reduction. Assuming a constant measure of price sensitivity over the entire range could underestimate the magnitude of the elasticity for those potential subscribers.

The following page shows a graphical representation of the discussion mentioned above. If we estimate the number of ESSX lines based only on data before the price change, we can determine a rough approximation of the elasticity at the low end of the price range. Using a simple time trend to estimate "business as usual" demand,

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elasticities were developed for both mileage band categories. The lower mileage band subscribers were found to have an elasticity similar to what was estimated by the log-linear models. The outer mileage band subscribers were found to have an elasticity two or three times greater than what was previously estimated. This finding makes more intuitive sense than the elasticity developed by the log-linear model. However, the outer mileage subscriber, as measured in May of 1990, still accounts for less than 10% of the total ESSX lines.

The long term pooled cross-sectional time series model also specified demand as a function of a price variable and non-agricultural employment. However, two distinct differences separate it from the short term models. The first was that the estimation period for the long run analysis ran from April 1987 to October 1988 - a 14 month shorter span. This was necessary to filter out the impact of any direct price changes during that time. The second difference was that the dependent variable used in the pooled model consisted of the 10 different mileage bands comprising the service. Since we know that there is not an equal distribution of potential customers as we move away from our central offices, it was necessary to include differential intercepts in the equation. Along the same lines, differential slope variables were added to the model allowing each mileage band to have different growth estimates.

Because we are now dealing with disaggregated cross-sectional data, there was good reason to believe that our residual term would not be homoscedastic. After all, most of our existing demand is in the nearer mileage bands. Therefore, a generalized least squared procedure was used that estimated separate autoregressive parameters and error variances for each cross-section. Although the inclusion of the slope variables didn't dramatically change the price elasticity,

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all slope and intercept coefficients were significant. As expected,
the results for the long term model showed a greater elasticity than
3 either of the short term specifications

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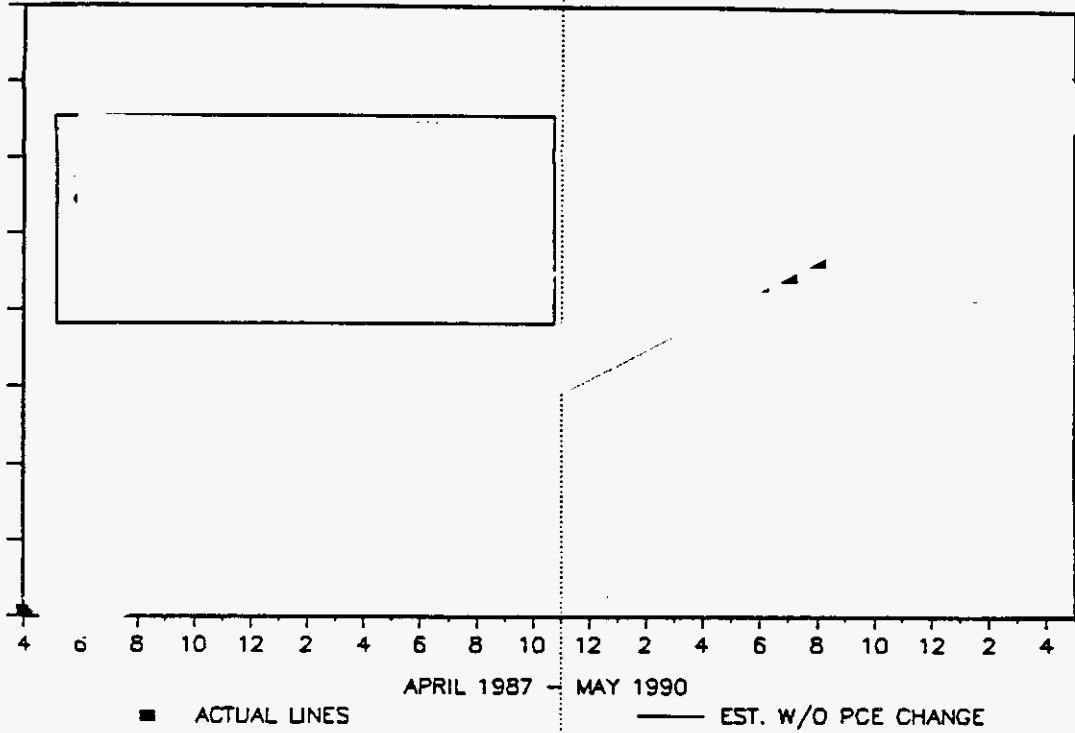
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FLORIDA ESSX STATIONS (<2.5 MILES)

GRAPHICAL EVALUATION OF RESPONSIVENESS

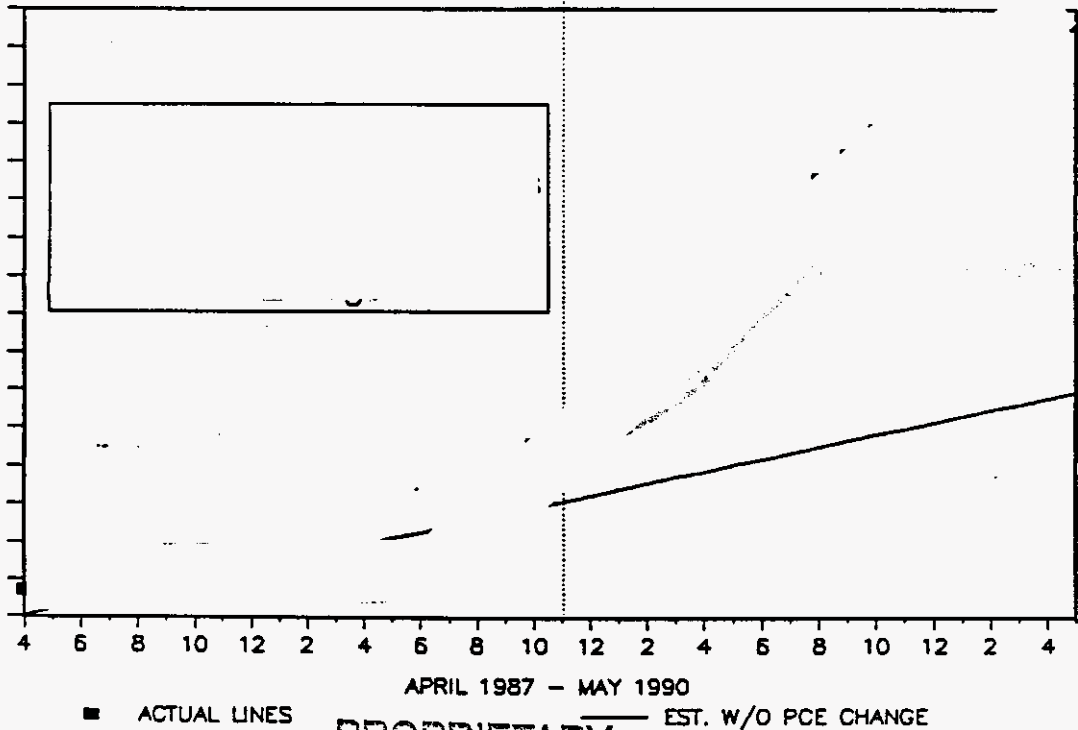
STATION LINES WITHIN 2.5 MILES
(Thousands)



FLORIDA ESSX STATIONS (>2.5 MILES)

GRAPHICAL EVALUATION OF RESPONSIVENESS

STATION LINES OVER 2.5 MILES
(Thousands)



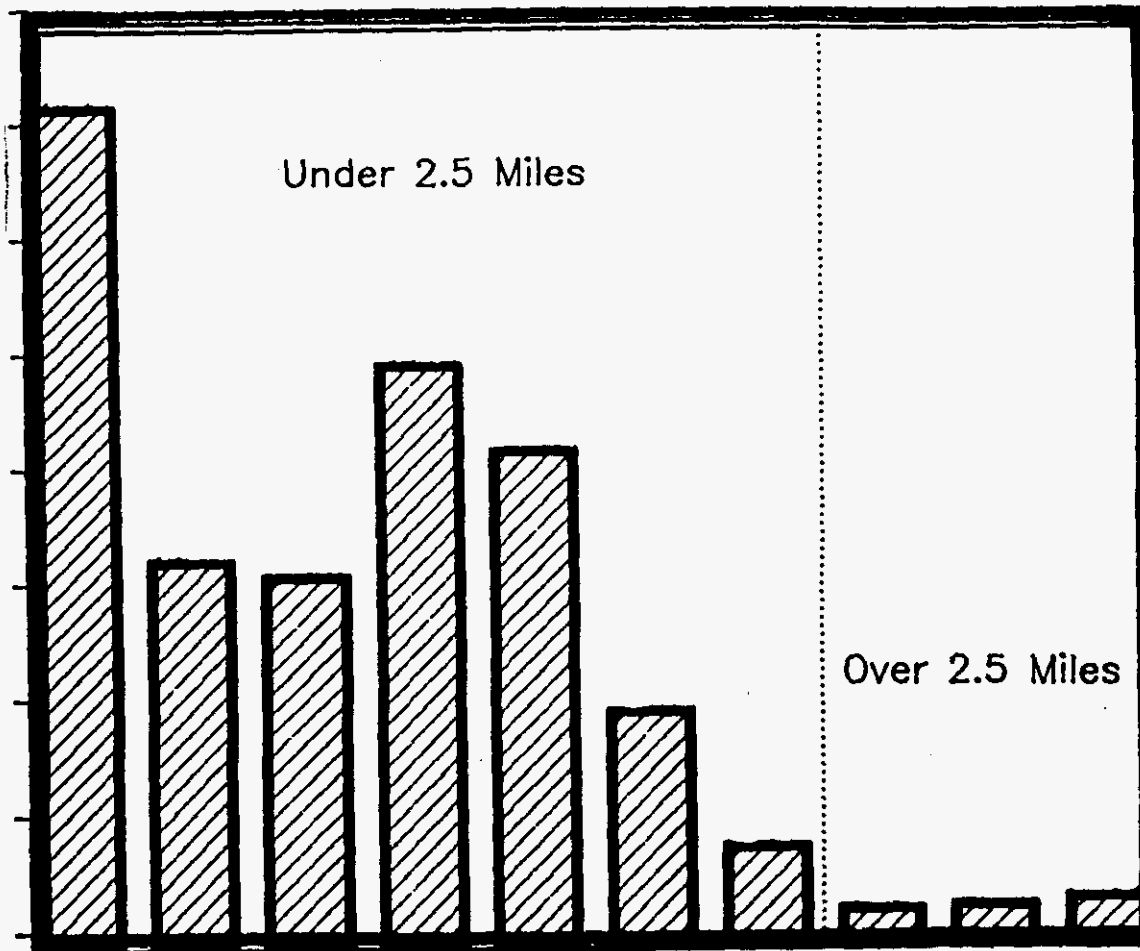
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DISTRIBUTION PROFILE BY MILEAGE BAND

ESSX STATION LINES
(Thousands)



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MILEAGE BAND (NOVEMBER 1988)

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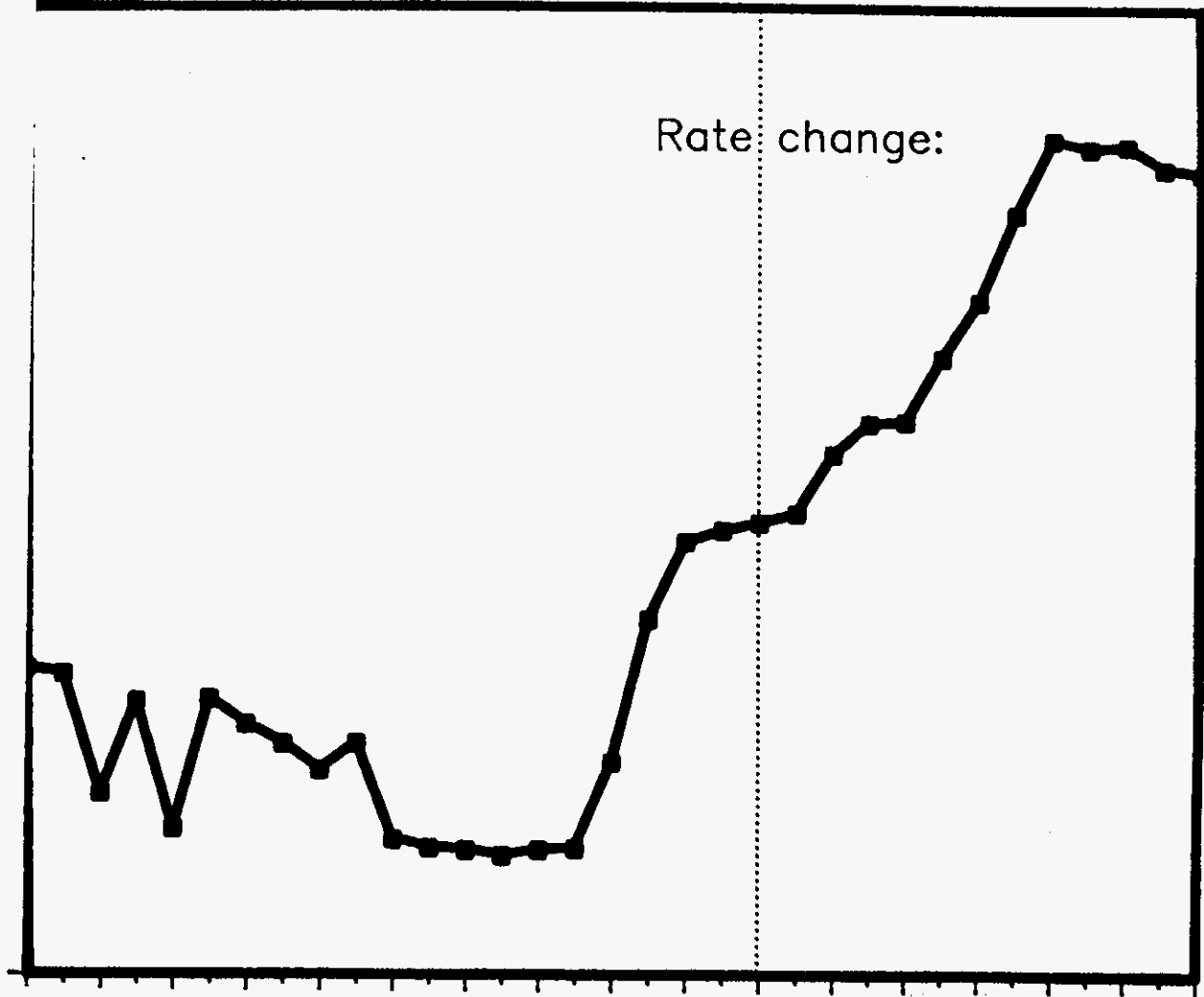
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ESSX LINES (>2.5 MILES FROM C.O.)

PERCENTAGE OF TOTAL ESSX STATION LINES

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APRIL 1987 - DEC. 1989

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The Medium Market:

At the end of 1989, Florida's medium ESSX market consisted of approximately station lines within 2.5 miles of the central office with another residing outside that distance. The demand for lines outside 2.5 miles did not show a pattern similar to the small category relative to total demand, moving erratically from about of the total in late 1988 to in late 1989. In late 1988, the majority of demand by mileage band resided in the first and fourth mileage bands, comprising over half the number of stations lines at that time.

The effects of the 1988 restructure first appeared in December 1988 with demand in the new USOC's associated with the tariff changes. The tariff restructure for ESSX station lines within 2.5 miles from the central office translated into a drop in the average loop rate. Shifts in the outer mileage bands during 1989 were staggered, dropping from probably as a result of a single subscriber being added. This pattern was not noticeably different than the pre-restructure period.

The short term model for the medium market for customers less than 2.5 miles from the central office specified aggregate demand in the first 7 mileage bands as a function of non-agricultural employment and the aggregate real price of ESSX. As indicated below, the model explained over 98% of the fluctuations in demand over the historical period. However, only the trend variable was found statistically significant. The price elasticity of had the correct sign, but a t-statistic of -1.02, well below the acceptable range. Therefore, we may conclude that the price changes experience by the medium market in 1989 were not significant enough to induce much additional demand

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for ESSX Service.

The short term model for the medium market with customers greater than 2.5 miles from the central office specified aggregate demand for the last 3 mileage bands as a function of non-agricultural employment and the aggregate real price of ESSX. The model explained over 96% of the fluctuations in demand over the historical period. The trend variable was found marginally significant while the price variables was found very significant with a t-statistic at -4.07. Because of the relatively small number of lines (small number of individual subscriber) changes to demand over time would tend to occur in lumps. This pattern would be difficult to account for with such a specification for state level employment. An attempt was made to filter out this effect by shortening the time period to exclude the large jump of customer at the end of 1989. Estimated at the price elasticity applications for this submarket may tend to be somewhat limited because of the small subscriber base. In addition, because there were no discernible differences between price movements before and after the restructure, the elasticity may represent price sensitivity for indirect price movements as opposed to demand reactions to tariff changes.

Again, a generalized least squared procedure was used for the long term model to estimate separate autoregressive parameters and error variances for each cross-section. As in the small long term model, the sample period was shortened to filter out the effects of direct price changes. The model was estimated using both differential intercepts and slope components. Although the inclusion of the slope variables didn't dramatically change the price elasticity, all slope coefficients were significant. As expected, the results for the long term model were not statistically different than for the small market,

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1 but showed a greater elasticity ~~_____~~ than either of the short term specifications for the medium market.

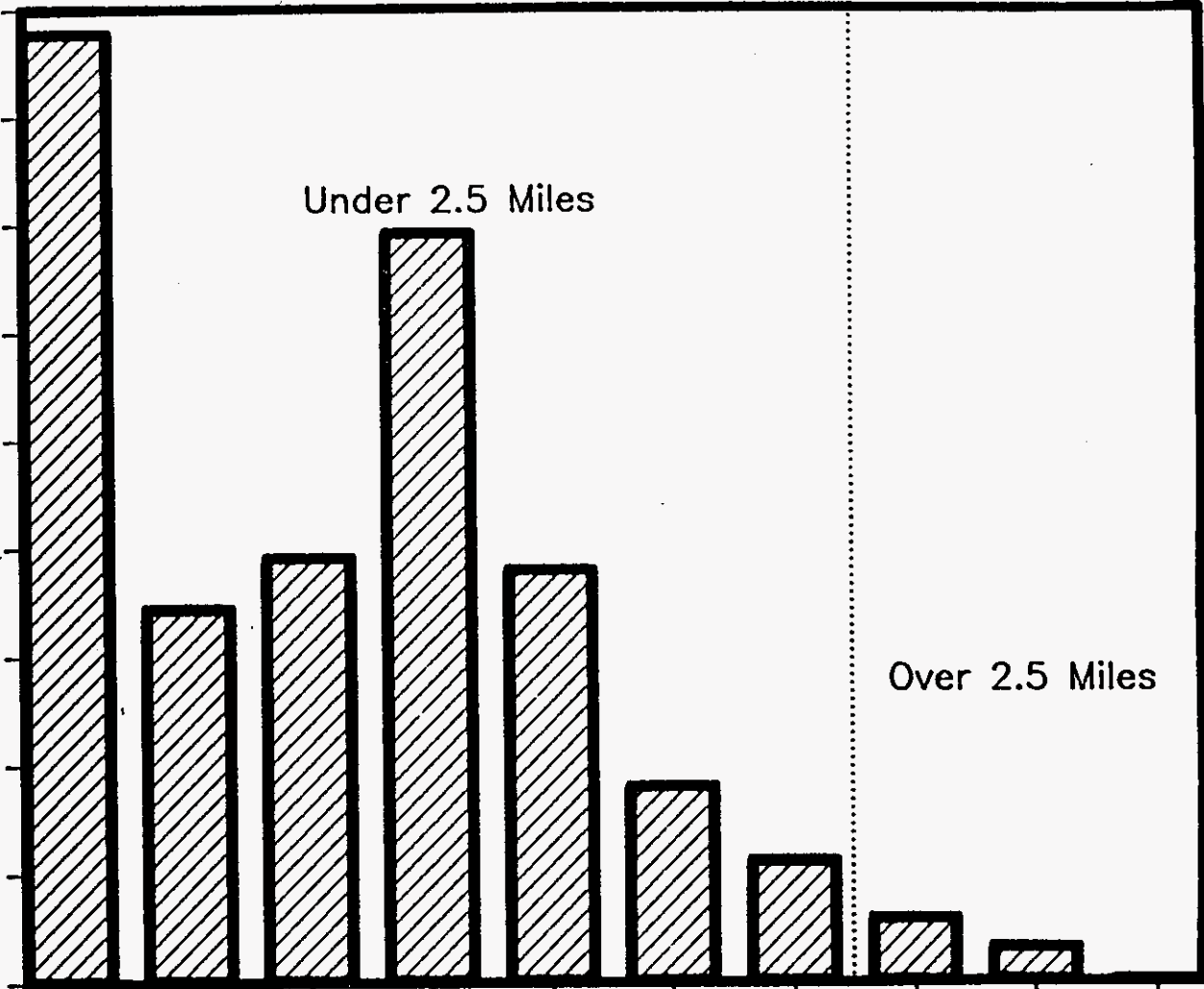
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DISTRIBUTION PROFILE BY MILEAGE BAND



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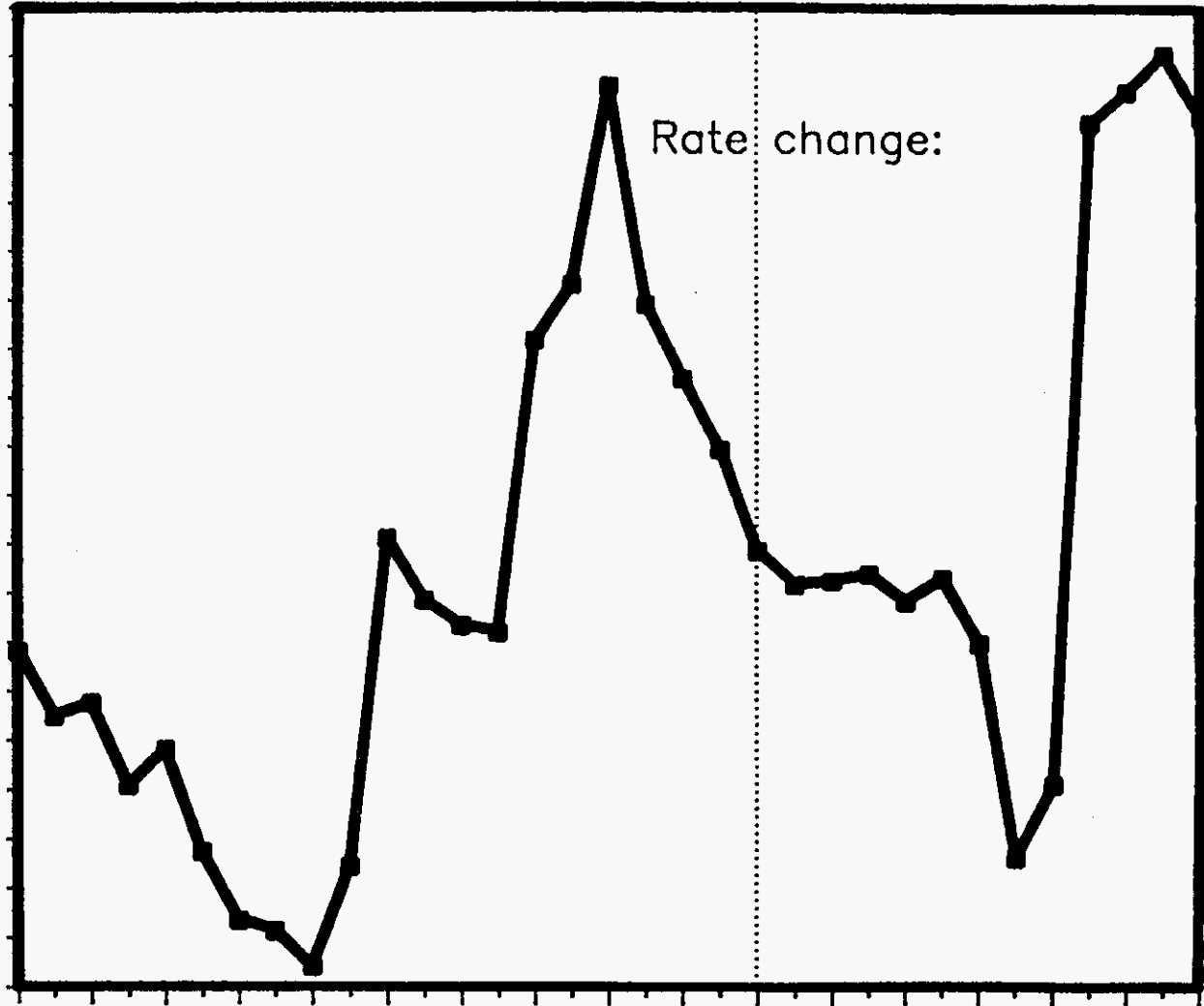
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ESSX STATION LINES
(Thousands)

F01B25Z

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ESSX LINES (>2.5 MILES FROM C.O.)



PERCENTAGE OF TOTAL ESSX STATION LINES

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The Large Market:

At the end of 1989, Florida's large ESSX market consisted of
3 approximately station lines within 2.5 miles of the central
4 office with another residing outside that distance. The demand
for lines outside 2.5 miles did show a pattern similar to the small
6 category relative to total demand, moving sharply from about of
7 the total in late 1988 to in late 1989. The majority of demand
by mileage band resided in the fourth mileage band in November 1988,
comprising over one fourth the number of station lines at that time.

The effects of the 1988 restructure first appeared in January
1989 with demand in the new USOC's associated with the tariff changes.
The ESSX nominal loop price showed little apparent change coinciding
with the restructure in any of the two mileage classifications. The
tariff restructure for ESSX station lines within 2.5 miles from the
15 central office translated into fluctuations between in
1989. Shifts in the outer mileage bands during 1989 were staggered,
17 dropping from

The short term model for subscribers within 2.5 miles from
the central office explained over 98% of the fluctuations in demand
over the historical period. However, only the trend variable was
found statistically significant with a $t=10$. The price elasticity not
only was insignificant, but had the wrong sign. Therefore, we may
again conclude that the price changes experience by the large market
in 1989 were not sufficient enough to induce additional demand for
ESSX Service.

The large market model for customers greater than 2.5 miles

from the central office explained over 98% of the fluctuations in demand over the historical period. The trend and price variable were found significant with t-statistics of 6.4 and -3.6 respectively.

4 Estimated as ~~the~~ the price elasticity for this category is relatively smaller than any other group in the analysis.

Again, a generalized least squared procedure was used in the long term elasticity model for the large subscribers. The procedure shortened the sample size and used estimated separate error variances and autoregressive parameters for each cross-section. Although the inclusion of the slope variables didn't dramatically change the price elasticity, most slope coefficients were significant. The model, explaining 99% of the variation in demand over the historical period, 13 estimated an elasticity of ~~the~~ with a significant t-statistic of -3.5.

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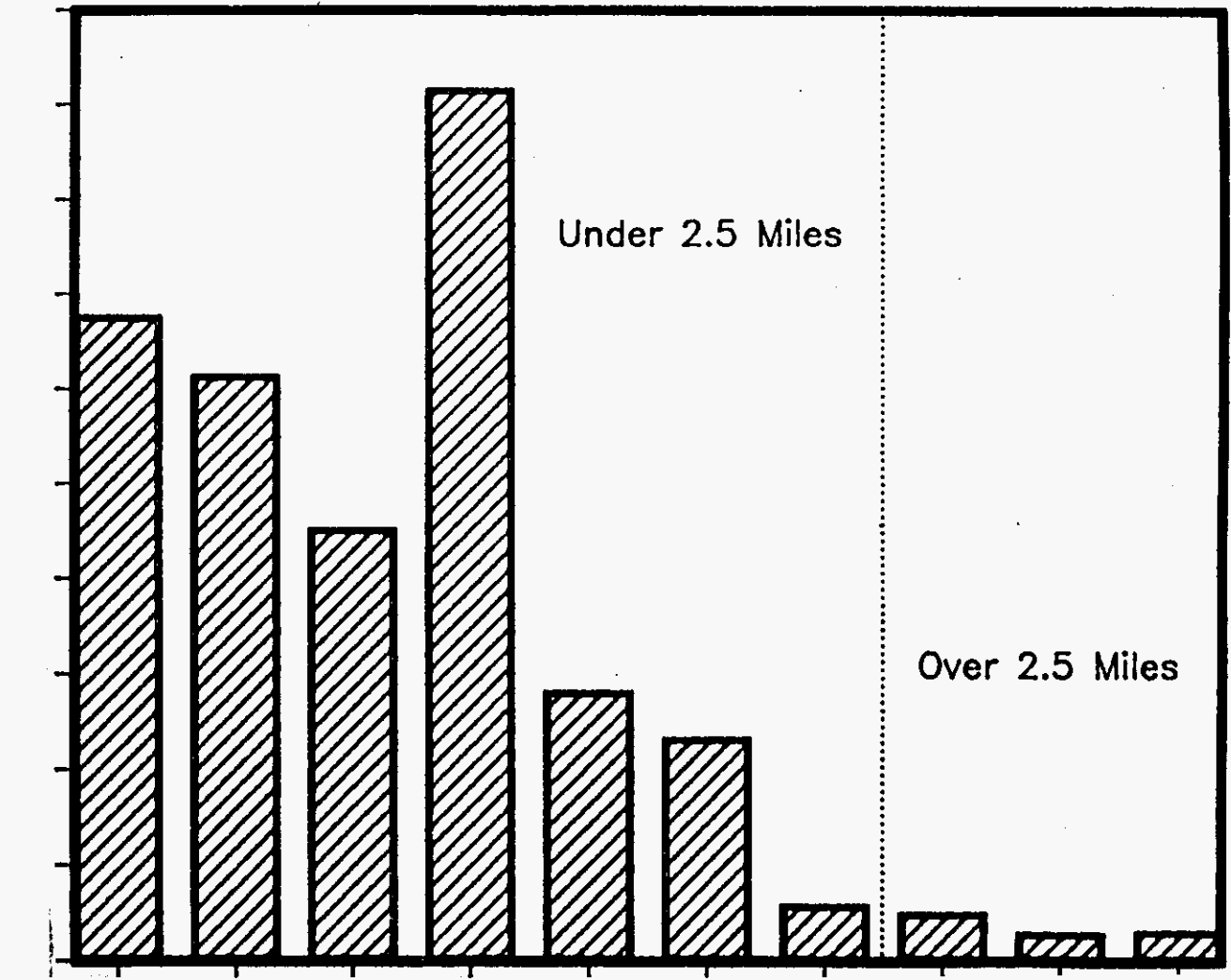
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DISTRIBUTION PROFILE BY MILEAGE BAND

ESSX STATION LINES
(Thousands)



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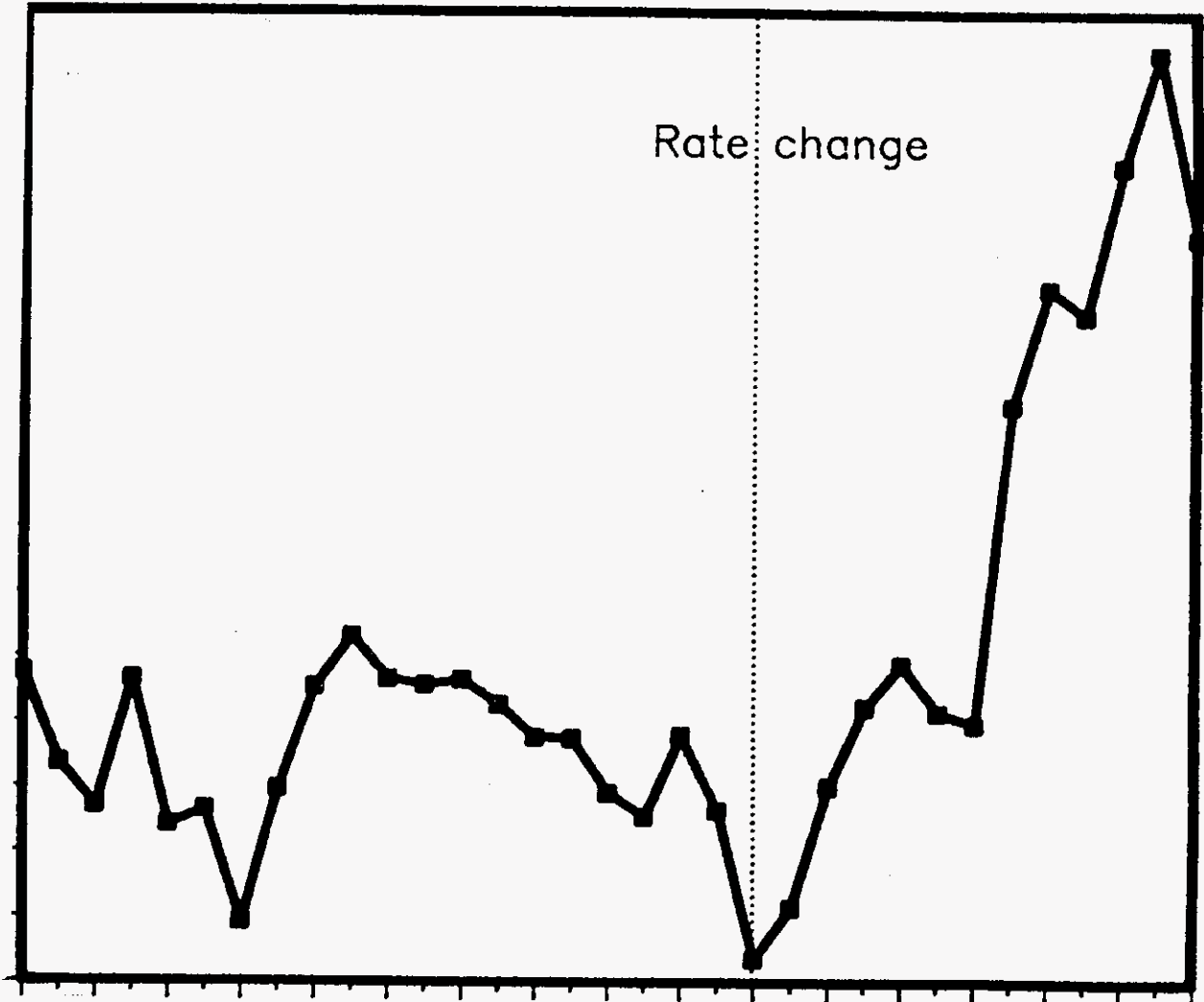
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NNNNN1

ESSX LINES (>2.5 MILES FROM C.O.)



PERCENTAGE OF TOTAL ESSX STATION LINES

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Concluding Remarks

This study provides a structural approach in estimating historical consumer behavior relating to a price change in the ESSX market. Both short and long run measures of price sensitivity were developed and adjusted for the impact of inflation. The full short run impacts of a price change could very well be thought of occurring within the first year of a tariff change. It should be remembered that the consumer behavior measured here was developed in context of specific price range fluctuations. For example, in the small class for those subscribers within 2.5 miles of the central office, aggregate demand responded to approximately a 25% decrease in the average loop price. For the outer band customers, this was more in the range of a 50% drop. Any attempt to extend the application of these estimates significantly beyond these ranges should be done so with caution.

The long run impact of a price change was shown to be potentially greater than for the short run. This may be subjectively translating into periods of four years or more. For the most part, these long term estimates provide an upper bound to the demand responsiveness of the consumer, given negligible levels of contractual obligations and ability to financially move from PBX systems to ESSX Service.

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FLORIDA ELASTICITY MODELS

	----- S	M A L L	-----
	<2.5	>2.5	LONG TERM
R-SQ	0.9912	0.9626	0.987
STANDARD ERROR	0.036	0.155	1.05
RHO	YES	YES	YES
DURBIN WATSON	1.64	2.22	1.89
DIFFERENTIAL INTERCEPTS	NO	NO	YES
DIFFERENTIAL SLOPES	NO	NO	YES
EMPLOY ELASTICITY	8.56	12.68	N/A
EMPLOY T-STAT	6.6	3.56	N/A
12 ESSX REAL PRICE ELASTICITY			
ESSX REAL PRICE T-STAT	-2.1	-2.85	-16.26

FLORIDA ELASTICITY MODELS

	----- M	E D I U	M -----
	<2.5	>2.5	LONG TERM
R-SQ	0.984	0.968	0.977
STANDARD ERROR	0.039	0.069	0.615
RHO	YES	YES	YES
DURBIN WATSON	1.7	1.96	1.7
DIFFERENTIAL INTERCEPTS	NO	NO	YES
DIFFERENTIAL SLOPES	NO	NO	NO
EMPLOY ELASTICITY	8.04	3.95	5.82
EMPLOY T-STAT	7.1	1.86	8.71
25 ESSX REAL PRICE ELASTICITY			
ESSX REAL PRICE T-STAT	-1.02	-4.07	-18.1

FLORIDA ELASTICITY MODELS

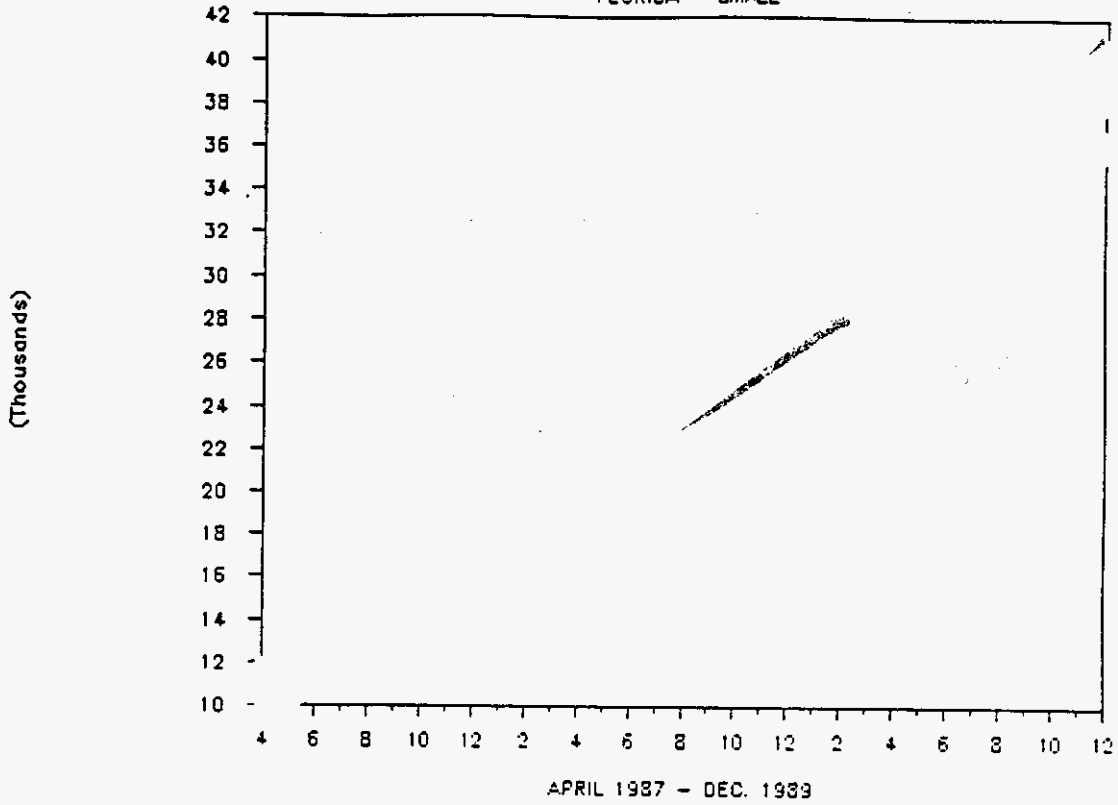
	----- L	A R G E	-----
	<2.5	>2.5	LONG TERM
R-SQ	0.971	0.982	0.996
STANDARD ERROR	0.046	0.043	0.588
RHO	YES	YES	YES
DURBIN WATSON	1.7	1.47	1.79
DIFFERENTIAL INTERCEPTS	NO	NO	YES
DIFFERENTIAL SLOPES	NO	NO	NO
EMPLOY ELASTICITY	9.25	6.68	7.87
EMPLOY T-STAT	10.38	6.36	7.88
38 ESSX REAL PRICE ELASTICITY			
ESSX REAL PRICE T-STAT	1.68	-3.57	-3.54

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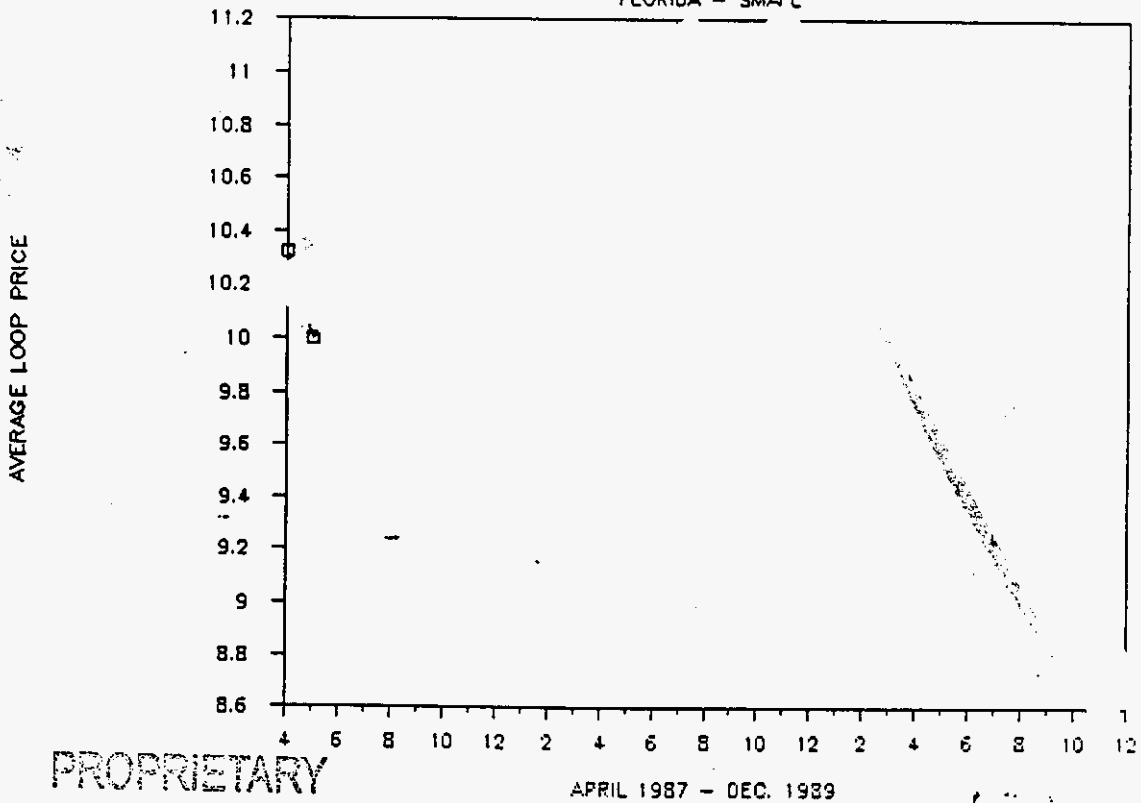
ESSX STATIONS (<2.5 MILES)

FLORIDA - SMALL



ESSX NOMINAL LOOP PRICE (<2.5 MILES)

FLORIDA - SMALL



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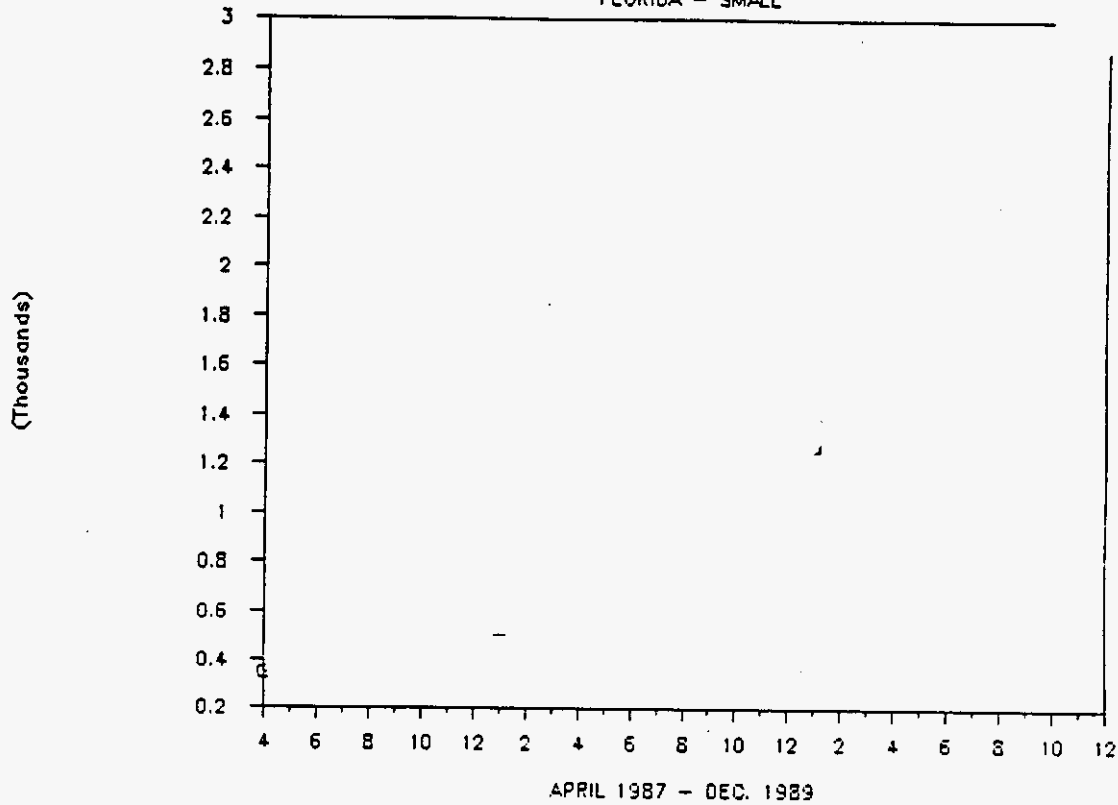
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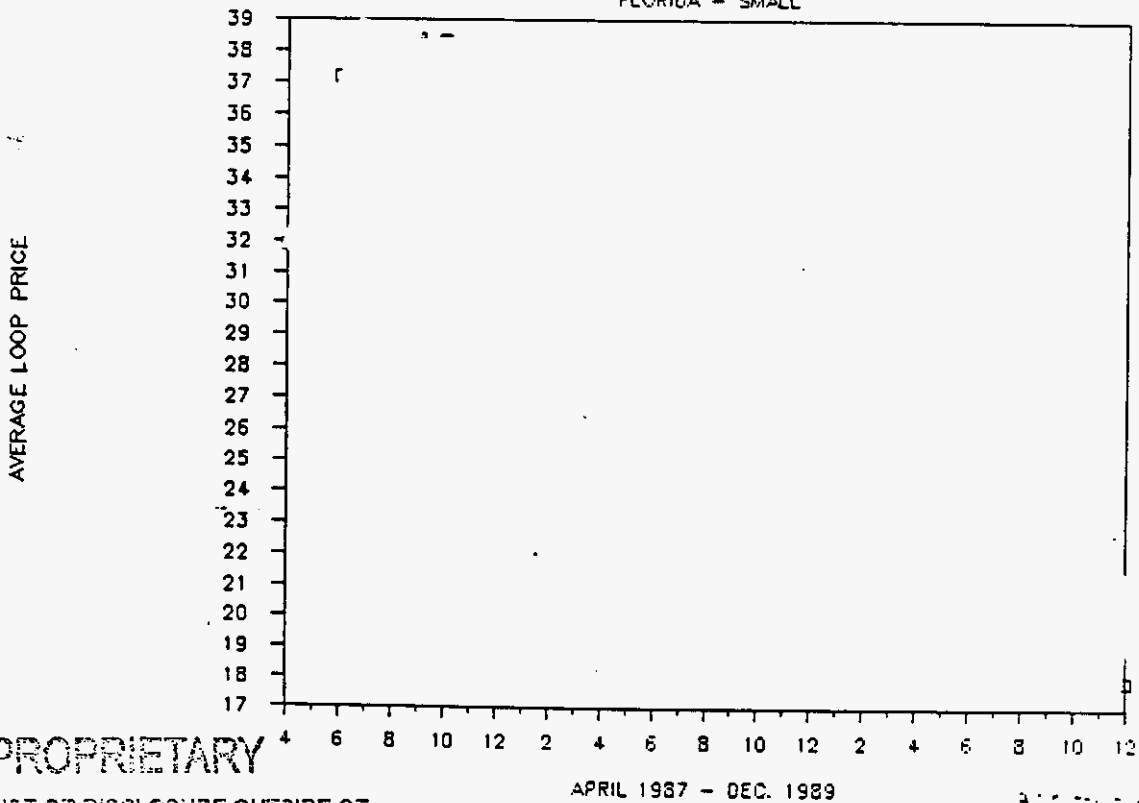
ESSX STATIONS (>2.5 MILES)

FLORIDA - SMALL



ESSX NOMINAL LOOP PRICE (>2.5 MILES)

FLORIDA - SMALL



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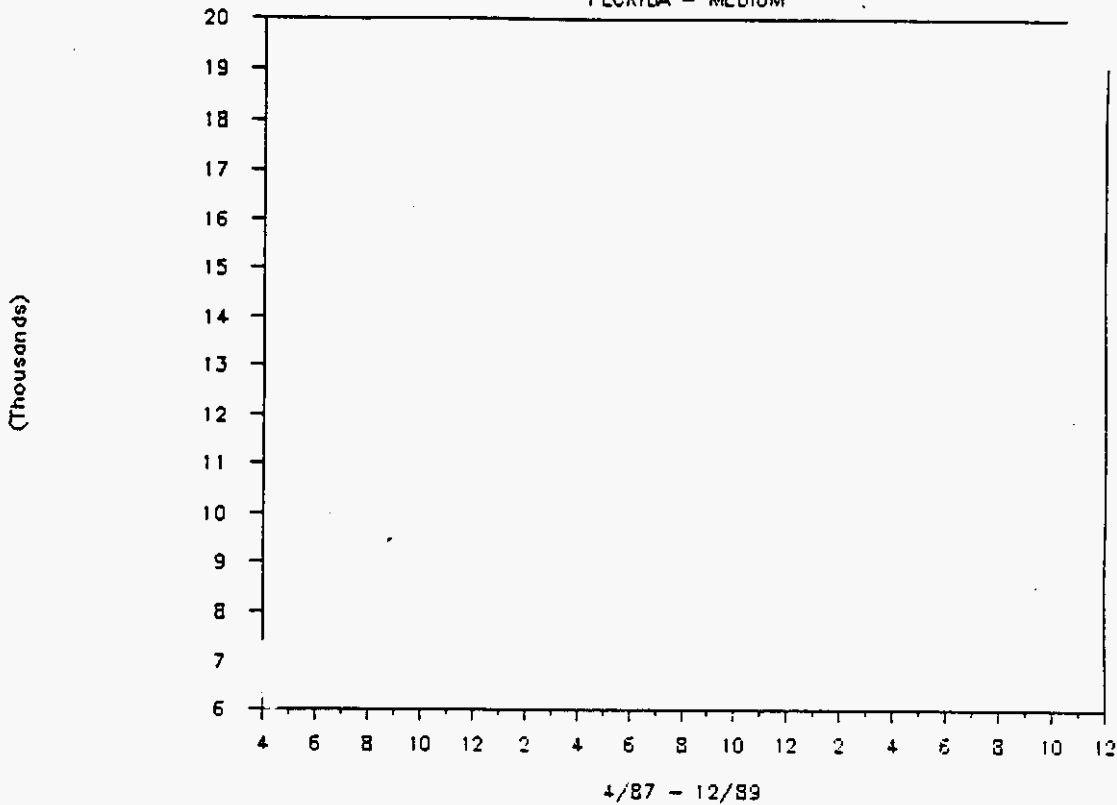
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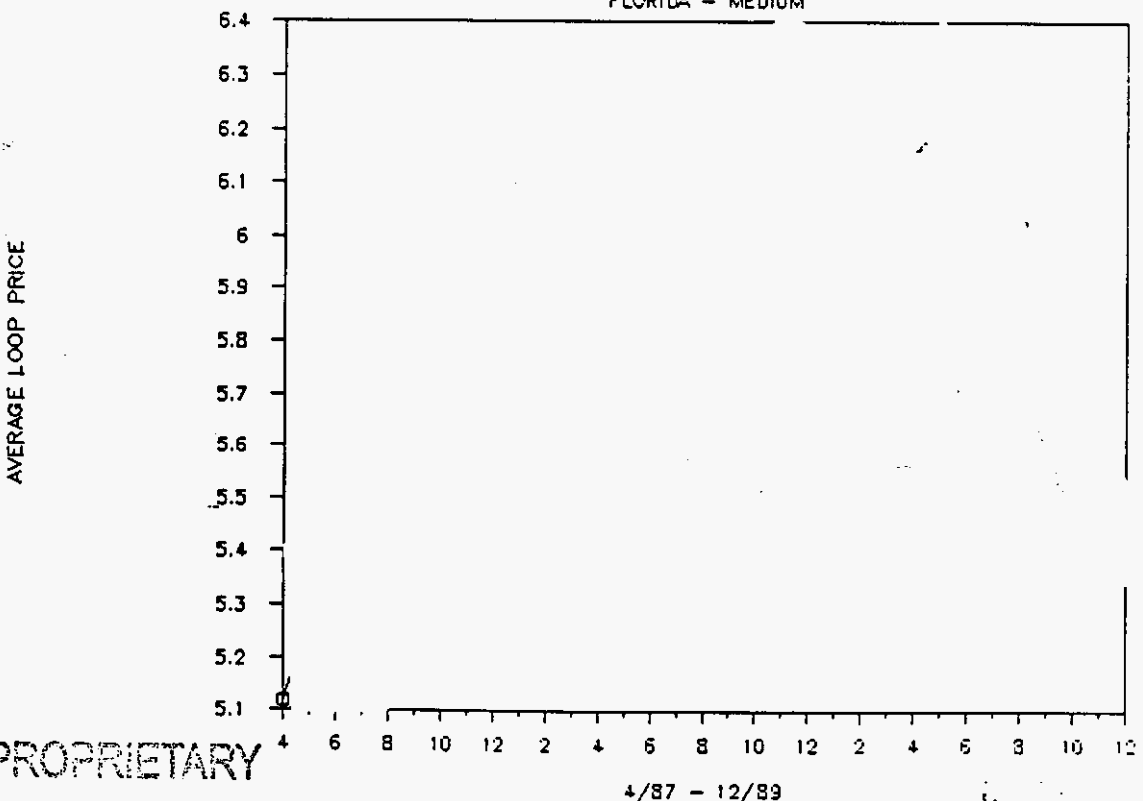
ESSX STATIONS (<2.5 MILES)

FLORIDA - MEDIUM



ESSX NOMINAL LOOP PRICE (<2.5 MILES)

FLORIDA - MEDIUM



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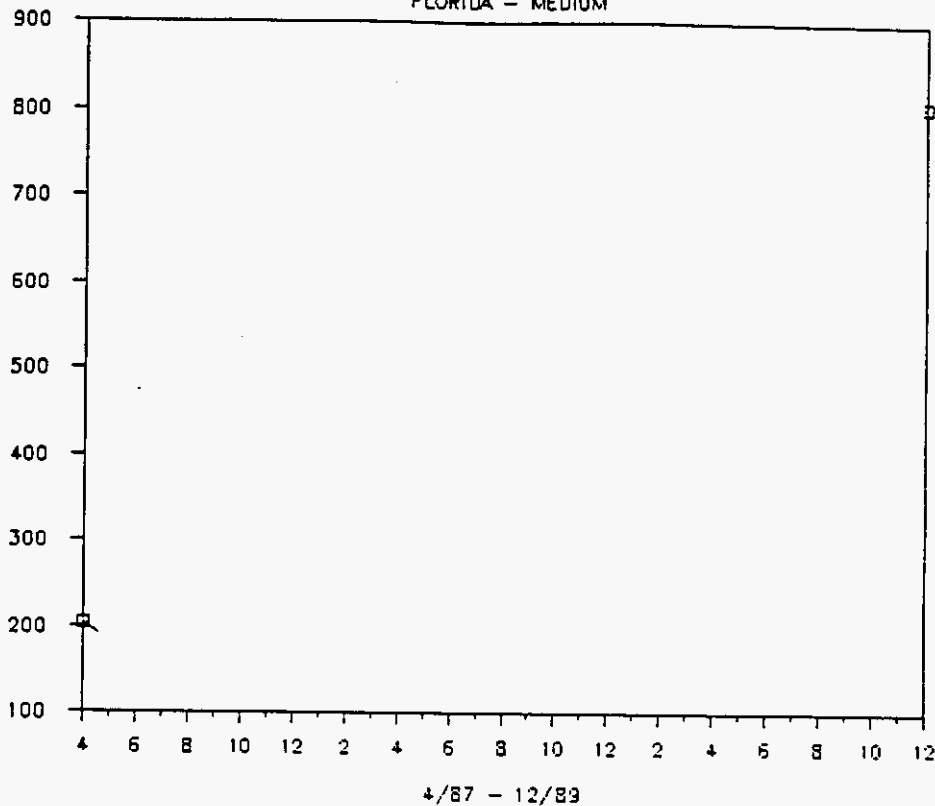
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ESSX STATIONS (>2.5 MILES)

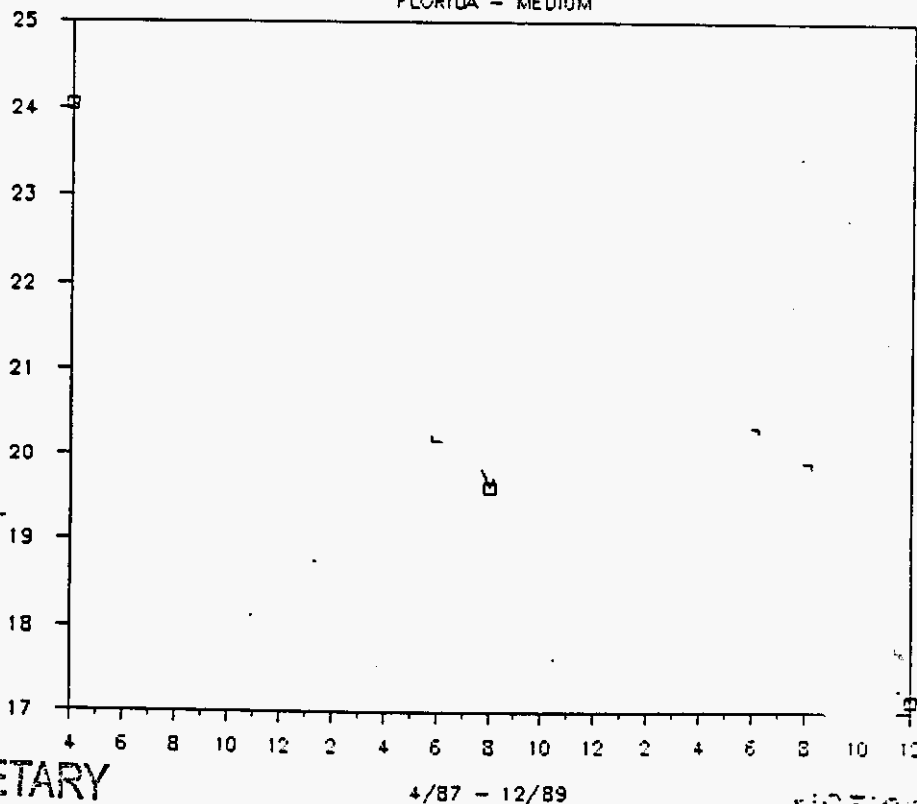
FLORIDA - MEDIUM



ESSX NOMINAL LOOP PRICE (>2.5 MILES)

FLORIDA - MEDIUM

AVERAGE LOOP PRICE



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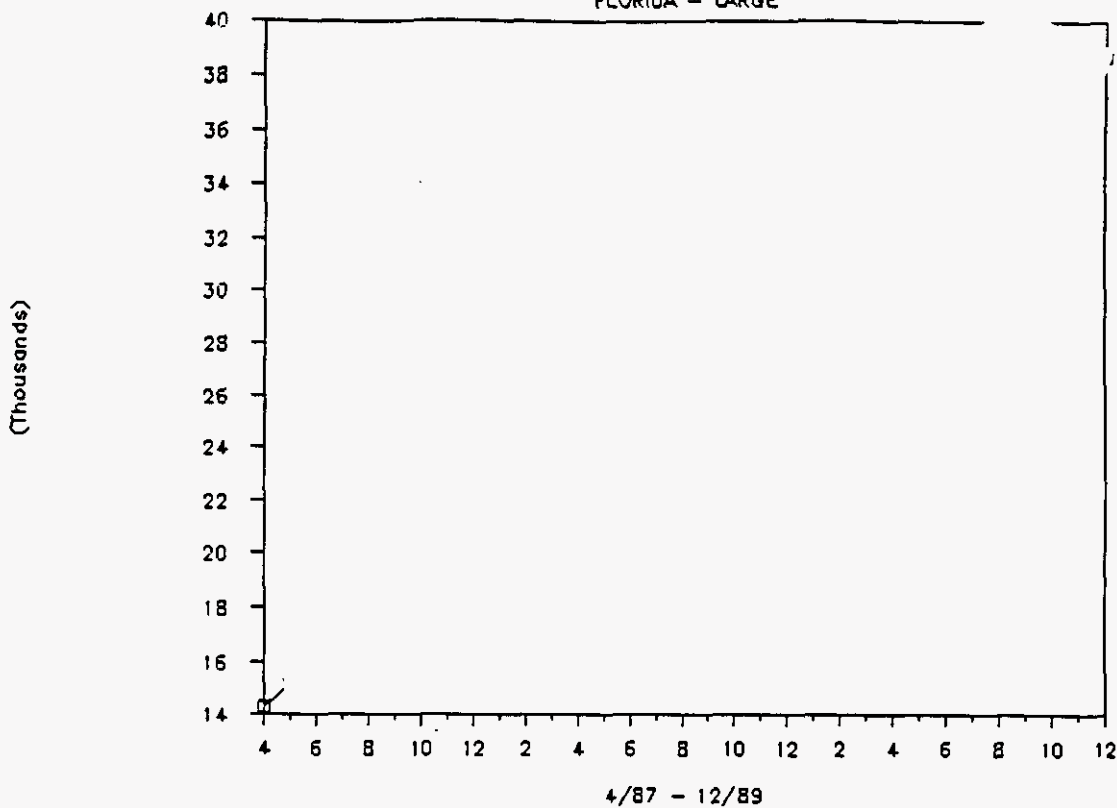
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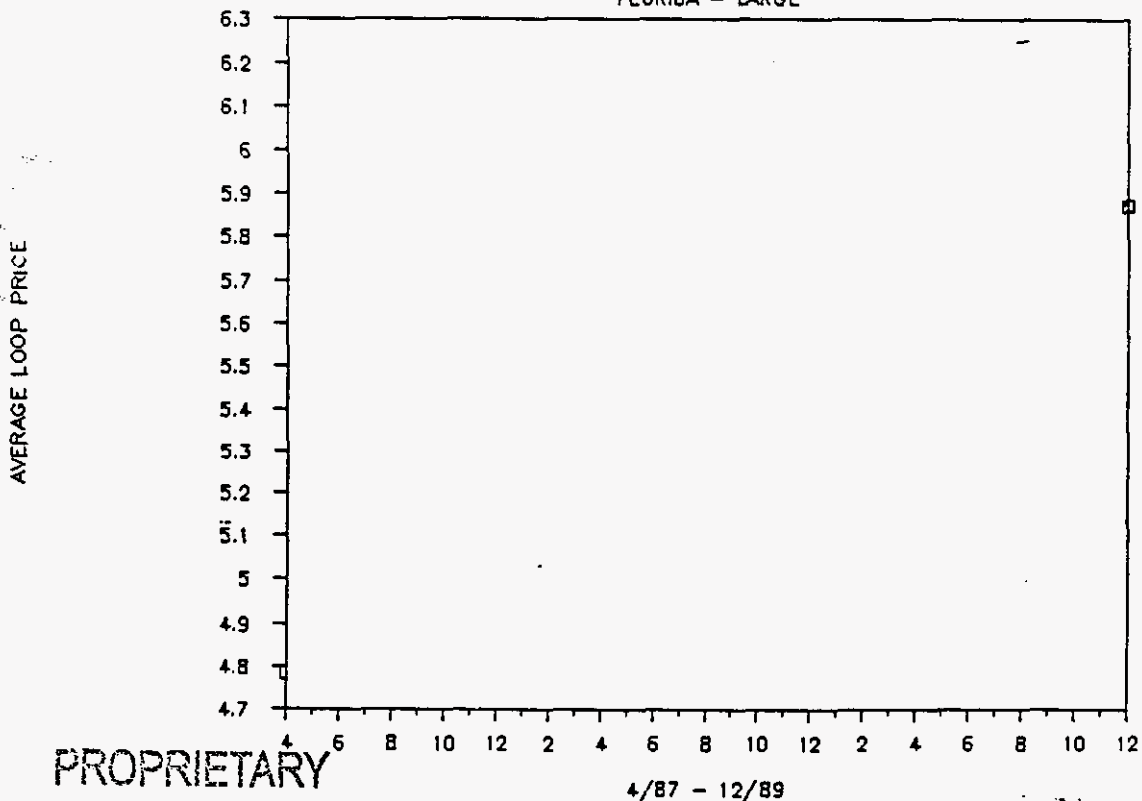
ESSX STATIONS (<2.5 MILES)

FLORIDA - LARGE



ESSX NOMINAL LOOP PRICE (<2.5 MILES)

FLORIDA - LARGE



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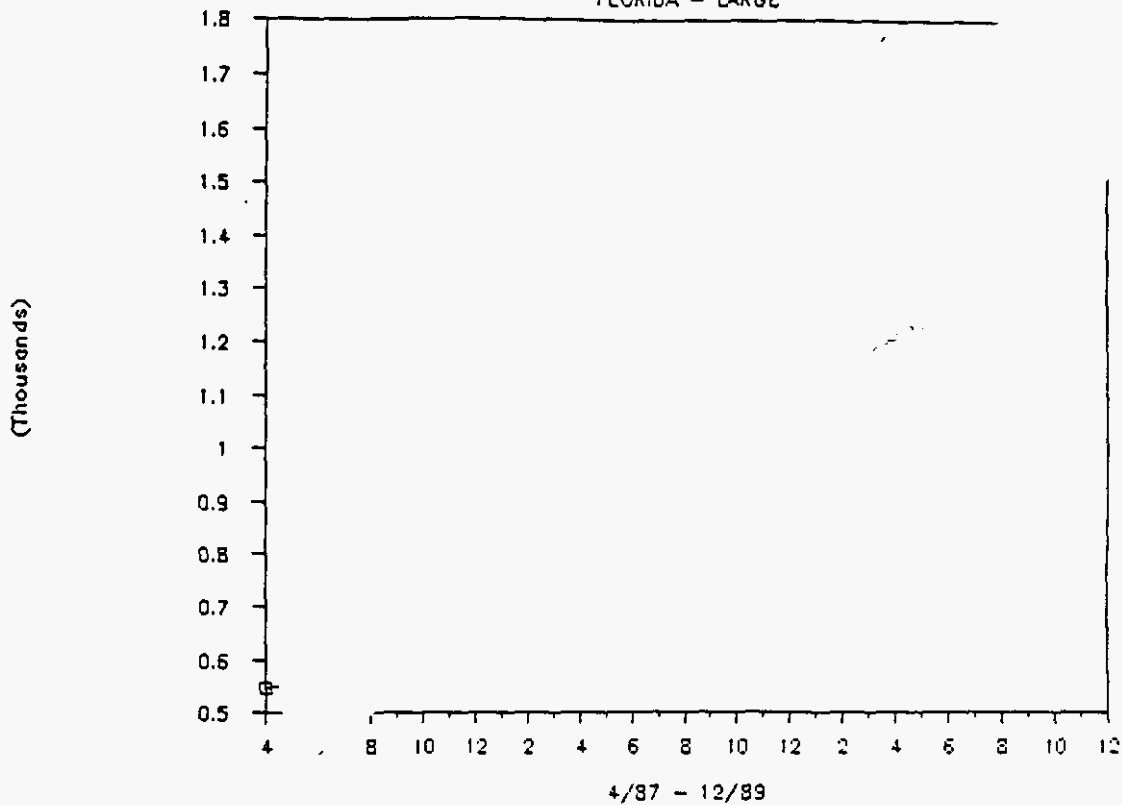
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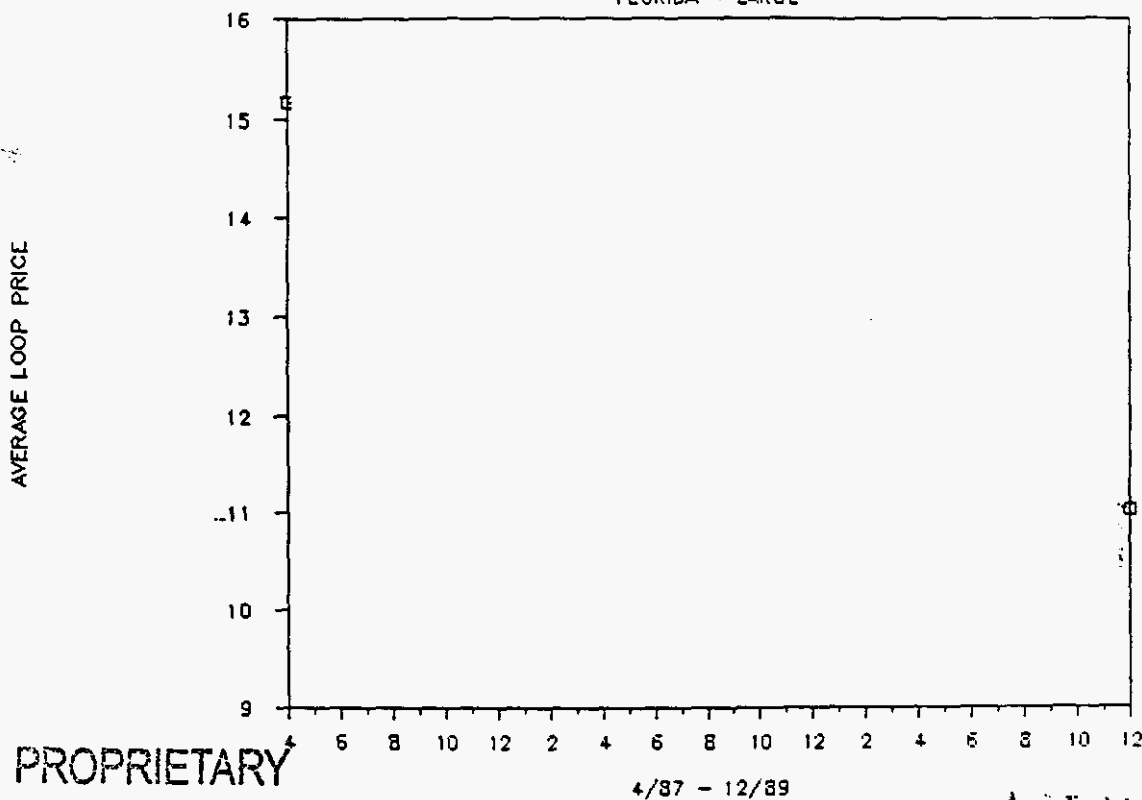
ESSX STATIONS (>2.5 MILES)

FLORIDA - LARGE



ESSX NOMINAL LOOP PRICE (>2.5 MILES)

FLORIDA - LARGE



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Hello/Bonjour -

```
Welcome to SHAZAM - Version 6.1 - JUN 1989 SYSTEM=IBM-PC PAR= 168
|_* FLORIDA SMALL ESSX - SHORT RUN ELASTICITY STUDY
|_* Comments: Aggregate price variable = mileage sensitive average loop
|_* price + "typical system" rate obtained from S. Bircheat. Employment
|_* data produced better fit than time and other trend variables that
|_* were specified.
|_FILE 4 FLS.PRN
UNIT 4 IS NOW ASSIGNED TO: FLS.PRN
|_FILE 14 SBCPI-EM.PRN
UNIT 14 IS NOW ASSIGNED TO: SBCPI-EM.PRN
|_READ(4) YR MO UNDERDEM UNDERREV OVERDEM OVERREV

...SAMPLE RANGE IS NOW SET TO: 1 33
|_READ(14) MO YR CPI FLEMP GAEMP NCEMP SCEMP
7 VARIABLES AND 33 OBSERVATIONS STARTING AT OBS 1

|_FILE 15 out.txt
UNIT 15 IS NOW ASSIGNED TO: out.txt
|_* -----
|_GENR TIME=TIME(0)
|_GENR UESSXPCE=((UNDERREV/UNDERDEM)+24.55)/CPI
|_GENR QESSXPCE=((OVERREV/OVERDEM)+24.55)/CPI
|_* ----- LOG OF REGRESSION VARIABLES -----
|_GENR LGFLEMP=LOG(FLEMP)
|_GENR LGEXPCU=LOG(UESSXPCE)
|_GENR LGEXPCQ=LOG(QESSXPCE)
|_GENR LGOVDEM=LOG(OVERDEM)
|_GENR LGUNDEM=LOG(UNDERDEM)
|_* ----- REGRESSIONS -----
```

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|_AUTO TOTDEM TOTPCE LGFLEMP /M

AGGREGATE STUDY: ALL MILEAGE BANDS

REQUIRED MEMORY IS PAR= 9 CURRENT PAR= 86

DEPENDENT VARIABLE = TOTDEM

..NOTE..R-SQUARE,ANOVA,RESIDUALS DONE ON ORIGINAL VARS

LEAST SQUARES ESTIMATION 33 OBSERVATIONS
BY COCHRANE-ORCUTT TYPE PROCEDURE WITH CONVERGENCE = 0.00100

ITERATION	RHO	LOG L.F.	SSE
1	0.00000	54.6050	0.70597E-01
2	0.61299	63.1972	0.41346E-01
3	0.69090	63.6643	0.39976E-01
4	0.72965	63.8647	0.39361E-01
5	0.75257	63.9761	0.39007E-01
6	0.76688	64.0433	0.38787E-01
7	0.77599	64.0853	0.38648E-01
8	0.78183	64.1119	0.38559E-01
9	0.78559	64.1288	0.38502E-01
10	0.78801	64.1397	0.38465E-01
11	0.78957	64.1466	0.38441E-01
12	0.79058	64.1511	0.38425E-01
13	0.79123	64.1540	0.38415E-01

LOG L.F. = 64.1540 AT RHO = 0.79123

	ASYMPTOTIC ESTIMATE	ASYMPTOTIC VARIANCE	ASYMPTOTIC ST.ERROR	ASYMPTOTIC T-RATIO
RHO	0.79123	0.01133	0.10645	7.43271

R-SQUARE = 0.9925 R-SQUARE ADJUSTED = 0.9920
 VARIANCE OF THE ESTIMATE-SIGMA**2 = 0.12805E-02
 STANDARD ERROR OF THE ESTIMATE-SIGMA = 0.35784E-01
 SUM OF SQUARED ERRORS-SSE= 0.38415E-01
 MEAN OF DEPENDENT VARIABLE = 10.060
 LOG OF THE LIKELIHOOD FUNCTION = 64.1540

MODEL SELECTION TESTS - SEE JUDGE ET.AL.(1985, P.242)
 AKAIKE (1969) FINAL PREDICTION ERROR- FPE = 0.13969E-02
 (FPE ALSO KNOWN AS ANEMIYA PREDICTION CRITERION -PC)
 AKAIKE (1973) INFORMATION CRITERION- LOG AIC = -6.5740
 SCHWARZ(1978) CRITERION-LOG SC = -6.4379
 MODEL SELECTION TESTS - SEE RAMANATHAN(1989,P.166)
 CRAVEN-WAHBA(1979) GENERALIZED CROSS VALIDATION(1979) -GCV= 0.14086E-02
 HANNAN AND QUINN(1979) CRITERION -HQ= 0.14616E-02
 RICE (1984) CRITERION-RICE= 0.14228E-02
 SHIBATA (1981) CRITERION-SHIBATA= 0.13758E-02
 SCHWARTZ (1978) CRITERION-SC= 0.15997E-02
 AKAIKE (1974)INFORMATION CRITERION-AIC= 0.13962E-02

	ANALYSIS OF VARIANCE - FROM MEAN		
	SS	DF	MS
REGRESSION	5.0986	2.	2.5493
ERROR	0.38415E-01	30.	0.12805E-02
TOTAL	5.1370	32.	0.16053

	ANALYSIS OF VARIANCE - FROM ZERO		
	SS	DF	MS
REGRESSION	3344.5	3.	1114.8
ERROR	0.38415E-01	30.	0.12805E-02
TOTAL	3344.6	33.	101.35

VARIABLE ESTIMATED STANDARD T-RATIO PARTIAL STANDARDIZED ELASTICITY

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	A	B	C	D	E	F
NAME	COEFFICIENT	ERROR	30 DF	CORR.	COEFFICIENT	AT MEANS
TOTPCE			-2.2465	-0.3795		
LGFLEMP			8.8252	0.8497		
CONSTANT			-8.5595	-0.8423		

VARIANCE-COVARIANCE MATRIX OF COEFFICIENTS

	TOTPCE	LGFLEMP	CONSTANT
TOTPCE	0.48624		
LGFLEMP	0.60297	1.1701	
CONSTANT	-4.5537	-9.2520	73.415

CORRELATION MATRIX OF COEFFICIENTS

	TOTPCE	LGFLEMP	CONSTANT
TOTPCE	1.0000		
LGFLEMP	0.79938	1.0000	
CONSTANT	-0.76216	-0.99822	1.0000

OBS. NO.	A OBSERVED VALUE	B PREDICTED VALUE	C CALCULATED RESIDUAL
17 1	?	?	-0.97938E-01
2		?	-0.21983E-01
3		?	-0.11969E-01
4		?	0.28155E-01
5		?	0.63662E-02
6		?	-0.25450E-01
7		?	0.13316E-01
8		?	0.10741E-01
9		?	0.24516E-02
10		?	0.88827E-01
11		?	-0.14414E-01
12		?	0.48879E-01
13		?	0.53391E-02
14		?	0.28774E-01
15		?	0.25306E-01
16		?	-0.19419E-01
17		?	0.51209E-01
18		?	0.24542E-01
19		?	-0.43770E-02
20		?	-0.82868E-01
21		?	0.63054E-01
22		?	-0.78608E-02
23		?	-0.21996E-01
24		?	0.43693E-01
25		?	-0.23483E-01
26		?	-0.19808E-01
27		?	-0.19956E-01
28		?	-0.36448E-01
29		?	-0.71968E-02
30		?	0.54259E-02
31		?	0.11071E-01
32		?	0.15006E-01
49 33		?	0.20502E-01

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DURBIN-WATSON = 1.9485 VON NEUMANN RATIO = 2.0094 RHO = -0.08776
 RESIDUAL SUM = 0.77491E-01 RESIDUAL VARIANCE = 0.14807E-02
 SUM OF ABSOLUTE ERRORS = 0.90782
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.9914
 RUNS TEST: 14 RUNS, 18 POSITIVE, 15 NEGATIVE, NORMAL STATISTIC = -1.2000
 COEFFICIENT OF SKEWNESS = -0.3674 WITH STANDARD DEVIATION OF 0.4086
 COEFFICIENT OF EXCESS KURTOSIS = 1.4940 WITH STANDARD DEVIATION OF 0.7984

GOODNESS OF FIT TEST FOR NORMALITY OF RESIDUALS - 6 GROUPS
 OBSERVED 2.0 1.0 12.0 13.0 4.0 1.0
 EXPECTED 0.8 4.5 11.3 11.3 4.5 0.8
 CHI-SQUARE = 5.2264 WITH 1 DEGREES OF FREEDOM

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_AUTO TOTDEM TOTPCE(2.2) LGFLEMP /M

AGGREGATE STUDY: ALL MILEAGE BANDS

REQUIRED MEMORY IS PAR= 9 CURRENT PAR= 86

DEPENDENT VARIABLE = TOTDEM

..NOTE..R-SQUARE,ANOVA,RESIDUALS DONE ON ORIGINAL VARS

LEAST SQUARES ESTIMATION 31 OBSERVATIONS
BY COCHRANE-ORCUTT TYPE PROCEDURE WITH CONVERGENCE = 0.00100

ITERATION	RHO	LOG L.F.	SSE
1	0.00000	52.8849	0.59856E-01
2	0.56650	59.8310	0.37763E-01
3	0.64085	60.2466	0.36596E-01
4	0.67658	60.4203	0.36091E-01
5	0.69786	60.5187	0.35798E-01
6	0.71169	60.5812	0.35610E-01
7	0.72109	60.6233	0.35481E-01
8	0.72764	60.6525	0.35392E-01
9	0.73226	60.6731	0.35329E-01
10	0.73557	60.6877	0.35283E-01
11	0.73794	60.6982	0.35251E-01
12	0.73965	60.7058	0.35227E-01
13	0.74089	60.7113	0.35210E-01
14	0.74179	60.7153	0.35197E-01

LOG L.F. = 60.7153 AT RHO = 0.74179

	ASYMPTOTIC ESTIMATE	ASYMPTOTIC VARIANCE	ASYMPTOTIC ST.ERROR	ASYMPTOTIC T-RATIO
RHO	0.74179	0.01451	0.12045	6.15847

R-SQUARE = 0.9910 R-SQUARE ADJUSTED = 0.9904
 VARIANCE OF THE ESTIMATE-SIGMA**2 = 0.12571E-02
 STANDARD ERROR OF THE ESTIMATE-SIGMA = 0.35455E-01
 SUM OF SQUARED ERRORS-SSE= 0.35197E-01
 MEAN OF DEPENDENT VARIABLE = 10.108
 LOG OF THE LIKELIHOOD FUNCTION = 60.7153

MODEL SELECTION TESTS - SEE JUDGE ET.AL.(1985, P.242)
 AKAIKE (1969) FINAL PREDICTION ERROR- FPE = 0.13787E-02
 (FPE ALSO KNOWN AS AMEMIYA PREDICTION CRITERION -PC)
 AKAIKE (1973) INFORMATION CRITERION- LOG AIC = -6.5872
 SCHWARZ(1978) CRITERION-LOG SC = -6.4484
 MODEL SELECTION TESTS - SEE RAMANATHAN(1989,P.166)
 CRAVEN-WAHBA(1979) GENERALIZED CROSS VALIDATION(1979) -GCV= 0.13917E-02
 HANNAN AND QUINN(1979) CRITERION -HQ= 0.14416E-02
 RICE (1984) CRITERION-RICE= 0.14079E-02
 SHIBATA (1981) CRITERION-SHIBATA= 0.13552E-02
 SCHWARTZ (1978) CRITERION-SC= 0.15830E-02
 AKAIKE (1974)INFORMATION CRITERION-AIC= 0.13779E-02

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	ANALYSIS OF VARIANCE - FROM MEAN		
	SS	DF	MS
REGRESSION	3.8969	2.	1.9484
ERROR	0.35197E-01	28.	0.12571E-02
TOTAL	3.9321	30.	0.13107

	ANALYSIS OF VARIANCE - FROM ZERO		
	SS	DF	MS
REGRESSION	3171.3	3.	1057.1
ERROR	0.35197E-01	28.	0.12571E-02
TOTAL	3171.3	31.	102.30

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VARIABLE	SUM OF LAG COEFS	STD ERROR	T-RATIO	MEAN LAG
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FO1B25Z

0000044

	TOTPCE	7.4989	1.6720	4.4851	-0.47013		
	A	B	C	D	E	F	G
VARIABLE NAME	ESTIMATED COEFFICIENT	STANDARD ERROR	T-RATIO 28 DF	PARTIAL CORR.	STANDARDIZED COEFFICIENT	ELASTICITY AT MEANS	
4 5 6 TOTPCE			-2.5209	-0.4301			
LGFLEMP			8.7774	0.8564			
CONSTANT			-8.5277	-0.8497			

VARIANCE-COVARIANCE MATRIX OF COEFFICIENTS

TOTPCE	0.48893		
LGFLEMP	0.59657	1.1134	
CONSTANT	-4.5017	-8.7842	69.554

CORRELATION MATRIX OF COEFFICIENTS

TOTPCE	1.0000		
LGFLEMP	0.80857	1.00000	
CONSTANT	-0.77196	-0.99821	1.0000

OBS. NO.	A OBSERVED VALUE	B PREDICTED VALUE	C CALCULATED RESIDUAL			
17 3			-0.96062E-01	*	I	
4			-0.72230E-02		*I	
5			0.16781E-01		I *	
6			-0.22578E-01		* I	
7			-0.12420E-01		* I	
8			0.10450E-01		I*	
9			-0.58009E-02		*I	
10			0.73361E-01		I	
11			-0.10367E-01		*I	
12			0.51702E-01		I	*
13			0.62687E-02		I*	
14			0.34076E-01		I	*
15			0.18707E-01		I	*
16			-0.23031E-01		* I	
17			0.54506E-01		I	*
18			0.30801E-01		I	*
19			-0.59169E-02		*I	
20			-0.76157E-01	*	I	
21			0.55989E-01		I	*
22			0.58784E-02		I*	
23			0.32161E-02		*	
24			0.50747E-01		I	*
25			-0.11964E-01		* I	
26			-0.21835E-01		* I	
27			-0.32658E-01		* I	
28			-0.40572E-01	*	I	
29			-0.16231E-01		* I	
30			0.28966E-02		*	
31			0.76570E-02		I*	
32			0.17673E-01		I *	
47 33			0.13363E-01		I *	

DURBIN-WATSON = 1.8190 VON NEUMANN RATIO = 1.8796 RHO = -0.02637
 RESIDUAL SUM = 0.71257E-01 RESIDUAL VARIANCE = 0.14384E-02
 SUM OF ABSOLUTE ERRORS = 0.83689
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.9898
 RUNS TEST: 14 RUNS, 17 POSITIVE, 14 NEGATIVE, NORMAL STATISTIC = -0.8688
 COEFFICIENT OF SKEWNESS = -0.4806 WITH STANDARD DEVIATION OF 0.4205
 COEFFICIENT OF EXCESS KURTOSIS = 1.0558 WITH STANDARD DEVIATION OF 0.8208

GOODNESS OF FIT TEST FOR NORMALITY OF RESIDUALS - 6 GROUPS
 OBSERVED 2.0 1.0 11.0 12.0 4.0 1.0
 EXPECTED 0.7 4.2 10.6 10.6 4.2 0.7
 CHI-SQUARE = 5.1559 WITH 1 DEGREES OF FREEDOM

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|_AUTO LGUNDEM LGEXPCU LGFLEMP /M

REQUIRED MEMORY IS PAR= 9 CURRENT PAR= 168

DEPENDENT VARIABLE = LGUNDEM

..NOTE..R-SQUARE,ANOVA,RESIDUALS DONE ON ORIGINAL VARS

LEAST SQUARES ESTIMATION 33 OBSERVATIONS
BY COCHRANE-ORCUTT TYPE PROCEDURE WITH CONVERGENCE = 0.00100

ITERATION	RHO	LOG L.F.	SSE
1	0.00000	51.7134	0.84120E-01
2	0.64625	61.5912	0.45477E-01
3	0.73371	62.3364	0.43164E-01
4	0.78307	62.7584	0.41849E-01
5	0.81477	63.0365	0.40975E-01
6	0.83501	63.2158	0.40404E-01
7	0.84753	63.3266	0.40046E-01
8	0.85509	63.3931	0.39828E-01
9	0.85958	63.4323	0.39698E-01
10	0.86223	63.4554	0.39622E-01
11	0.86379	63.4690	0.39577E-01
12	0.86470	63.4769	0.39550E-01

LOG L.F. = 63.4769 AT RHO = 0.86470

	ASYMPTOTIC ESTIMATE	ASYMPTOTIC VARIANCE	ASYMPTOTIC ST. ERROR	ASYMPTOTIC T-RATIO
RHO	0.86470	0.00765	0.08744	9.88957

R-SQUARE = 0.9917 R-SQUARE ADJUSTED = 0.9912
 VARIANCE OF THE ESTIMATE-SIGMA**2 = 0.13183E-02
 STANDARD ERROR OF THE ESTIMATE-SIGMA = 0.36309E-01
 SUM OF SQUARED ERRORS-SSE= 0.39550E-01
 MEAN OF DEPENDENT VARIABLE = 10.020
 LOG OF THE LIKELIHOOD FUNCTION = 63.4769

MODEL SELECTION TESTS - SEE JUDGE ET.AL.(1985, P.242)
 AKAIKE (1969) FINAL PREDICTION ERROR- FPE = 0.14382E-02
 (FPE ALSO KNOWN AS AMEMIYA PREDICTION CRITERION -PC)
 AKAIKE (1973) INFORMATION CRITERION- LOG AIC = -6.5449
 SCHWARZ(1978) CRITERION-LOG SC = -6.4088
 MODEL SELECTION TESTS - SEE RAMANATHAN(1989,P.166)
 CRAVEN-WAHBA(1979) GENERALIZED CROSS VALIDATION(1979) -GCV= 0.14502E-02
 HANNAN AND QUINN(1979) CRITERION -HQ= 0.15048E-02
 RICE (1984) CRITERION-RICE= 0.14648E-02
 SHIBATA (1981) CRITERION-SHIBATA= 0.14164E-02
 SCHWARTZ (1978) CRITERION-SC= 0.16470E-02
 AKAIKE (1974)INFORMATION CRITERION-AIC= 0.14375E-02

ANALYSIS OF VARIANCE - FROM MEAN			
	SS	DF	MS
REGRESSION	4.7337	2.	2.3668
ERROR	0.39550E-01	30.	0.13183E-02
TOTAL	4.7732	32.	0.14916

ANALYSIS OF VARIANCE - FROM ZERO			
	SS	DF	MS
REGRESSION	3317.6	3.	1105.9
ERROR	0.39550E-01	30.	0.13183E-02
TOTAL	3317.7	33.	100.54

VARIABLE NAME	ESTIMATED COEFFICIENT	STANDARD ERROR	T-RATIO 30 DF	PARTIAL STANDARDIZED ELASTICITY CORR. COEFFICIENT AT MEANS
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	A	B	C	D	E	F
1 LGEXPCU			-2.1054	-0.3588		
2 LGFLEMP			6.6319	0.7710		
3 CONSTANT			-6.3678	-0.7581		

VARIANCE-COVARIANCE MATRIX OF COEFFICIENTS

LGEXPCU	0.70186		
LGFLEMP	0.82449	1.6655	
CONSTANT	-6.1666	-13.192	104.94
	LGEXPCU	LGFLEMP	CONSTANT

CORRELATION MATRIX OF COEFFICIENTS

LGEXPCU	1.0000		
LGFLEMP	0.76259	1.0000	
CONSTANT	-0.71854	-0.99784	1.00000
	LGEXPCU	LGFLEMP	CONSTANT

OBS. NO.	A OBSERVED VALUE	B PREDICTED VALUE	C CALCULATED RESIDUAL			
16 1			-0.12896	X		I
2			-0.18412E-01		*	I
3			0.97333E-02			I*
4			0.22980E-01			I *
5			0.27795E-01			I *
6			-0.40917E-01		*	I
7			0.22954E-01			I *
8			0.16639E-01			I *
9			0.10984E-01			I *
10			0.88074E-01			I *
11			0.32797E-02			I *
12			0.55256E-01			I *
13			0.49884E-02			I *
14			0.32594E-01			I *
15			0.26409E-01			I *
16			-0.10316E-01		*	I
17			0.39181E-01			I *
18			0.64538E-02			I *
19			-0.16177E-01		*	I
20			-0.78349E-01		*	I
21			0.65326E-01			I *
22			-0.82485E-02			I *
23			-0.21351E-01		*	I
24			0.40464E-01			I *
25			-0.17546E-01		*	I
26			-0.22416E-01		*	I
27			-0.21222E-01		*	I
28			-0.36895E-01		*	I
29			-0.82951E-02		*	I
30			0.11565E-01			I *
31			0.13946E-01			I *
32			0.19935E-01			I *
48 33			0.22067E-01			I *

DURBIN-WATSON = 1.6435 VON NEUMANN RATIO = 1.6948 RHO = 0.01375
 RESIDUAL SUM = 0.11152 RESIDUAL VARIANCE = 0.17329E-02
 SUM OF ABSOLUTE ERRORS = 0.96973
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.9892
 RUNS TEST: 12 RUNS, 20 POSITIVE, 13 NEGATIVE, NORMAL STATISTIC = -1.7649
 COEFFICIENT OF SKEWNESS = -0.9921 WITH STANDARD DEVIATION OF 0.4086
 COEFFICIENT OF EXCESS KURTOSIS = 3.0533 WITH STANDARD DEVIATION OF 0.7984

GOODNESS OF FIT TEST FOR NORMALITY OF RESIDUALS - 6 GROUPS
 OBSERVED 2.0 2.0 9.0 15.0 4.0 1.0
 EXPECTED 0.8 4.5 11.3 11.3 4.5 0.8
 CHI-SQUARE = 5.2739 WITH 1 DEGREES OF FREEDOM

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_AUTO LGOVDEM LGEXPCO LGFLEMP /M

REQUIRED MEMORY IS PAR= 9 CURRENT PAR= 168

DEPENDENT VARIABLE = LGOVDEM

..NOTE..R-SQUARE,ANOVA,RESIDUALS DONE ON ORIGINAL VARS

LEAST SQUARES ESTIMATION 33 OBSERVATIONS
BY COCHRANE-ORCUTT TYPE PROCEDURE WITH CONVERGENCE = 0.00100

ITERATION	RHO	LOG L.F.	SSE
1	0.00000	5.71211	1.3668
2	0.68168	15.9215	0.72235
3	0.69351	15.9142	0.72200
4	0.69474	15.9129	0.72198
5	0.69487	15.9127	0.72198

LOG L.F. = 15.9127 AT RHO = 0.69487

	ASYMPTOTIC ESTIMATE	ASYMPTOTIC VARIANCE	ASYMPTOTIC ST.ERROR	ASYMPTOTIC T-RATIO
RHO	0.69487	0.01567	0.12518	5.55078

R-SQUARE = 0.9650 R-SQUARE ADJUSTED = 0.9626
 VARIANCE OF THE ESTIMATE-SIGMA**2 = 0.24066E-01
 STANDARD ERROR OF THE ESTIMATE-SIGMA = 0.15513
 SUM OF SQUARED ERRORS-SSE= 0.72198
 MEAN OF DEPENDENT VARIABLE = 6.7148
 LOG OF THE LIKELIHOOD FUNCTION = 15.9127

MODEL SELECTION TESTS - SEE JUDGE ET.AL.(1985, P.242)
 AKAIKE (1969) FINAL PREDICTION ERROR- FPE = 0.26254E-01
 (FPE ALSO KNOWN AS AMEMIYA PREDICTION CRITERION -PC)
 AKAIKE (1973) INFORMATION CRITERION- LOG AIC = -3.6405
 SCHWARZ(1978) CRITERION-LOG SC = -3.5044
 MODEL SELECTION TESTS - SEE RAMANATHAN(1989,P.166)
 CRAVEN-WAHBA(1979) GENERALIZED CROSS VALIDATION(1979) -GCV= 0.26473E-01
 HANNAN AND QUINN(1979) CRITERION -HQ= 0.27470E-01
 RICE (1984) CRITERION-RICE= 0.26740E-01
 SHIBATA (1981) CRITERION-SHIBATA= 0.25856E-01
 SCHWARTZ (1978) CRITERION-SC= 0.30065E-01
 AKAIKE (1974)INFORMATION CRITERION-AIC= 0.26241E-01

ANALYSIS OF VARIANCE - FROM MEAN

	SS	DF	MS
REGRESSION	19.893	2.	9.9465
ERROR	0.72198	30.	0.24066E-01
TOTAL	20.615	32.	0.64422

ANALYSIS OF VARIANCE - FROM ZERO

	SS	DF	MS
REGRESSION	1507.8	3.	502.61
ERROR	0.72198	30.	0.24066E-01
TOTAL	1508.5	33.	45.713

VARIABLE NAME	A ESTIMATED COEFFICIENT	B STANDARD ERROR	C T-RATIO 30 DF	D PARTIAL CORR.	E STANDARDIZED COEFFICIENT	F ELASTICITY AT MEANS
LGEXPCO			2.8462			-0.4611
LGFLEMP			3.5648			0.5455
CONSTANT			-3.4464			-0.5326

VARIANCE-COVARIANCE MATRIX OF COEFFICIENTS
 LGEXPCO 0.48919

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1 LGFLEMP
 2 CONSTANT 895.97
 LGEXPCO LGFLEMP CONSTANT

CORRELATION MATRIX OF COEFFICIENTS

LGEXPCO 1.0000
 LGFLEMP 0.78810 1.00000
 CONSTANT -0.78087 -0.99993 1.00000

OBS. NO.	A OBSERVED VALUE	B PREDICTED VALUE	C CALCULATED RESIDUAL
1	5		0.92017E-01
2			0.31403E-01
3			-0.13869
4			0.28138
5			-0.30033
6			0.30848
7			0.59988E-02
8			0.46072E-02
9			-0.56133E-01
10			0.78918E-01
11			-0.37346
12			-0.14471
13			-0.14524
14			-0.16429
15			-0.10260
16			-0.21242
17			0.18513
18			0.25053
19			0.12845
20			-0.33814E-01
21			0.97565E-01
22			-0.35499E-01
23			-0.34783E-01
24			0.66641E-01
25			-0.14041
26			0.13893E-01
27			0.10384E-01
28			0.22274E-01
29			0.61885E-01
30			0.25170E-01
31			0.39105E-01
32			0.33255E-02
33			0.40281E-01

DURBIN-WATSON = 2.2274 VON NEUMANN RATIO = 2.2970 RHO = -0.12092
 RESIDUAL SUM = -0.63940E-01 RESIDUAL VARIANCE = 0.24202E-01
 SUM OF ABSOLUTE ERRORS = 3.6298
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.9650
 RUNS TEST: 15 RUNS, 21 POSITIVE, 12 NEGATIVE, NORMAL STATISTIC = -0.4876
 COEFFICIENT OF SKEWNESS = -0.2245 WITH STANDARD DEVIATION OF 0.4086
 COEFFICIENT OF EXCESS KURTOSIS = 0.5706 WITH STANDARD DEVIATION OF 0.7984

GOODNESS OF FIT TEST FOR NORMALITY OF RESIDUALS - 6 GROUPS
 OBSERVED 1.0 3.0 8.0 17.0 4.0 0.0
 EXPECTED 0.8 4.5 11.3 11.3 4.5 0.8
 CHI-SQUARE = 5.2454 WITH 1 DEGREES OF FREEDOM
 |_STOP

1m37m< 31mC:\SHAZAM2 37m> 33m33m

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Hello/Bonjour -

Welcome to SHAZAM - Version 6.1 - JUN 1989 SYSTEM=IBM-PC PAR= 166

|_* FLORIDA MEDIUM ESSX - SHORT TERM ELASTICITY STUDY

|_FILE 4 FLM.PRN

UNIT 4 IS NOW ASSIGNED TO: FLM.PRN

|_FILE 12 NMP-SB.PRN

UNIT 12 IS NOW ASSIGNED TO: NMP-SB.PRN

|_FILE 14 SBCPI-EM.PRN

UNIT 14 IS NOW ASSIGNED TO: SBCPI-EM.PRN

|_FILE 13 PBX-SB.PRN

UNIT 13 IS NOW ASSIGNED TO: PBX-SB.PRN

|_READ(13) MO YR FLSPBX FLMPBX FLLPBX GASPBX GAMPBX GALPBX NCSPBX NCMPBX &
| NCLPBX SCSPBX SCMPBX SCLPBX

...SAMPLE RANGE IS NOW SET TO: 1 33

|_READ(4) YR MO UNDERDEM UNDERREV OVERDEM OVERREV

6 VARIABLES AND 33 OBSERVATIONS STARTING AT OBS 1

|_READ(12) MO YR FLSNMP FLMNMP FLLNMP GASNMP GAMNMP GALNMP NCSNMP NCMNMP &
| NCLNMP SCSNMP SCMNMP SCLNMP

14 VARIABLES AND 33 OBSERVATIONS STARTING AT OBS 1

|_READ(14) MO YR CPI FLEMP GAEMP NCEMP SCEMP

7 VARIABLES AND 33 OBSERVATIONS STARTING AT OBS 1

|_*-----
|_GENR TIME=TIME(0)
|_GENR DUMOUTL1=0
|_IF(TIME.EQ.11)DUMOUTL1=1
|_GENR DUMOUTL2=0
|_IF(TIME.EQ.28)DUMOUTL2=1
|_GENR UESSXPCE=((UNDERREV/UNDERDEM)+25.31)/CPI
|_GENR OESSXPCE=((OVERREV/OVERDEM)+25.31)/CPI
|_GENR PBXPCE=FLMPBX/CPI

|_*----- LOG OF REGRESSION VARIABLES -----
|_GENR LGFLEMP=LOG(FLEMP)
|_GENR LGEXPCU=LOG(UESSXPCE)
|_GENR LGEXPCO=LOG(OESSXPCE)
|_GENR LGPBXPCE=LOG(PBXPCE)
|_GENR LGOVDEM=LOG(OVERDEM)
|_GENR LGUNDEM=LOG(UNDERDEM)
|_GENR LGTIME=LOG(TIME)
|_GENR RELPCEU=LGPBXPCE/LGEXPCU
|_GENR RELPCEO=LGPBXPCE/LGEXPCO

|_*----- REGRESSIONS -----

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|_AUTO LGUNDEM LGFLEMP LGEXPCU /LIST

REQUIRED MEMORY IS PAR= 18 CURRENT PAR= 166

DEPENDENT VARIABLE = LGUNDEM

..NOTE..R-SQUARE,ANOVA,RESIDUALS DONE ON ORIGINAL VARS

LEAST SQUARES ESTIMATION 33 OBSERVATIONS
BY COCHRANE-ORCUTT TYPE PROCEDURE WITH CONVERGENCE = 0.00100

ITERATION	RHO	LOG L.F.	SSE
1	0.00000	50.6007	0.89988E-01
2	0.64044	60.2346	0.49393E-01
3	0.71995	60.5414	0.48186E-01
4	0.74910	60.5968	0.47889E-01
5	0.76131	60.6107	0.47787E-01
6	0.76668	60.6150	0.47746E-01
7	0.76909	60.6166	0.47728E-01
8	0.77018	60.6173	0.47720E-01
9	0.77068	60.6176	0.47717E-01

LOG L.F. = 60.6176 AT RHO = 0.77068

	ASYMPTOTIC ESTIMATE	ASYMPTOTIC VARIANCE	ASYMPTOTIC ST. ERROR	ASYMPTOTIC T-RATIO
RHO	0.77068	0.01230	0.11093	6.94763

R-SQUARE = 0.9855 R-SQUARE ADJUSTED = 0.9846
 VARIANCE OF THE ESTIMATE-SIGMA**2 = 0.15906E-02
 STANDARD ERROR OF THE ESTIMATE-SIGMA = 0.39882E-01
 SUM OF SQUARED ERRORS-SSE= 0.47717E-01
 MEAN OF DEPENDENT VARIABLE = 9.4729
 LOG OF THE LIKELIHOOD FUNCTION = 60.6176

VARIABLE NAME	A ESTIMATED COEFFICIENT	B STANDARD ERROR	C T-RATIO 30 DF	D PARTIAL CORR.	E STANDARDIZED COEFFICIENT	F ELASTICITY AT MEANS
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29
30
31

LGFLEMP	5	1.1243	5	0.7941		
LGEXPCU	-	1.1348	-	-0.1838		
CONSTANT	-	8.4332	-	-0.7961		

OBS. NO.	A OBSERVED VALUE	B PREDICTED VALUE	C CALCULATED RESIDUAL
34 1	5	5	-0.67595E-01
2	5	5	-0.10199
3	5	5	-0.32300E-02
4	5	5	0.81975E-02
5	5	5	0.42796E-01
6	5	5	0.34967E-01
7	5	5	0.19279E-01
8	5	5	-0.18018E-02
9	5	5	0.43028E-02
10	5	5	0.99386E-01
11	5	5	-0.65366E-02
12	5	5	0.30779E-01
13	5	5	0.10414E-01
14	5	5	-0.10498E-01
15	5	5	0.93698E-02
16	5	5	-0.75831E-01
17	5	5	0.17341E-01
18	5	5	-0.76978E-02
19	5	5	-0.59185E-02
20	5	5	-0.43479E-02
54 21	5	5	0.90371E-01

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	A	B	C	
22	3	1	0.99570E-02	1*
23	1	1	-0.10496E-01	*1
24	1	1	0.35391E-01	1 *
25	1	1	-0.38640E-02	*
26	3	1	-0.19445E-01	* 1
27	3	1	0.34595E-01	1 *
28	3	1	-0.27705E-01	* 1
29	1	1	0.92107E-03	*
30	1	1	-0.31333E-01	* 1
31	1	1	0.62664E-02	1*
32	3	1	-0.37474E-01	* 1
33	3	1	0.13529E-01	1 *

DURBIN-WATSON = 1.7224 VON NEUMANN RATIO = 1.7762 RHO = 0.09202
 RESIDUAL SUM = 0.52094E-01 RESIDUAL VARIANCE = 0.16810E-02
 SUM OF ABSOLUTE ERRORS = 0.88363
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.9848
 RUNS TEST: 22 RUNS, 17 POSITIVE, 16 NEGATIVE, NORMAL STATISTIC = 1.5986
 |_SMPL 1 27

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_AUTO LGOVDEM LGFLEMP LGEXPCO /LIST

REQUIRED MEMORY IS PAR= 17 CURRENT PAR= 166

DEPENDENT VARIABLE = LGOVDEM

..NOTE..R-SQUARE,ANOVA,RESIDUALS DONE ON ORIGINAL VARS

LEAST SQUARES ESTIMATION 27 OBSERVATIONS
BY COCHRANE-ORCUTT TYPE PROCEDURE WITH CONVERGENCE = 0.00100

ITERATION	RHO	LOG L.F.	SSE
1	0.00000	27.7716	0.20206
2	0.64232	34.9979	0.11600
3	0.69647	35.0145	0.11529
4	0.70142	35.0088	0.11528
5	0.70191	35.0082	0.11528

LOG L.F. = 35.0082 AT RHO = 0.70191

	ASYMPTOTIC ESTIMATE	ASYMPTOTIC VARIANCE	ASYMPTOTIC ST.ERROR	ASYMPTOTIC T-RATIO
RHO	0.70191	0.01879	0.13708	5.12064

R-SQUARE = 0.9706 R-SQUARE ADJUSTED = 0.9682
 VARIANCE OF THE ESTIMATE-SIGMA**2 = 0.48034E-02
 STANDARD ERROR OF THE ESTIMATE-SIGMA = 0.69307E-01
 SUM OF SQUARED ERRORS-SSE= 0.11528
 MEAN OF DEPENDENT VARIABLE = 5.8552
 LOG OF THE LIKELIHOOD FUNCTION = 35.0082

VARIABLE NAME	A ESTIMATED COEFFICIENT	B STANDARD ERROR	C T-RATIO 24 DF	D PARTIAL CORR.	E STANDARDIZED COEFFICIENT	F ELASTICITY AT MEANS
LGFLEMP			1.8570	0.3545		
LGEXPCO			-4.0691	-0.6389		
CONSTANT			-1.8041	-0.3456		

025
026
027

OBS. NO.	A OBSERVED VALUE	B PREDICTED VALUE	C CALCULATED RESIDUAL
1			0.22612E-01
2			-0.14183
3			0.22089E-01
4			-0.38037E-01
5			0.49962E-01
6			-0.41499E-01
7			-0.43036E-01
8			-0.35102E-01
9			-0.46486E-01
10			-0.92681E-02
11			0.25796
12			0.23943E-01
13			0.17344E-01
14			0.85799E-02
15			0.27988E-01
16			0.11108E-01
17			0.88021E-01
18			-0.26787E-01
19			-0.22061E-01
20			0.36420E-02
21			0.17397E-01
22			-0.20136E-01
23			-0.18965E-01
24			-0.16562E-02
25			-0.46632E-01

29

53

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A B C
26 -0.37562E-01 * I
27 -0.37463E-01 * I

DURBIN-WATSON = 1.9558 VON NEUMANN RATIO = 2.0310 RHO = 0.01401
RESIDUAL SUM = -0.15872E-01 RESIDUAL VARIANCE = 0.48139E-02
SUM OF ABSOLUTE ERRORS = 1.1172
R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.9706
RUNS TEST: 10 RUNS, 12 POSITIVE, 15 NEGATIVE, NORMAL STATISTIC = -1.7231
|_STOP

1m37m< 31mC:\SHAZAM2 37m> 33m33m

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Hello/Bonjour -

Welcome to SHAZAM - Version 6.1 - JUN 1989 SYSTEM=IBM-PC PAR= 168

|_* THIS IS AGGREGATE MODEL TO PROJECT SHORT-TERM RESONSE: FLORIDA-LARGE
|_FILE 4 FLL.PRN

UNIT 4 IS NOW ASSIGNED TO: FLL.PRN

|_FILE 12 NMP-SB.PRN

UNIT 12 IS NOW ASSIGNED TO: NMP-SB.PRN

|_FILE 14 SBCPI-EM.PRN

UNIT 14 IS NOW ASSIGNED TO: SBCPI-EM.PRN

|_FILE 13 PBX-SB.PRN

UNIT 13 IS NOW ASSIGNED TO: PBX-SB.PRN

|_READ(13) MO YR FLSPBX FLMPBX FLLPBX GASPBX GAMPBX GALPBX NCSPBX NCMPBX &
| NCLPBX SCSPBX SCMPBX SCLPBX

...SAMPLE RANGE IS NOW SET TO: 1 33

|_READ(4) YR MO UNDERDEM UNDERREV OVERDEM OVERREV
6 VARIABLES AND 33 OBSERVATIONS STARTING AT OBS 1

|_READ(12) MO YR FLSNMP FLNMP FLLNMP GASNMP GAMNMP GALNMP NCSNMP NCMNMP &
| NCLNMP SCSNMP SCHNMP SCLNMP
14 VARIABLES AND 33 OBSERVATIONS STARTING AT OBS 1

|_READ(14) MO YR CPI FLEMP GAEMP NCEMP SCEMP
7 VARIABLES AND 33 OBSERVATIONS STARTING AT OBS 1

|_* -----

|_GENR TIME=TIME(0)
|_GENR UESSXPCE=((UNDERREV/UNDERDEM)+22.02)/CPI
|_GENR OESSXPCE=((OVERREV/OVERDEM)+22.02)/CPI
|_GENR PBXPCE=FLLPBX/CPI

|_* ----- LOG OF REGRESSION VARIABLES -----

|_GENR LGFLEMP=LOG(FLEMP)
|_GENR LGEXPCU=LOG(UESSXPCE)
|_GENR LGEXPCO=LOG(OESSXPCE)
|_GENR LGPBXPCE=LOG(PBXPCE)
|_GENR LGOVDEM=LOG(OVERDEM)
|_GENR LGUNDEM=LOG(UNDERDEM)
|_GENR LGTIME=LOG(TIME)
|_GENR RELPCEU=LGPBXPCE/LGEXPCU
|_GENR RELPCEO=LGPBXPCE/LGEXPCO

|_* ----- REGRESSIONS -----

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_AUTO LGUNDEM LGFLEMP LGEXPCU /LIST

REQUIRED MEMORY IS PAR= 17 CURRENT PAR= 168

DEPENDENT VARIABLE = LGUNDEM

..NOTE..R-SQUARE,ANOVA,RESIDUALS DONE ON ORIGINAL VARS

LEAST SQUARES ESTIMATION 33 OBSERVATIONS
BY COCHRANE-ORCUTT TYPE PROCEDURE WITH CONVERGENCE = 0.00100

ITERATION	RHO	LOG L.F.	SSE
1	0.00000	49.5728	0.95772E-01
2	0.50490	55.2898	0.67126E-01
3	0.57832	55.6437	0.65477E-01
4	0.60847	55.7613	0.64904E-01
5	0.62292	55.8125	0.64646E-01
6	0.63023	55.8372	0.64520E-01
7	0.63403	55.8497	0.64456E-01
8	0.63602	55.8561	0.64422E-01
9	0.63707	55.8595	0.64405E-01
10	0.63763	55.8613	0.64395E-01

LOG L.F. = 55.8613 AT RHO = 0.63763

	ASYMPTOTIC ESTIMATE	ASYMPTOTIC VARIANCE	ASYMPTOTIC ST.ERROR	ASYMPTOTIC T-RATIO
RHO	0.63763	0.01798	0.13410	4.75490

R-SQUARE = 0.9734 R-SQUARE ADJUSTED = 0.9716
 VARIANCE OF THE ESTIMATE-SIGMA**2 = 0.21465E-02
 STANDARD ERROR OF THE ESTIMATE-SIGMA = 0.46330E-01
 SUM OF SQUARED ERRORS-SSE= 0.64395E-01
 MEAN OF DEPENDENT VARIABLE = 10.218
 LOG OF THE LIKELIHOOD FUNCTION = 55.8613

VARIABLE NAME	A ESTIMATED COEFFICIENT	B STANDARD ERROR	C T-RATIO 30 DF	D PARTIAL CORR.	E STANDARDIZED COEFFICIENT	F ELASTICITY AT MEANS
30 LGFLEMP		0.89088		0.8845		
31 LGEXPCU		0.97891		0.2930		
32 CONSTANT		6.5829		-0.8787		

OBS. NO.	A OBSERVED VALUE	B PREDICTED VALUE	C CALCULATED RESIDUAL	D	E	F
35 1			-0.11420	*		1
2			-0.10410E-01			*1
3			-0.57322E-01		*	1
4			0.85061E-01			1
5			0.67694E-01			1
6			-0.73314E-02			*1
7			0.11792E-01			1*
8			0.50694E-01			1
9			0.49272E-02			1*
10			0.37676E-01			1
11			-0.54098E-02			*1
12			-0.42995E-02			*
13			-0.22267E-02			*
14			-0.70445E-02			*1
15			0.13767E-01			1*
16			-0.60021E-01		*	1
17			0.92061E-01			1
18			0.20631E-01			1*
19			0.31711E-02			*
54 20			-0.48037E-01		*	1

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	A	B	C		
21			0.41411E-01	I	*
22			-0.37991E-02	*	
23			0.39555E-01	I	*
24			0.46546E-01	I	*
25			0.11227E-01	I*	
26			0.39458E-02	*	
27			0.31196E-01	I	*
28			-0.93179E-01	*	I
29			-0.46771E-01	*	I
30			-0.45139E-01	*	I
31			-0.20491E-01	*	I
32			-0.91149E-02	*	I
33			0.46252E-01	I	*

DURBIN-WATSON = 1.7015 VON NEUMANN RATIO = 1.7546 RHO = 0.04164
 RESIDUAL SUM = 0.72815E-01 RESIDUAL VARIANCE = 0.23232E-02
 SUM OF ABSOLUTE ERRORS = 1.1424
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.9713
 RUNS TEST: 14 RUNS, 17 POSITIVE, 16 NEGATIVE, NORMAL STATISTIC = -1.2339

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[_AUTO LGOVDEM LGFLEMP LGEXPCO /LIST

REQUIRED MEMORY IS PAR= 17 CURRENT PAR= 168

DEPENDENT VARIABLE = LGOVDEM

..NOTE..R-SQUARE,ANOVA,RESIDUALS DONE ON ORIGINAL VARS

LEAST SQUARES ESTIMATION 33 OBSERVATIONS
BY COCHRANE-ORCUTT TYPE PROCEDURE WITH CONVERGENCE = 0.00100

ITERATION	RHO	LOG L.F.	SSE
1	0.00000	47.3311	0.10971
2	0.75758	58.1573	0.55470E-01
3	0.75372	58.1643	0.55470E-01
4	0.75357	58.1645	0.55470E-01

LOG L.F. = 58.1645 AT RHO = 0.75357

	ASYMPTOTIC ESTIMATE	ASYMPTOTIC VARIANCE	ASYMPTOTIC ST.ERROR	ASYMPTOTIC T-RATIO
RHO	0.75357	0.01310	0.11443	6.58516

R-SQUARE = 0.9831 R-SQUARE ADJUSTED = 0.9820
 VARIANCE OF THE ESTIMATE-SIGMA**2 = 0.18490E-02
 STANDARD ERROR OF THE ESTIMATE-SIGMA = 0.43000E-01
 SUM OF SQUARED ERRORS-SSE= 0.55470E-01
 MEAN OF DEPENDENT VARIABLE = 6.9524
 LOG OF THE LIKELIHOOD FUNCTION = 58.1645

VARIABLE NAME	A	B	C	D	E	F
	ESTIMATED COEFFICIENT	STANDARD ERROR	T-RATIO 30 DF	PARTIAL CORR.	STANDARDIZED COEFFICIENT	ELASTICITY AT MEANS

24 LGFLEMP .0488 0.7582
 25 LGEXPCO 0.40340 -0.5459 -
 26 CONSTANT 8.5785 -0.7413

OBS. NO.	A OBSERVED VALUE	B PREDICTED VALUE	C CALCULATED RESIDUAL
29 1			-0.12046E-01
2			-0.13947E-01
3			-0.35714E-01
4			0.37215E-01
5			0.46062E-02
6			-0.29105E-01
7			-0.36824E-01
8			0.82456E-01
9			0.41478E-01
10			0.47469E-01
11			-0.10199E-01
12			-0.76701E-02
13			-0.14230E-01
14			-0.30174E-01
15			0.64828E-03
16			-0.44196E-01
17			0.19160E-01
18			-0.28161E-01
19			0.84159E-02
20			-0.70153E-01
21			-0.67648E-01
22			-0.19446E-01
23			0.55624E-01
24			0.41320E-01
25			-0.34864E-02
26			-0.54177E-01

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A	B	C
27	-0.69614E-02	*1
28	0.28727E-01	1 *
29	-0.19817E-01	* 1
30	-0.39518E-01	* 1
31	0.63992E-01	1 •
32	0.10055	1 *
33	0.20888E-01	1 *

DURBIN-WATSON = 1.4715 VON NEUMANN RATIO = 1.5175 RHO = 0.26107
 RESIDUAL SUM = 0.90772E-02 RESIDUAL VARIANCE = 0.18517E-02
 SUM OF ABSOLUTE ERRORS = 1.0960
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.9832
 RUNS TEST: 16 RUNS, 14 POSITIVE, 19 NEGATIVE, NORMAL STATISTIC = -0.4062
 |_STOP

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Hello/Bonjour -

Welcome to SHAZAM - Version 6.1 - JUN 1989 SYSTEM=IBM-PC PAR= 162

|_* FLORIDA SMALL ESSX - POOLED LONG TERM ELASTICITY STUDY

|_FILE 11 dummy.prn

UNIT 11 IS NOW ASSIGNED TO: dummy.prn

|_READ(11) YR MO TIME D1 D2 D3 D4 D5 D6 D7 D8 D9 D10

...SAMPLE RANGE IS NOW SET TO: 1 330

|_FILE 4 FLSpool.prn

UNIT 4 IS NOW ASSIGNED TO: FLSpool.prn

|_READ(4) MILE YR MO DEMAND REV

5 VARIABLES AND 330 OBSERVATIONS STARTING AT OBS 1

|_FILE 12 PLCPI-SB.PRN

UNIT 12 IS NOW ASSIGNED TO: PLCPI-SB.PRN

|_READ(12) MO YR CPI FLEMP GAEMP NCEMP SCEMP

7 VARIABLES AND 330 OBSERVATIONS STARTING AT OBS 1

|_GENR PRICE=((REV/DEMAND)+24.55)/CPI

|_GENR LOGPCE=LOG(PRICE)

|_GENR LOGDEM=LOG(DEMAND)

|_GENR LOGTIME=LOG(TIME)

|_GENR LGFLEMP=LOG(FLEMP)

|_* ----- generating slope dummies for empl trend -----

|_GENR TD1=D1*LGFLEMP

|_GENR TD2=D2*LGFLEMP

|_GENR TD3=D3*LGFLEMP

|_GENR TD4=D4*LGFLEMP

|_GENR TD5=D5*LGFLEMP

|_GENR TD6=D6*LGFLEMP

|_GENR TD7=D7*LGFLEMP

|_GENR TD8=D8*LGFLEMP

|_GENR TD9=D9*LGFLEMP

|_GENR TD10=D10*LGFLEMP

|_* -----

|_SET NOWARNSKIP

|_SKIP IF(YR.EQ.1989)

|_SKIP IF((YR.EQ.1988).AND.(MO.EQ.11))

|_SKIP IF((YR.EQ.1988).AND.(MO.EQ.12))

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|_OLS LOGDEM LGFLEMP LOGPCE / RS

REQUIRED MEMORY IS PAR= 105 CURRENT PAR= 162

OLS ESTIMATION

190 OBSERVATIONS DEPENDENT VARIABLE = LOGDEM

...NOTE..SAMPLE RANGE SET TO: 1, 330

R-SQUARE = 0.8278 R-SQUARE ADJUSTED = 0.8259

VARIANCE OF THE ESTIMATE-SIGMA**2 = 0.36838

STANDARD ERROR OF THE ESTIMATE-SIGMA = 0.60694

SUM OF SQUARED ERRORS-SSE= 68.887

MEAN OF DEPENDENT VARIABLE = 6.7900

LOG OF THE LIKELIHOOD FUNCTION = -173.215

	A	B	C	D	E	F
VARIABLE	ESTIMATED	STANDARD	T-RATIO	PARTIAL	STANDARDIZED	ELASTICITY
NAME	COEFFICIENT	ERROR	187 OF	CORR.	COEFFICIENT	AT MEANS
14 LGFLEMP			4.2437	0.2964		
15 LOGPCE			-29.242	-0.9058		
16 CONSTANT			-4.1138	-0.2881		

DURBIN-WATSON = 0.2403 VON NEUMANN RATIO = 0.2416 RHO = 0.88397

RESIDUAL SUM = 0.17569E-11 RESIDUAL VARIANCE = 0.36838

SUM OF ABSOLUTE ERRORS= 97.649

R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.8278

RUNS TEST: 17 RUNS, 85 POSITIVE, 105 NEGATIVE, NORMAL STATISTIC = -11.4676

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[_AUTO LOGDEM LGFLEMP LOGPCE / RS

REQUIRED MEMORY IS PAR= 107 CURRENT PAR= 162

DEPENDENT VARIABLE = LOGDEM

..NOTE..R-SQUARE,ANOVA,RESIDUALS DONE ON ORIGINAL VARS

LEAST SQUARES ESTIMATION 190 OBSERVATIONS
BY COCHRANE-ORCUTT TYPE PROCEDURE WITH CONVERGENCE = 0.00100

ITERATION	RHO	LOG L.F.	SSE
1	0.00000	-173.215	68.887
2	0.88397	-32.0915	15.471
3	0.89028	-32.0997	15.468
4	0.89064	-32.1011	15.468

LOG L.F. = -32.1011 AT RHO = 0.89064

	ASYMPTOTIC ESTIMATE	ASYMPTOTIC VARIANCE	ASYMPTOTIC ST.ERROR	ASYMPTOTIC T-RATIO
RHO	0.89064	0.00109	0.03299	26.99895

R-SQUARE = 0.9613 R-SQUARE ADJUSTED = 0.9609
 VARIANCE OF THE ESTIMATE-SIGMA**2 = 0.82715E-01
 STANDARD ERROR OF THE ESTIMATE-SIGMA = 0.28760
 SUM OF SQUARED ERRORS-SSE= 15.468
 MEAN OF DEPENDENT VARIABLE = 6.7900
 LOG OF THE LIKELIHOOD FUNCTION = -32.1011

VARIABLE NAME	A ESTIMATED COEFFICIENT	B STANDARD ERROR	C T-RATIO 187 DF	D PARTIAL CORR.	E STANDARDIZED COEFFICIENT	F ELASTICITY AT MEANS
24 LGFLEMP			7.3099	0.4714	(
25 LOGPCE			-9.9219	-0.5873	-(
26 CONSTANT			-7.2109	-0.4664	(

DURBIN-WATSON = 2.5360 VON NEUMANN RATIO = 2.5494 RHO = -0.26920
 RESIDUAL SUM = 0.49438E-03 RESIDUAL VARIANCE = 0.82715E-01
 SUM OF ABSOLUTE ERRORS= 27.006
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.9614
 RUNS TEST: 55 RUNS, 94 POSITIVE, 96 NEGATIVE, NORMAL STATISTIC = -5.9638

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|_POOL LOGDEM LGFLEMP LOGPCE D1 D2 D3 D4 D5 D6 D7 D8 D9 /NC=10 FULL RS
 POOLED CROSS-SECTION TIME-SERIES ESTIMATION
 10 CROSS-SECTIONS AND 19 TIME-PERIODS
 DEPENDENT VARIABLE = LOGDEM

OLS COEFFICIENTS

11.947	-1.7277	1.9731	1.3833	1.3222
1.9605	1.8718	1.0860	1.0220	-0.57972
-0.70883	-97.514			

RHO VECTOR

0.75085	0.92074	0.49295	0.85164	0.64105
0.92697	0.56900	0.61922	0.35022	0.92493

CONSTANT RHO = 0.47265

VARIANCES

0.65216E-02	0.55161E-02	0.98733E-02	0.48639E-02	0.97955E-02
0.33436E-01	0.34434E-01	0.46065E-01	1.1641	0.24280E-01

FINAL COEFFICIENTS

17
18
19-

FINAL SSE = 68.367

LOG-LIKELIHOOD FUNCTION = 185.672
 BUSE R-SQUARE = 0.9821 BUSE RAW-MOMENT R-SQUARE = 0.9991
 VARIANCE OF THE ESTIMATE-SIGMA**2 = 0.38409
 STANDARD ERROR OF THE ESTIMATE-SIGMA = 0.61975
 SUM OF SQUARED ERRORS-SSE= 68.367
 MEAN OF DEPENDENT VARIABLE = 6.7900
 LOG OF THE LIKELIHOOD FUNCTION = 185.672

	A	B	C	D	E	F
VARIABLE NAME	ESTIMATED COEFFICIENT	STANDARD ERROR	T-RATIO 178 DF	PARTIAL CORR.	STANDARDIZED COEFFICIENT	ELASTICITY AT MEANS
30 LGFLEMP		0.72006		0.7273		
LOGPCE		0.30951		0.6709		
D1		0.27313		0.1936		
D2		0.24232		0.0876		
D3		0.24477		0.1134		
D4		0.22618		0.3630		
D5		0.21811		0.4138		
D6		0.33527		0.1712		
D7		0.16670		0.4745		
D8		0.21009		-0.1135		
D9		0.30936		-0.1048		
41 CONSTANT		6.0358		-0.7220		

DURBIN-WATSON = 1.8051 VON NEUMANN RATIO = 1.8146 RHO = 0.03294
 RESIDUAL SUM = -2.6099 RESIDUAL VARIANCE = 0.38409
 SUM OF ABSOLUTE ERRORS= 91.129
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.9989
 RUNS TEST: 87 RUNS, 92 POSITIVE, 98 NEGATIVE, NORMAL STATISTIC = -1.2968

|*
 |* -- Introducing slope dummies
 |*

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| _POOL LOGDEM LOGPCE D1 D2 D3 D4 D5 D6 D7 D8 D9 TD1 TD2 TD3 TD4 TD5 TD6 &
 | TD7 TD8 TD9 TD10 /NC=10 FULL RS
 POOLED CROSS-SECTION TIME-SERIES ESTIMATION
 10 CROSS-SECTIONS AND 19 TIME-PERIODS
 DEPENDENT VARIABLE = LOGDEM
 ...WARNING...TOO FEW DEGREES OF FREEDOM, DN OPTION USED

OLS COEFFICIENTS

-3.4702	-127.86	-111.88	-134.65	-130.57
-156.85	-239.49	-93.970	-152.34	-177.99
9.5423	7.6110	10.292	9.9045	13.006
22.644	5.5885	12.270	15.277	-5.5750
50.372				

RHO VECTOR

0.55851	0.78486	0.56192	0.87513	0.37858
0.67779	0.30532	0.64584	0.39944	0.61966

CONSTANT RHO = 0.42654

VARIANCES

0.25577E-02	0.10519E-02	0.31705E-02	0.12710E-02	0.35299E-02
0.12521E-01	0.75489E-02	0.14053E-01	0.40750	0.67315E-02

FINAL COEFFICIENTS

Q1 -4.3644
 Q2 -173.66
 Q3 9.1963
 Q4 19.928
 Q5 76.687

FINAL SSE = 186.51

LOG-LIKELIHOOD FUNCTION = 207.628

BUSE R-SQUARE = 0.9870 BUSE RAW-MOMENT R-SQUARE = 0.9998

VARIANCE OF THE ESTIMATE-SIGMA**2 = 1.1036

STANDARD ERROR OF THE ESTIMATE-SIGMA = 1.0505

SUM OF SQUARED ERRORS-SSE= 186.51

MEAN OF DEPENDENT VARIABLE = 6.7900

LOG OF THE LIKELIHOOD FUNCTION = 207.628

	A	B	C	D	E	F
VARIABLE NAME	ESTIMATED COEFFICIENT	STANDARD ERROR	T-RATIO 169 DF	PARTIAL CORR.	STANDARDIZED COEFFICIENT	ELASTICITY AT MEANS
36 LOGPCE			-16.255	-0.7810		
D1			-7.6543	-0.5074		
D2			-6.4298	-0.4433		
D3			-6.6428	-0.4550		
D4			-5.9790	-0.4179		
D5			-8.0183	-0.5250		
D6			-7.2211	-0.4856		
D7			-4.6696	-0.3381		
D8			-6.3666	-0.4398		
D9			-2.7263	-0.2052		
TD1			8.9717	0.5680		
TD2			5.9469	0.4160		
TD3			7.6375	0.5065		
TD4			6.0197	0.4202		
TD5			12.671	0.6980		
TD6			7.1507	0.4820		
TD7			2.6550	0.2001		
TD8			4.8631	0.3504		
TD9			1.9474	0.1481		
TD10			-3.9344	-0.2897		
56 CONSTANT			4.0779	0.2993		

DURBIN-WATSON = 1.8933

VON NEUMANN RATIO = 1.9033

RHO = -0.00232

RESIDUAL SUM = 2.7859

RESIDUAL VARIANCE = 1.1036

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SUM OF ABSOLUTE ERRORS= 150.52

R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.9995

RUNS TEST: 84 RUNS, 94 POSITIVE, 96 NEGATIVE, NORMAL STATISTIC = -1.7444

[_STOP

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SHAZAM - IBM-PC VERSION SITE NO. 46981X

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Hello/Bonjour -

Welcome to SHAZAM - Version 6.1 - JUN 1989 SYSTEM=IBM-PC PAR= 166

|_* FLORIDA MEDIUM ESSX - POOLED LONG TERM ELASTICITY STUDY

|_* pooled data with 10 cross-sections

|_FILE 11 dummy.prn

UNIT 11 IS NOW ASSIGNED TO: dummy.prn

|_READ(11) YR MO TIME D1 D2 D3 D4 D5 D6 D7 D8 D9 D10

...SAMPLE RANGE IS NOW SET TO: 1 330

|_FILE 4 FLMpool.prn

UNIT 4 IS NOW ASSIGNED TO: FLMpool.prn

|_READ(4) MILE YR MO DEMAND REV

5 VARIABLES AND 330 OBSERVATIONS STARTING AT OBS 1

|_FILE 12 PLCPI-SB.PRN

UNIT 12 IS NOW ASSIGNED TO: PLCPI-SB.PRN

|_READ(12) MO YR CPI FLEMP GAEMP NCEMP SCEMP

7 VARIABLES AND 330 OBSERVATIONS STARTING AT OBS 1

|_GENR TIME=TIME(0)

|_GENR PRICE=((REV/DEMAND)+25.31)/CPI

|_GENR LOGPCE=LOG(PRICE)

|_GENR LOGDEM=LOG(DEMAND)

|_GENR LOGTIME=LOG(TIME)

|_GENR LGFLEMP=LOG(FLEMP)

|_* ----- generating slope dummies for empl trend -----

|_GENR TD1=D1*LGFLEMP

|_GENR TD2=D2*LGFLEMP

|_GENR TD3=D3*LGFLEMP

|_GENR TD4=D4*LGFLEMP

|_GENR TD5=D5*LGFLEMP

|_GENR TD6=D6*LGFLEMP

|_GENR TD7=D7*LGFLEMP

|_GENR TD8=D8*LGFLEMP

|_GENR TD9=D9*LGFLEMP

|_GENR TD10=D10*LGFLEMP

|_SET NOWARNSKIP

|_SKIPIF(YR.EQ.1989)

|_SKIPIF((YR.EQ.1988).AND.(MO.EQ.11))

|_SKIPIF((YR.EQ.1988).AND.(MO.EQ.12))

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[_POOL LOGDEM LGFLEMP LOGPCE D1 D2 D3 D4 D5 D6 D7 D8 D9 /MC=10 FULL CORCOEF LIST
 POOLED CROSS-SECTION TIME-SERIES ESTIMATION
 10 CROSS-SECTIONS AND 19 TIME-PERIODS
 DEPENDENT VARIABLE = LOGDEM

OLS COEFFICIENTS

7.4687	-4.9506	2.5968	2.2525	2.0520
3.0919	2.4232	2.4645	2.5251	1.6070
2.4756	-65.202			

RHO VECTOR

0.73121	0.88317	0.85279	0.85916	0.93809
0.95838	0.46065	0.86140	0.97630	0.76630

CONSTANT RHO = 0.85554

VARIANCES

0.89873E-02	0.27416E-01	0.47125E-01	0.38275E-02	0.67841E-01
0.74867E-02	0.43784E-01	0.22118	0.58779E-02	0.24436

FINAL COEFFICIENTS

17
18
19

FINAL SSE = 67.318

LOG-LIKELIHOOD FUNCTION = 160.555

BUSE R-SQUARE = 0.9769 BUSE RAW-MOMENT R-SQUARE = 0.9988

VARIANCE OF THE ESTIMATE-SIGMA**2 = 0.37819

STANDARD ERROR OF THE ESTIMATE-SIGMA = 0.61497

SUM OF SQUARED ERRORS-SSE= 67.318

MEAN OF DEPENDENT VARIABLE = 6.0957

LOG OF THE LIKELIHOOD FUNCTION = 160.555

VARIABLE NAME	A	B	C	D	E	F
	ESTIMATED COEFFICIENT	STANDARD ERROR	T-RATIO 178 DF	PARTIAL CORR.	STANDARDIZED COEFFICIENT	ELASTICITY AT MEANS

30	LGFLEMP		8.7073	0.5465		
	LOGPCE		-18.106	-0.8051		
	D1		10.843	0.6307		
	D2		7.8770	0.5084		
	D3		6.3527	0.4299		
	D4		11.503	0.6530		
	D5		5.3243	0.3706		
	D6		8.3618	0.5311		
	D7		9.5909	0.5837		
	D8		2.4579	0.1812		
	D9		8.6786	0.5453		
41	CONSTANT		-8.8862	-0.5543		

OBS. NO.	A OBSERVED VALUE	B PREDICTED VALUE	C CALCULATED RESIDUAL
44 1			0.43338E-01
2			-0.70884
3			-0.65342
4			0.82341E-01
5			-0.27642
6			-0.16953
7			1.5271
8			0.49554
9			0.86741
10			-0.43502
11			0.22900
12			0.63931E-01
13			0.29196
14			-0.34673
58 15			0.67008E-02

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A

B

C

138	0.68284	I *
139	-0.21364	*I
140	-0.32727E-01	*
141	0.57953	I *
142	1.0616	I *
143	-0.47484E-01	*
144	1.1990	I *
145	-0.17050	*I
146	-0.16082	*I
147	0.57311	I *
148	-1.2019	* I
149	-0.12855	*I
150	0.21210	I*
151	-0.20793	*I
166	0.29858	I *
167	-0.30840	* I
168	-0.11980	*I
169	0.14879	I*
170	0.35114	I *
171	0.29249	I*
172	-0.51796E-01	*
173	0.79145E-01	*
174	0.13899	I*
175	-0.84866	* I
176	-0.21784	*I
177	-0.18988	*I
178	-0.54744E-01	*
179	-0.94555E-01	*
180	1.2151	I *
181	0.31510	I *
182	0.11493	I*
183	-0.66257E-01	*
184	-1.9239	* I
199	-0.43679	* I
200	-0.28753	*I
201	-0.23491	*I
202	1.6508	I *
203	0.64780E-01	*
204	-0.15141	*I
205	-0.19680	*I
206	-0.12216	*I
207	-0.23853	*I
208	0.30956	I *
209	-0.60977E-01	*
210	-0.80915	* I
211	-0.73200	* I
212	-0.60987	* I
213	0.62306E-01	*
214	1.0814	I *
215	0.55528	I *
216	0.16692	I*
217	0.27860	I*
232	-0.18978	*I
233	-0.46983	* I
234	0.21308	I*
235	-0.50394	* I
236	1.1834	I *
237	-0.32484	* I
238	-0.33493	* I
239	-0.14991	*I
240	-0.25946	*I
241	0.16920	I*
242	2.0119	I *
243	-0.12481	*I
244	-0.56184E-01	*
245	-0.91754E-01	*

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	A	B	C
246			0.60953E-01
247			-0.24328
248			0.44449
249			-0.29454
250			-0.17959
265			0.46767
266			0.49829
267			1.2231
268			-0.36392
269			-0.29614
270			-0.45040
271			-0.35342
272			-0.58399E-01
273			-0.22968
274			0.54782
275			-0.67726
276			-0.56380
277			-0.36231
278			-0.41768
279			0.59558E-01
280			-0.76345
281			-0.35304
282			-0.96377
283			-0.48950
298			1.3326
299			-1.6074
300			-0.10487
301			0.37514E-01
302			-0.76365E-01
303			-0.44896
304			-0.20309
305			-0.17756
306			-0.19703
307			-0.16060
308			-0.27806
309			-0.27033
310			-0.28450
311			-0.29699
312			-1.1569
313			-0.60560
314			0.13969
315			0.52093
316			-0.21801

DURBIN-WATSON = 1.7108 VON NEUMANN RATIO = 1.7198 RHO = 0.07982
 RESIDUAL SUM = -3.0226 RESIDUAL VARIANCE = 0.37819
 SUM OF ABSOLUTE ERRORS = 81.582
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.9981
 RUNS TEST: 78 RUNS, 75 POSITIVE, 115 NEGATIVE, NORMAL STATISTIC = -2.0997
 |_STOP

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Hello/Bonjour -

Welcome to SHAZAM - Version 6.1 - JUN 1989 SYSTEM=IBM-PC PAR= 162

|_* FLORIDA LARGE ESSX - POOLED LONG TERM ELASTICITY STUDY

|_* pooled data with 10 cross-sections (florida-LARGE)

|_FILE 11 dummy.prn

UNIT 11 IS NOW ASSIGNED TO: dummy.prn

|_READ(11) YR MO TIME D1 D2 D3 D4 D5 D6 D7 D8 D9 D10

...SAMPLE RANGE IS NOW SET TO: 1 330

|_FILE 4 FLLpool.prn

UNIT 4 IS NOW ASSIGNED TO: FLLpool.prn

|_READ(4) MILE YR MO DEMAND REV

5 VARIABLES AND 330 OBSERVATIONS STARTING AT OBS 1

|_FILE 12 PLCPI-SB.PRM

UNIT 12 IS NOW ASSIGNED TO: PLCPI-SB.PRM

|_READ(12) MO YR CPI FLEMP GAEMP NCEMP SCEMP

7 VARIABLES AND 330 OBSERVATIONS STARTING AT OBS 1

|_GENR PRICE=((REV/DEMAND)+22.02)/CPI

|_GENR LOGPCE=LOG(PRICE)

|_GENR LOGDEM=LOG(DEMAND)

|_GENR LOGTIME=LOG(TIME)

|_GENR LGFLEMP=LOG(FLEMP)

|_* ----- generating slope dummies for empl trend -----

|_GENR TD1=D1*LGFLEMP

|_GENR TD2=D2*LGFLEMP

|_GENR TD3=D3*LGFLEMP

|_GENR TD4=D4*LGFLEMP

|_GENR TD5=D5*LGFLEMP

|_GENR TD6=D6*LGFLEMP

|_GENR TD7=D7*LGFLEMP

|_GENR TD8=D8*LGFLEMP

|_GENR TD9=D9*LGFLEMP

|_GENR TD10=D10*LGFLEMP

|_* -----

|_SET NOWARNSKIP

|_SKIPIF(YR.EQ.1989)

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[_POOL LOGDEM LGFLEMP LOGPCE D1 D2 D3 D4 D5 D6 D7 D8 D9 /NC=10 SAME RS
 POOLED CROSS-SECTION TIME-SERIES ESTIMATION
 10 CROSS-SECTIONS AND 21 TIME-PERIODS
 DEPENDENT VARIABLE = LOGDEM

OLS COEFFICIENTS

12.680 -3.3327 1.5797 1.5409 0.70017
 2.3558 1.1179 1.0201 -0.62080 -0.13628
 -1.6676 -106.06

RHO VECTOR

0.71254 0.78053 0.72968 0.96640 0.81437
 0.62068 0.75325 0.91712 0.75379 1.0232

CONSTANT RHO = 0.77898

VARIANCES

0.20560 0.15496E-01 0.10004 0.25034E-01 0.20683E-01
 0.89864E-01 0.13707 0.43133E-01 0.32617 0.49369E-01

FINAL COEFFICIENTS

17
18
19

FINAL SSE = 68.623

LOG-LIKELIHOOD FUNCTION = 101.301
 BUSE R-SQUARE = 0.8719 BUSE RAW-MOMENT R-SQUARE = 0.9964
 VARIANCE OF THE ESTIMATE-SIGMA**2 = 0.34658
 STANDARD ERROR OF THE ESTIMATE-SIGMA = 0.58871
 SUM OF SQUARED ERRORS-SSE= 68.623
 MEAN OF DEPENDENT VARIABLE = 7.0821
 LOG OF THE LIKELIHOOD FUNCTION = 101.301

VARIABLE NAME	A	B	C	D	E	F
	ESTIMATED COEFFICIENT	STANDARD ERROR	T-RATIO 198 DF	PARTIAL CORR.	STANDARDIZED COEFFICIENT	ELASTICITY AT MEANS

30 LGFLEMP --- 7.8824 0.4887
 LOGPCE -3.5371 -0.2438
 D1 7.1404 0.4525
 D2 10.867 0.6112
 D3 5.5574 0.3673
 D4 15.394 0.7381
 D5 9.2772 0.5504
 D6 6.4269 0.4155
 D7 -0.49270 -0.0350
 D8 1.4508 0.1026
 D9 -4.2099 -0.2866
 41 CONSTANT -7.4944 -0.4701

DURBIN-WATSON = 1.5964 VON NEUMANN RATIO = 1.6041 RHO = 0.06645
 RESIDUAL SUM = 11.558 RESIDUAL VARIANCE = 0.34658
 SUM OF ABSOLUTE ERRORS= 74.623

R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.9891

RUNS TEST: 61 RUNS, 120 POSITIVE, 90 NEGATIVE, NORMAL STATISTIC = -6.0532

 |* |* |*
 |* |* |*
 |* |* |*

 -- Introducing slope dummies

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A

B

C

1	-1.8615	*	I
2	0.22305		I*
3	-0.89714	*	I
4	1.8886		I
5	1.9018		I
6	0.40689		I*
7	0.73693		I*
8	0.54659		I*
9	0.36010		I*
10	0.72079		I*
11	0.13525		I*
12	0.16212		I*
13	0.12256		I*
14	0.79491E-01		*
15	-0.28712E-01		*
16	-0.63186	*	I
17	-0.60931E-01		*
18	-0.43120	*	I
19	-0.42975	*	I
20	-0.70135	*	I
21	0.59009E-01		*
34	-0.46940	*	I
35	-0.32441	*	I
36	-0.85359	*	I
37	-0.74164	*	I
38	0.52595		I*
39	-0.85862	*	I
40	1.6444		I
41	0.31331		I*
42	0.21734		I*
43	0.41232		I*
44	1.0475		I
45	0.13010		I*
46	0.85866E-01		*
47	-0.11287	*	I
48	0.20938		I*
49	-0.87733	*	I
50	1.1768		I
51	-0.14303	*	I
52	-0.36569	*	I
53	-1.1067	*	I
54	0.67051		I
67	-0.71029	*	I
68	-0.39928	*	I
69	-0.91558	*	I
70	-0.42681	*	I
71	1.3766		I
72	-0.43784	*	I
73	-0.39179	*	I
74	2.0978		I
75	0.37949		I*
76	0.71234		I
77	-0.28620	*	I
78	-0.11389	*	I
79	-0.15485	*	I
80	-0.13435	*	I
81	-0.79322E-01	*	*
82	-0.88657	*	I
83	1.9864		I
84	0.24198E-01		*
85	-0.95701E-01		I*
86	-0.77421	*	I
87	0.10762		I*
100	0.23419		I*
101	-0.68622	*	I
102	-1.3557	*	I

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A B C

103	-0.38631	*	I	
104	-0.29705	*	I	
105	-1.2979	*	I	
106	1.9925		I	*
107	1.2169		I	*
108	-0.19117	*	I	
109	0.53131		I	*
110	0.26921		I	*
111	0.13502		I	*
112	-0.28296	*	I	
113	-0.32520	*	I	
114	-0.30875	*	I	
115	-1.5179	*	I	
116	0.34269		I	*
117	0.73656		I	*
118	0.97812		I	*
119	-0.58513	*	I	
120	0.50836		I	*
133	-0.16389	*	I	
134	0.11482		I	*
135	-0.67448	*	I	
136	3.4196		I	x
137	-0.41900E-01	*	I	
138	-0.19558	*	I	
139	-0.87477	*	I	
140	-0.59945	*	I	
141	-0.26441	*	I	
142	-1.0601	*	I	
143	0.87900		I	*
144	-0.50639	*	I	
145	0.36485E-01	*	I	
146	-0.80432	*	I	
147	0.66866		I	*
148	1.0911		I	*
149	-0.96016E-01	*	I	
150	0.44956E-01	*	I	
151	-0.40729E-01	*	I	
152	-0.90929	*	I	
153	0.17932		I	*
166	-2.1679	*	I	
167	0.70554		I	*
168	1.7613		I	*
169	0.63188		I	*
170	1.5856		I	*
171	0.27217		I	*
172	0.42653		I	*
173	0.35606		I	*
174	0.33718		I	*
175	0.56240		I	*
176	0.26069E-01	*	I	
177	0.10697		I	*
178	0.69340E-01	*	I	
179	-0.17772E-02	*	I	
180	-0.10043	*	I	
181	-0.62220	*	I	
182	-0.15730	*	I	
183	-0.13454	*	I	
184	-0.38830	*	I	
185	-0.67131	*	I	
186	0.82079E-01	*	I	
199	-0.11515	*	I	
200	-0.76027	*	I	
201	-0.81152	*	I	
202	-2.4983	*	I	
203	1.7788		I	
204	0.48181		I	*

PROPRIETARY
 NOT FOR USE OR DISCLOSURE OUTSIDE OF
 BELL SOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
 COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

Not for use or disclosure
 its affiliated companies

A R C

205	0.51050E-01	*
206	0.33365	I *
207	0.61786	I *
208	0.54915	I *
209	0.48470	I *
210	0.21948	I*
211	0.95475E-01	I*
212	0.31331E-01	*
213	0.85145	I *
214	-0.28391	* I
215	0.20858	I*
216	-0.16970	* I
217	-0.61075	* I
218	-0.47062	* I
219	0.15921	I*
232	0.87277	I *
233	-0.73577	* I
234	-0.21746	* I
235	-1.6220	* I
236	-0.91256	* I
237	-0.27973	* I
238	-0.61907	* I
239	0.19189	I*
240	0.48311	I *
241	-0.76573E-01	*
242	0.16615	I*
243	-0.47115E-01	*
244	-0.45634E-01	*
245	0.34488E-01	*
246	0.26865	I*
247	0.59535	I *
248	1.0682	I *
249	0.76772	I *
250	0.50240	I *
251	-1.4331	* I
252	-0.40313E-01	* I
265	-2.2240	* I
266	-1.4552	* I
267	-1.8761	* I
268	5.3374	I
269	0.82394	I *
270	0.15117	I*
271	0.46174E-01	*
272	2.2951	I
273	0.75511	I *
274	1.4113	I
275	0.16406	I*
276	0.33069	I *
277	0.29766	I *
278	0.83969E-01	*
279	-0.26473E-01	*
280	-0.79233	* I
281	-0.60373E-01	*
282	-0.65266	* I
283	-0.14521	* I
284	-1.4980	* I
285	-0.21765	* I
298	-0.69787	* I
299	0.89666	I *
300	0.24478	I*
301	0.46801	I *
302	0.54458	I *
303	0.14611E-01	*
304	0.80656E-01	*
305	-0.46934	* I
306	0.74960	I *

PROPRIETARY

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A B C

307	0.37720	1 *
308	0.31250	1 *
309	0.19293	1 *
310	-0.13605	*1
311	-0.53621	* 1
312	0.48078	1 *
313	-0.26806	*1
314	0.16196	1*
315	-0.17087	*1
316	-0.13860	*1
317	1.3263	1 *
318	-2.5711	1

DURBIN-WATSON = 1.7929 VON NEUMANN RATIO = 1.8014 RHO = 0.03979
 RESIDUAL SUM = 9.0257 RESIDUAL VARIANCE = 0.91671
 SUM OF ABSOLUTE ERRORS= 129.22
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.9998
 RUNS TEST: 70 RUNS, 109 POSITIVE, 101 NEGATIVE, NORMAL STATISTIC = -4.9666
 |_STOP

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 affiliated companies.

FOI B25Z

0000077

Florida Small ESSX Data: by mileage band

year	month	A band demand	B demand	C revenue
87	4	A		
87	5	A		
87	6	A		
87	7	A		
87	8	A		
87	9	A		
87	10	A		
87	11	A		
87	12	A		
88	1	A		
88	2	A		
88	3	A		
88	4	A		
88	5	A		
88	6	A		
88	7	A		
88	8	A		
88	9	A		
88	10	A		
88	11	A		
88	12	A		
89	1	A		
89	2	A		
89	3	A		
89	4	A		
89	5	A		
89	6	A		
89	7	A		
89	8	A		
89	9	A		
89	10	A		
89	11	A		
89	12	A		
87	4	B		
87	5	B		
87	6	B		
87	7	B		
87	8	B		
87	9	B		
87	10	B		
87	11	B		
87	12	B		
88	1	B		
88	2	B		
88	3	B		
88	4	B		
88	5	B		
88	6	B		
88	7	B		
88	8	B		
88	9	B		
88	10	B		
88	11	B		
88	12	B		
89	1	B		

PROPRIETARY

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 BELL SOUTH TELECOMMUNICATIONS COMPANIES, LIMITED
 COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

NOT FOR USE OR DISCLOSURE OUTSIDE OF
BELLSOUTH TELECOMMUNICATIONS CORP. AND ITS
AFFILIATED COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

PROPRIETARY

	A	B
89	2	B
89	3	B
89	4	B
89	5	B
89	6	B
89	7	B
89	8	B
89	9	B
89	10	B
89	11	B
89	12	B
87	4	C
87	5	C
87	6	C
87	7	C
87	8	C
87	9	C
87	10	C
87	11	C
87	12	C
88	1	C
88	2	C
88	3	C
88	4	C
88	5	C
88	6	C
88	7	C
88	8	C
88	9	C
88	10	C
88	11	C
88	12	C
89	1	C
89	2	C
89	3	C
89	4	C
89	5	C
89	6	C
89	7	C
89	8	C
89	9	C
89	10	C
89	11	C
89	12	C
87	4	D
87	5	D
87	6	D
87	7	D
87	8	D
87	9	D
87	10	D
87	11	D
87	12	D
88	1	D
88	2	D
88	3	D
88	4	D
88	5	D
88	6	D
88	7	D

B
C

NOTICE

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A

B

C

88	2	F
88	3	F
88	4	F
88	5	F
88	6	F
88	7	F
88	8	F
88	9	F
88	10	F
88	11	F
88	12	F
89	1	F
89	2	F
89	3	F
89	4	F
89	5	F
89	6	F
89	7	F
89	8	F
89	9	F
89	10	F
89	11	F
89	12	F
87	4	G
87	5	G
87	6	G
87	7	G
87	8	G
87	9	G
87	10	G
87	11	G
87	12	G
88	1	G
88	2	G
88	3	G
88	4	G
88	5	G
88	6	G
88	7	G
88	8	G
88	9	G
88	10	G
88	11	G
88	12	G
89	1	G
89	2	G
89	3	G
89	4	G
89	5	G
89	6	G
89	7	G
89	8	G
89	9	G
89	10	G
89	11	G
89	12	G
87	4	H
87	5	H
87	6	H
87	7	H

PROPRIETARY

NOT FOR USE OR DISCLOSURE OUTSIDE OF
BELL SOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

A

B

C

87	8	H
87	9	H
87	10	H
87	11	H
87	12	H
88	1	H
88	2	H
88	3	H
88	4	H
88	5	H
88	6	H
88	7	H
88	8	H
88	9	H
88	10	H
88	11	H
88	12	H
89	1	H
89	2	H
89	3	H
89	4	H
89	5	H
89	6	H
89	7	H
89	8	H
89	9	H
89	10	H
89	11	H
89	12	H
87	4	J
87	5	J
87	6	J
87	7	J
87	8	J
87	9	J
87	10	J
87	11	J
87	12	J
88	1	J
88	2	J
88	3	J
88	4	J
88	5	J
88	6	J
88	7	J
88	8	J
88	9	J
88	10	J
88	11	J
88	12	J
89	1	J
89	2	J
89	3	J
89	4	J
89	5	J
89	6	J
89	7	J
89	8	J
89	9	J
89	10	J

PROPRIETARY

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BELL SOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT AS AUTHORIZED BY MANAGEMENT

Not for use or disclosure outside of Bell South Corporation or its affiliated companies except as authorized by management.

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A

B

C

89	11	J
89	12	J
87	4	K
87	5	K
87	6	K
87	7	K
87	8	K
87	9	K
87	10	K
87	11	K
87	12	K
88	1	K
88	2	K
88	3	K
88	4	K
88	5	K
88	6	K
88	7	K
88	8	K
88	9	K
88	10	K
88	11	K
88	12	K
89	1	K
89	2	K
89	3	K
89	4	K
89	5	K
89	6	K
89	7	K
89	8	K
89	9	K
89	10	K
89	11	K
89	12	K
88	12	N
89	1	N
89	2	N
89	3	N
89	4	N
89	5	N
89	6	N
89	7	N
89	8	N
89	9	N
89	10	N
89	11	N
89	12	N
88	12	O
89	1	O
89	2	O
89	3	O
89	4	O
89	5	O
89	6	O
89	7	O
89	8	O
89	9	O
89	10	O
89	11	O

PROPRIETARY

NOT FOR USE OR DISCLOSURE OUTSIDE OF
BELL SOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

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A

B

C

89

12 0

PROPRIETARY
 NOT FOR USE OR DISCLOSURE OUTSIDE OF
 BELL SOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
 COMPANIES EXCEPT UNDER A PROTECTION AGREEMENT

NO TALK

Not for use or disclosure outside of Bell South Telecommunications or its affiliated companies except under a protection agreement.

FOI B25Z

.0000083

Florida Medium ESSX Data: by mileage band

year	^A month	^B band	^C demand	revenue
87	4	A		
87	5	A		
87	6	A		
87	7	A		
87	8	A		
87	9	A		
87	10	A		
87	11	A		
87	12	A		
88	1	A		
88	2	A		
88	3	A		
88	4	A		
88	5	A		
88	6	A		
88	7	A		
88	8	A		
88	9	A		
88	10	A		
88	11	A		
88	12	A		
89	1	A		
89	2	A		
89	3	A		
89	4	A		
89	5	A		
89	6	A		
89	7	A		
89	8	A		
89	9	A		
89	10	A		
89	11	A		
89	12	A		
87	4	B		
87	5	B		
87	6	B		
87	7	B		
87	8	B		
87	9	B		
87	10	B		
87	11	B		
87	12	B		
88	1	B		
88	2	B		
88	3	B		
88	4	B		
88	5	B		
88	6	B		
88	7	B		
88	8	B		
88	9	B		
88	10	B		
88	11	B		
88	12	B		
89	1	B		

PROPRIETARY

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 BELL SOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
 COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

Not for use or disclosure outside of Bell South Telecommunications or its affiliated companies except under written agreement

A

B

C

89	2	B
89	3	B
89	4	B
89	5	B
89	6	B
89	7	B
89	8	B
89	9	B
89	10	B
89	11	B
89	12	B
87	4	C
87	5	C
87	6	C
87	7	C
87	8	C
87	9	C
87	10	C
87	11	C
87	12	C
88	1	C
88	2	C
88	3	C
88	4	C
88	5	C
88	6	C
88	7	C
88	8	C
88	9	C
88	10	C
88	11	C
88	12	C
89	1	C
89	2	C
89	3	C
89	4	C
89	5	C
89	6	C
89	7	C
89	8	C
89	9	C
89	10	C
89	11	C
89	12	C
87	4	D
87	5	D
87	6	D
87	7	D
87	8	D
87	9	D
87	10	D
87	11	D
87	12	D
88	1	D
88	2	D
88	3	D
88	4	D
88	5	D
88	6	D
88	7	D

PROPRIETARY

NOT FOR USE OR DISCLOSURE OUTSIDE OF
BELL SOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

A

B

C

88	8	D
88	9	D
88	10	D
88	11	D
88	12	D
89	1	D
89	2	D
89	3	D
89	4	D
89	5	D
89	6	D
89	7	D
89	8	D
89	9	D
89	10	D
89	11	D
89	12	D
87	4	E
87	5	E
87	6	E
87	7	E
87	8	E
87	9	E
87	10	E
87	11	E
87	12	E
88	1	E
88	2	E
88	3	E
88	4	E
88	5	E
88	6	E
88	7	E
88	8	E
88	9	E
88	10	E
88	11	E
88	12	E
89	1	E
89	2	E
89	3	E
89	4	E
89	5	E
89	6	E
89	7	E
89	8	E
89	9	E
89	10	E
89	11	E
89	12	E
87	4	F
87	5	F
87	6	F
87	7	F
87	8	F
87	9	F
87	10	F
87	11	F
87	12	F
88	1	F

PROPRIETARY

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BELL SOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

NOTICE

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A

B

C

88	2	F
88	3	F
88	4	F
88	5	F
88	6	F
88	7	F
88	8	F
88	9	F
88	10	F
88	11	F
88	12	F
89	1	F
89	2	F
89	3	F
89	4	F
89	5	F
89	6	F
89	7	F
89	8	F
89	9	F
89	10	F
89	11	F
89	12	F
87	4	G
87	5	G
87	6	G
87	7	G
87	8	G
87	9	G
87	10	G
87	11	G
87	12	G
88	1	G
88	2	G
88	3	G
88	4	G
88	5	G
88	6	G
88	7	G
88	8	G
88	9	G
88	10	G
88	11	G
88	12	G
89	1	G
89	2	G
89	3	G
89	4	G
89	5	G
89	6	G
89	7	G
89	8	G
89	9	G
89	10	G
89	11	G
89	12	G
87	4	H
87	5	H
87	6	H
87	7	H

PROPRIETARY

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SOUTHWEST TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

NOTICE

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its affiliated companies except under written agreement

A

B

C

87	8	H
87	9	H
87	10	H
87	11	H
87	12	H
88	1	H
88	2	H
88	3	H
88	4	H
88	5	H
88	6	H
88	7	H
88	8	H
88	9	H
88	10	H
88	11	H
88	12	H
89	1	H
89	2	H
89	3	H
89	4	H
89	5	H
89	6	H
89	7	H
89	8	H
89	9	H
89	10	H
89	11	H
89	12	H
87	4	J
87	5	J
87	6	J
87	7	J
87	8	J
87	9	J
87	10	J
87	11	J
87	12	J
88	1	J
88	2	J
88	3	J
88	4	J
88	5	J
88	6	J
88	7	J
88	8	J
88	9	J
88	10	J
88	11	J
88	12	J
89	1	J
89	2	J
89	3	J
89	4	J
89	5	J
89	6	J
89	7	J
89	8	J
89	9	J
89	10	J

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COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

NOTICE

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its affiliated companies except under written agreement

A

B

C

89	11	J
89	12	J
87	4	K
87	5	K
87	6	K
87	7	K
87	8	K
87	9	K
87	10	K
87	11	K
87	12	K
88	1	K
88	2	K
88	3	K
88	4	K
88	5	K
88	6	K
88	7	K
88	8	K
88	9	K
88	10	K
88	11	K
88	12	K
89	1	K
89	2	K
89	3	K
89	4	K
89	5	K
89	6	K
89	7	K
89	8	K
89	9	K
89	10	K
89	11	K
89	12	K
88	11	N
88	12	N
89	1	N
89	2	N
89	3	N
89	4	N
89	5	N
89	6	N
89	7	N
89	8	N
89	9	N
89	10	N
89	11	N
89	12	N
89	9	O
89	10	O
89	11	O
89	12	O

PROPRIETARY

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BELL SOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

NOTICE

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Florida Large ESSX Data: by mileage band

year	month	^A band	^B demand	^C revenue
87		4	A	
87		5	A	
87		6	A	
87		7	A	
87		8	A	
87		9	A	
87		10	A	
87		11	A	
87		12	A	
88		1	A	
88		2	A	
88		3	A	
88		4	A	
88		5	A	
88		6	A	
88		7	A	
88		8	A	
88		9	A	
88		10	A	
88		11	A	
88		12	A	
89		1	A	
89		2	A	
89		3	A	
89		4	A	
89		5	A	
89		6	A	
89		7	A	
89		8	A	
89		9	A	
89		10	A	
89		11	A	
89		12	A	
87		4	B	
87		5	B	
87		6	B	
87		7	B	
87		8	B	
87		9	B	
87		10	B	
87		11	B	
87		12	B	
88		1	B	
88		2	B	
88		3	B	
88		4	B	
88		5	B	
88		6	B	
88		7	B	
88		8	B	
88		9	B	
88		10	B	
88		11	B	
88		12	B	
89		1	B	

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A

B

C

89	2	B
89	3	B
89	4	B
89	5	B
89	6	B
89	7	B
89	8	B
89	9	B
89	10	B
89	11	B
89	12	B
87	4	C
87	5	C
87	6	C
87	7	C
87	8	C
87	9	C
87	10	C
87	11	C
87	12	C
88	1	C
88	2	C
88	3	C
88	4	C
88	5	C
88	6	C
88	7	C
88	8	C
88	9	C
88	10	C
88	11	C
88	12	C
89	1	C
89	2	C
89	3	C
89	4	C
89	5	C
89	6	C
89	7	C
89	8	C
89	9	C
89	10	C
89	11	C
89	12	C
87	4	D
87	5	D
87	6	D
87	7	D
87	8	D
87	9	D
87	10	D
87	11	D
87	12	D
88	1	D
88	2	D
88	3	D
88	4	D
88	5	D
88	6	D
88	7	D

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A

B

C

88	8	D
88	9	D
88	10	D
88	11	D
88	12	D
89	1	D
89	2	D
89	3	D
89	4	D
89	5	D
89	6	D
89	7	D
89	8	D
89	9	D
89	10	D
89	11	D
89	12	D
87	4	E
87	5	E
87	6	E
87	7	E
87	8	E
87	9	E
87	10	E
87	11	E
87	12	E
88	1	E
88	2	E
88	3	E
88	4	E
88	5	E
88	6	E
88	7	E
88	8	E
88	9	E
88	10	E
88	11	E
88	12	E
89	1	E
89	2	E
89	3	E
89	4	E
89	5	E
89	6	E
89	7	E
89	8	E
89	9	E
89	10	E
89	11	E
89	12	E
87	4	F
87	5	F
87	6	F
87	7	F
87	8	F
87	9	F
87	10	F
87	11	F
87	12	F
88	1	F

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0000092

A

B

C

88	2	F
88	3	F
88	4	F
88	5	F
88	6	F
88	7	F
88	8	F
88	9	F
88	10	F
88	11	F
88	12	F
89	1	F
89	2	F
89	3	F
89	4	F
89	5	F
89	6	F
89	7	F
89	8	F
89	9	F
89	10	F
89	11	F
89	12	F
87	4	G
87	5	G
87	6	G
87	7	G
87	8	G
87	9	G
87	10	G
87	11	G
87	12	G
88	1	G
88	2	G
88	3	G
88	4	G
88	5	G
88	6	G
88	7	G
88	8	G
88	9	G
88	10	G
88	11	G
88	12	G
89	1	G
89	2	G
89	3	G
89	4	G
89	5	G
89	6	G
89	7	G
89	8	G
89	9	G
89	10	G
89	11	G
89	12	G
87	4	H
87	5	H
87	6	H
87	7	H

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A

B

C

87	8	H
87	9	H
87	10	H
87	11	H
87	12	H
88	1	H
88	2	H
88	3	H
88	4	H
88	5	H
88	6	H
88	7	H
88	8	H
88	9	H
88	10	H
88	11	H
88	12	H
89	1	H
89	2	H
89	3	H
89	4	H
89	5	H
89	6	H
89	7	H
89	8	H
89	9	H
89	10	H
89	11	H
89	12	H
87	4	J
87	5	J
87	6	J
87	7	J
87	8	J
87	9	J
87	10	J
87	11	J
87	12	J
88	1	J
88	2	J
88	3	J
88	4	J
88	5	J
88	6	J
88	7	J
88	8	J
88	9	J
88	10	J
88	11	J
88	12	J
89	1	J
89	2	J
89	3	J
89	4	J
89	5	J
89	6	J
89	7	J
89	8	J
89	9	J
89	10	J

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0000096

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0000096

A

B

C

89	11	J
89	12	J
87	4	K
87	5	K
87	6	K
87	7	K
87	8	K
87	9	K
87	10	K
87	11	K
87	12	K
88	1	K
88	2	K
88	3	K
88	4	K
88	5	K
88	6	K
88	7	K
88	8	K
88	9	K
88	10	K
88	11	K
88	12	K
89	1	K
89	2	K
89	3	K
89	4	K
89	5	K
89	6	K
89	7	K
89	8	K
89	9	K
89	10	K
89	11	K
89	12	K
89	1	N
89	2	N
89	3	N
89	4	N
89	5	N
89	6	N
89	7	N
89	8	N
89	9	N
89	10	N
89	11	N
89	12	N
89	2	O
89	3	O
89	4	O
89	5	O
89	6	O
89	7	O
89	8	O
89	9	O
89	10	O
89	11	O
89	12	O

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AGGREGATE DATA
FILE=FLS.PRN

YR	MO	A <2.5 D	B <2.5 R	C >2.5 D	D >2.5 R
87	4				
87	5				
87	6				
87	7				
87	8				
87	9				
87	10				
87	11				
87	12				
88	1				
88	2				
88	3				
88	4				
88	5				
88	6				
88	7				
88	8				
88	9				
88	10				
88	11				
88	12				
89	1				
89	2				
89	3				
89	4				
89	5				
89	6				
89	7				
89	8				
89	9				
89	10				
89	11				
89	12				

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FILE=FLM.PRN

MEDIUM ESSX

yr	mo	^A <2.5 D	^B <2.5 r	^C >2.5 D	^D >2.5 r
87	4				
87	5				
87	6				
87	7				
87	8				
87	9				
87	10				
87	11				
87	12				
88	1				
88	2				
88	3				
88	4				
88	5				
88	6				
88	7				
88	8				
88	9				
88	10				
88	11				
88	12				
89	1				
89	2				
89	3				
89	4				
89	5				
89	6				
89	7				
89	8				
89	9				
89	10				
89	11				
89	12				

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AGGREGATE DATA
FILE=FLL.PRN

LARGE ESSX

YR	MO	A <2.5 D	B <2.5 R	C >2.5 D	D >2.5 R
87	4				
87	5				
87	6				
87	7				
87	8				
87	9				
87	10				
87	11				
87	12				
88	1				
88	2				
88	3				
88	4				
88	5				
88	6				
88	7				
88	8				
88	9				
88	10				
88	11				
88	12				
89	1				
89	2				
89	3				
89	4				
89	5				
89	6				
89	7				
89	8				
89	9				
89	10				
89	11				
89	12				

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HISTORICAL INFORMATION ON NON-AGRICULTURAL EMPLOYMENT
NONFARM EMPLOYMENT (000)

SOUTHERN BELL			NONFARM
mo	yr	cpi	SEAS ADJ FL
		-----	-----
1	1987	111.2	4723
2	1987	111.6	4747
3	1987	112.1	4766
4	1987	112.7	4796
5	1987	113.1	4814
6	1987	113.5	4843
7	1987	113.8	4871
8	1987	114.4	4879
9	1987	115.0	4907
10	1987	115.3	4930
11	1987	115.4	4941
12	1987	115.4	4960
1	1988	115.7	4950
2	1988	116.0	4988
3	1988	116.5	5007
4	1988	117.1	5021
5	1988	117.5	5039
6	1988	118.0	5059
7	1988	118.5	5108
8	1988	119.0	5107
9	1988	119.8	5130
10	1988	120.2	5151
11	1988	120.3	5209
12	1988	120.5	5194
1	1989	121.1	5213
2	1989	121.6	5229
3	1989	122.3	5216
4	1989	123.1	5231
5	1989	123.8	5247
6	1989	124.1	5261
7	1989	124.4	5287
8	1989	124.6	5297
9	1989	125.0	5313
10	1989	125.4	5322
11	1989	125.8	5332
12	1989	126.2	5342

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NO FILE

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INSIDE WIRE - RECURRING DATA FILES

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..		<DIR>	08-31-93	1:34p
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SCB-R	BAT	5718	04-22-93	12:41p
SCB-B	BAT	5714	04-22-93	12:30p
DATADEF	TXT	1901	08-31-93	1:09p
SB	PRN	79488	04-22-93	1:32p
SB	BAT	3223	08-31-93	9:45a
SCB-ELAS	BAT	3034	08-31-93	9:58a

DOCUMENT NUMBER-DATE

10285 SEP 23 88

FPSC-RECORDS/REPORTING

FOI B25Z

0000100

BellSouth Telecommunications ECONOMIC ANALYSIS

DEMAND ANALYSIS: INSIDE WIRE MONTHLY PLANS Book 1 of 2



jsm
4/29/93

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Contents

T A B 1 - Base Case Annual Forecasts

T A B 2 - Price Scenarios

T A B 3 - Graphs by Plan

T A B 4 - Numeric Data

T A B 5 - Elasticity and Florida's Refund

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THE DEMAND FOR INSIDE WIRE: BELLSOUTH TELECOMMUNICATIONS, INC

Purpose:

This study was developed to estimate the demand for Inside Wire monthly plans for all nine BellSouth states over a five year period (1993-1997). These projections, based upon "business as usual conditions", will be used by the Pricing organization as inputs to a cost study to assist in evaluating pricing decisions in the upcoming months. Provided in this study are the following:

- 1). Monthly In-Service WMR quantities (Actual & Forecasted)
- 2). Monthly In-Service WMQ quantities (Actual & Forecasted)
- 3). Monthly In-Service SEQ1X quantities (Actual & Forecasted)
- 4). Year-end cumulative Inward Movement quantities for all plans (Actual & Forecasted)
- 5). Mutual Subscription percentages for Florida, Georgia, and South Carolina
- 6). Graphs of each plan over time (Actual & Forecasted)
- 7). Full statistical output for all Econometric models
- 8). Price Scenarios

History:

Approximately nine demand studies have been developed for Inside Wire monthly plans since 1988. Projections were made based on the results of econometric models which captured and quantified the impact of historical price changes on the demand for this service. In Southern Bell, models were developed to estimate the demand for the new SEQ1X plan. In the Southern Bell states, residential and business subscription were NOT analyzed separately. These earlier models used Florida's migration pattern as a surrogate for the acceptance of the SEQ1X plans in the other Southern bell states. As soon as the SEQ1X plans were introduced, no other subscribers could be added to the WMR and WMQ plans. Since customers could subscribe to both the WMR & WMQ plans, Information Systems was contacted to produce a quarterly report showing mutual subscriptions.

On the South Central Bell side, residential and business subscriptions were evaluated separately. This was necessary because the rates were different between classes of service. Unlike in the Southern Bell analysis, a more homogeneous offering of the SEQ1X plan allowed for the estimation of a pooled Generalized Least Squares econometric model. Such models were used in subsequent log-linear studies to estimate [Almon Lag] price elasticities in the range of -.01 to -.04.

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Current Methodology:

Forecasts for Southern Bell were developed through a variety of techniques. Data was collected for each plan from January 1987 to February 1993. Also collected were the historical rates associated with each plan over time. Examination of the historical data indicated that some WMR adjustments were necessary to reflect accounting revisions. For example, an adjustment was made in the Georgia WMR data in late 1990 by calculating the average first difference values for the 3 month period prior to the anomaly. This number was subtracted from the adjustment month's first difference value for a retroactive adjustment constant of 64,943. In other words, 64,943 In-service plans were subtracted from every month prior to the 1990 accounting revision. Similar adjustments were applied to North Carolina & South Carolina. No adjustments were necessary for the WMQ plans. The enormous drop in North Carolina's WMQ plans were the result not of accounting revisions, but from a manual, lump sum conversion of WMQ plans to SEQ1X.

15 Univariate time series models were chosen as the vehicle to produce forecasts for the WMR and WMQ plans. Since the price changes associated with these plans occurred relatively early in the data (prior to 2/1/91) and because the impact was extremely small (elasticity methods such as Exponential Smoothing and Box-Jenkins (ARIMA) would still produce reliable results. Furthermore, it was not necessary to link future telecommunication activity to a service that has been prohibited from future subscription. Once these forecasts were developed, they were used as exogenous or "input variables" in the Southern Bell SEQ1X regression models.

Regression models were constructed for each state in order to econometrically forecast the demand for SEQ1X. The differences between states were so dramatic as to preclude the use of the "Pooling" approach sometimes used in the past. The demand for SEQ1X was specified as a function of the total number of access lines in-service (residence + business main), the SEQ1X monthly price, the number of WMR (adjusted) and WMQ plans in-service. Because of serious autocorrelation problems, it was necessary to include a Cochran-Orcutt correction to account for those underlying patterns in the data that were not adequately captured by the exogenous variables. The t-statistics associated with the WMR and WMQ plans were low as expected because they entered the equation separately instead of being added together. This finding is the result of multicollinearity and in no way impacts the forecasting ability of the equations. Forecasts for the SEQ1X plans were obtained by applying these estimates to the future values of total access lines (residence + business main) developed by EPS9212. Price levels were assumed to remain at 1993 levels over the forecast horizon.

Pricing considerations made it necessary to model Residential and Business SEQ1X plans separately for the South Central Bell states. For the residential sector, residential access lines were used to link the movements of the plans to the health of the telecommunications industry. For the business sector, business main lines were used. Both types of models were developed on a state by state basis and included variables to capture seasonality. Also included were Cochran-Orcutt corrections to minimize the impact of autocorrelation in the residuals. Finally, the SEQ1X monthly rate was included to account for market adjustments resulting from price changes. Price levels were again assumed to remain at 1993 levels over the forecast horizon.

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ANNUAL FORECASTS

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ANNUAL SUMMARY OF SOUTHERN BELL MONTHLY PLANS

YR	A	B	C	D	E	F	G	H
	FL	FL	FL	FL	FL	FL	FL	FL
	In-Srv	In-Srv	In-Srv	Inw-M %	Inw-M	In-Srv	In-Srv	In-Srv
	WMR	WMQ	SEQ1X	SEQ1X	SEQ1X	WMR Chg	WMQ Chg	SEQ1X Chg
RES+BUS	RES+BUS	RES+BUS	RES+BUS	RES+BUS	RES+BUS	RES+BUS	RES+BUS	
ACTUAL	1989							
ACTUAL	1990							
ACTUAL	1991							
ACTUAL	1992							
FCST	1993							
FCST	1994							
FCST	1995							
FCST	1996							
FCST	1997							

YR	GA	GA	GA	GA	GA	GA	GA	GA
	In-Srv	In-Srv	In-Srv	Inw-M %	Inw-M	In-Srv	In-Srv	In-Srv
	WMR	WMQ	SEQ1X	SEQ1X	SEQ1X	WMR Chg	WMQ Chg	SEQ1X Chg
	RES+BUS	RES+BUS	RES+BUS	RES+BUS	RES+BUS	RES+BUS	RES+BUS	RES+BUS
ACTUAL	1989							
ACTUAL	1990							
ACTUAL	1991							
ACTUAL	1992							
FCST	1993							
FCST	1994							
FCST	1995							
FCST	1996							
FCST	1997							

YR	NC	NC	NC	NC	NC	NC	NC	NC
	In-Srv	In-Srv	In-Srv	Inw-M %	Inw-M	In-Srv	In-Srv	In-Srv
	WMR	WMQ	SEQ1X	SEQ1X	SEQ1X	WMR Chg	WMQ Chg	SEQ1X Chg
	RES+BUS	RES+BUS	RES+BUS	RES+BUS	RES+BUS	RES+BUS	RES+BUS	RES+BUS
ACTUAL	1989							
ACTUAL	1990							
ACTUAL	1991							
ACTUAL	1992							
FCST	1993							
FCST	1994							
FCST	1995							
FCST	1996							
FCST	1997							

YR	SC	SC	SC	SC	SC	SC	SC	SC
	In-Srv	In-Srv	In-Srv	Inw-M %	Inw-M	In-Srv	In-Srv	In-Srv
	WMR	WMQ	SEQ1X	SEQ1X	SEQ1X	WMR Chg	WMQ Chg	SEQ1X Chg
	RES+BUS	RES+BUS	RES+BUS	RES+BUS	RES+BUS	RES+BUS	RES+BUS	RES+BUS
ACTUAL	1989							
ACTUAL	1990							
ACTUAL	1991							
ACTUAL	1992							
FCST	1993							
FCST	1994							
FCST	1995							
FCST	1996							
FCST	1997							

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ANNUAL SUMMARY OF SOUTH CENTRAL BELL PLANS

YR	A AL	B AL	C AL	D AL	E AL	F AL	G AL	H AL
	In-Srv SEQ1X RESID	Inw-M % SEQ1X RESID	Inw-M SEQ1X RESID	In-Srv SEQ1X BUSIN	Inw-M % SEQ1X BUSIN	Inw-M SEQ1X BUSIN	In-Srv SEQ1X Chg RESID	In-Srv SEQ1X Chg BUSIN
1989								
1990								
1991								
1992								
1993								
1994								
1995								
1996								
1997								

YR	KY	KY	KY	KY	KY	KY	KY	KY
	In-Srv SEQ1X RESID	Inw-M % SEQ1X RESID	Inw-M SEQ1X RESID	In-Srv SEQ1X BUSIN	Inw-M % SEQ1X BUSIN	Inw-M SEQ1X BUSIN	In-Srv SEQ1X Chg RESID	In-Srv SEQ1X Chg BUSIN
1989								
1990								
1991								
1992								
1993								
1994								
1995								
1996								
1997								

YR	LA	LA	LA	LA	LA	LA	LA	LA
	In-Srv SEQ1X RESID	Inw-M % SEQ1X RESID	Inw-M SEQ1X RESID	In-Srv SEQ1X BUSIN	Inw-M % SEQ1X BUSIN	Inw-M SEQ1X BUSIN	In-Srv SEQ1X Chg RESID	In-Srv SEQ1X Chg BUSIN
1989								
1990								
1991								
1992								
1993								
1994								
1995								
1996								
1997								

YR	MS	MS	MS	MS	MS	MS	MS	MS
	In-Srv SEQ1X RESID	Inw-M % SEQ1X RESID	Inw-M SEQ1X RESID	In-Srv SEQ1X BUSIN	Inw-M % SEQ1X BUSIN	Inw-M SEQ1X BUSIN	In-Srv SEQ1X Chg RESID	In-Srv SEQ1X Chg BUSIN
1989								
1990								
1991								
1992								
1993								
1994								
1995								
1996								
1997								

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YR	A	B	C	D	E	F	G	N
	TN	TN	TN	TN	TN	TN	TN	TN
	In-Srv SEQ1X RESID	Inw-M X SEQ1X RESID	Inw-M SEQ1X RESID	In-Srv SEQ1X BUSIN	Inw-M X SEQ1X BUSIN	Inw-M SEQ1X BUSIN	In-Srv SEQ1X Chg RESID	In-Srv SEQ1X Chg BUSIN
1989								
1990								
1991								
1992								
1993								
1994								
1995								
1996 1								
1997 1								

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MUTUAL SUBSCRIBERS

4/27/93
JSM

A	B	C
4/5/93	2/20/92	4/5/93
FL	GA	SC

6	GRAND TOTAL (WMR QTY) =		
	less QTY WMR ONLY =		
<hr style="border-top: 1px dashed black;"/>			
	WMR & WMQ subscribers =		
	GRAND TOTAL (WMQ QTY) =		
	less WMR & WMQ =		
<hr style="border-top: 1px dashed black;"/>			
10	WMQ ONLY subscribers =		
<hr style="border-top: 3px double black;"/>			
	% WMR ONLY =	64%	66%
	% WMQ ONLY =	6%	10%
		45%	7%
<hr style="border-top: 3px double black;"/>			

NO CHANGE IN PERCENTAGES SINCE 2/20/92

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Price Scenarios:

The projections which follow were developed using the test rates stated below. The elasticity value of -.04 was used to calculate a conservative impact of these rate adjustments. The rates for the WMQ plans were assumed to remain at 1993 levels over the forecast period.

SEQ1X RATES

<u>STATE</u>	<u>CURRENT</u>	<u>1/1/94</u>	<u>1/1/95</u>
AL	1.5	2.25	2.8
FL	2.5	2.8	2.8
GA	2	2.8	2.8
KY	2	2.8	2.8
LA	2	2.8	2.8
MS	2	2.8	2.8
NC	2.5	2.8	2.8
SC	2	2.8	2.8
TN	1.25	2	2.8

WMR RATES

<u>STATE</u>	<u>CURRENT</u>	<u>1/1/94</u>	<u>1/1/95</u>
AL	N/A	N/A	N/A
FL	1.5	1.8	1.8
GA	1	1.8	1.8
KY	N/A	N/A	N/A
LA	N/A	N/A	N/A
MS	N/A	N/A	N/A
NC	1.5	1.8	1.8
SC	1	1.8	1.8
TN	N/A	N/A	N/A

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ANNUAL SUMMARY OF SOUTHERN BELL MONTHLY PLANS: SCENARIO WITH ELASTICITY = -0.04

	A	B	C	D	E	F	G	N	
	FL	FL	FL	FL	FL	FL	FL	FL	
	In-Srv	In-Srv	In-Srv	Inw-M %	Inw-M	Destim.	Destim.	Destim.	
	WMR	WMO	SEQ1X	SEQ1X	SEQ1X	WMR Chg	WMO Chg	SEQ1X Chg	
	RES+BUS	RES+BUS	RES+BUS	RES+BUS	RES+BUS	RES+BUS	RES+BUS	RES+BUS	
	OLD PCE	\$1.50	\$1.00	\$2.50	N/A	N/A	N/A	N/A	N/A
1/1/94	NEW PCE	\$1.80	\$1.00	\$2.80	N/A	N/A	N/A	N/A	N/A
	CHG PCE	20.00%	0.00%	12.00%	N/A	N/A	N/A	N/A	N/A
	YR END								
10	FORECAST	1994							
	FORECAST	1995							
	FORECAST	1996							
13	FORECAST	1997							

	GA	GA	GA	GA	GA	GA	GA	GA	
	In-Srv	In-Srv	In-Srv	Inw-M %	Inw-M	In-Srv	In-Srv	In-Srv	
	WMR	WMO	SEQ1X	SEQ1X	SEQ1X	WMR Chg	WMO Chg	SEQ1X Chg	
	RES+BUS	RES+BUS	RES+BUS	RES+BUS	RES+BUS	RES+BUS	RES+BUS	RES+BUS	
	OLD PCE	\$1.00	\$1.00	\$2.00	N/A	N/A	N/A	N/A	N/A
1/1/94	NEW PCE	\$1.80	\$1.00	\$2.80	N/A	N/A	N/A	N/A	N/A
	CHG PCE	80.00%	0.00%	40.00%	N/A	N/A	N/A	N/A	N/A
	YR END								
22	FORECAST	1994							
	FORECAST	1995							
	FORECAST	1996							
25	FORECAST	1997							

	NC	NC	NC	NC	NC	NC	NC	NC	
	In-Srv	In-Srv	In-Srv	Inw-M %	Inw-M	In-Srv	In-Srv	In-Srv	
	WMR	WMO	SEQ1X	SEQ1X	SEQ1X	WMR Chg	WMO Chg	SEQ1X Chg	
	RES+BUS	RES+BUS	RES+BUS	RES+BUS	RES+BUS	RES+BUS	RES+BUS	RES+BUS	
	OLD PCE	\$1.50	\$1.00	\$2.50	N/A	N/A	N/A	N/A	N/A
1/1/94	NEW PCE	\$1.80	\$1.00	\$2.80	N/A	N/A	N/A	N/A	N/A
	CHG PCE	20.00%	0.00%	12.00%	N/A	N/A	N/A	N/A	N/A
	YR END								
34	FORECAST	1994							
	FORECAST	1995							
	FORECAST	1996							
37	FORECAST	1997							

	SC	SC	SC	SC	SC	SC	SC	SC	
	In-Srv	In-Srv	In-Srv	Inw-M %	Inw-M	In-Srv	In-Srv	In-Srv	
	WMR	WMO	SEQ1X	SEQ1X	SEQ1X	WMR Chg	WMO Chg	SEQ1X Chg	
	RES+BUS	RES+BUS	RES+BUS	RES+BUS	RES+BUS	RES+BUS	RES+BUS	RES+BUS	
	OLD PCE	\$1.00	\$1.00	\$2.00	N/A	N/A	N/A	N/A	N/A
1/1/94	NEW PCE	\$1.80	\$1.00	\$2.80	N/A	N/A	N/A	N/A	N/A
	CHG PCE	80.00%	0.00%	40.00%	N/A	N/A	N/A	N/A	N/A
	YR END								
46	FORECAST	1994							
	FORECAST	1995							
	FORECAST	1996							
49	FORECAST	1997							

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ANNUAL SUMMARY OF SOUTH CENTRAL BELL PLANS: SCENARIO WITH ELASTICITY = -0.04

YR	A	B	C	D	E	F	G	H	
	AL	AL	AL	AL	AL	AL	AL	AL	
	In-Srv	Inw-M %	Inw-M	In-Srv	Inw-M %	Inw-M	Destim.	Destim.	
	SEQ1X	SEQ1X	SEQ1X	SEQ1X	SEQ1X	SEQ1X	SEQ1X	SEQ1X Ch	
	RESID	RESID	RESID	BUSIN	BUSIN	BUSIN	RESID	BUSIN	
1/1/94	OLD PCE	\$1.50	N/A	N/A	\$1.50	N/A	N/A	N/A	N/A
	NEW PCE	\$2.25	N/A	N/A	\$2.25	N/A	N/A	N/A	N/A
	CHG PCE	33.33%	N/A	N/A	33.33%	N/A	N/A	N/A	N/A

9 FORECAST 1994
 FORECAST 1995
 FORECAST 1996
 12 FORECAST 1997

YR	KY	KY	KY	KY	KY	KY	KY	KY
	In-Srv	Inw-M %	Inw-M	In-Srv	Inw-M %	Inw-M	In-Srv	In-Srv
	SEQ1X	SEQ1X	SEQ1X	SEQ1X	SEQ1X	SEQ1X	SEQ1X Chg.	SEQ1X Ch
	RESID	RESID	RESID	BUSIN	BUSIN	BUSIN	RESID	BUSIN
1/1/94	OLD PCE	\$2.00	N/A	N/A	\$2.00	N/A	N/A	N/A
	NEW PCE	\$2.80	N/A	N/A	\$2.80	N/A	N/A	N/A
	CHG PCE	28.57%	N/A	N/A	28.57%	N/A	N/A	N/A

20 FORECAST 1994
 FORECAST 1995
 FORECAST 1996
 23 FORECAST 1997

YR	LA	LA	LA	LA	LA	LA	LA	LA
	In-Srv	Inw-M %	Inw-M	In-Srv	Inw-M %	Inw-M	In-Srv	In-Srv
	SEQ1X	SEQ1X	SEQ1X	SEQ1X	SEQ1X	SEQ1X	SEQ1X Chg	SEQ1X Ch
	RESID	RESID	RESID	BUSIN	BUSIN	BUSIN	RESID	BUSIN
1/1/94	OLD PCE	\$2.00	N/A	N/A	\$2.00	N/A	N/A	N/A
	NEW PCE	\$2.80	N/A	N/A	\$2.80	N/A	N/A	N/A
	CHG PCE	28.57%	N/A	N/A	28.57%	N/A	N/A	N/A

31 FORECAST 1994
 FORECAST 1995
 FORECAST 1996
 34 FORECAST 1997

YR	MS	MS	MS	MS	MS	MS	MS	MS
	In-Srv	Inw-M %	Inw-M	In-Srv	Inw-M %	Inw-M	In-Srv	In-Srv
	SEQ1X	SEQ1X	SEQ1X	SEQ1X	SEQ1X	SEQ1X	SEQ1X Chg	SEQ1X Ch
	RESID	RESID	RESID	BUSIN	BUSIN	BUSIN	RESID	BUSIN
1/1/94	OLD PCE	\$2.00	N/A	N/A	\$2.00	N/A	N/A	N/A
	NEW PCE	\$2.80	N/A	N/A	\$2.80	N/A	N/A	N/A
	CHG PCE	28.57%	N/A	N/A	28.57%	N/A	N/A	N/A

42 FORECAST 1994
 FORECAST 1995
 FORECAST 1996
 45 FORECAST 1997

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YR	TN	TN	TN	TN	TN	TN	TN	TN
	In-Srv	Inw-M %	Inw-M	In-Srv	Inw-M %	Inw-M	In-Srv	In-Srv
	SEQ1X	SEQ1X	SEQ1X	SEQ1X	SEQ1X	SEQ1X	SEQ1X Chg	SEQ1X Ch
	RESID	RESID	RESID	BUSIN	BUSIN	BUSIN	RESID	BUSIN
OLD PCE	\$1.25	N/A	N/A	\$1.25	N/A	N/A	N/A	N/A
1/1/94 NEW PCE	\$2.00	N/A	N/A	\$2.00	N/A	N/A	N/A	N/A
CHG PCE	37.50%	N/A	N/A	37.50%	N/A	N/A	N/A	N/A

- 8 FORECAST 1994 1
- 9 FORECAST 1995 1
- 10 FORECAST 1996 1
- 11 FORECAST 1997 1

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ANNUAL SUMMARY OF SOUTH CENTRAL BELL PLANS: SCENARIO WITH ELASTICITY = -0.04

YR	A	B	C	D	E	F	G	H	
	AL	AL	AL	AL	AL	AL	AL	AL	
	In-Srv SEQ1X RESID	Inw-M % SEQ1X RESID	Inw-M SEQ1X RESID	In-Srv SEQ1X BUSIN	Inw-M % SEQ1X BUSIN	Inw-M SEQ1X BUSIN	Destim. SEQ1X RESID	Destim. SEQ1X Ch BUSIN	
1/1/95	OLD PCE	\$1.50	N/A	N/A	\$1.50	N/A	N/A	N/A	N/A
	NEW PCE	\$2.80	N/A	N/A	\$2.80	N/A	N/A	N/A	N/A
	CHG PCE	46.43%	N/A	N/A	46.43%	N/A	N/A	N/A	N/A

9 FORECAST 1995
 FORECAST 1996
 11 FORECAST 1997

YR	KY	KY	KY	KY	KY	KY	KY	KY
	In-Srv SEQ1X RESID	Inw-M % SEQ1X RESID	Inw-M SEQ1X RESID	In-Srv SEQ1X BUSIN	Inw-M % SEQ1X BUSIN	Inw-M SEQ1X BUSIN	In-Srv SEQ1X Chg RESID	In-Srv SEQ1X Ch BUSIN
	1/1/95	OLD PCE	\$2.00	N/A	N/A	\$2.00	N/A	N/A
	NEW PCE	\$2.80	N/A	N/A	\$2.80	N/A	N/A	N/A
	CHG PCE	28.57%	N/A	N/A	28.57%	N/A	N/A	N/A

19 FORECAST 1995
 FORECAST 1996
 21 FORECAST 1997

YR	LA	LA	LA	LA	LA	LA	LA	LA
	In-Srv SEQ1X RESID	Inw-M % SEQ1X RESID	Inw-M SEQ1X RESID	In-Srv SEQ1X BUSIN	Inw-M % SEQ1X BUSIN	Inw-M SEQ1X BUSIN	In-Srv SEQ1X Chg RESID	In-Srv SEQ1X Ch BUSIN
	1/1/95	OLD PCE	\$2.00	N/A	N/A	\$2.00	N/A	N/A
	NEW PCE	\$2.80	N/A	N/A	\$2.80	N/A	N/A	N/A
	CHG PCE	28.57%	N/A	N/A	28.57%	N/A	N/A	N/A

29 FORECAST 1995
 FORECAST 1996
 31 FORECAST 1997

YR	MS	MS	MS	MS	MS	MS	MS	MS
	In-Srv SEQ1X RESID	Inw-M % SEQ1X RESID	Inw-M SEQ1X RESID	In-Srv SEQ1X BUSIN	Inw-M % SEQ1X BUSIN	Inw-M SEQ1X BUSIN	In-Srv SEQ1X Chg RESID	In-Srv SEQ1X Ch BUSIN
	1/1/95	OLD PCE	\$2.00	N/A	N/A	\$2.00	N/A	N/A
	NEW PCE	\$2.80	N/A	N/A	\$2.80	N/A	N/A	N/A
	CHG PCE	28.57%	N/A	N/A	28.57%	N/A	N/A	N/A

39 FORECAST 1995
 FORECAST 1996
 41 FORECAST 1997

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YR	TN	TN	TN	TN	TN	TN	TN	TN
	In-Srv	Inw-M %	Inw-M	In-Srv	Inw-M %	Inw-M	In-Srv	In-Srv
	SEQ1X	SEQ1X	SEQ1X	SEQ1X	SEQ1X	SEQ1X	SEQ1X Chg	SEQ1X Ch
	RESID	RESID	RESID	BUSIN	BUSIN	BUSIN	RESID	BUSIN
OLD PCE	\$1.25	N/A	N/A	\$1.25	N/A	N/A	N/A	N/A
1/1/95 NEW PCE	\$2.80	N/A	N/A	\$2.80	N/A	N/A	N/A	N/A
CHG PCE	55.36%	N/A	N/A	55.36%	N/A	N/A	N/A	N/A

8 FORECAST 1995
9 FORECAST 1996
10 FORECAST 1997

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GRAPHS BY PLAN

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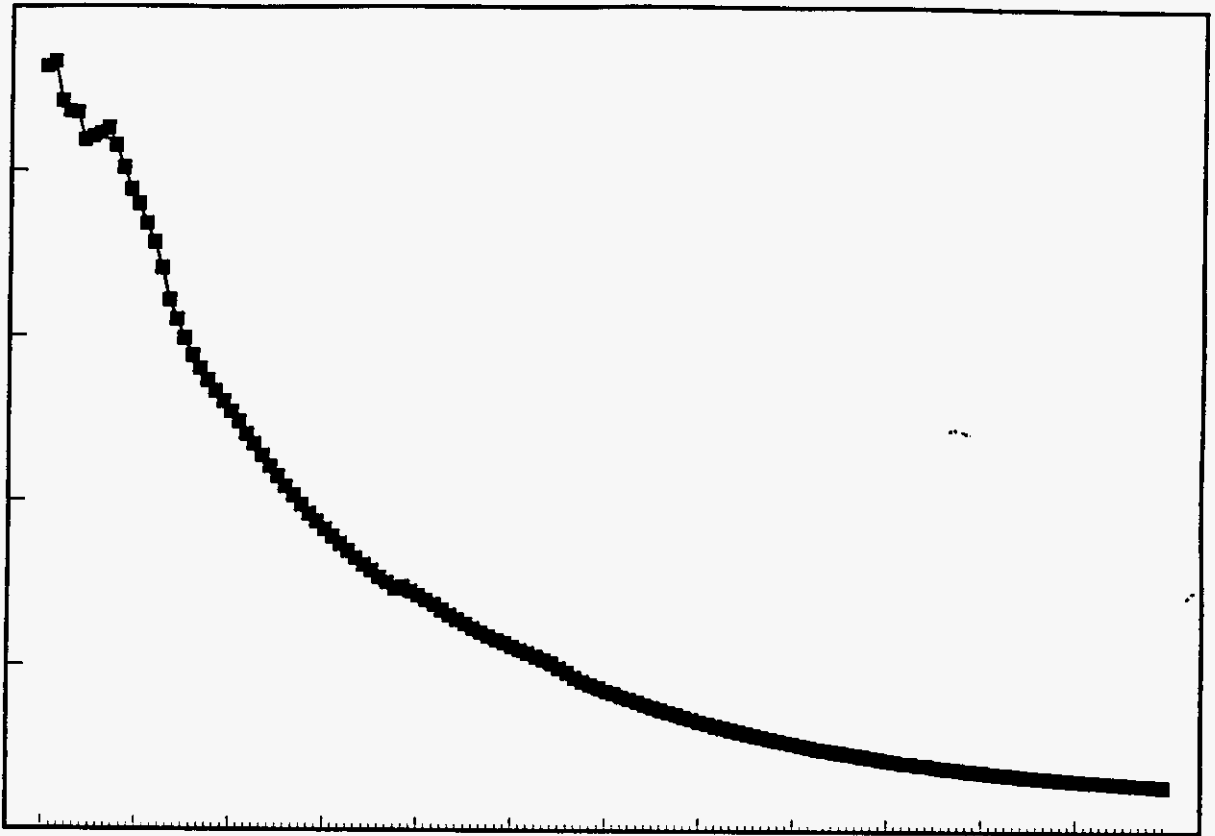
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F01B25Z

0000116

RESIDENCE + BUSINESS WMR FLORIDA

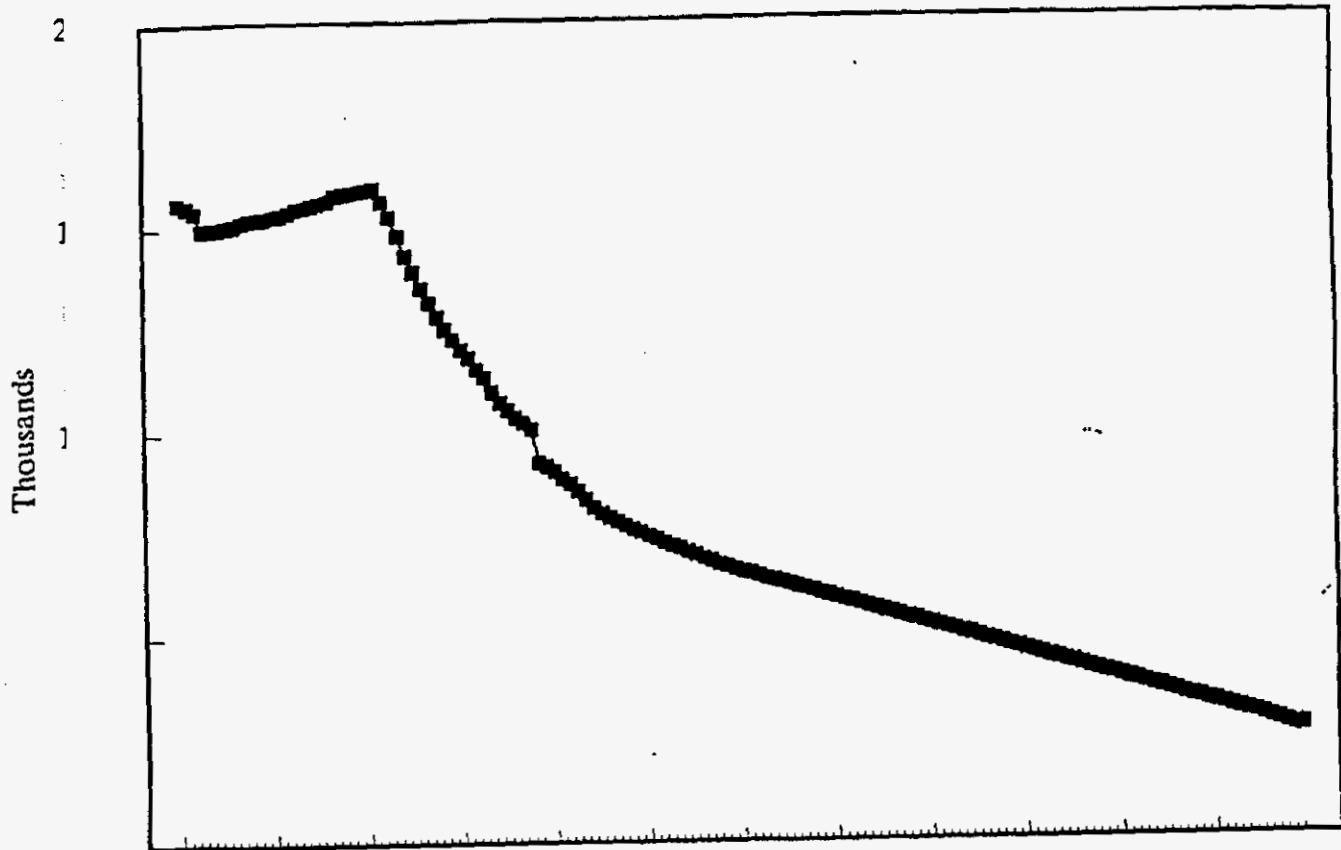
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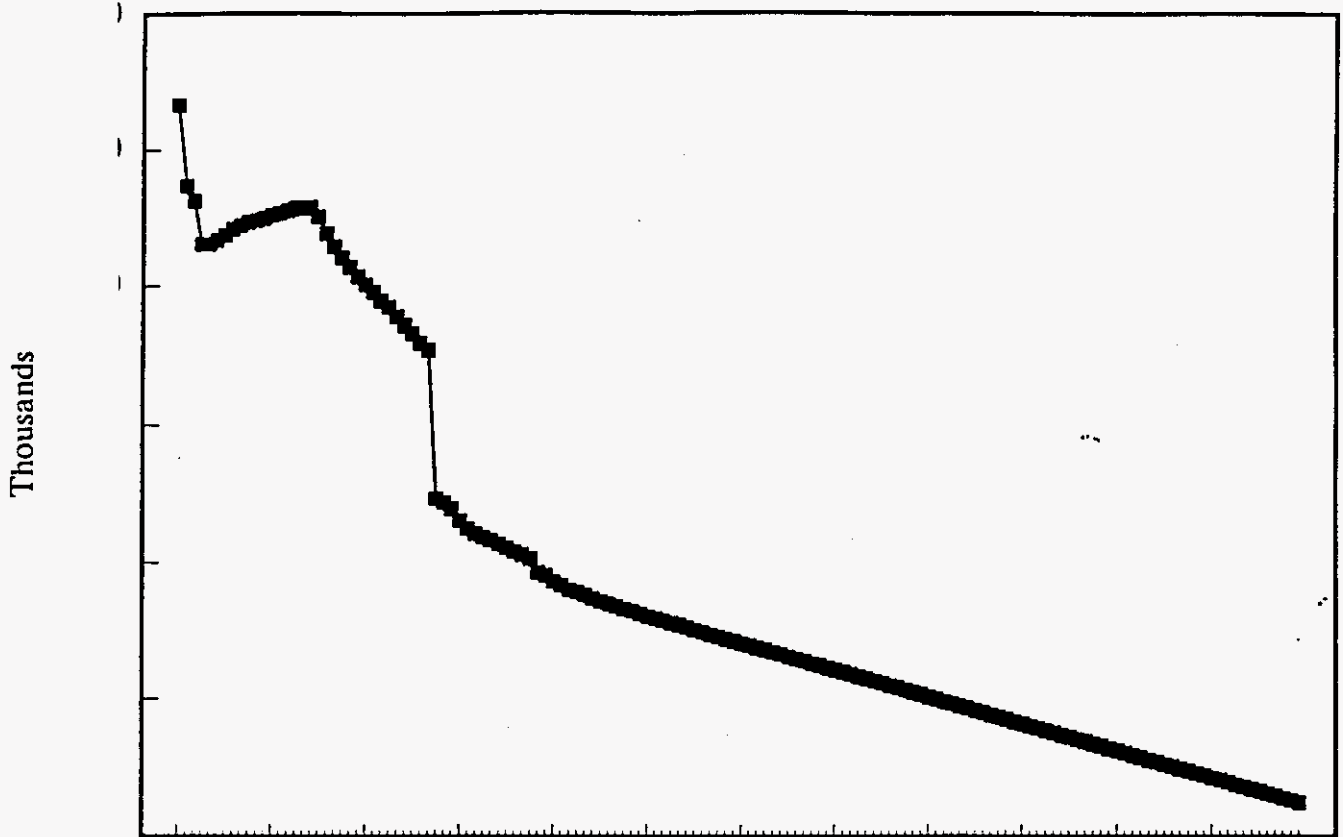


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EQ1R25Z

0000118

RESIDENCE + BUSINESS WMR NORTH CAROLINA

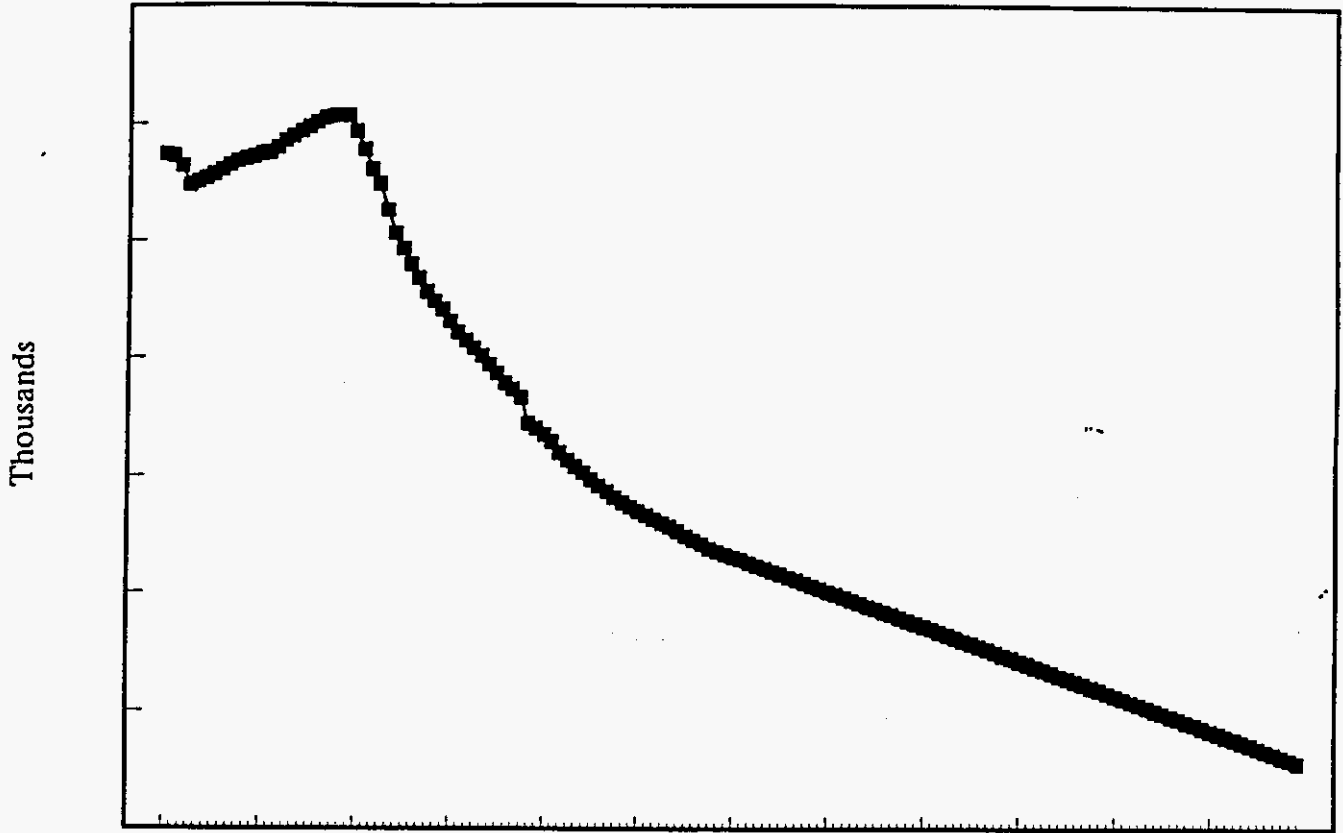


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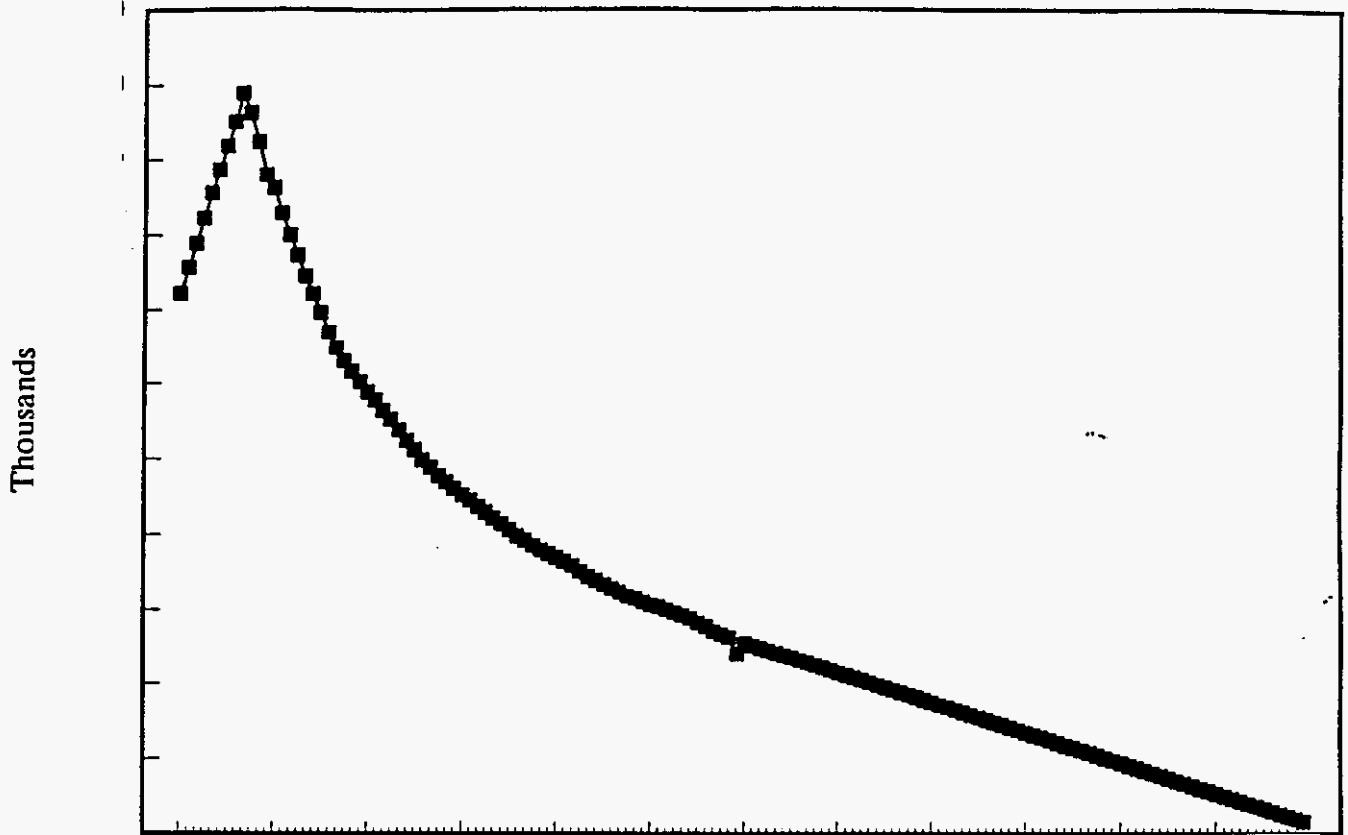
RESIDENCE + BUSINESS WMR

SOUTH CAROLINA



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RESIDENCE + BUSINESS WMQ FLORIDA

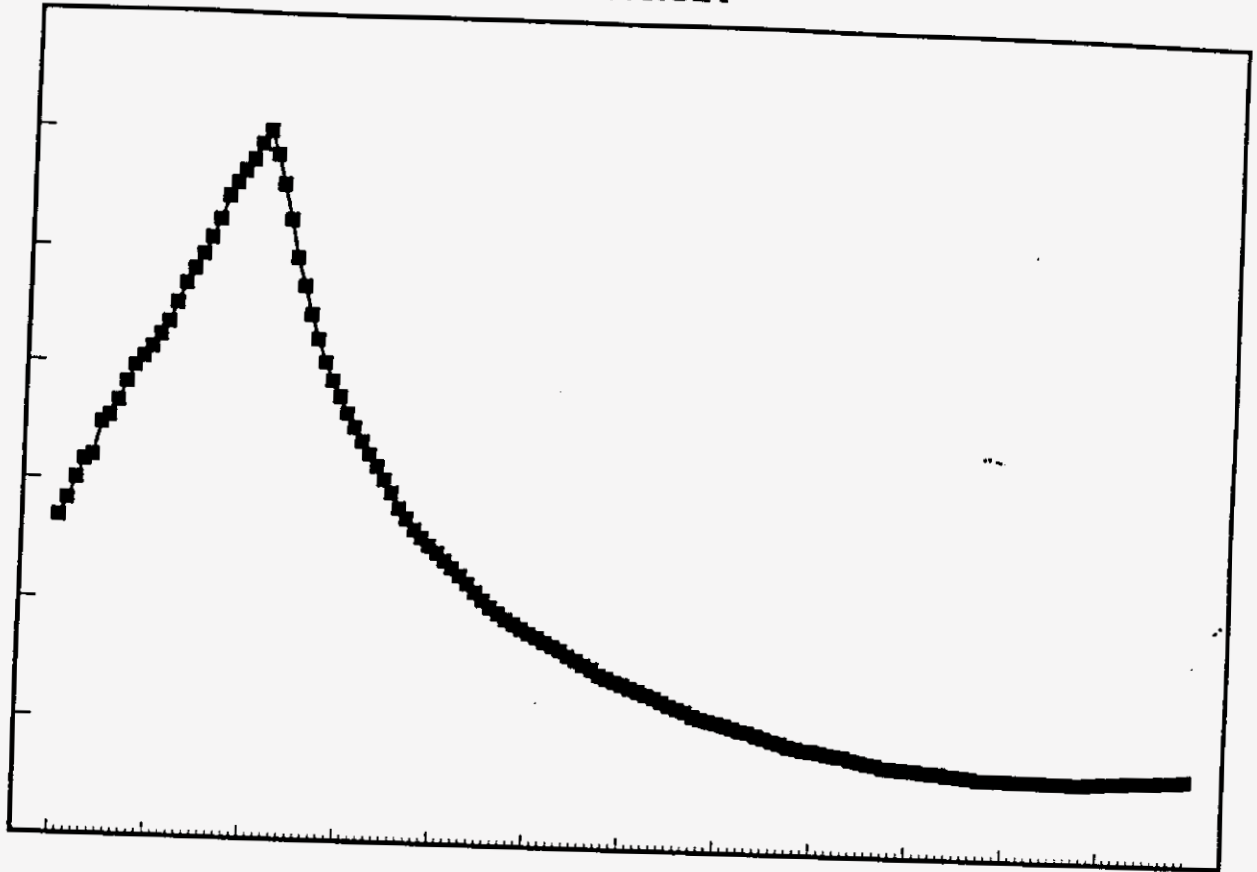


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Thousands



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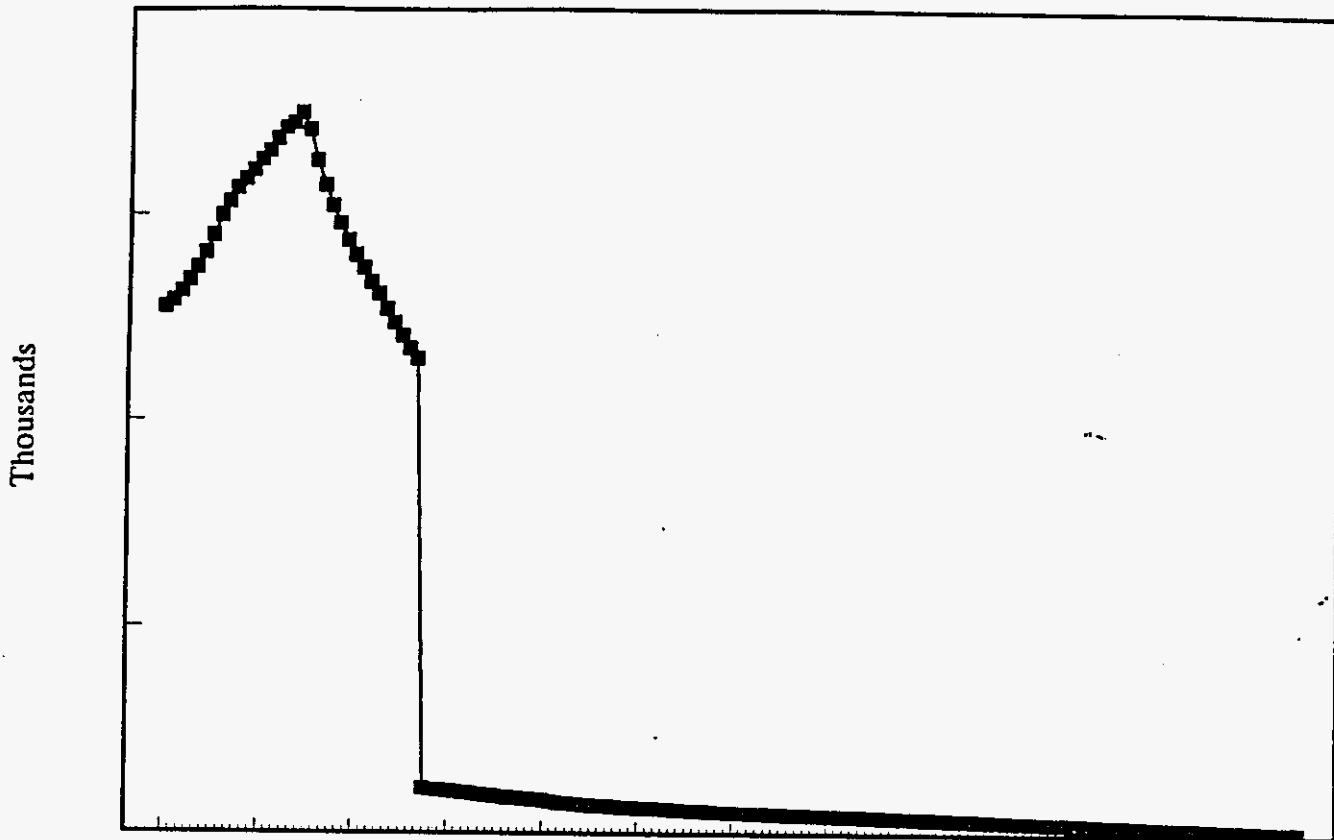
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0000122

RESIDENCE + BUSINESS WMQ

NORTH CAROLINA



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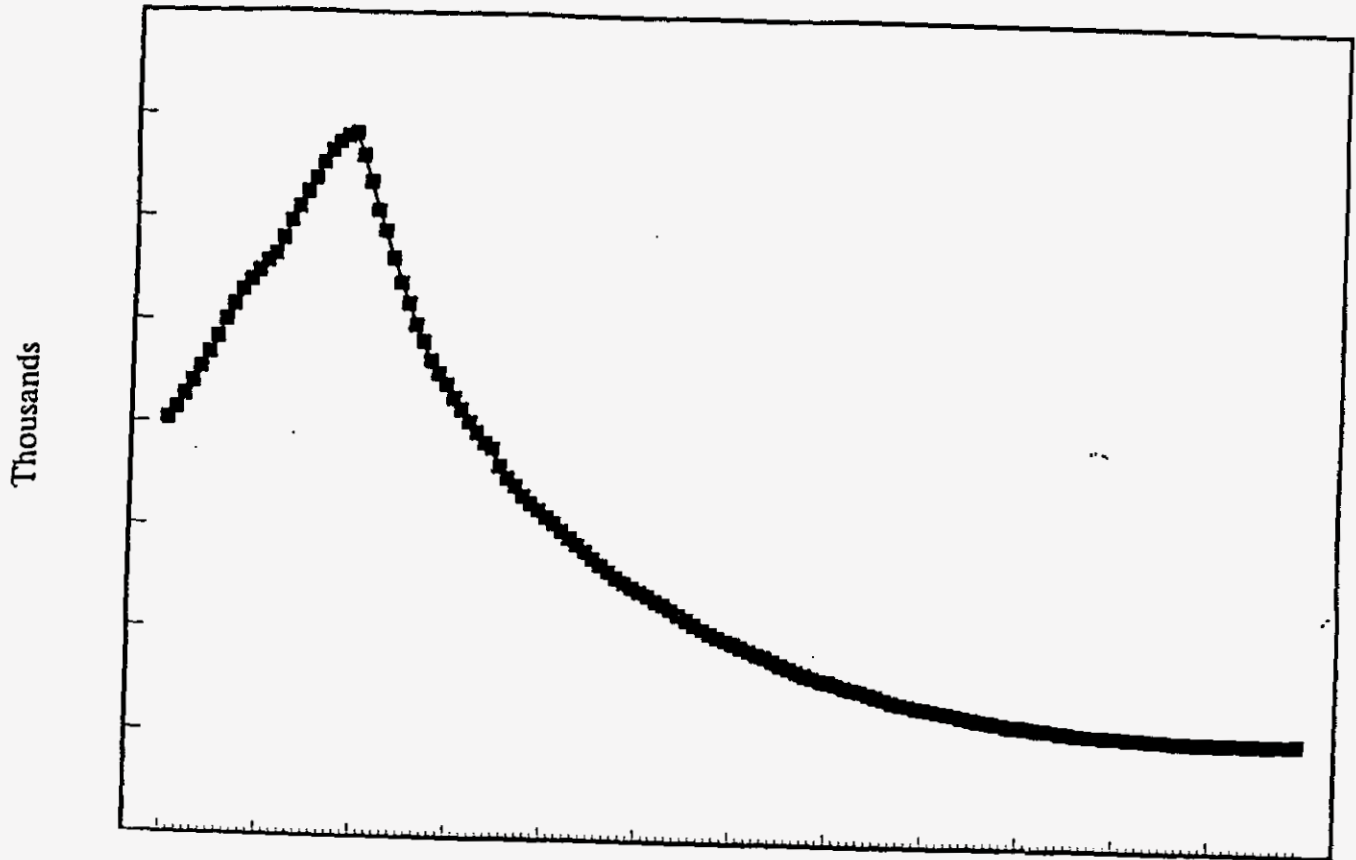
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0000123

RESIDENCE + BUSINESS WMQ

SOUTH CAROLINA



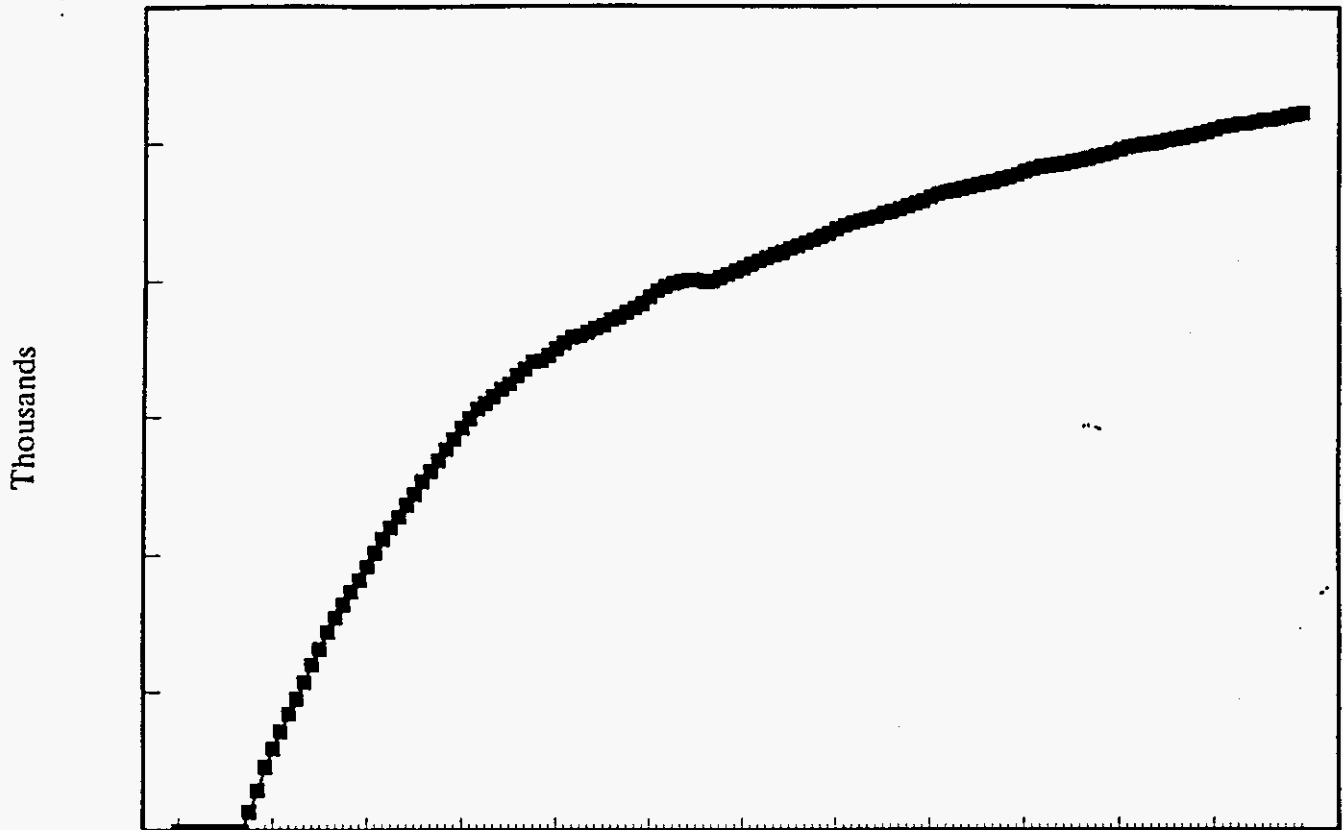
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0000124

RESIDENCE + BUSINESS SEQ1X FLORIDA

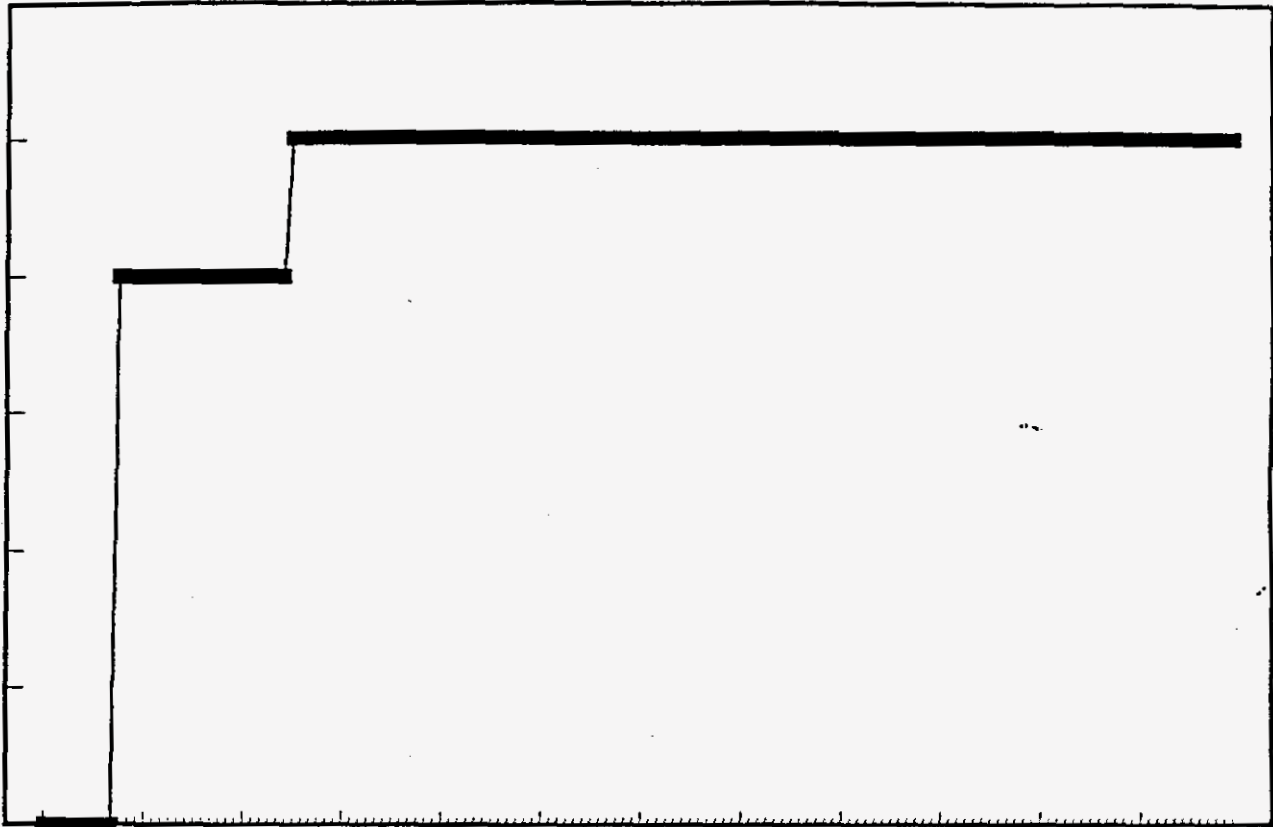


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RESIDENCE + BUSINESS SEQ1X

FLORIDA MONTHLY CHARGE



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F01R257

0000126

RESIDENCE + BUSINESS SEQ1X GEORGIA

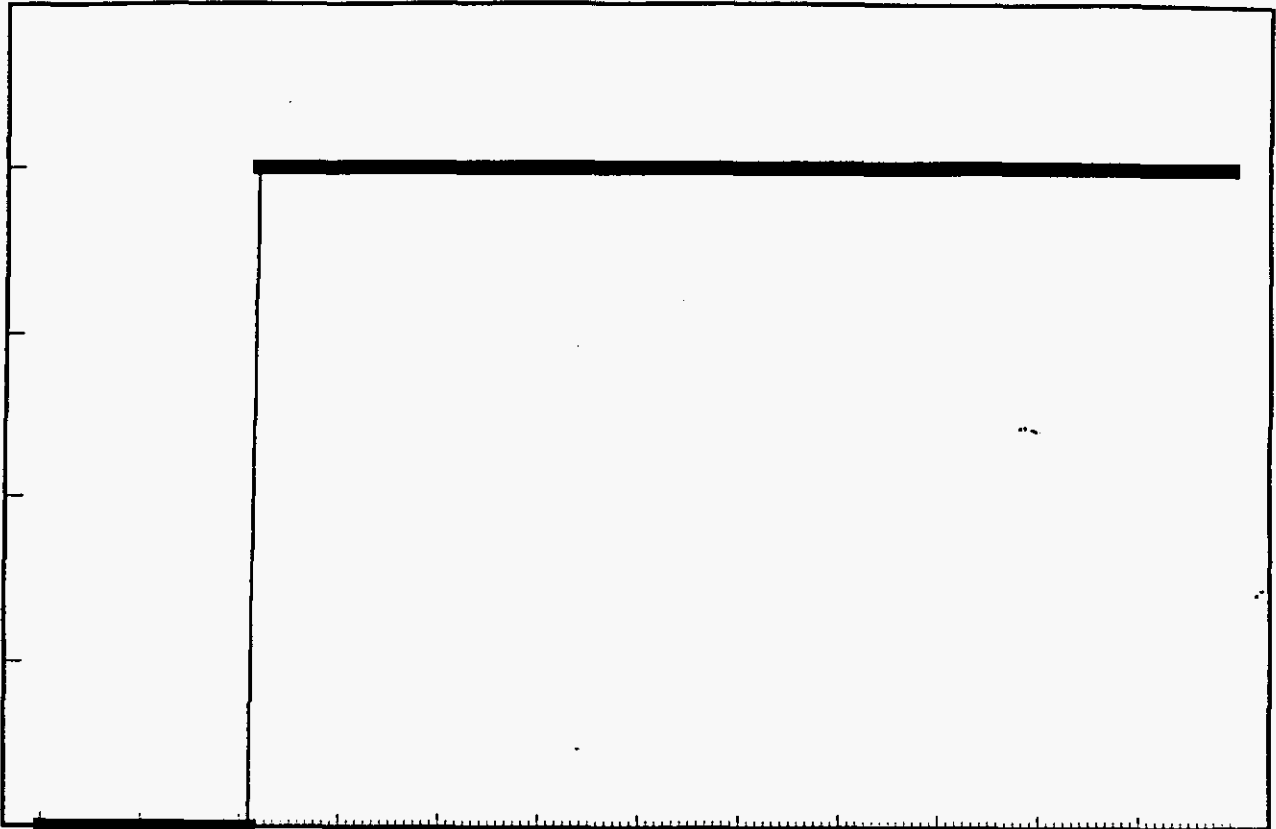


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RESIDENCE + BUSINESS SEQ1X

GEORGIA MONTHLY CHARGE



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0000128

RESIDENCE + BUSINESS SEQ1X

NORTH CAROLINA

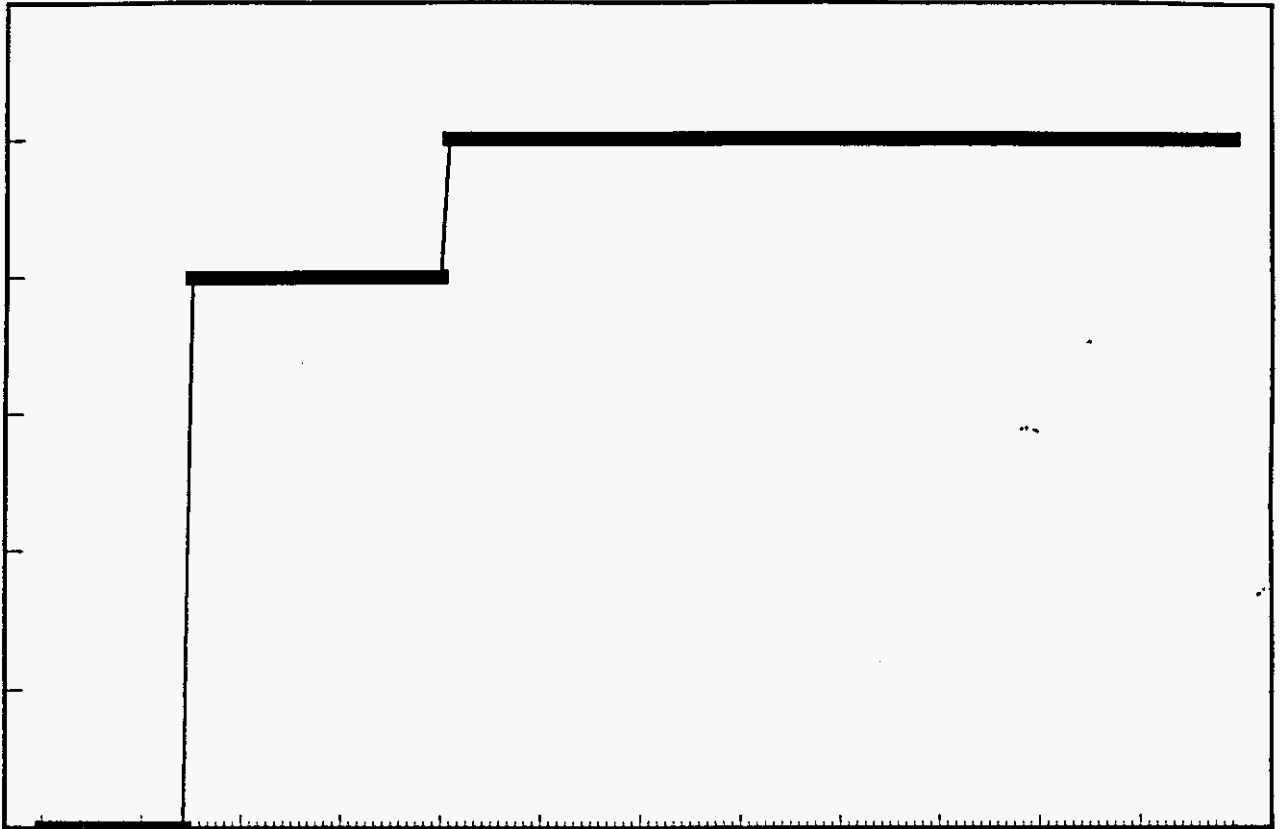


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RESIDENCE + BUSINESS SEQ1X

NORTH CAROLINA MONTHLY CHARGE

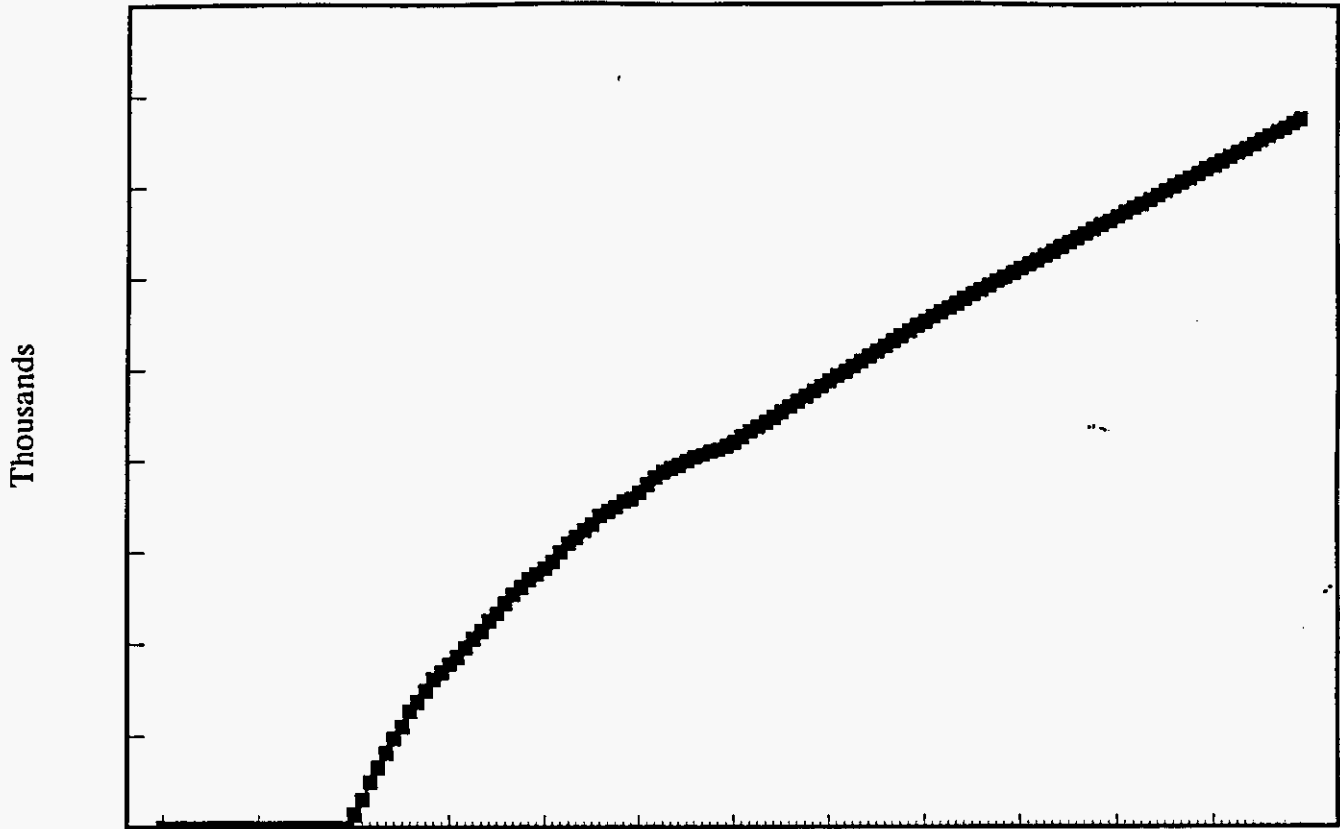


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SOUTH CAROLINA



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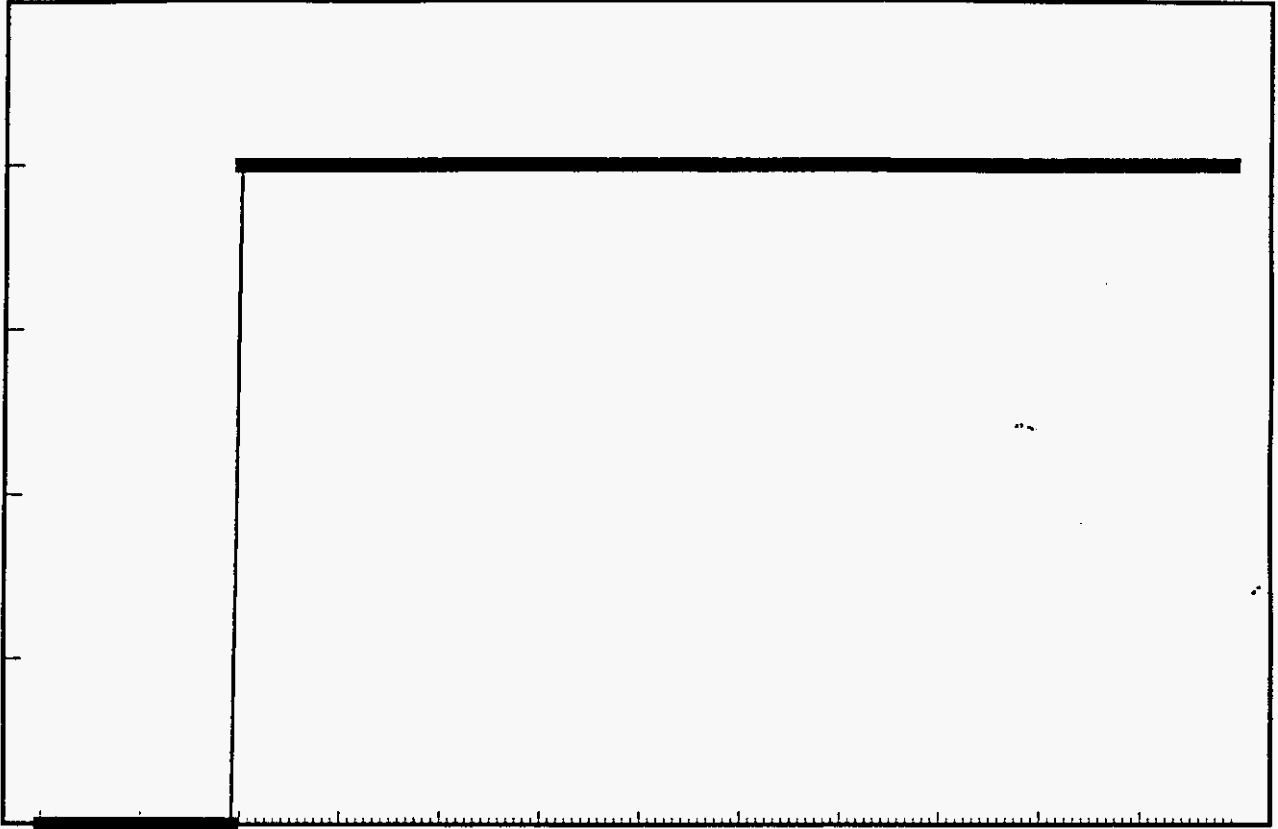
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F01B25Z

0000131

RESIDENCE + BUSINESS SEQ1X

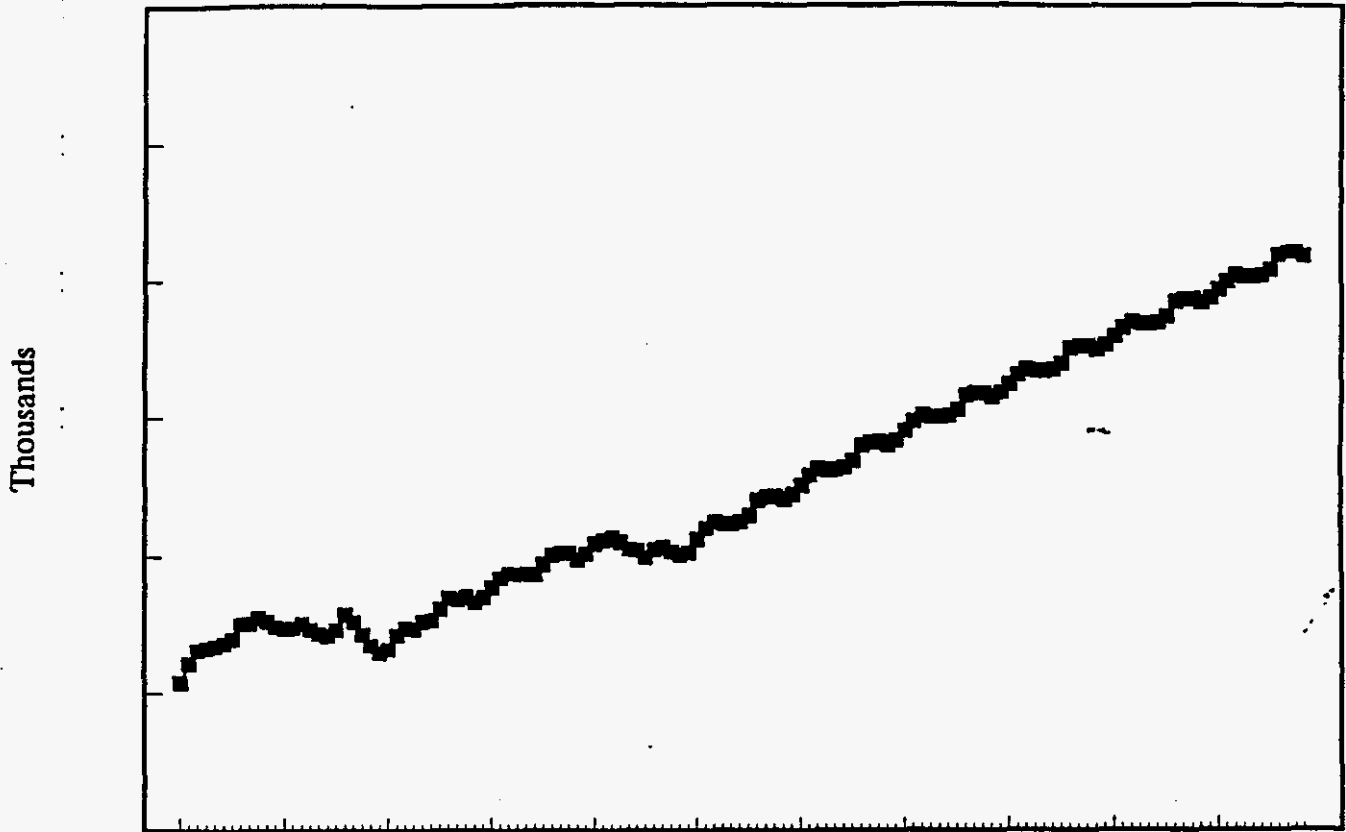
SOUTH CAROLINA MONTHLY CHARGE



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RESIDENCE SEQ1X

ALABAMA

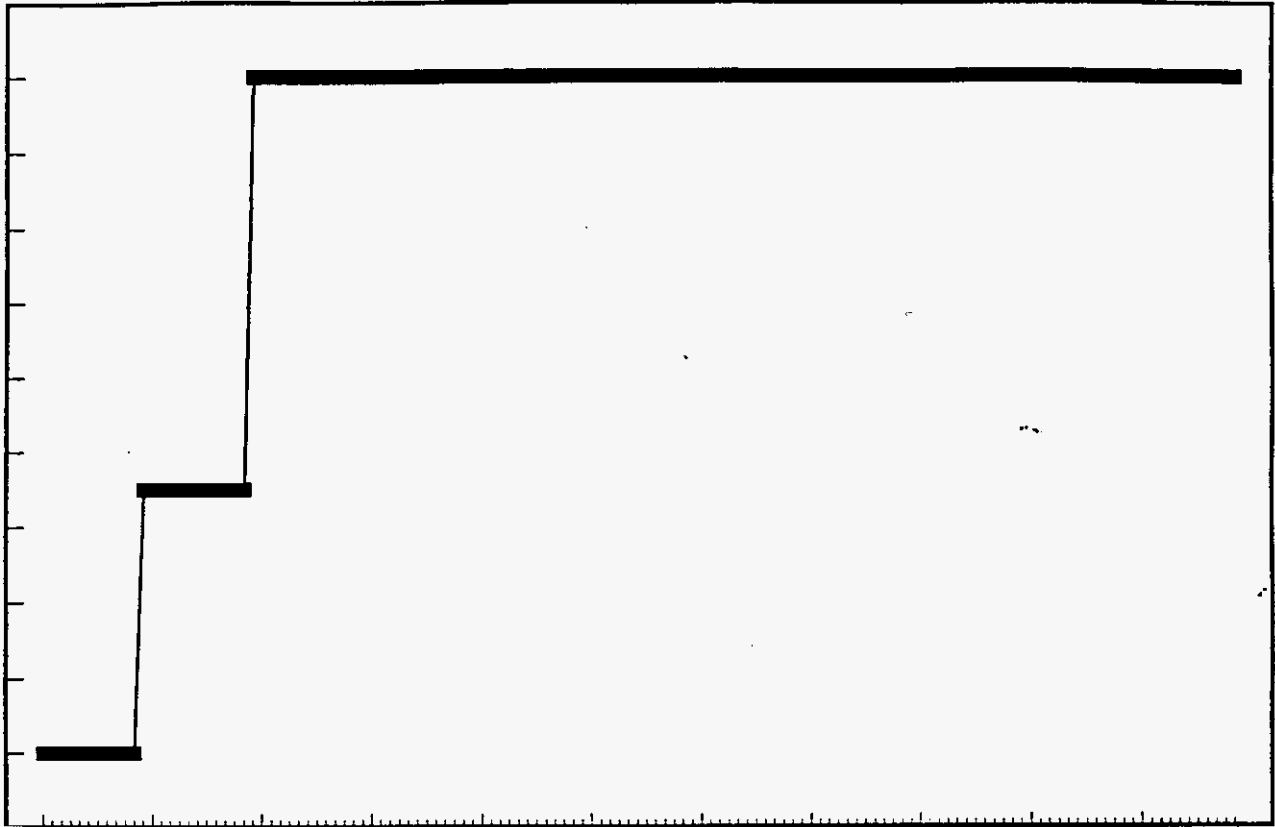


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RESIDENCE SEQ1X

ALABAMA MONTHLY CHARGE

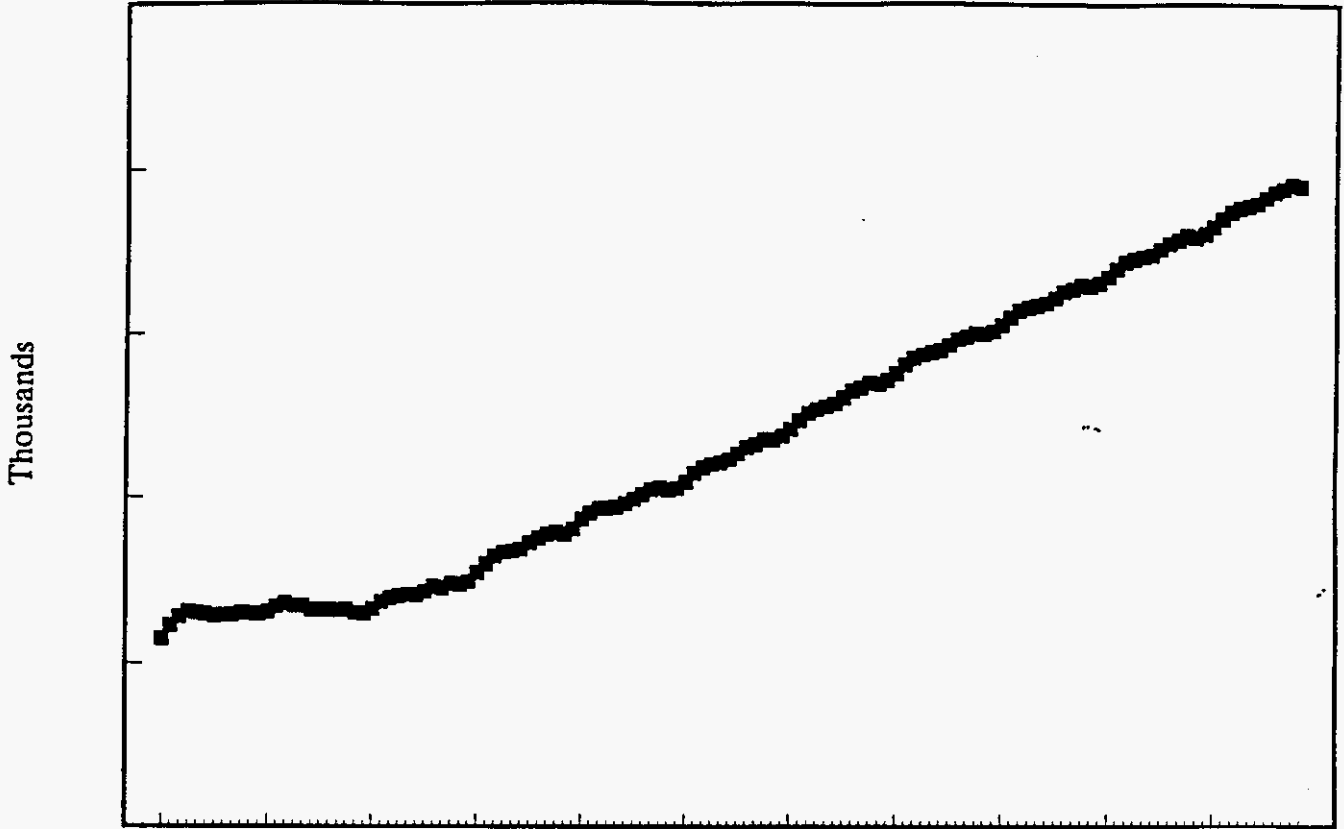


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RESIDENCE SEQ1X

KENTUCKY



PROPRIETARY

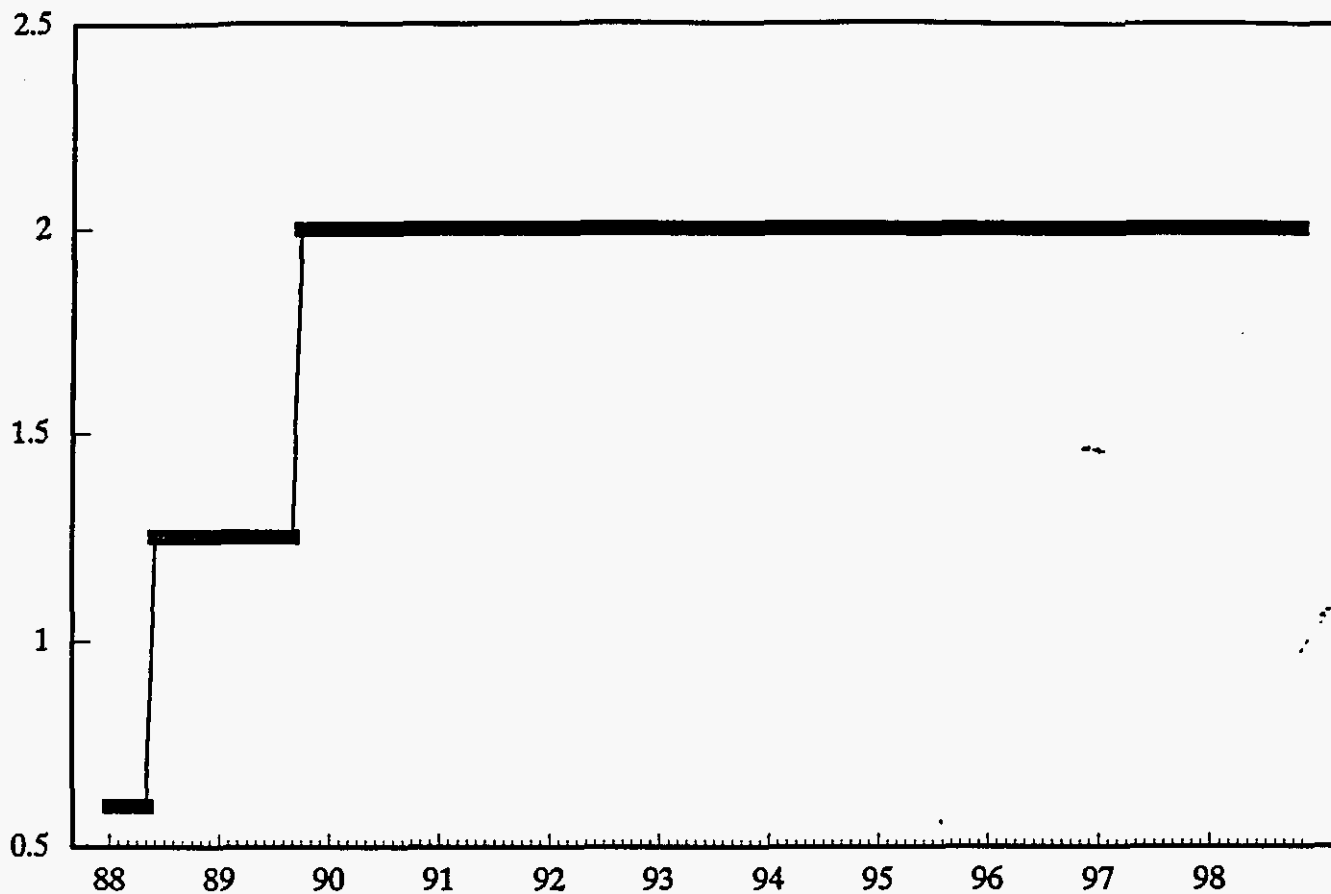
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F01B25Z

0000135

RESIDENCE SEQ1X

KENTUCKY MONTHLY CHARGE

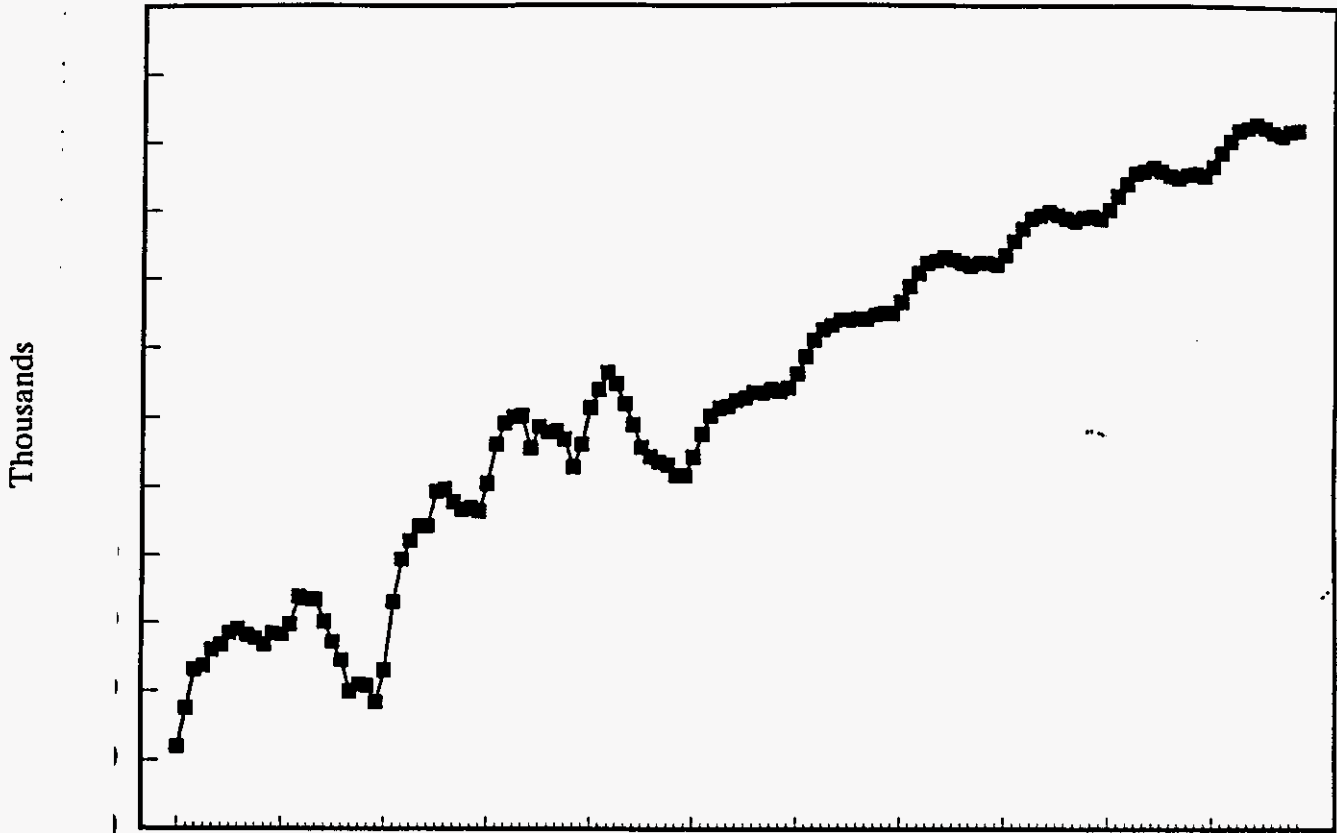


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RESIDENCE SEQ1X

LOUISIANA

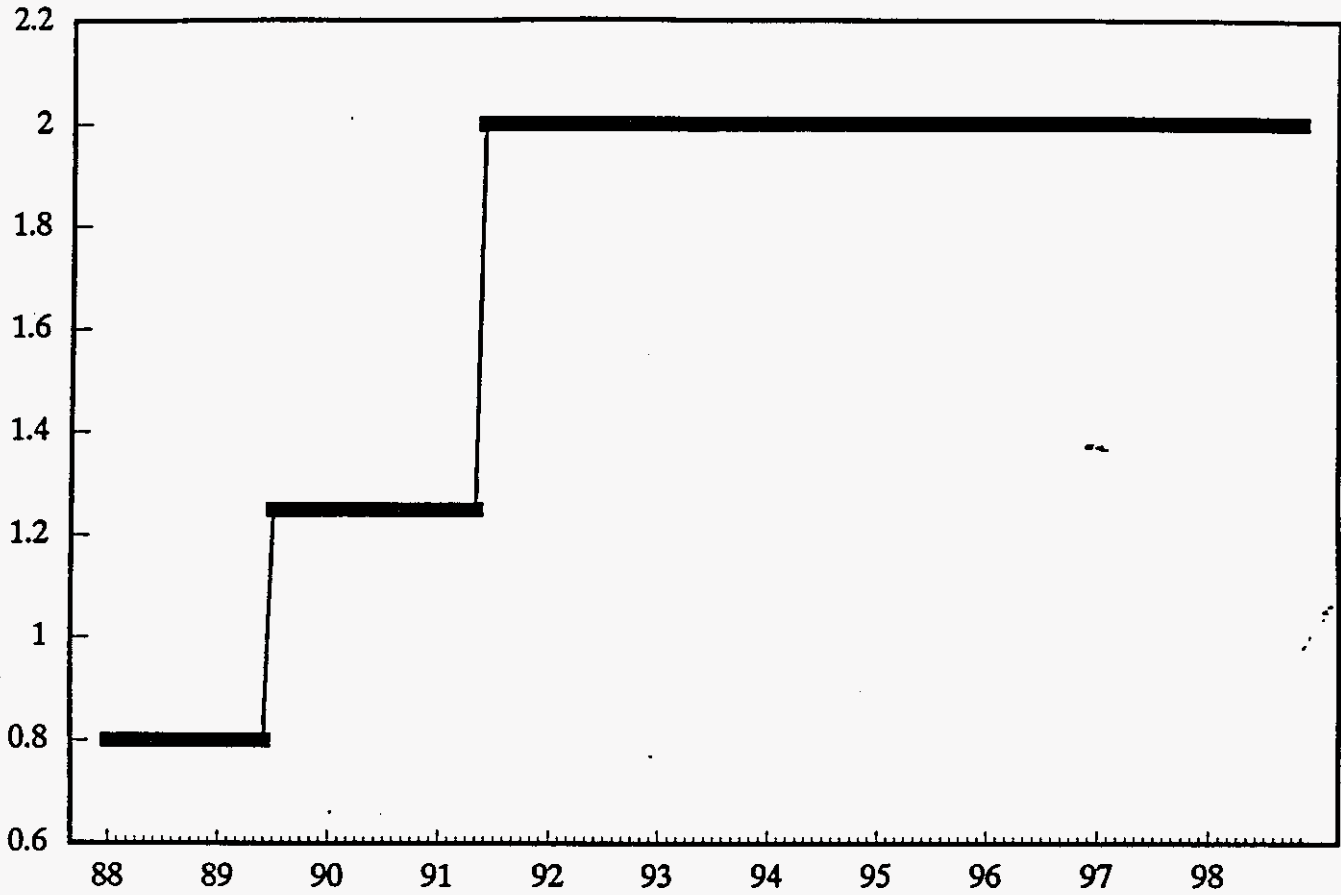


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BELL SOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

RESIDENCE SEQ1X

LOUISIANA MONTHLY CHARGE

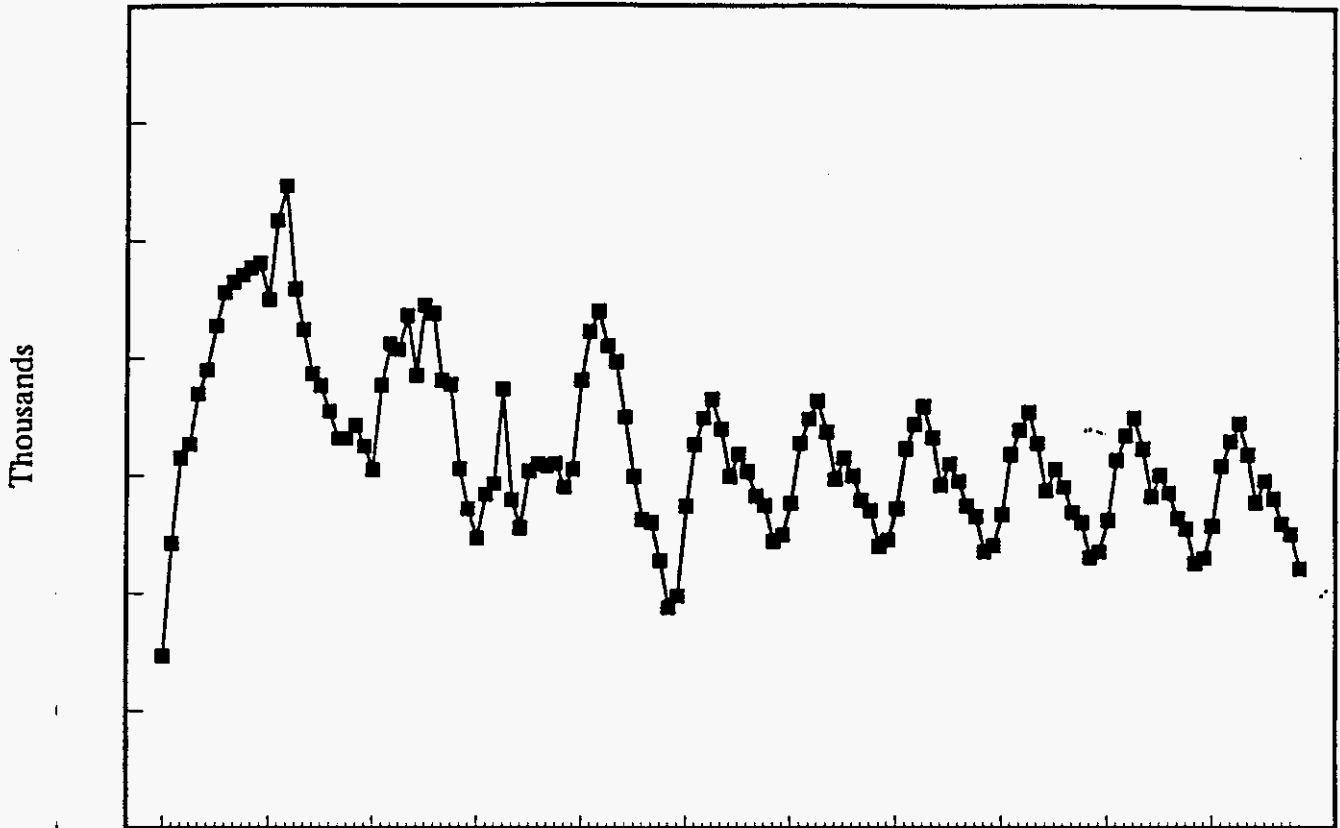


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COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

RESIDENCE SEQ1X

MISSISSIPPI

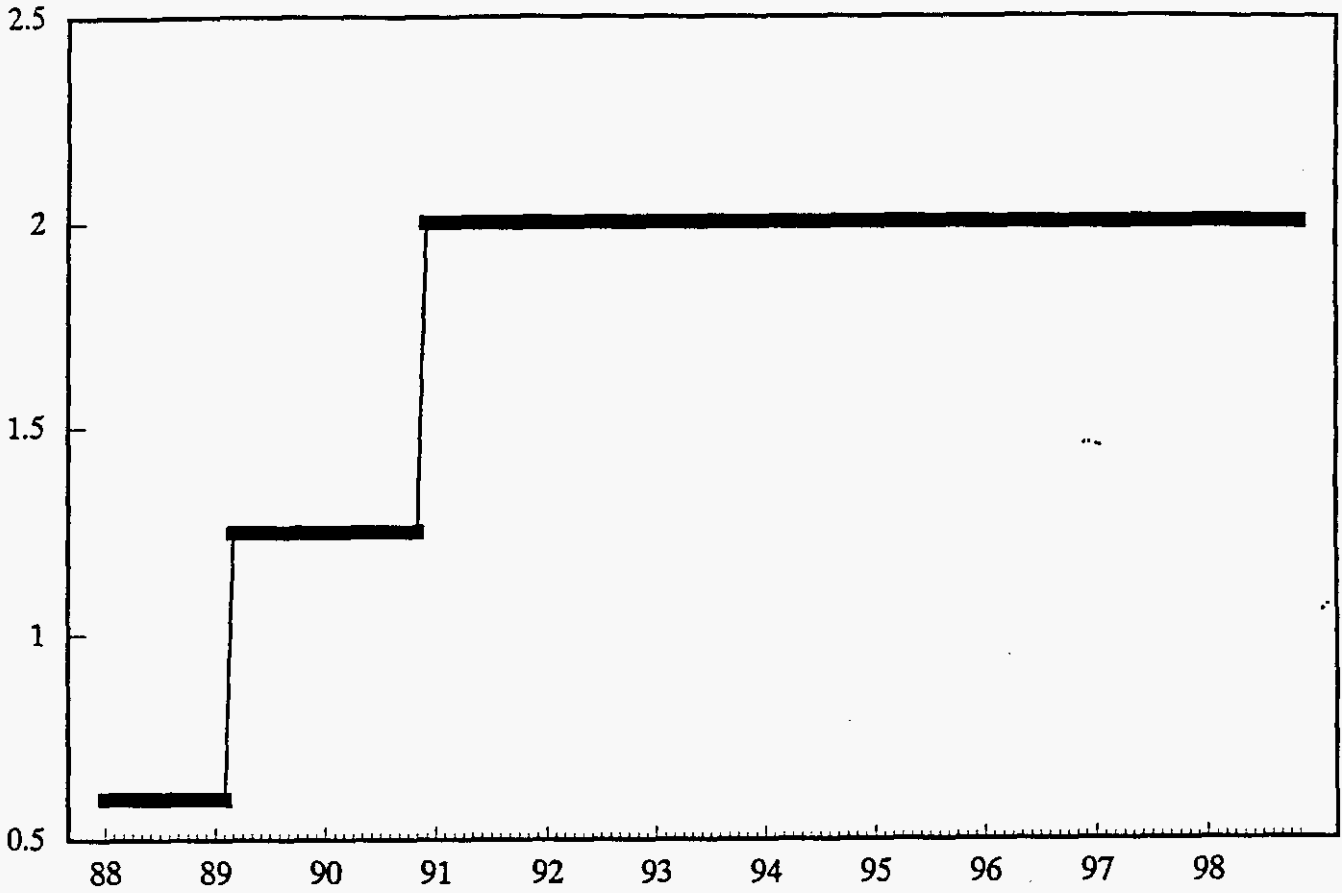


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RESIDENCE SEQ1X

MISSISSIPPI MONTHLY CHARGE

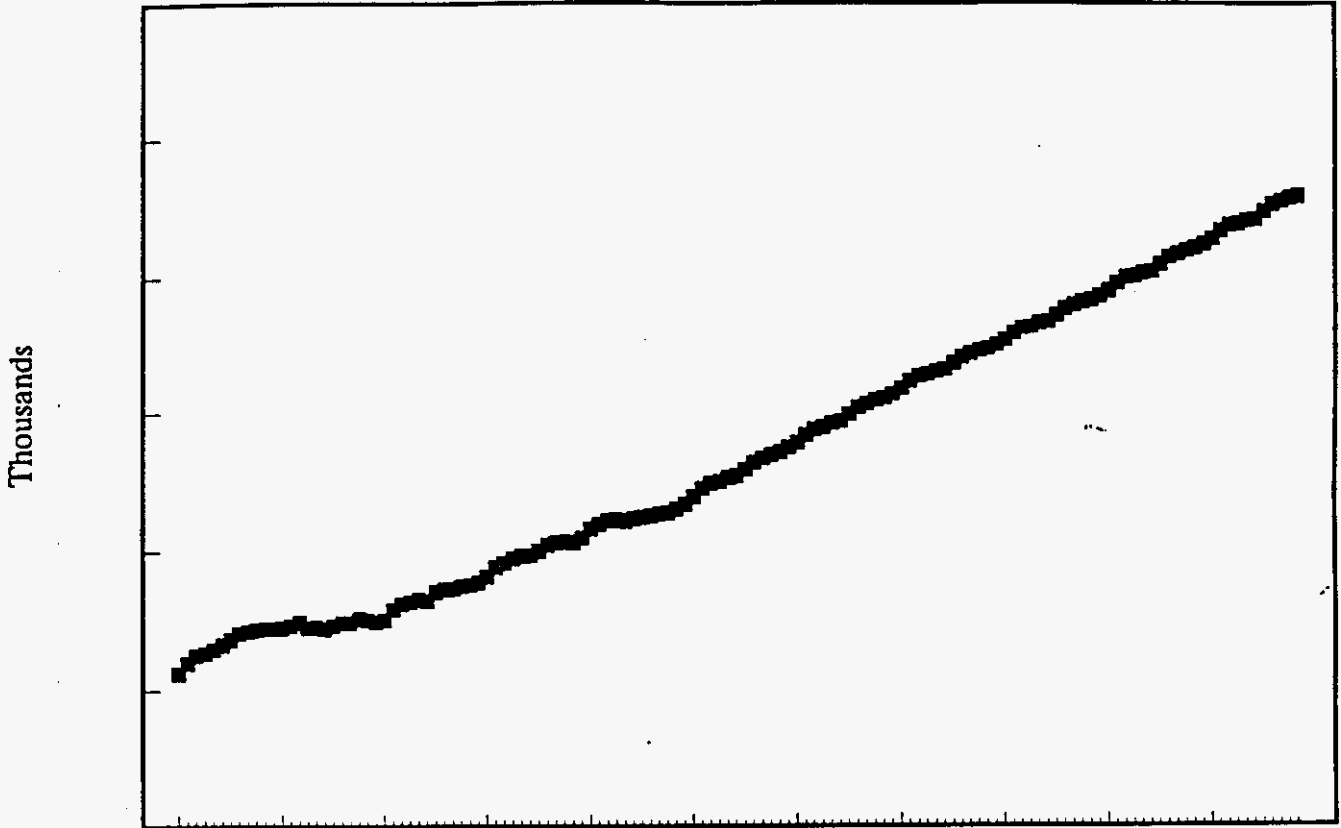


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COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

RESIDENCE SEQ1X

TENNESSEE

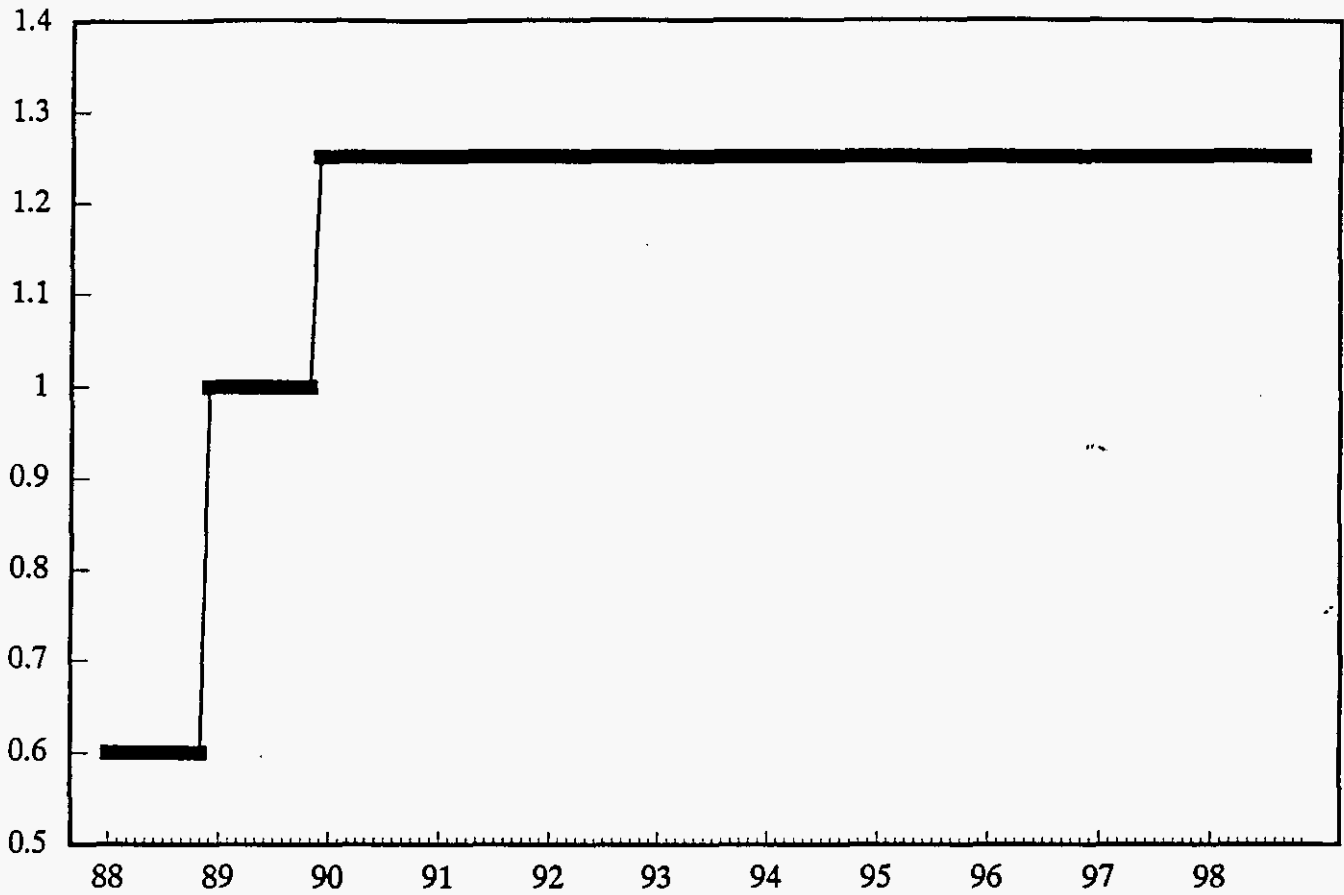


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COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

RESIDENCE SEQ1X

TENNESSEE MONTHLY CHARGE

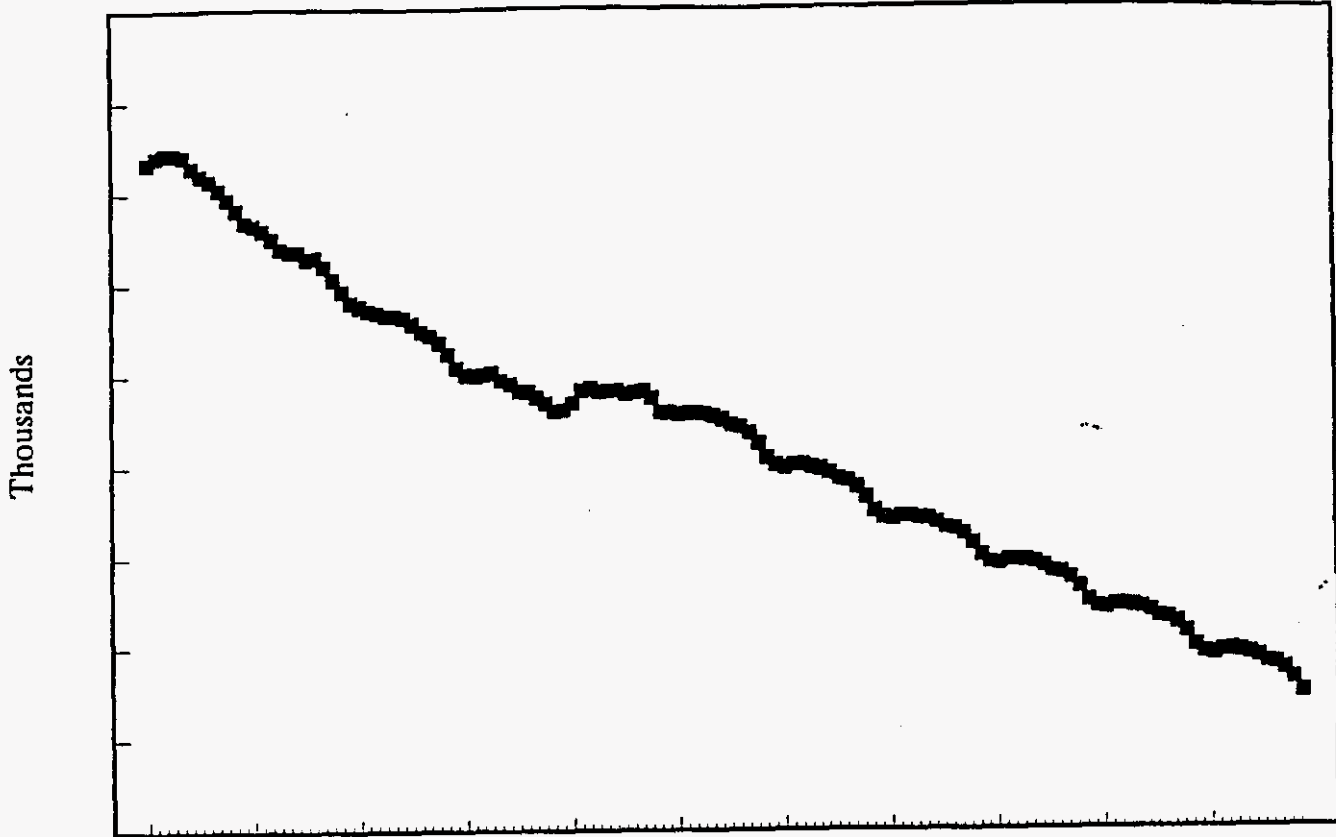


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COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

BUSINESS SEQ1X

ALABAMA



PROPRIETARY

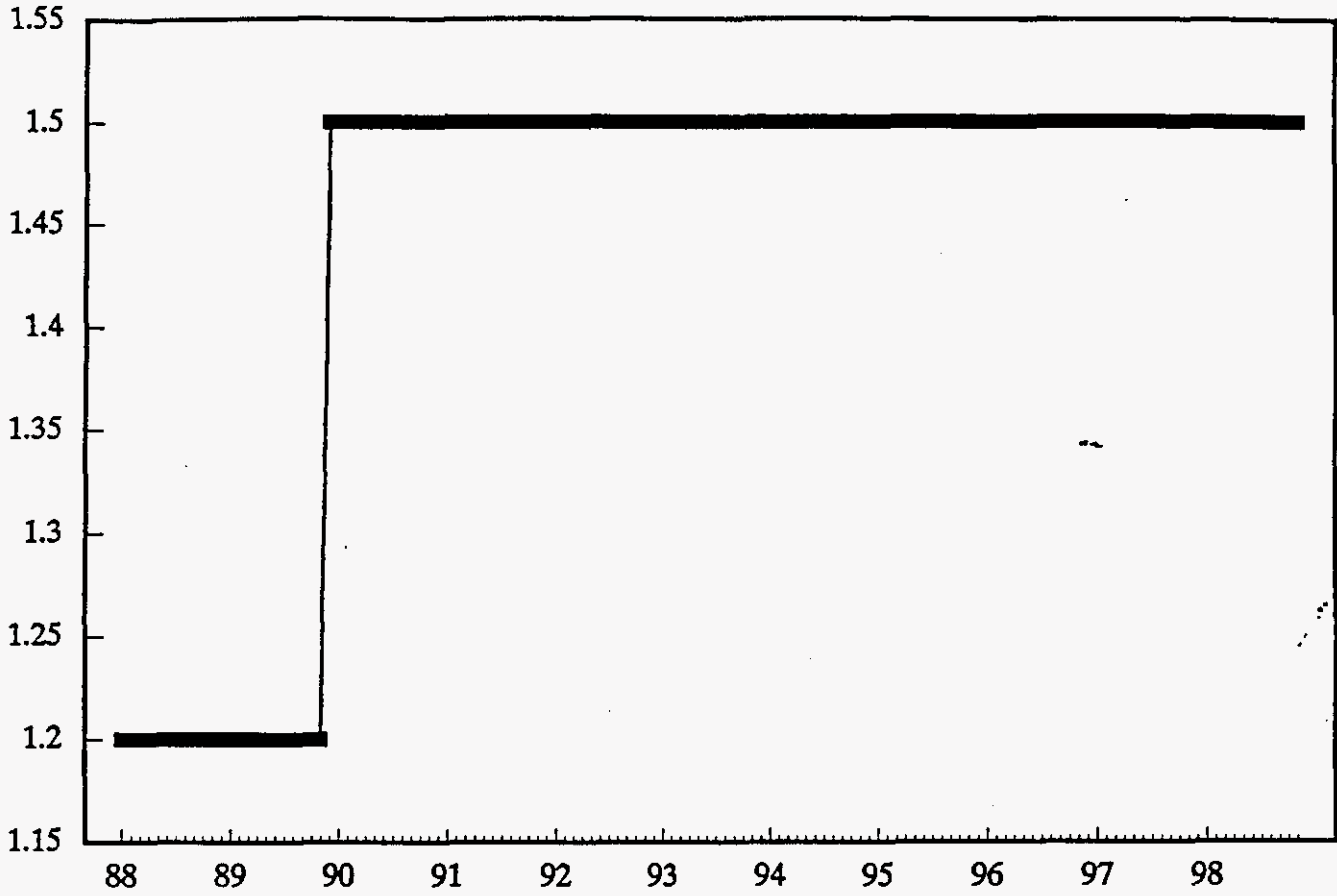
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COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

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BUSINESS SEQ1X

ALABAMA MONTHLY CHARGE

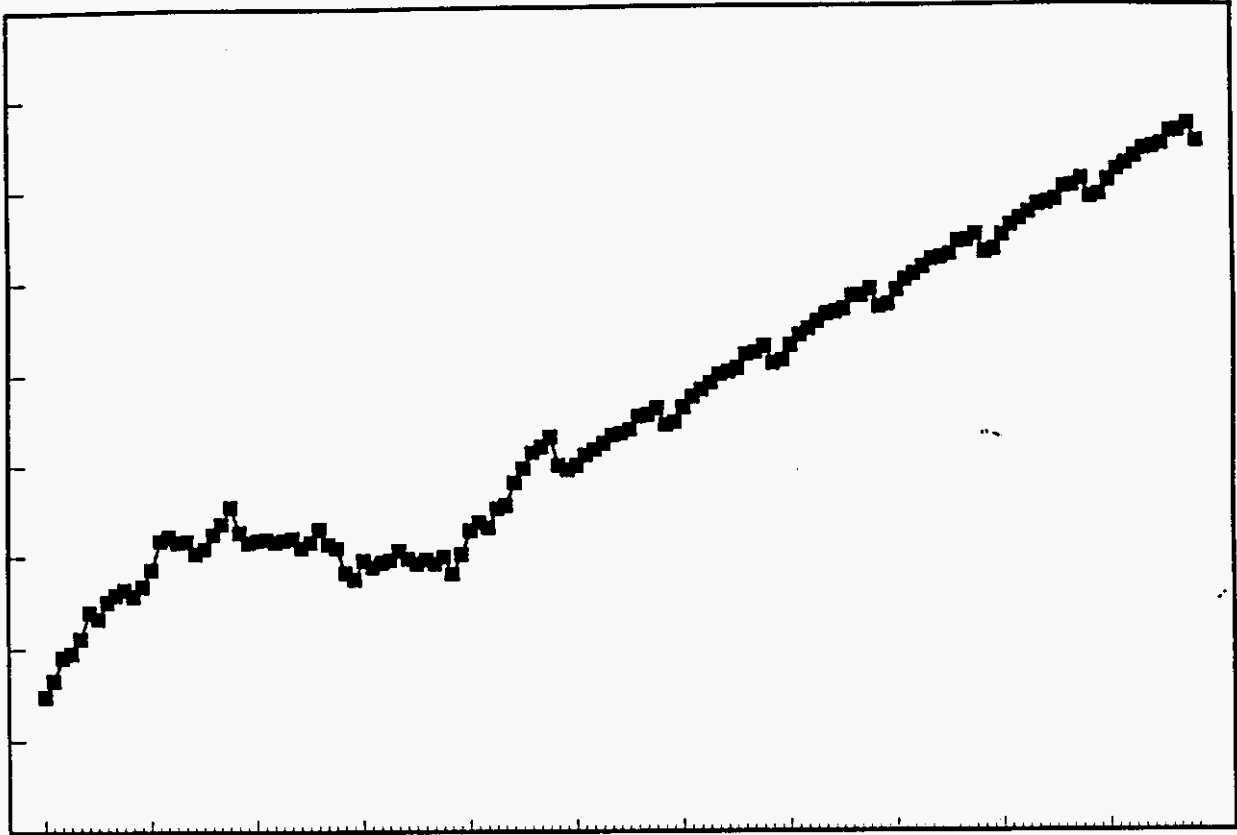


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BELLSOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

BUSINESS SEQ1X

KENTUCKY

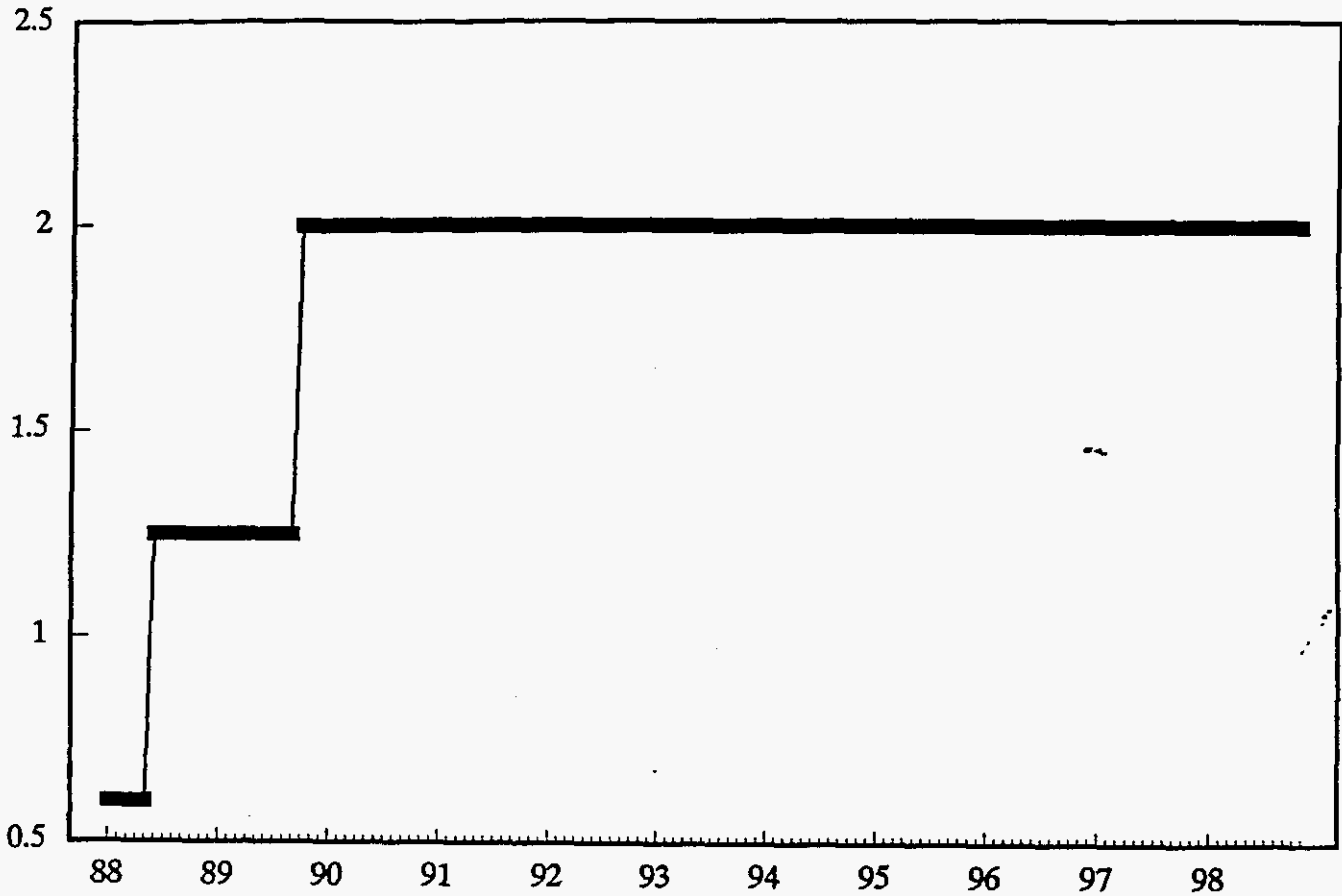


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COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

BUSINESS SEQ1X

KENTUCKY MONTHLY CHARGE

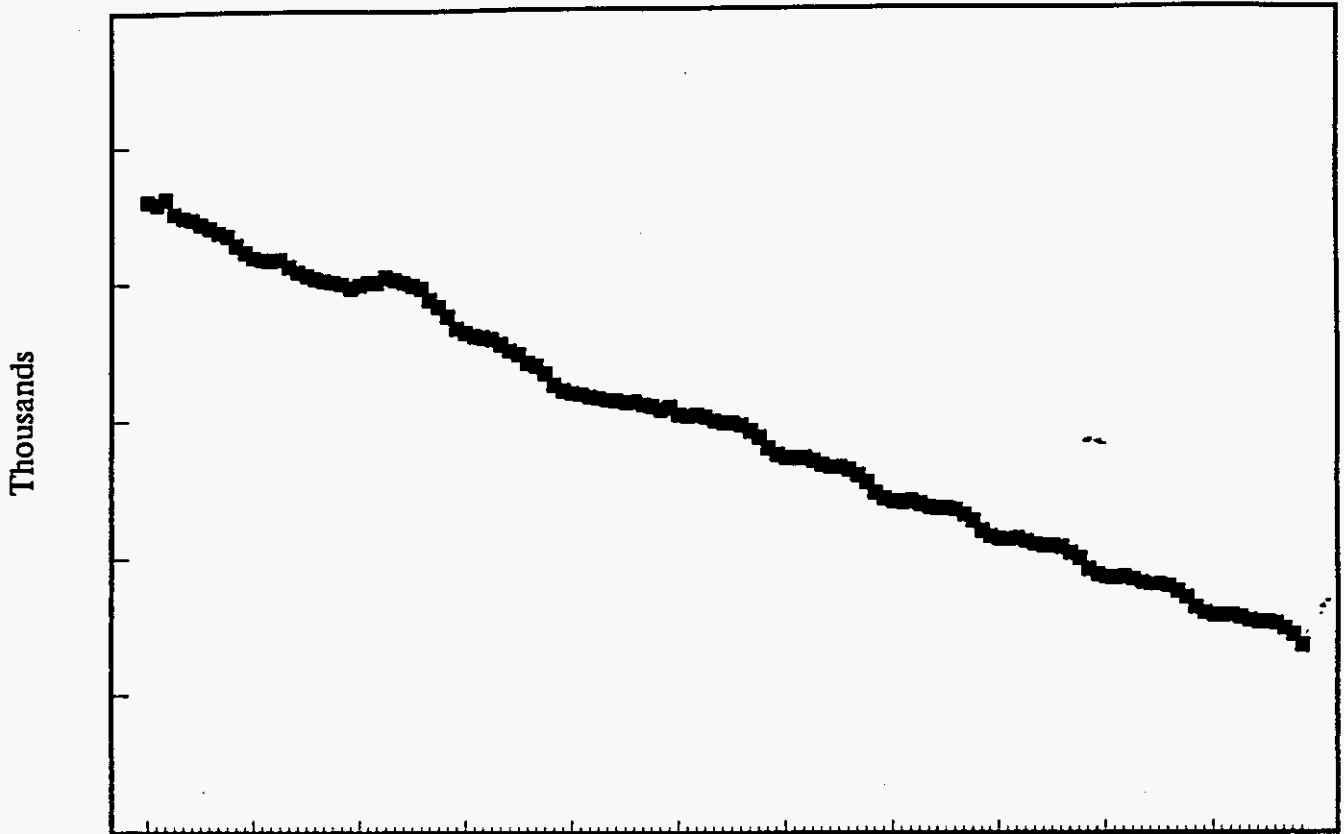


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COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

BUSINESS SEQ1X

LOUISIANA

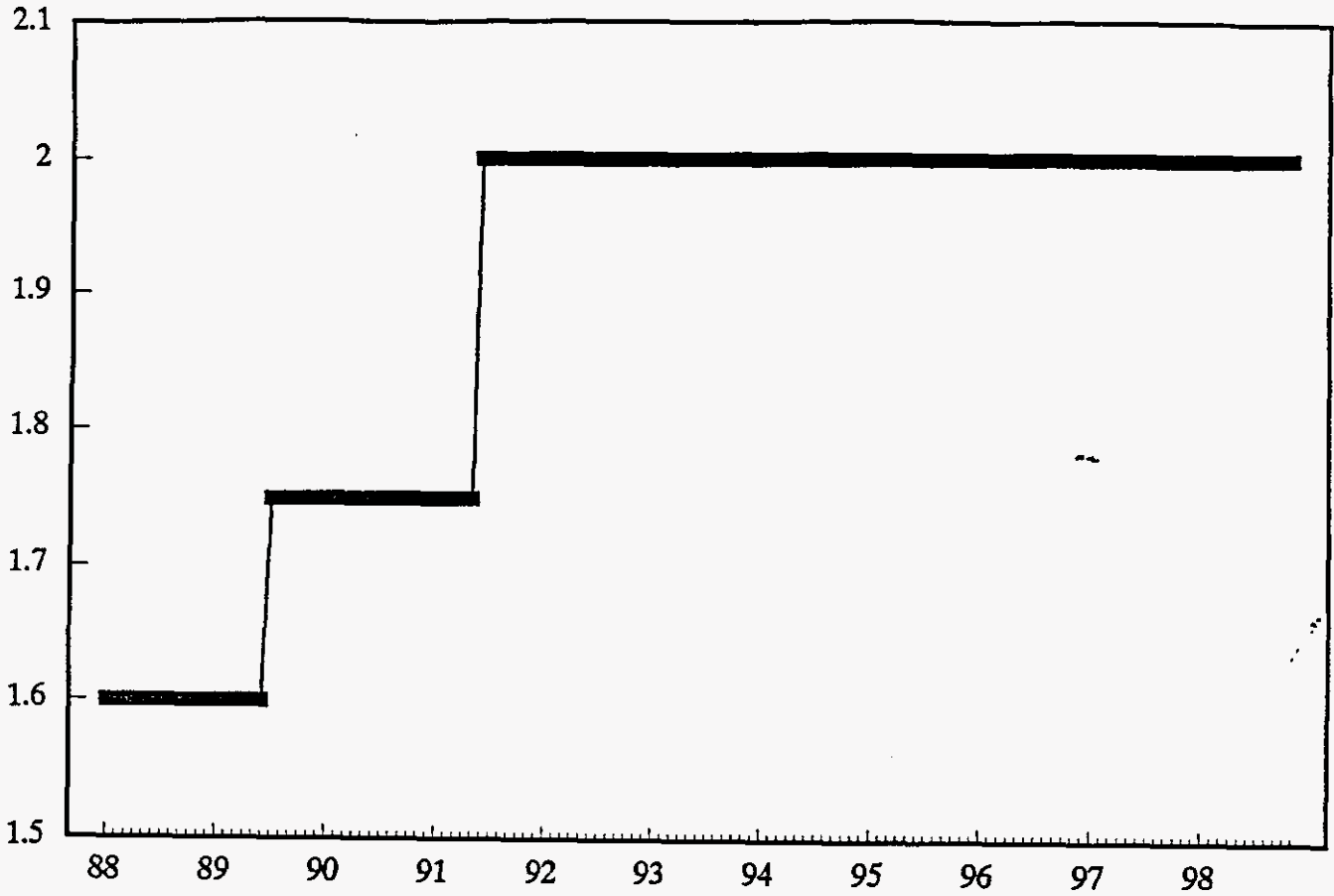


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COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

BUSINESS SEQ1X

LOUISIANA MONTHLY CHARGE

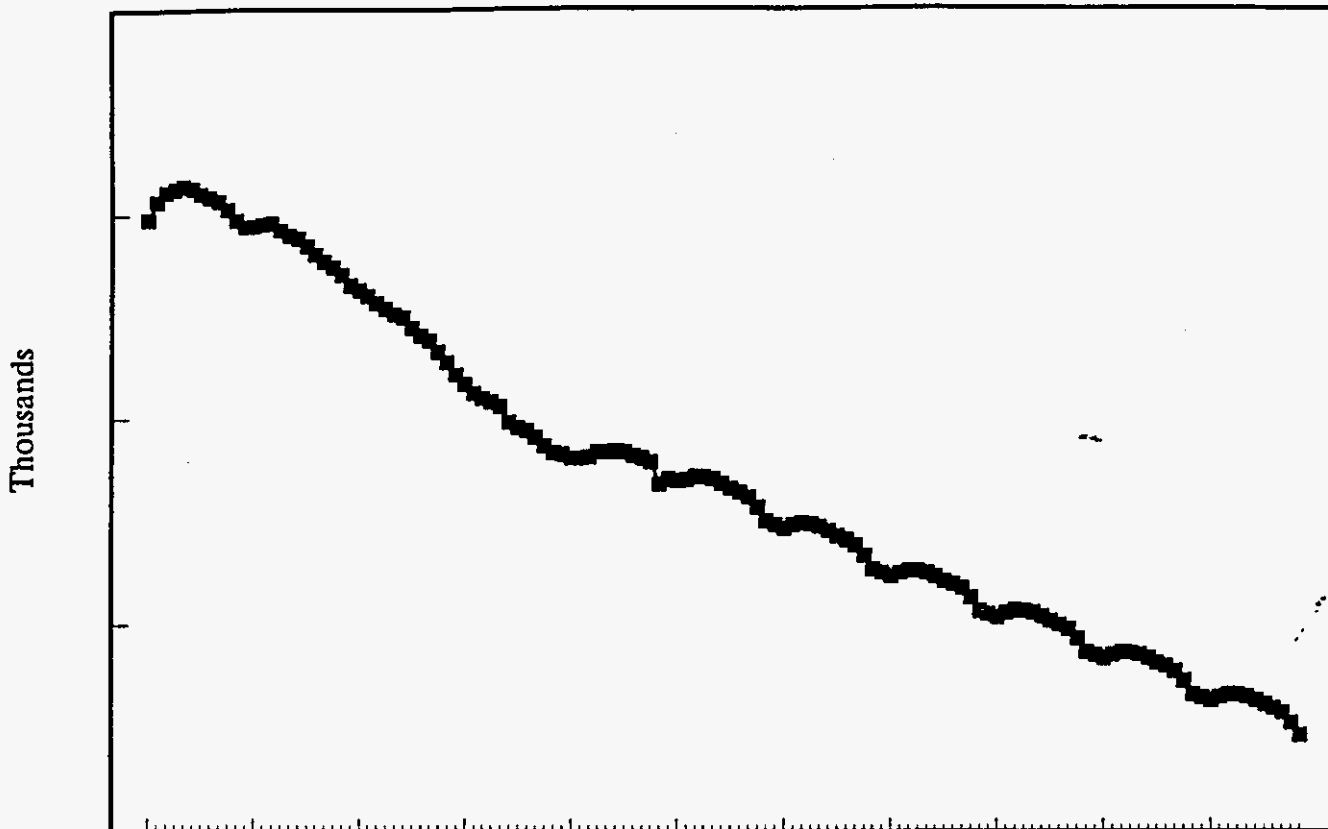


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COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

BUSINESS SEQ1X

MISSISSIPPI

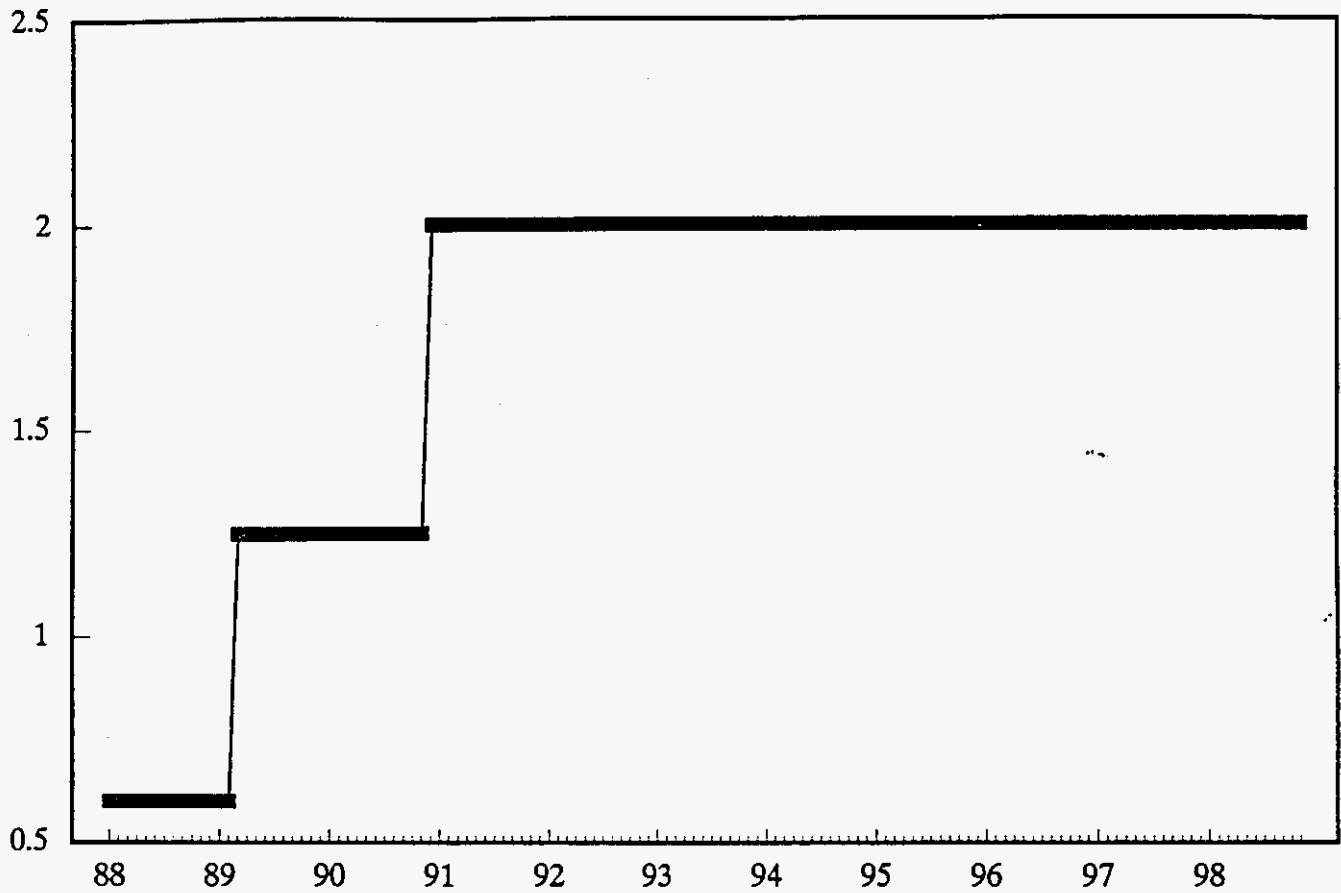


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COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

BUSINESS SEQ1X

MISSISSIPPI MONTHLY CHARGE



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COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

BUSINESS SEQ1X

TENNESSEE

Thousands



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COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

BUSINESS SEQ1X

TENNESSEE MONTHLY CHARGE



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NOT FOR USE OR DISCLOSURE OUTSIDE OF
BELLSOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

SOUTHERN BELL STATES
DATA (HISTORY THRU 2/93)

A B C D E F G H
SOUTHERN ADJUST SOUTHERN SOUTHERN PRICE
R&B R&B R&B R&B R&B RESID B-MAIN TOTAL
WMR LMR LMQ SEQ1X SEQ1X IN-SRV IN-SERV LINES

TIME	S	YR	MO	SOUTHERN R&B WMR	ADJUST R&B LMR	SOUTHERN R&B LMQ	SOUTHERN R&B SEQ1X	PRICE R&B SEQ1X	RESID IN-SRV	B-MAIN IN-SERV	TOTAL LINES
1	FL	87	1					0			
2	FL	87	2					0			
3	FL	87	3					0			
4	FL	87	4					0			
5	FL	87	5					0			
6	FL	87	6					0			
7	FL	87	7					0			
8	FL	87	8					0			
9	FL	87	9					0			
10	FL	87	10					2			
11	FL	87	11					2			
12	FL	87	12					2			
13	FL	88	1					2			
14	FL	88	2					2			
15	FL	88	3					2			
16	FL	88	4					2			
17	FL	88	5					2			
18	FL	88	6					2			
19	FL	88	7					2			
20	FL	88	8					2			
21	FL	88	9					2			
22	FL	88	10					2			
23	FL	88	11					2			
24	FL	88	12					2			
25	FL	89	1					2			
26	FL	89	2					2			
27	FL	89	3					2			
28	FL	89	4					2			
29	FL	89	5					2			
30	FL	89	6					2			
31	FL	89	7					2.5			
32	FL	89	8					2.5			
33	FL	89	9					2.5			
34	FL	89	10					2.5			
35	FL	89	11					2.5			
36	FL	89	12					2.5			
37	FL	90	1					2.5			
38	FL	90	2					2.5			
39	FL	90	3					2.5			
40	FL	90	4					2.5			
41	FL	90	5					2.5			
42	FL	90	6					2.5			
43	FL	90	7					2.5			
44	FL	90	8					2.5			
45	FL	90	9					2.5			
46	FL	90	10					2.5			
47	FL	90	11					2.5			
48	FL	90	12					2.5			
49	FL	91	1					2.5			
50	FL	91	2					2.5			
51	FL	91	3					2.5			
52	FL	91	4					2.5			
53	FL	91	5					2.5			
54	FL	91	6					2.5			
55	FL	91	7					2.5			
56	FL	91	8					2.5			
57	FL	91	9					2.5			
58	FL	91	10					2.5			

PROPRIETARY
NOT FOR USE OR DISCLOSURE OUTSIDE OF
SOUTHERN BELL TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

SOUTHERN BELL STATES
DATA (HISTORY THRU 2/93)

TIME	S	YR	MO	A	B	C	D	E	F	G	H
				SOUTHERN R&B LMR	ADJUST R&B LMR	SOUTHERN R&B LMG	SOUTHERN R&B SEQ1X	PRICE R&B SEQ1X	RESID IN-SRV	B-MAIN IN-SERV	TOTAL LINES
59	FL	91	11					2.5			
60	FL	91	12					2.5			
61	FL	92	1					2.5			
62	FL	92	2					2.5			
63	FL	92	3					2.5			
64	FL	92	4					2.5			
65	FL	92	5					2.5			
66	FL	92	6					2.5			
67	FL	92	7					2.5			
68	FL	92	8					2.5			
69	FL	92	9					2.5			
70	FL	92	10					2.5			
71	FL	92	11					2.5			
72	FL	92	12					2.5			
73	FL	93	1					2.5			
74	FL	93	2					2.5			
75	FL	93	3					2.5			
76	FL	93	4					2.5			
77	FL	93	5					2.5			
78	FL	93	6					2.5			
79	FL	93	7					2.5			
80	FL	93	8					2.5			
81	FL	93	9					2.5			
82	FL	93	10					2.5			
83	FL	93	11					2.5			
84	FL	93	12					2.5			
85	FL	94	1					2.5			
86	FL	94	2					2.5			
87	FL	94	3					2.5			
88	FL	94	4					2.5			
89	FL	94	5					2.5			
90	FL	94	6					2.5			
91	FL	94	7					2.5			
92	FL	94	8					2.5			
93	FL	94	9					2.5			
94	FL	94	10					2.5			
95	FL	94	11					2.5			
96	FL	94	12					2.5			
97	FL	95	1					2.5			
98	FL	95	2					2.5			
99	FL	95	3					2.5			
100	FL	95	4					2.5			
101	FL	95	5					2.5			
102	FL	95	6					2.5			
103	FL	95	7					2.5			
104	FL	95	8					2.5			
105	FL	95	9					2.5			
106	FL	95	10					2.5			
107	FL	95	11					2.5			
108	FL	95	12					2.5			
109	FL	96	1					2.5			
110	FL	96	2					2.5			
111	FL	96	3					2.5			
112	FL	96	4					2.5			
113	FL	96	5					2.5			
114	FL	96	6					2.5			
115	FL	96	7					2.5			
116	FL	96	8					2.5			

073300 073300

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PROPRIETARY

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SOUTHERN BELL TELECOMMUNICATIONS OR ITS RELATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

SOUTHERN BELL STATES
DATA (HISTORY THRU 2/93)

A B C D E F G H

TIME	S	YR	MO	SOUTHERN	ADJUST	SOUTHERN	SOUTHERN	PRICE	RESID	B-MAIN	TOTAL
				R&B WMR	R&B WMR	R&B WMR	R&B SEQ1X	R&B SEQ1X			
117	FL	96	9					2.5			
118	FL	96	10					2.5			
119	FL	96	11					2.5			
120	FL	97	12					2.5			
121	FL	97	1					2.5			
122	FL	97	2					2.5			
123	FL	97	3					2.5			
124	FL	97	4					2.5			
125	FL	97	5					2.5			
126	FL	97	6					2.5			
127	FL	97	7					2.5			
128	FL	97	8					2.5			
129	FL	97	9					2.5			
130	FL	97	10					2.5			
131	FL	97	11					2.5			
132	FL	97	12					2.5			
133	FL	98	1					2.5			
134	FL	98	2					2.5			
135	FL	98	3					2.5			
136	FL	98	4					2.5			
137	FL	98	5					2.5			
138	FL	98	6					2.5			
139	FL	98	7					2.5			
140	FL	98	8					2.5			
141	FL	98	9					2.5			
142	FL	98	10					2.5			
143	FL	98	11					2.5			
144	FL	98	12					2.5			
1	GA	87	1					0			
2	GA	87	2					0			
3	GA	87	3					0			
4	GA	87	4					0			
5	GA	87	5					0			
6	GA	87	6					0			
7	GA	87	7					0			
8	GA	87	8					0			
9	GA	87	9					0			
10	GA	87	10					0			
11	GA	87	11					0			
12	GA	87	12					0			
13	GA	88	1					0			
14	GA	88	2					0			
15	GA	88	3					0			
16	GA	88	4					0			
17	GA	88	5					0			
18	GA	88	6					0			
19	GA	88	7					0			
20	GA	88	8					0			
21	GA	88	9					0			
22	GA	88	10					0			
23	GA	88	11					0			
24	GA	88	12					0			
25	GA	89	1					0			
26	GA	89	2					0			
27	GA	89	3					2			
28	GA	89	4					2			
29	GA	89	5					2			
30	GA	89	6					2			

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COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

SOUTHERN BELL STATES
DATA (HISTORY THRU 2/93)

A B C D E F G H

TIME	S	YR	MO	SOUTHERN	ADJUST	SOUTHERN	SOUTHERN	PRICE	RESID	B-MAIN	TOTAL
				R&B WHR	R&B WHR	R&B WHR	R&B SEQ1X	R&B SEQ1X	IN-SRV	IN-SERV	LINES
31	GA	89	7					2			2721257
32	GA	89	8					2			
33	GA	89	9					2			
34	GA	89	10					2			
35	GA	89	11					2			
36	GA	89	12					2			
37	GA	90	1					2			
38	GA	90	2					2			
39	GA	90	3					2			
40	GA	90	4					2			
41	GA	90	5					2			
42	GA	90	6					2			
43	GA	90	7					2			
44	GA	90	8					2			
45	GA	90	9					2			
46	GA	90	10					2			
47	GA	90	11					2			
48	GA	90	12					2			
49	GA	91	1					2			
50	GA	91	2					2			
51	GA	91	3					2			
52	GA	91	4					2			
53	GA	91	5					2			
54	GA	91	6					2			
55	GA	91	7					2			
56	GA	91	8					2			
57	GA	91	9					2			
58	GA	91	10					2			
59	GA	91	11					2			
60	GA	91	12					2			
61	GA	92	1					2			
62	GA	92	2					2			
63	GA	92	3					2			
64	GA	92	4					2			
65	GA	92	5					2			
66	GA	92	6					2			
67	GA	92	7					2			
68	GA	92	8					2			
69	GA	92	9					2			
70	GA	92	10					2			
71	GA	92	11					2			
72	GA	92	12					2			
73	GA	93	1					2			
74	GA	93	2					2			
75	GA	93	3					2			
76	GA	93	4					2			
77	GA	93	5					2			
78	GA	93	6					2			
79	GA	93	7					2			
80	GA	93	8					2			
81	GA	93	9					2			
82	GA	93	10					2			
83	GA	93	11					2			
84	GA	93	12					2			
85	GA	94	1					2			
86	GA	94	2					2			
87	GA	94	3					2			
88	GA	94	4					2			

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COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

SOUTHERN BELL STATES
DATA (HISTORY THRU 2/93)

	A	B	C	D	E	F	G	H
	SOUTHERN R&B WMR	ADJUST R&B WMR	SOUTHERN R&B WMO	SOUTHERN R&B SEQ1X	PRICE R&B SEQ1X	RESID IN-SRV	B-MAIN IN-SERV	TOTAL LINES
TIME S YR MO								
89 GA 94 5					2			
90 GA 94 6					2			
91 GA 94 7					2			
92 GA 94 8					2			
93 GA 94 9					2			
94 GA 94 10					2			
95 GA 94 11					2			
96 GA 94 12					2			
97 GA 95 1					2			
98 GA 95 2					2			
99 GA 95 3					2			
100 GA 95 4					2			
101 GA 95 5					2			
102 GA 95 6					2			
103 GA 95 7					2			
104 GA 95 8					2			
105 GA 95 9					2			
106 GA 95 10					2			
107 GA 95 11					2			
108 GA 95 12					2			
109 GA 96 1					2			
110 GA 96 2					2			
111 GA 96 3					2			
112 GA 96 4					2			
113 GA 96 5					2			
114 GA 96 6					2			
115 GA 96 7					2			
116 GA 96 8					2			
117 GA 96 9					2			
118 GA 96 10					2			
119 GA 96 11					2			
120 GA 97 12					2			
121 GA 97 1					2			
122 GA 97 2					2			
123 GA 97 3					2			
124 GA 97 4					2			
125 GA 97 5					2			
126 GA 97 6					2			
127 GA 97 7					2			
128 GA 97 8					2			
129 GA 97 9					2			
130 GA 97 10					2			
131 GA 97 11					2			
132 GA 97 12					2			
133 GA 98 1					2			
134 GA 98 2					2			
135 GA 98 3					2			
136 GA 98 4					2			
137 GA 98 5					2			
138 GA 98 6					2			
139 GA 98 7					2			
140 GA 98 8					2			
141 GA 98 9					2			
142 GA 98 10					2			
143 GA 98 11					2			
144 GA 98 12					2			
1 NC 87 1					0			
2 NC 87 2					0			

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SOUTHERN BELL STATES
DATA (HISTORY THRU 2/93)

A B C D E F G H

TIME	S	YR	MO	SOUTHERN	ADJUST	SOUTHERN	SOUTHERN	PRICE	RESID	B-MAIN	TOTAL
				R&B WMR	R&B WMR	R&B WMR	R&B SEQ1X	R&B SEQ1X			
3	NC	87	3					0			
4	NC	87	4					0			
5	NC	87	5					0			
6	NC	87	6					0			
7	NC	87	7					0			
8	NC	87	8					0			
9	NC	87	9					0			
10	NC	87	10					0			
11	NC	87	11					0			
12	NC	87	12					0			
13	NC	88	1					0			
14	NC	88	2					0			
15	NC	88	3					0			
16	NC	88	4					0			
17	NC	88	5					0			
18	NC	88	6					0			
19	NC	88	7					2			
20	NC	88	8					2			
21	NC	88	9					2			
22	NC	88	10					2			
23	NC	88	11					2			
24	NC	88	12					2			
25	NC	89	1					2			
26	NC	89	2					2			
27	NC	89	3					2			
28	NC	89	4					2			
29	NC	89	5					2			
30	NC	89	6					2			
31	NC	89	7					2			
32	NC	89	8					2			
33	NC	89	9					2			
34	NC	89	10					2			
35	NC	89	11					2			
36	NC	89	12					2			
37	NC	90	1					2			
38	NC	90	2					2			
39	NC	90	3					2			
40	NC	90	4					2			
41	NC	90	5					2			
42	NC	90	6					2			
43	NC	90	7					2			
44	NC	90	8					2			
45	NC	90	9					2			
46	NC	90	10					2			
47	NC	90	11					2			
48	NC	90	12					2			
49	NC	91	1					2			
50	NC	91	2					2.5			
51	NC	91	3					2.5			
52	NC	91	4					2.5			
53	NC	91	5					2.5			
54	NC	91	6					2.5			
55	NC	91	7					2.5			
56	NC	91	8					2.5			
57	NC	91	9					2.5			
58	NC	91	10					2.5			
59	NC	91	11					2.5			
60	NC	91	12					2.5			

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SOUTHERN BELL STATES
DATA (HISTORY THRU 2/93)

A B C D E F G H

TIME	S	YR	MO	SOUTHERN	ADJUST	SOUTHERN	SOUTHERN	PRICE	RESID	B-MAIN	TOTAL
				R&B WMR	R&B WMR	R&B WMO	R&B SEQ1X	R&B SEQ1X	IN-SRV	IN-SRV	LINE
61	NC	92	1					2.5			
62	NC	92	2					2.5			
63	NC	92	3					2.5			
64	NC	92	4					2.5			
65	NC	92	5					2.5			
66	NC	92	6					2.5			
67	NC	92	7					2.5			
68	NC	92	8					2.5			
69	NC	92	9					2.5			
70	NC	92	10					2.5			
71	NC	92	11					2.5			
72	NC	92	12					2.5			
73	NC	93	1					2.5			
74	NC	93	2					2.5			
75	NC	93	3					2.5			
76	NC	93	4					2.5			
77	NC	93	5					2.5			
78	NC	93	6					2.5			
79	NC	93	7					2.5			
80	NC	93	8					2.5			
81	NC	93	9					2.5			
82	NC	93	10					2.5			
83	NC	93	11					2.5			
84	NC	93	12					2.5			
85	NC	94	1					2.5			
86	NC	94	2					2.5			
87	NC	94	3					2.5			
88	NC	94	4					2.5			
89	NC	94	5					2.5			
90	NC	94	6					2.5			
91	NC	94	7					2.5			
92	NC	94	8					2.5			
93	NC	94	9					2.5			
94	NC	94	10					2.5			
95	NC	94	11					2.5			
96	NC	94	12					2.5			
97	NC	95	1					2.5			
98	NC	95	2					2.5			
99	NC	95	3					2.5			
100	NC	95	4					2.5			
101	NC	95	5					2.5			
102	NC	95	6					2.5			
103	NC	95	7					2.5			
104	NC	95	8					2.5			
105	NC	95	9					2.5			
106	NC	95	10					2.5			
107	NC	95	11					2.5			
108	NC	95	12					2.5			
109	NC	96	1					2.5			
110	NC	96	2					2.5			
111	NC	96	3					2.5			
112	NC	96	4					2.5			
113	NC	96	5					2.5			
114	NC	96	6					2.5			
115	NC	96	7					2.5			
116	NC	96	8					2.5			
117	NC	96	9					2.5			
118	NC	96	10					2.5			

PROPRIETARY

NOT FOR USE OR DISCLOSURE OUTSIDE OF
BELL SOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

SOUTHERN BELL STATES
DATA (HISTORY THRU 2/93)

A B C D E F G H
SOUTHERN ADJUST SOUTHERN SOUTHERN PRICE
R&B R&B R&B R&B R&B RESID B-MAIN TOTAL
WMR WMR WMR SEQ1X SEQ1X IN-SRV IN-SERV LINES

TIME	S	YR	MO	SOUTHERN R&B WMR	ADJUST R&B WMR	SOUTHERN R&B WMR	SOUTHERN R&B SEQ1X	PRICE R&B SEQ1X	RESID IN-SRV	B-MAIN IN-SERV	TOTAL LINES
119	NC	96	11					2.5			
120	NC	97	12					2.5			
121	NC	97	1					2.5			
122	NC	97	2					2.5			
123	NC	97	3					2.5			
124	NC	97	4					2.5			
125	NC	97	5					2.5			
126	NC	97	6					2.5			
127	NC	97	7					2.5			
128	NC	97	8					2.5			
129	NC	97	9					2.5			
130	NC	97	10					2.5			
131	NC	97	11					2.5			
132	NC	97	12					2.5			
133	NC	98	1					2.5			
134	NC	98	2					2.5			
135	NC	98	3					2.5			
136	NC	98	4					2.5			
137	NC	98	5					2.5			
138	NC	98	6					2.5			
139	NC	98	7					2.5			
140	NC	98	8					2.5			
141	NC	98	9					2.5			
142	NC	98	10					2.5			
143	NC	98	11					2.5			
144	NC	98	12					2.5			
1	SC	87	1					0			
2	SC	87	2					0			
3	SC	87	3					0			
4	SC	87	4					0			
5	SC	87	5					0			
6	SC	87	6					0			
7	SC	87	7					0			
8	SC	87	8					0			
9	SC	87	9					0			
10	SC	87	10					0			
11	SC	87	11					0			
12	SC	87	12					0			
13	SC	88	1					0			
14	SC	88	2					0			
15	SC	88	3					0			
16	SC	88	4					0			
17	SC	88	5					0			
18	SC	88	6					0			
19	SC	88	7					0			
20	SC	88	8					0			
21	SC	88	9					0			
22	SC	88	10					0			
23	SC	88	11					0			
24	SC	88	12					0			
25	SC	89	1					2			
26	SC	89	2					2			
27	SC	89	3					2			
28	SC	89	4					2			
29	SC	89	5					2			
30	SC	89	6					2			
31	SC	89	7					2			
32	SC	89	8					2			

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SOUTHERN BELL STATES
DATA (HISTORY THRU 2/93)

A B C D E F G H

TIME	S	YR	MO	SOUTHERN	ADJUST	SOUTHERN	SOUTHERN	PRICE	RESID	B-MAIN	TOTAL
				R&B WMR	R&B WMR	R&B WMQ	R&B SEQ1X	R&B SEQ1X	IN-SRV	IN-SERV	LINES
33	SC	89	9					2			
34	SC	89	10					2			
35	SC	89	11					2			
36	SC	89	12					2			
37	SC	90	1					2			
38	SC	90	2					2			
39	SC	90	3					2			
40	SC	90	4					2			
41	SC	90	5					2			
42	SC	90	6					2			
43	SC	90	7					2			
44	SC	90	8					2			
45	SC	90	9					2			
46	SC	90	10					2			
47	SC	90	11					2			
48	SC	90	12					2			
49	SC	91	1					2			
50	SC	91	2					2			
51	SC	91	3					2			
52	SC	91	4					2			
53	SC	91	5					2			
54	SC	91	6					2			
55	SC	91	7					2			
56	SC	91	8					2			
57	SC	91	9					2			
58	SC	91	10					2			
59	SC	91	11					2			
60	SC	91	12					2			
61	SC	92	1					2			
62	SC	92	2					2			
63	SC	92	3					2			
64	SC	92	4					2			
65	SC	92	5					2			
66	SC	92	6					2			
67	SC	92	7					2			
68	SC	92	8					2			
69	SC	92	9					2			
70	SC	92	10					2			
71	SC	92	11					2			
72	SC	92	12					2			
73	SC	93	1					2			
74	SC	93	2					2			
75	SC	93	3					2			
76	SC	93	4					2			
77	SC	93	5					2			
78	SC	93	6					2			
79	SC	93	7					2			
80	SC	93	8					2			
81	SC	93	9					2			
82	SC	93	10					2			
83	SC	93	11					2			
84	SC	93	12					2			
85	SC	94	1					2			
86	SC	94	2					2			
87	SC	94	3					2			
88	SC	94	4					2			
89	SC	94	5					2			
90	SC	94	6					2			

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COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

SOUTHERN BELL STATES
DATA (HISTORY THRU 2/93)

TIME	S	YR	MO	A	B	C	D	E	F	G	H
				SOUTHERN R&B WMR	ADJUST R&B WMR	SOUTHERN R&B WMR	SOUTHERN R&B SEQ1X	PRICE R&B SEQ1X	RESID IN-SRV	B-MAIN IN-SERV	TOTAL LINES
91	SC	94	7					2			
92	SC	94	8					2			
93	SC	94	9					2			
94	SC	94	10					2			
95	SC	94	11					2			
96	SC	94	12					2			
97	SC	95	1					2			
98	SC	95	2					2			
99	SC	95	3					2			
100	SC	95	4					2			
101	SC	95	5					2			
102	SC	95	6					2			
103	SC	95	7					2			
104	SC	95	8					2			
105	SC	95	9					2			
106	SC	95	10					2			
107	SC	95	11					2			
108	SC	95	12					2			
109	SC	96	1					2			
110	SC	96	2					2			
111	SC	96	3					2			
112	SC	96	4					2			
113	SC	96	5					2			
114	SC	96	6					2			
115	SC	96	7					2			
116	SC	96	8					2			
117	SC	96	9					2			
118	SC	96	10					2			
119	SC	96	11					2			
120	SC	97	12					2			
121	SC	97	1					2			
122	SC	97	2					2			
123	SC	97	3					2			
124	SC	97	4					2			
125	SC	97	5					2			
126	SC	97	6					2			
127	SC	97	7					2			
128	SC	97	8					2			
129	SC	97	9					2			
130	SC	97	10					2			
131	SC	97	11					2			
132	SC	97	12					2			
133	SC	98	1					2			
134	SC	98	2					2			
135	SC	98	3					2			
136	SC	98	4					2			
137	SC	98	5					2			
138	SC	98	6					2			
139	SC	98	7					2			
140	SC	98	8					2			
141	SC	98	9					2			
142	SC	98	10					2			
143	SC	98	11					2			
144	SC	98	12					2			

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 COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

SOUTH CENTRAL BELL STATES
DATA (HISTORY THRU 2/93)

				A	B	C	D	E	F	G	
				SCB	SCB	SCB	SCB				
TIME	S	YR	MO	RESID SEQ1X	RES PCE	SE SEQ1X	BUS PCE	SEQ PCE	RESID IN-SERV	B-MAIN IN-SERV	TOTAL LINES
1	AL	87	1	0	0	0	0	0			
2	AL	87	2	0	0	0	0	0			
3	AL	87	3	0	0	0	0	0			
4	AL	87	4	0	0	0	0	0			
5	AL	87	5	0	0	0	0	0			
6	AL	87	6	0	0	0	0	0			
7	AL	87	7	0	0	0	0	0			
8	AL	87	8	0	0	0	0	0			
9	AL	87	9	0	0	0	0	0			
10	AL	87	10	0	0	0	0	0			
11	AL	87	11	0	0	0	0	0			
12	AL	87	12	0	0	0	0	0			
13	AL	88	1	0	0	0	0	0			
14	AL	88	2		0.6			1.2			
15	AL	88	3		0.6			1.2			
16	AL	88	4		0.6			1.2			
17	AL	88	5		0.6			1.2			
18	AL	88	6		0.6			1.2			
19	AL	88	7		0.6			1.2			
20	AL	88	8		0.6			1.2			
21	AL	88	9		0.6			1.2			
22	AL	88	10		0.6			1.2			
23	AL	88	11		0.6			1.2			
24	AL	88	12		0.6			1.2			
25	AL	89	1		0.95			1.2			
26	AL	89	2		0.95			1.2			
27	AL	89	3		0.95			1.2			
28	AL	89	4		0.95			1.2			
29	AL	89	5		0.95			1.2			
30	AL	89	6		0.95			1.2			
31	AL	89	7		0.95			1.2			
32	AL	89	8		0.95			1.2			
33	AL	89	9		0.95			1.2			
34	AL	89	10		0.95			1.2			
35	AL	89	11		0.95			1.2			
36	AL	89	12		0.95			1.2			
37	AL	90	1		1.5			1.5			
38	AL	90	2		1.5			1.5			
39	AL	90	3		1.5			1.5			
40	AL	90	4		1.5			1.5			
41	AL	90	5		1.5			1.5			
42	AL	90	6		1.5			1.5			
43	AL	90	7		1.5			1.5			
44	AL	90	8		1.5			1.5			
45	AL	90	9		1.5			1.5			
46	AL	90	10		1.5			1.5			
47	AL	90	11		1.5			1.5			
48	AL	90	12		1.5			1.5			
49	AL	91	1		1.5			1.5			
50	AL	91	2		1.5			1.5			
51	AL	91	3		1.5			1.5			
52	AL	91	4		1.5			1.5			
53	AL	91	5		1.5			1.5			
54	AL	91	6		1.5			1.5			
55	AL	91	7		1.5			1.5			
56	AL	91	8		1.5			1.5			
57	AL	91	9		1.5			1.5			
58	AL	91	10		1.5			1.5			
59	AL	91	11		1.5			1.5			

PROPRIETARY

NOT FOR USE OR DISCLOSURE OUTSIDE OF
BELL SOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

F010202

0000163

SOUTH CENTRAL BELL STATES
DATA (HISTORY THRU 2/93)

				A	B	C	D	E	F	G	
				SCB	SCB	SCB	SCB				
TIME	S	YR	NO	RESID SEQ1X	RES PCE	SE SEQ1X	BUS PCE	SEQ IN-SERV	RESID IN-SERV	B-MAIN IN-SERV	TOTAL LINES
60	AL	91	12		1.5		1.5				
61	AL	92	1		1.5		1.5				
62	AL	92	2		1.5		1.5				
63	AL	92	3		1.5		1.5				
64	AL	92	4		1.5		1.5				
65	AL	92	5		1.5		1.5				
66	AL	92	6		1.5		1.5				
67	AL	92	7		1.5		1.5				
68	AL	92	8		1.5		1.5				
69	AL	92	9		1.5		1.5				
70	AL	92	10		1.5		1.5				
71	AL	92	11		1.5		1.5				
72	AL	92	12		1.5		1.5				
73	AL	93	1		1.5		1.5				
74	AL	93	2		1.5		1.5				
75	AL	93	3		1.5		1.5				
76	AL	93	4		1.5		1.5				
77	AL	93	5		1.5		1.5				
78	AL	93	6		1.5		1.5				
79	AL	93	7		1.5		1.5				
80	AL	93	8		1.5		1.5				
81	AL	93	9		1.5		1.5				
82	AL	93	10		1.5		1.5				
83	AL	93	11		1.5		1.5				
84	AL	93	12		1.5		1.5				
85	AL	94	1		1.5		1.5				
86	AL	94	2		1.5		1.5				
87	AL	94	3		1.5		1.5				
88	AL	94	4		1.5		1.5				
89	AL	94	5		1.5		1.5				
90	AL	94	6		1.5		1.5				
91	AL	94	7		1.5		1.5				
92	AL	94	8		1.5		1.5				
93	AL	94	9		1.5		1.5				
94	AL	94	10		1.5		1.5				
95	AL	94	11		1.5		1.5				
96	AL	94	12		1.5		1.5				
97	AL	95	1		1.5		1.5				
98	AL	95	2		1.5		1.5				
99	AL	95	3		1.5		1.5				
100	AL	95	4		1.5		1.5				
101	AL	95	5		1.5		1.5				
102	AL	95	6		1.5		1.5				
103	AL	95	7		1.5		1.5				
104	AL	95	8		1.5		1.5				
105	AL	95	9		1.5		1.5				
106	AL	95	10		1.5		1.5				
107	AL	95	11		1.5		1.5				
108	AL	95	12		1.5		1.5				
109	AL	96	1		1.5		1.5				
110	AL	96	2		1.5		1.5				
111	AL	96	3		1.5		1.5				
112	AL	96	4		1.5		1.5				
113	AL	96	5		1.5		1.5				
114	AL	96	6		1.5		1.5				
115	AL	96	7		1.5		1.5				
116	AL	96	8		1.5		1.5				
117	AL	96	9		1.5		1.5				
118	AL	96	10		1.5		1.5				

PROPRIETARY
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COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

F01825Z

0000164

SOUTH CENTRAL BELL STATES
DATA (HISTORY THRU 2/93)

A				B	C	D	E	F	G	
SCB				SCB	SCB	SCB				
TIME	S	YR	MO	RESID SEQ1X	RES SE PCE	BUS SEQ1X	BUS SEQ PCE	RESID IN-SERV	B-MAIN IN-SERV	TOTAL LINES
119	AL	96	11		1.5		1.5			
120	AL	97	12		1.5		1.5			
121	AL	97	1		1.5		1.5			
122	AL	97	2		1.5		1.5			
123	AL	97	3		1.5		1.5			
124	AL	97	4		1.5		1.5			
125	AL	97	5		1.5		1.5			
126	AL	97	6		1.5		1.5			
127	AL	97	7		1.5		1.5			
128	AL	97	8		1.5		1.5			
129	AL	97	9		1.5		1.5			
130	AL	97	10		1.5		1.5			
131	AL	97	11		1.5		1.5			
132	AL	97	12		1.5		1.5			
133	AL	98	1		1.5		1.5			
134	AL	98	2		1.5		1.5			
135	AL	98	3		1.5		1.5			
136	AL	98	4		1.5		1.5			
137	AL	98	5		1.5		1.5			
138	AL	98	6		1.5		1.5			
139	AL	98	7		1.5		1.5			
140	AL	98	8		1.5		1.5			
141	AL	98	9		1.5		1.5			
142	AL	98	10		1.5		1.5			
143	AL	98	11		1.5		1.5			
144	AL	98	12		1.5		1.5			
1	KY	87	1		0		0			
2	KY	87	2		0		0			
3	KY	87	3		0		0			
4	KY	87	4		0		0			
5	KY	87	5		0		0			
6	KY	87	6		0		0			
7	KY	87	7		0		0			
8	KY	87	8		0		0			
9	KY	87	9		0		0			
10	KY	87	10		0		0			
11	KY	87	11		0		0			
12	KY	87	12		0		0			
13	KY	88	1		0		0			
14	KY	88	2		0.6		0.6			
15	KY	88	3		0.6		0.6			
16	KY	88	4		0.6		0.6			
17	KY	88	5		0.6		0.6			
18	KY	88	6		0.6		0.6			
19	KY	88	7		1.25		1.25			
20	KY	88	8		1.25		1.25			
21	KY	88	9		1.25		1.25			
22	KY	88	10		1.25		1.25			
23	KY	88	11		1.25		1.25			
24	KY	88	12		1.25		1.25			
25	KY	89	1		1.25		1.25			
26	KY	89	2		1.25		1.25			
27	KY	89	3		1.25		1.25			
28	KY	89	4		1.25		1.25			
29	KY	89	5		1.25		1.25			
30	KY	89	6		1.25		1.25			
31	KY	89	7		1.25		1.25			
32	KY	89	8		1.25		1.25			
33	KY	89	9		1.25		1.25			

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SOUTH CENTRAL BELL STATES
DATA (HISTORY THRU 2/93)

				A	B	C	D	E	F	G
				SCB	SCB	SCB	SCB			
TIME	S	YR	MO	RESID SEQ1X	RES SE PCE	BUS SEQ1X	BUS SEQ PCE	RESID IN-SERV	B-MAIN IN-SERV	TOTAL LINES
34	KY	89	10		1.25		1.25			
35	KY	89	11		2		2			
36	KY	89	12		2		2			
37	KY	90	1		2		2			
38	KY	90	2		2		2			
39	KY	90	3		2		2			
40	KY	90	4		2		2			
41	KY	90	5		2		2			
42	KY	90	6		2		2			
43	KY	90	7		2		2			
44	KY	90	8		2		2			
45	KY	90	9		2		2			
46	KY	90	10		2		2			
47	KY	90	11		2		2			
48	KY	90	12		2		2			
49	KY	91	1		2		2			
50	KY	91	2		2		2			
51	KY	91	3		2		2			
52	KY	91	4		2		2			
53	KY	91	5		2		2			
54	KY	91	6		2		2			
55	KY	91	7		2		2			
56	KY	91	8		2		2			
57	KY	91	9		2		2			
58	KY	91	10		2		2			
59	KY	91	11		2		2			
60	KY	91	12		2		2			
61	KY	92	1		2		2			
62	KY	92	2		2		2			
63	KY	92	3		2		2			
64	KY	92	4		2		2			
65	KY	92	5		2		2			
66	KY	92	6		2		2			
67	KY	92	7		2		2			
68	KY	92	8		2		2			
69	KY	92	9		2		2			
70	KY	92	10		2		2			
71	KY	92	11		2		2			
72	KY	92	12		2		2			
73	KY	93	1		2		2			
74	KY	93	2		2		2			
75	KY	93	3		2		2			
76	KY	93	4		2		2			
77	KY	93	5		2		2			
78	KY	93	6		2		2			
79	KY	93	7		2		2			
80	KY	93	8		2		2			
81	KY	93	9		2		2			
82	KY	93	10		2		2			
83	KY	93	11		2		2			
84	KY	93	12		2		2			
85	KY	94	1		2		2			
86	KY	94	2		2		2			
87	KY	94	3		2		2			
88	KY	94	4		2		2			
89	KY	94	5		2		2			
90	KY	94	6		2		2			
91	KY	94	7		2		2			
92	KY	94	8		2		2			

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SOUTH CENTRAL BELL STATES
DATA (HISTORY THRU 2/93)

				A	B	C	D	E	F	G	
				SCB	SCB	SCB	SCB				
TIME	S	YR	MO	RESID SEQ1X	RES PCE	SE SEQ1X	BUS PCE	SEQ IN-SERV	RESID IN-SERV	B-MAIN IN-SERV	TOTAL LINES
93	KY	94	9		2			2			
94	KY	94	10		2			2			
95	KY	94	11		2			2			
96	KY	94	12		2			2			
97	KY	95	1		2			2			
98	KY	95	2		2			2			
99	KY	95	3		2			2			
100	KY	95	4		2			2			
101	KY	95	5		2			2			
102	KY	95	6		2			2			
103	KY	95	7		2			2			
104	KY	95	8		2			2			
105	KY	95	9		2			2			
106	KY	95	10		2			2			
107	KY	95	11		2			2			
108	KY	95	12		2			2			
109	KY	96	1		2			2			
110	KY	96	2		2			2			
111	KY	96	3		2			2			
112	KY	96	4		2			2			
113	KY	96	5		2			2			
114	KY	96	6		2			2			
115	KY	96	7		2			2			
116	KY	96	8		2			2			
117	KY	96	9		2			2			
118	KY	96	10		2			2			
119	KY	96	11		2			2			
120	KY	97	12		2			2			
121	KY	97	1		2			2			
122	KY	97	2		2			2			
123	KY	97	3		2			2			
124	KY	97	4		2			2			
125	KY	97	5		2			2			
126	KY	97	6		2			2			
127	KY	97	7		2			2			
128	KY	97	8		2			2			
129	KY	97	9		2			2			
130	KY	97	10		2			2			
131	KY	97	11		2			2			
132	KY	97	12		2			2			
133	KY	98	1		2			2			
134	KY	98	2		2			2			
135	KY	98	3		2			2			
136	KY	98	4		2			2			
137	KY	98	5		2			2			
138	KY	98	6		2			2			
139	KY	98	7		2			2			
140	KY	98	8		2			2			
141	KY	98	9		2			2			
142	KY	98	10		2			2			
143	KY	98	11		2			2			
144	KY	98	12		2			2			
1	LA	87	1		0			0			
2	LA	87	2		0			0			
3	LA	87	3		0			0			
4	LA	87	4		0			0			
5	LA	87	5		0			0			
6	LA	87	6		0			0			
7	LA	87	7		0			0			

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SOUTH CENTRAL BELL STATES
DATA (HISTORY THRU 2/93)

			A	B	C	D	E	F	G	
			SCB	SCB	SCB	SCB				
TIME	S	YR	MO	RESID SEQ1X	RES SE PCE	BUS SEQ1X	BUS SEQ PCE	RESID IN-SERV	B-MAIN IN-SERV	TOTAL LINES
8	LA	87	8	0	0	0	0			
9	LA	87	9	0	0	0	0			
10	LA	87	10	0	0	0	0			
11	LA	87	11	0	0	0	0			
12	LA	87	12	0	0	0	0			
13	LA	88	1	0	0	0	0			
14	LA	88	2		0.8		1.6			
15	LA	88	3		0.8		1.6			
16	LA	88	4		0.8		1.6			
17	LA	88	5		0.8		1.6			
18	LA	88	6		0.8		1.6			
19	LA	88	7		0.8		1.6			
20	LA	88	8		0.8		1.6			
21	LA	88	9		0.8		1.6			
22	LA	88	10		0.8		1.6			
23	LA	88	11		0.8		1.6			
24	LA	88	12		0.8		1.6			
25	LA	89	1		0.8		1.6			
26	LA	89	2		0.8		1.6			
27	LA	89	3		0.8		1.6			
28	LA	89	4		0.8		1.6			
29	LA	89	5		0.8		1.6			
30	LA	89	6		0.8		1.6			
31	LA	89	7		0.8		1.6			
32	LA	89	8		1.25		1.75			
33	LA	89	9		1.25		1.75			
34	LA	89	10		1.25		1.75			
35	LA	89	11		1.25		1.75			
36	LA	89	12		1.25		1.75			
37	LA	90	1		1.25		1.75			
38	LA	90	2		1.25		1.75			
39	LA	90	3		1.25		1.75			
40	LA	90	4		1.25		1.75			
41	LA	90	5		1.25		1.75			
42	LA	90	6		1.25		1.75			
43	LA	90	7		1.25		1.75			
44	LA	90	8		1.25		1.75			
45	LA	90	9		1.25		1.75			
46	LA	90	10		1.25		1.75			
47	LA	90	11		1.25		1.75			
48	LA	90	12		1.25		1.75			
49	LA	91	1		1.25		1.75			
50	LA	91	2		1.25		1.75			
51	LA	91	3		1.25		1.75			
52	LA	91	4		1.25		1.75			
53	LA	91	5		1.25		1.75			
54	LA	91	6		1.25		1.75			
55	LA	91	7		2		2			
56	LA	91	8		2		2			
57	LA	91	9		2		2			
58	LA	91	10		2		2			
59	LA	91	11		2		2			
60	LA	91	12		2		2			
61	LA	92	1		2		2			
62	LA	92	2		2		2			
63	LA	92	3		2		2			
64	LA	92	4		2		2			
65	LA	92	5		2		2			
66	LA	92	6		2		2			

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SOUTH CENTRAL BELL STATES
 DATA (HISTORY THRU 2/93)

				A	B	C	D	E	F	G	
				SCB	SCB	SCB	SCB				
TIME	S	YR	MO	RESID SEQ1X	RES PCE	SE SEQ1X	BUS PCE	SEQ IN-SERV	RESID IN-SERV	B-MAIN IN-SERV	TOTAL LINES
67	LA	92	7		2			2			
68	LA	92	8		2			2			
69	LA	92	9		2			2			
70	LA	92	10		2			2			
71	LA	92	11		2			2			
72	LA	92	12		2			2			
73	LA	93	1		2			2			
74	LA	93	2		2			2			
75	LA	93	3		2			2			
76	LA	93	4		2			2			
77	LA	93	5		2			2			
78	LA	93	6		2			2			
79	LA	93	7		2			2			
80	LA	93	8		2			2			
81	LA	93	9		2			2			
82	LA	93	10		2			2			
83	LA	93	11		2			2			
84	LA	93	12		2			2			
85	LA	94	1		2			2			
86	LA	94	2		2			2			
87	LA	94	3		2			2			
88	LA	94	4		2			2			
89	LA	94	5		2			2			
90	LA	94	6		2			2			
91	LA	94	7		2			2			
92	LA	94	8		2			2			
93	LA	94	9		2			2			
94	LA	94	10		2			2			
95	LA	94	11		2			2			
96	LA	94	12		2			2			
97	LA	95	1		2			2			
98	LA	95	2		2			2			
99	LA	95	3		2			2			
100	LA	95	4		2			2			
101	LA	95	5		2			2			
102	LA	95	6		2			2			
103	LA	95	7		2			2			
104	LA	95	8		2			2			
105	LA	95	9		2			2			
106	LA	95	10		2			2			
107	LA	95	11		2			2			
108	LA	95	12		2			2			
109	LA	96	1		2			2			
110	LA	96	2		2			2			
111	LA	96	3		2			2			
112	LA	96	4		2			2			
113	LA	96	5		2			2			
114	LA	96	6		2			2			
115	LA	96	7		2			2			
116	LA	96	8		2			2			
117	LA	96	9		2			2			
118	LA	96	10		2			2			
119	LA	96	11		2			2			
120	LA	97	12		2			2			
121	LA	97	1		2			2			
122	LA	97	2		2			2			
123	LA	97	3		2			2			
124	LA	97	4		2			2			
125	LA	97	5		2			2			

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SOUTH CENTRAL BELL STATES

DATA (HISTORY THRU 2/93)

			A	B	C	D	E	F	G	
			SCB	SCB	SCB	SCB				
TIME	S	YR	MO	RESID	RES SE	BUS	BUS SEQ	RESID	B-MAIN	TOTAL
				SEQ1X	PCE	SEQ1X	PCE	IN-SERV	IN-SERV	LINES
126	LA	97	6		2		2			
127	LA	97	7		2		2			
128	LA	97	8		2		2			
129	LA	97	9		2		2			
130	LA	97	10		2		2			
131	LA	97	11		2		2			
132	LA	97	12		2		2			
133	LA	98	1		2		2			
134	LA	98	2		2		2			
135	LA	98	3		2		2			
136	LA	98	4		2		2			
137	LA	98	5		2		2			
138	LA	98	6		2		2			
139	LA	98	7		2		2			
140	LA	98	8		2		2			
141	LA	98	9		2		2			
142	LA	98	10		2		2			
143	LA	98	11		2		2			
144	LA	98	12		2		2			
1	MS	87	1		0		0			
2	MS	87	2		0		0			
3	MS	87	3		0		0			
4	MS	87	4		0		0			
5	MS	87	5		0		0			
6	MS	87	6		0		0			
7	MS	87	7		0		0			
8	MS	87	8		0		0			
9	MS	87	9		0		0			
10	MS	87	10		0		0			
11	MS	87	11		0		0			
12	MS	87	12		0		0			
13	MS	88	1		0		0			
14	MS	88	2		0.6		0.6			
15	MS	88	3		0.6		0.6			
16	MS	88	4		0.6		0.6			
17	MS	88	5		0.6		0.6			
18	MS	88	6		0.6		0.6			
19	MS	88	7		0.6		0.6			
20	MS	88	8		0.6		0.6			
21	MS	88	9		0.6		0.6			
22	MS	88	10		0.6		0.6			
23	MS	88	11		0.6		0.6			
24	MS	88	12		0.6		0.6			
25	MS	89	1		0.6		0.6			
26	MS	89	2		0.6		0.6			
27	MS	89	3		0.6		0.6			
28	MS	89	4		1.25		1.25			
29	MS	89	5		1.25		1.25			
30	MS	89	6		1.25		1.25			
31	MS	89	7		1.25		1.25			
32	MS	89	8		1.25		1.25			
33	MS	89	9		1.25		1.25			
34	MS	89	10		1.25		1.25			
35	MS	89	11		1.25		1.25			
36	MS	89	12		1.25		1.25			
37	MS	90	1		1.25		1.25			
38	MS	90	2		1.25		1.25			
39	MS	90	3		1.25		1.25			
40	MS	90	4		1.25		1.25			

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SOUTH CENTRAL BELL STATES

DATA (HISTORY THRU 2/93)

TIME	S	YR	MO	A	B	C	D	E	F	G
				SCB	SCB	SCB	SCB	RESID	B-MAIN	TOTAL
SEQ1X	RESID	SE	BUS	BUS	SEQ	RESID	B-MAIN	TOTAL		
SEQ1X	PCE	SEQ1X	PCE	IN-SERV	IN-SERV					LINES
41	MS	90	5		1.25		1.25			
42	MS	90	6		1.25		1.25			
43	MS	90	7		1.25		1.25			
44	MS	90	8		1.25		1.25			
45	MS	90	9		1.25		1.25			
46	MS	90	10		1.25		1.25			
47	MS	90	11		1.25		1.25			
48	MS	90	12		1.25		1.25			
49	MS	91	1		2		2			
50	MS	91	2		2		2			
51	MS	91	3		2		2			
52	MS	91	4		2		2			
53	MS	91	5		2		2			
54	MS	91	6		2		2			
55	MS	91	7		2		2			
56	MS	91	8		2		2			
57	MS	91	9		2		2			
58	MS	91	10		2		2			
59	MS	91	11		2		2			
60	MS	91	12		2		2			
61	MS	92	1		2		2			
62	MS	92	2		2		2			
63	MS	92	3		2		2			
64	MS	92	4		2		2			
65	MS	92	5		2		2			
66	MS	92	6		2		2			
67	MS	92	7		2		2			
68	MS	92	8		2		2			
69	MS	92	9		2		2			
70	MS	92	10		2		2			
71	MS	92	11		2		2			
72	MS	92	12		2		2			
73	MS	93	1		2		2			
74	MS	93	2		2		2			
75	MS	93	3		2		2			
76	MS	93	4		2		2			
77	MS	93	5		2		2			
78	MS	93	6		2		2			
79	MS	93	7		2		2			
80	MS	93	8		2		2			
81	MS	93	9		2		2			
82	MS	93	10		2		2			
83	MS	93	11		2		2			
84	MS	93	12		2		2			
85	MS	94	1		2		2			
86	MS	94	2		2		2			
87	MS	94	3		2		2			
88	MS	94	4		2		2			
89	MS	94	5		2		2			
90	MS	94	6		2		2			
91	MS	94	7		2		2			
92	MS	94	8		2		2			
93	MS	94	9		2		2			
94	MS	94	10		2		2			
95	MS	94	11		2		2			
96	MS	94	12		2		2			
97	MS	95	1		2		2			
98	MS	95	2		2		2			
99	MS	95	3		2		2			

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DATA (HISTORY THRU 2/93)

TIME	S	YR	MO	A	B	C	D	E	F	G
				SCB	SCB	SCB	SCB	RESID	B-MAIN	TOTAL
RESID	RES	SE	BUS	BUS	SEQ	RESID	B-MAIN	TOTAL	LINES	
SEQ1X	PCE	SEQ1X	PCE	IN-SERV	IN-SERV					
100	MS	95	4			2		2		
101	MS	95	5			2		2		
102	MS	95	6			2		2		
103	MS	95	7			2		2		
104	MS	95	8			2		2		
105	MS	95	9			2		2		
106	MS	95	10			2		2		
107	MS	95	11			2		2		
108	MS	95	12			2		2		
109	MS	96	1			2		2		
110	MS	96	2			2		2		
111	MS	96	3			2		2		
112	MS	96	4			2		2		
113	MS	96	5			2		2		
114	MS	96	6			2		2		
115	MS	96	7			2		2		
116	MS	96	8			2		2		
117	MS	96	9			2		2		
118	MS	96	10			2		2		
119	MS	96	11			2		2		
120	MS	97	12			2		2		
121	MS	97	1			2		2		
122	MS	97	2			2		2		
123	MS	97	3			2		2		
124	MS	97	4			2		2		
125	MS	97	5			2		2		
126	MS	97	6			2		2		
127	MS	97	7			2		2		
128	MS	97	8			2		2		
129	MS	97	9			2		2		
130	MS	97	10			2		2		
131	MS	97	11			2		2		
132	MS	97	12			2		2		
133	MS	98	1			2		2		
134	MS	98	2			2		2		
135	MS	98	3			2		2		
136	MS	98	4			2		2		
137	MS	98	5			2		2		
138	MS	98	6			2		2		
139	MS	98	7			2		2		
140	MS	98	8			2		2		
141	MS	98	9			2		2		
142	MS	98	10			2		2		
143	MS	98	11			2		2		
144	MS	98	12			2		2		
1	TN	87	1			0		0		
2	TN	87	2			0		0		
3	TN	87	3			0		0		
4	TN	87	4			0		0		
5	TN	87	5			0		0		
6	TN	87	6			0		0		
7	TN	87	7			0		0		
8	TN	87	8			0		0		
9	TN	87	9			0		0		
10	TN	87	10			0		0		
11	TN	87	11			0		0		
12	TN	87	12			0		0		
13	TN	88	1			0		0		
14	TN	88	2	1112032	0.6	79525	0.6			

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DATA (HISTORY THRU 2/93)

			A	B	C	D	E	F	G	
			SCB	SCB	SCB	SCB				
TIME	S	YR	MO	RESID	RES SE	BUS	BUS SEQ	RESID	B-MAIN	TOTAL
				SEQ1X	PCE	SEQ1X	PCE	IN-SERV	IN-SERV	LINE
15	TN	88	3		0.6		0.6			
16	TN	88	4		0.6		0.6			
17	TN	88	5		0.6		0.6			
18	TN	88	6		0.6		0.6			
19	TN	88	7		0.6		0.6			
20	TN	88	8		0.6		0.6			
21	TN	88	9		0.6		0.6			
22	TN	88	10		0.6		0.6			
23	TN	88	11		0.6		0.6			
24	TN	88	12		0.6		0.6			
25	TN	89	1		1		1			
26	TN	89	2		1		1			
27	TN	89	3		1		1			
28	TN	89	4		1		1			
29	TN	89	5		1		1			
30	TN	89	6		1		1			
31	TN	89	7		1		1			
32	TN	89	8		1		1			
33	TN	89	9		1		1			
34	TN	89	10		1		1			
35	TN	89	11		1		1			
36	TN	89	12		1		1			
37	TN	90	1		1.25		1.25			
38	TN	90	2		1.25		1.25			
39	TN	90	3		1.25		1.25			
40	TN	90	4		1.25		1.25			
41	TN	90	5		1.25		1.25			
42	TN	90	6		1.25		1.25			
43	TN	90	7		1.25		1.25			
44	TN	90	8		1.25		1.25			
45	TN	90	9		1.25		1.25			
46	TN	90	10		1.25		1.25			
47	TN	90	11		1.25		1.25			
48	TN	90	12		1.25		1.25			
49	TN	91	1		1.25		1.25			
50	TN	91	2		1.25		1.25			
51	TN	91	3		1.25		1.25			
52	TN	91	4		1.25		1.25			
53	TN	91	5		1.25		1.25			
54	TN	91	6		1.25		1.25			
55	TN	91	7		1.25		1.25			
56	TN	91	8		1.25		1.25			
57	TN	91	9		1.25		1.25			
58	TN	91	10		1.25		1.25			
59	TN	91	11		1.25		1.25			
60	TN	91	12		1.25		1.25			
61	TN	92	1		1.25		1.25			
62	TN	92	2		1.25		1.25			
63	TN	92	3		1.25		1.25			
64	TN	92	4		1.25		1.25			
65	TN	92	5		1.25		1.25			
66	TN	92	6		1.25		1.25			
67	TN	92	7		1.25		1.25			
68	TN	92	8		1.25		1.25			
69	TN	92	9		1.25		1.25			
70	TN	92	10		1.25		1.25			
71	TN	92	11		1.25		1.25			
72	TN	92	12		1.25		1.25			
73	TN	93	1		1.25		1.25			

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SOUTH CENTRAL BELL STATES
DATA (HISTORY THRU 2/93)

TIME	S	YR	MO	A	B	C	D	E	F	G
				SCB	SCB	SCB	SCB	RESID	B-MAIN	TOTAL
RESID	RES	SE	BUS	BUS	SEQ	RESID	B-MAIN	TOTAL		
SEQ1X	PCE	SEQ1X	PCE	IN-SERV	IN-SERV	LINES				
74	TN	93	2		1.25		1.25			
75	TN	93	3		1.25		1.25			
76	TN	93	4		1.25		1.25			
77	TN	93	5		1.25		1.25			
78	TN	93	6		1.25		1.25			
79	TN	93	7		1.25		1.25			
80	TN	93	8		1.25		1.25			
81	TN	93	9		1.25		1.25			
82	TN	93	10		1.25		1.25			
83	TN	93	11		1.25		1.25			
84	TN	93	12		1.25		1.25			
85	TN	94	1		1.25		1.25			
86	TN	94	2		1.25		1.25			
87	TN	94	3		1.25		1.25			
88	TN	94	4		1.25		1.25			
89	TN	94	5		1.25		1.25			
90	TN	94	6		1.25		1.25			
91	TN	94	7		1.25		1.25			
92	TN	94	8		1.25		1.25			
93	TN	94	9		1.25		1.25			
94	TN	94	10		1.25		1.25			
95	TN	94	11		1.25		1.25			
96	TN	94	12		1.25		1.25			
97	TN	95	1		1.25		1.25			
98	TN	95	2		1.25		1.25			
99	TN	95	3		1.25		1.25			
100	TN	95	4		1.25		1.25			
101	TN	95	5		1.25		1.25			
102	TN	95	6		1.25		1.25			
103	TN	95	7		1.25		1.25			
104	TN	95	8		1.25		1.25			
105	TN	95	9		1.25		1.25			
106	TN	95	10		1.25		1.25			
107	TN	95	11		1.25		1.25			
108	TN	95	12		1.25		1.25			
109	TN	96	1		1.25		1.25			
110	TN	96	2		1.25		1.25			
111	TN	96	3		1.25		1.25			
112	TN	96	4		1.25		1.25			
113	TN	96	5		1.25		1.25			
114	TN	96	6		1.25		1.25			
115	TN	96	7		1.25		1.25			
116	TN	96	8		1.25		1.25			
117	TN	96	9		1.25		1.25			
118	TN	96	10		1.25		1.25			
119	TN	96	11		1.25		1.25			
120	TN	97	12		1.25		1.25			
121	TN	97	1		1.25		1.25			
122	TN	97	2		1.25		1.25			
123	TN	97	3		1.25		1.25			
124	TN	97	4		1.25		1.25			
125	TN	97	5		1.25		1.25			
126	TN	97	6		1.25		1.25			
127	TN	97	7		1.25		1.25			
128	TN	97	8		1.25		1.25			
129	TN	97	9		1.25		1.25			
130	TN	97	10		1.25		1.25			
131	TN	97	11		1.25		1.25			
132	TN	97	12		1.25		1.25			

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SOUTH CENTRAL BELL STATES
 DATA (HISTORY THRU 2/93)

			A	B	C	D	E	F	G	
			SCB	SCB	SCB	SCB				
TIME	S	YR	MO	RESID	RES SE	BUS	BUS SEQ	RESID	B-MAIN	TOTAL
				SEQ1X	PCE	SEQ1X	PCE	IN-SERV	IN-SERV	LINES
133	TN	98	1		1.25		1.25			
134	TN	98	2		1.25		1.25			
135	TN	98	3		1.25		1.25			
136	TN	98	4		1.25		1.25			
137	TN	98	5		1.25		1.25			
138	TN	98	6		1.25		1.25			
139	TN	98	7		1.25		1.25			
140	TN	98	8		1.25		1.25			
141	TN	98	9		1.25		1.25			
142	TN	98	10		1.25		1.25			
143	TN	98	11		1.25		1.25			
144	TN	98	12		1.25		1.25			

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INTEROFFICE MEMORANDUM

Date: 03-May-1993 02:28pm EDT
From: Ben Jordan
JORDAN_BEN AT A1 AT ALPR
Dept: Pricing
Tel No: (205)977-0454

TO: MORRISON, JEFF

1

(MORRISON_SJ @ A1 @ GAMD)

Subject: REVISED TEST RATES

JEFF,

SORRY, THIS IS LATE. BUT, HERE ARE THE TEST RATES FOR WMR AND WMQ. THE WMQ RATES WILL REMAIN CONSTANT THRU THE STUDY PERIOD.

ALSO, THE TEST PERIOD FOR THE FLORIDA SETTLEMENT SHOULD BEGIN AUG. 1, 1992.
BEN

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	CURRENT SEQIX RATE	1-1-94 TEST RATE	1-1-95 TEST RATE
AL	\$1.50	\$2.25	\$2.80
FL	2.50	2.80	2.80
GA	2.00	2.80	2.80
KY	2.00	2.80	2.80
LA	2.00	2.80	2.80
MS	2.00	2.80	2.80
NC	2.50	2.80	2.80
SC	2.00	2.80	2.80
TN	1.25	2.00	2.80

	CURRENT WMR RATE	1-1-94 TEST RATE	1-1-95 TEST RATE
AL	NA	NA	NA
FL	1.50	1.80	1.80
GA	1.00	1.80	1.80
KY	NA	NA	NA
LA	NA	NA	NA
MS	NA	NA	NA
NC	1.50	1.80	1.80
SC	1.00	1.80	1.80
TN	NA	NA	NA

	CURRENT WMQ RATE	1-1-94 TEST RATE	1-1-95 TEST RATE
AL	NA	NA	NA
FL	1.00	1.00	1.00
GA	1.00	1.00	1.00
KY	NA	NA	NA
LA	NA	NA	NA
MS	NA	NA	NA
NC	1.05	1.05	1.05
SC	1.00	1.00	1.00
TN	NA	NA	NA

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SOUTH CENTRAL BELL ELASTICITY

STUDY: SEQ1X

The following procedure (Almon Lags- with constraints) was used to capture the cumulative price impact of rate changes in the South Central Bell market over time. By simply summing the elasticity values at their means, the overall elasticity for SEQ1X can be determined: -

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F01B25Z

0000178

SCB ELASTICITY MODEL: RESIDENTIAL SEQ1X

Date:04/29/93 Time:09:48:33.85

METHOD: POOLING

Hello/Bonjour/Aloha/Howdy/G Day/Kia Ora/Konnichiwa/Buenos Dias/Nee Hau
Welcome to SHAZAM - Version 6.2 - AUG 1991 SYSTEM=OS386 PAR= 5555

*
* INSIDE WIRE MONTHLY PLANS (SEQ1X)
*
*-----
* Data: 1/87 - 12/98; SEQ1X DATA BEGINS ON 2/88 & ENDS ON 2/93
* Total Observations = 144 Per State
*-----

_DIM PREDK 1200 PREDL 1200 PREDM 1200 PREDT 1200
_SET NODELETE
_FILE 4 SCB.PRN
UNIT 4 IS NOW ASSIGNED TO: SCB.PRN

_*-----
_FILE 11 ALR.OUT
UNIT 11 IS NOW ASSIGNED TO: ALR.OUT
_FILE 12 KYR.OUT
UNIT 12 IS NOW ASSIGNED TO: KYR.OUT
_FILE 13 LAR.OUT
UNIT 13 IS NOW ASSIGNED TO: LAR.OUT
_FILE 14 MSR.OUT
UNIT 14 IS NOW ASSIGNED TO: MSR.OUT
_FILE 15 TNR.OUT
UNIT 15 IS NOW ASSIGNED TO: TNR.OUT
_*-----
_FILE 16 ALB.OUT
UNIT 16 IS NOW ASSIGNED TO: ALB.OUT
_FILE 17 KYB.OUT
UNIT 17 IS NOW ASSIGNED TO: KYB.OUT
_FILE 18 LAB.OUT
UNIT 18 IS NOW ASSIGNED TO: LAB.OUT
_FILE 19 MSB.OUT
UNIT 19 IS NOW ASSIGNED TO: MSB.OUT
_FILE 20 TNB.OUT
UNIT 20 IS NOW ASSIGNED TO: TNB.OUT

_*-----
_READ(4) TIME STATE YR MO RSEQ RSEQR BSEQ BSEQR &
RLINES IRLINES BLINES IBLINES TLINES ITLINES

...SAMPLE RANGE IS NOW SET TO: 1 720

_*-----
_* SINCE DATA STARTS AT 2/88 (TIME=14), SKIP DATA BEFORE THAT TIME...
_*-----

_SET NOWARNSKIP
_SKIPIF(TIME.LT.14)
_SKIPIF(YR.GT.92)
_GENR TOTOBSTIME(0)

_*-----
_* CREATING SEASONAL DUMMIES
_*-----

_GENR JAN=0
_GENR FEB=0
_GENR MAR=0
_GENR APR=0
_GENR MAY=0

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```

_GENR JUN=0
_GENR JUL=0
_GENR AUG=0
_GENR SEP=0
_GENR OCT=0
_GENR NOV=0
_GENR DEC=0
_IF(MO.EQ.1)JAN=1
_IF(MO.EQ.2)FEB=1
_IF(MO.EQ.3)MAR=1
_IF(MO.EQ.4)APR=1
_IF(MO.EQ.5)MAY=1
_IF(MO.EQ.6)JUN=1
_IF(MO.EQ.7)JUL=1
_IF(MO.EQ.8)AUG=1
_IF(MO.EQ.9)SEP=1
_IF(MO.EQ.10)OCT=1
_IF(MO.EQ.11)NOV=1
_IF(MO.EQ.12)DEC=1
* -----
* CREATING STATE DUMMIES
* -----
_GENR AL=0
_GENR KY=0
_GENR LA=0
_GENR MS=0
_GENR TN=0
_IF(STATE.EQ.1)AL=1
_IF(STATE.EQ.4)KY=1
_IF(STATE.EQ.5)LA=1
_IF(STATE.EQ.6)MS=1
_IF(STATE.EQ.9)TN=1
* -----
* Creating Slope dummies for POOLED ANALYSIS Residential Access Lines
* -----
_GENR RSAL=0
_GENR RSKY=0
_GENR RSLA=0
_GENR RSMS=0
_GENR RSTN=0
_IF(STATE.EQ.1)RSAL=RLINES
_IF(STATE.EQ.4)RSKY=RLINES
_IF(STATE.EQ.5)RSLA=RLINES
_IF(STATE.EQ.6)RSMS=RLINES
_IF(STATE.EQ.9)RSTN=RLINES
* -----
* Creating Slope dummies for POOLED ANALYSIS Business Main Access Lines
* -----
_GENR BSAL=0
_GENR BSKY=0
_GENR BSLA=0
_GENR BSMS=0
_GENR BSTN=0
_IF(STATE.EQ.1)BSAL=BLINES
_IF(STATE.EQ.4)BSKY=BLINES
_IF(STATE.EQ.5)BSLA=BLINES
_IF(STATE.EQ.6)BSMS=BLINES
_IF(STATE.EQ.9)BSTN=BLINES
* -----

```

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| _POOL RSEQ JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV RLINES RSEGR(0.3,2,3) &
 | RSAL RSKY RSLA /NCROSS=5 CORCOEF LIST RS
 LAG FOR RSEGR RANGE = 0 3 ORDER= 2 ENDCON=3
 POOLED CROSS-SECTION TIME-SERIES ESTIMATION
 5 CROSS-SECTIONS AND 56 TIME-PERIODS
 280 TOTAL OBSERVATIONS
 DEPENDENT VARIABLE = RSEQ

OLS COEFFICIENTS

1465.0	-976.50	634.74	1893.6	2508.2
2017.8	1605.8	892.19	712.59	880.07
672.20	0.75331	-3633.3	-5450.0	-5450.0
-3633.3	0.22467E-01	-0.23463	-0.10760E-01	82393.

RHO VECTOR

0.97576	0.98310	0.68209	0.94052	0.95268
---------	---------	---------	---------	---------

CONSTANT RHO = 0.93792

VARIANCES

0.28392E+07	0.31101E+07	0.56340E+07	0.49585E+07	0.62374E+07
-------------	-------------	-------------	-------------	-------------

PHI MATRIX

0.28392E+07					
-0.38264E+06	0.31101E+07				
-0.15288E+07	0.23000E+06	0.56340E+07			
0.72227E+06	0.23532E+06	0.77327E+06	0.49585E+07		
0.13082E+07	0.18894E+06	-0.21313E+06	0.17167E+07	0.62374E+07	

FINAL COEFFICIENTS

-364.39	0.00000	0.00000	0.00000	1.0000
0.00000	0.00000	0.00000	0.00000	0.00000
1.0000	0.14772E+07	1.2500	1.2500	1.2500
1.2500	0.00000	0.00000	0.00000	1.0000

FINAL SSE = 192.18

BUSE R-SQUARE = 0.9993 BUSE RAW-MOMENT R-SQUARE = 0.9999

VARIANCE OF THE ESTIMATE-SIGMA**2 = 0.73074

STANDARD ERROR OF THE ESTIMATE-SIGMA = 0.85483

SUM OF SQUARED ERRORS-SSE= 192.18

MEAN OF DEPENDENT VARIABLE = 0.82461E+06

LOG OF THE LIKELIHOOD FUNCTION = -2490.07

37	VARIABLE	SUM OF LAG COEFS	STD ERROR	T-RATIO	MEAN LAG
	RSEGR	-12899.	786.48	-16.401	1.5000

		A	B	C	D	E	F
VARIABLE..	ESTIMATED	STANDARD	T-RATIO	PARTIAL	STANDARDIZED	ELASTICITY	
NAME	COEFFICIENT	ERROR	263 DF	CORR.	COEFFICIENT	AT MEANS	
41	JAN			-0.93452	-0.0575		
	FEB			0.26677	0.0164		
	MAR			2.3983	0.1463		
	APR			3.7955	0.2279		
	MAY			4.3029	0.2565		
	JUN			3.6265	0.2182		
	JUL			2.9721	0.1803		
	AUG			1.8667	0.1143		
49	SEP			1.4793	0.0908		

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A B C D E F

1	OCT		1.7090	0.1048
	NOV		1.7571	0.1077
	RLINES		219.61	0.9973
	RSEQR		-16.401	-0.7111
	RSEQR		-16.401	-0.7111
	RSEQR		-16.401	-0.7111
	RSEQR		-16.401	-0.7111
	RSAL		4.3471	0.2589
	RSKY		-60.155	-0.9655
	RSLA		-12.151	-0.5996
10	CONSTANT		21.963	0.8045

OBS. NO.	OBSERVED VALUE	PREDICTED VALUE	CALCULATED RESIDUAL
14 17			0.58691E-01
18			1.4660
19			1.0425
20			0.89401
21			0.14053
22			0.11560E-01
23			0.31660E-01
24			-0.31270
25			-0.32203
26			0.44464E-02
27			-0.54801
28			-1.0238
29			-0.49271
30			-0.72088
31			-0.56136
32			-1.0036
33			-0.76195
34			-0.47829E-01
35			-0.18982
36			0.54846
37			-0.61057
38			-1.3482
39			-1.4430
40			-0.41245
41			0.81984E-01
42			0.14698
43			-0.15017
44			-1.5866
45			0.68064
46			-0.24325
47			-0.11278
48			-0.54829
49			-0.61562
50			-0.32983
51			-0.15869
52			-0.42826
53			-0.51009
54			-0.87676
55			-1.0017
56			-0.60687
57			0.33000
58			-0.44023
59			0.19133E-01
60			-0.41968
61			-0.81011
62			-0.61473
60 63			-0.40346

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	A	B	C		
64			-0.73129	*	I
65			-0.85610	*	I
66			-1.4173	*	I
67			-1.3707	*	I
68			-1.0609	*	I
69			-0.49214	*	I
70			-1.0965	*	I
71			-1.7144	*	I
72			-1.7999	*	I
161			-3.2535	X	I
162			-0.87529	*	I
163			-0.72208	*	I
164			-1.2672	*	I
165			1.4891		I
166			1.2139		I
167			1.2041		I
168			-0.39439	*	I
169			0.48762	*	I
170			0.94735	*	I
171			1.1801	*	I
172			0.60607	*	I
173			-0.15179	*	I
174			-0.67639E-01	*	I
175			-0.41013	*	I
176			-0.52786	*	I
177			-0.84427	*	I
178			-0.83603	*	I
179			-0.77286	*	I
180			-0.61877	*	I
181			0.20548E-01	*	I
182			-0.10499E-01	*	I
183			-0.45698	*	I
184			-0.61681E-01	*	I
185			0.81760	*	I
186			1.4098	*	I
187			1.2854	*	I
188			0.77544	*	I
189			-0.53325	*	I
190			-0.49287	*	I
191			-0.17537	*	I
192			0.14801	*	I
193			0.19793	*	I
194			0.44974	*	I
195			0.45546	*	I
196			0.49593E-01	*	I
197			0.42464	*	I
198			0.29540	*	I
199			0.21597	*	I
200			0.14722	*	I
201			-0.25755	*	I
202			-0.17275	*	I
203			0.17290E-01	*	I
204			0.14322	*	I
205			0.42862	*	I
206			0.59577	*	I
207			0.42479	*	I
208			0.21599	*	I
209			0.16768	*	I
210			0.16430	*	I
211			0.34876	*	I

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	A	B	C	
212	:	:	0.10883	I*
213	:	:	-0.47823	* I
214	:	:	-0.46778	* I
215	:	:	-0.24028	* I
216	:	:	0.34831	I *
305	:	:	-1.3507	* I
306	:	:	-0.14518	* I
307	:	:	-0.25193	* I
308	:	:	-0.20411	* I
309	:	:	-0.18569	* I
310	:	:	-0.26543	* I
311	:	:	-3.9117	X I
312	:	:	0.89563	I
313	:	:	1.0394	I *
314	:	:	1.1020	I *
315	:	:	0.81668	I *
316	:	:	0.72318	I *
317	:	:	0.99632	I *
318	:	:	0.90645	I *
319	:	:	0.74814	I *
320	:	:	0.84287	I *
321	:	:	1.0095	I *
322	:	:	1.0858	I *
323	:	:	0.70241	I *
324	:	:	0.47058	I *
325	:	:	0.57131	I *
326	:	:	0.66905	I *
327	:	:	0.47314	I *
328	:	:	0.89012	I *
329	:	:	-0.17192	* I
330	:	:	-0.30311	* I
331	:	:	-0.22921	* I
332	:	:	1.0970	I *
333	:	:	0.30863	I *
334	:	:	-0.19465	* I
335	:	:	0.53630E-01	*
336	:	:	0.18594	I*
337	:	:	0.23437	I*
338	:	:	0.35470	I*
339	:	:	0.47351	I*
340	:	:	0.52378	I*
341	:	:	0.55171	I*
342	:	:	0.40904	I*
343	:	:	0.26087	I*
344	:	:	0.36211	I*
345	:	:	0.69281	I*
346	:	:	0.30547	I*
347	:	:	0.62084	I*
348	:	:	0.34873	I*
349	:	:	0.39239	I*
350	:	:	0.68349	I*
351	:	:	0.55300E-01	*
352	:	:	-0.16788	* I
353	:	:	0.79358	I *
354	:	:	1.0531	I *
355	:	:	0.84734	I *
356	:	:	0.17686	I*
357	:	:	0.27230	I*
358	:	:	-0.34951	* I
359	:	:	-0.89309E-01	*

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A	B	C
360		-0.59166
449		-0.36279
450		-0.54774
451		-0.42363
452		-0.99813
453		-1.4784
454		-1.2012
455		-1.2740
456		-0.82815
457		-0.82755
458		2.6745
459		1.0980
460		0.89995
461		0.81502
462		0.37685
463		0.28628
464		0.30178
465		0.14565
466		0.60289E-01
467		0.15938
468		0.36080
469		0.20080
470		-0.29934
471		-0.36104
472		-0.23917
473		-0.22243
474		0.36417
475		0.51142
476		-0.28658
477		-0.32154
478		-0.36551
479		0.13113
480		0.13538
481		-0.41640
482		-0.63617
483		-2.3210
484		-0.71856
485		-0.50965
486		-0.25103
487		-0.44680
488		-0.31872
489		-0.51624
490		-0.77419
491		-0.49198
492		-0.97907
493		-0.56457
494		-0.81568E-01
495		-0.14712
496		-0.42636
497		1.2207
498		-2.4779
499		-1.1306
500		-0.81755
501		-0.73548
502		-0.93870
503		-0.79293
504		-0.55049
593		-2.4380
594		-0.71215
595		-1.1430

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	A	B	C		
596	:	:	-1.1924	*	I
597	:	:	-0.89499	*	I
598	:	:	-0.53121	*	I
599	:	:	-0.96494	*	I
600	:	:	-1.3986	*	I
601	:	:	-1.2324	*	I
602	:	:	-1.1321	*	I
603	:	:	-1.0063	*	I
604	:	:	-0.96330	*	I
605	:	:	1.4657		I
606	:	:	1.0147		I
607	:	:	0.54614		I
608	:	:	0.25081		I
609	:	:	-0.22082	*	I
610	:	:	-0.26326	*	I
611	:	:	-0.14817	*	I
612	:	:	-0.19254	*	I
613	:	:	-0.31451	*	I
614	:	:	-0.55289	*	I
615	:	:	-0.64737	*	I
616	:	:	-0.48520	*	I
617	:	:	-0.51469	*	I
618	:	:	-0.57865	*	I
619	:	:	-0.52361	*	I
620	:	:	-1.1129	*	I
621	:	:	-0.80703	*	I
622	:	:	-0.33740	*	I
623	:	:	-0.22255	*	I
624	:	:	-0.30940	*	I
625	:	:	2.3556		I
626	:	:	-0.80083E-01	*	I
627	:	:	-0.20685	*	I
628	:	:	-0.85527	*	I
629	:	:	-0.87897	*	I
630	:	:	-0.62619	*	I
631	:	:	-0.79767	*	I
632	:	:	-1.0134	*	I
633	:	:	-0.82842	*	I
634	:	:	-0.86793	*	I
635	:	:	-0.60864	*	I
636	:	:	-0.65301	*	I
637	:	:	-0.76774	*	I
638	:	:	-0.66199	*	I
639	:	:	-0.36356	*	I
640	:	:	-0.84499	*	I
641	:	:	-0.72918	*	I
642	:	:	-0.95969	*	I
643	:	:	-1.0865	*	I
644	:	:	-0.87272	*	I
645	:	:	-0.62667	*	I
646	:	:	-0.69230	*	I
647	:	:	-1.6101	*	I
648	:	:	0.31012		I

DURBIN-WATSON = 0.8516 VON NEUMANN RATIO = 0.8547 RHO = 0.51566

RESIDUAL SUM = -54.322 RESIDUAL VARIANCE = 0.73074

SUM OF ABSOLUTE ERRORS = 180.18

R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.9998

RUNS TEST: 48 RUNS, 110 POSITIVE, 170 NEGATIVE, NORMAL STATISTIC = -10.8666

|_STOP

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Analysis: Florida Refund

The following statistical analysis shows the 1992 impact of the refunds associated with Florida's Inside Wire and the publicity that surrounded it. Assumed to occur in August 1992, the impact of the refund led to approximately 9,000 SEQ1X plans being dropped. This includes both the residential and business sectors. In other words, if the refunds and publicity surrounding the plans had not occurred, the model predicted that the number of plans In-service in August of 1992 would have been 2,002,448 instead of 1,993,400 - a loss of less than one half of one percent of the existing base. The result is statistically significant and was measured by the inclusion of what are called intercept binaries into the forecast equation. The statistical output associated with the regression follows.

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|_* FLORIDA:

|_AUTO SEQ ANDREW8 ANDREW9 TLINES SEQR ALMR WMO &
/LIST RS BEG=10 END=74 DROP

REQUIRED MEMORY IS PAR= 203 CURRENT PAR= 5555

DEPENDENT VARIABLE = SEQ

..NOTE..R-SQUARE,ANOVA,RESIDUALS DONE ON ORIGINAL VARS

LEAST SQUARES ESTIMATION 64 OBSERVATIONS
BY COCHRANE-ORCUTT TYPE PROCEDURE WITH CONVERGENCE = 0.00100

ITERATION	RHO	LOG L.F.	SSE
1	0.00000	-745.558	0.49226E+11
2	0.89275	-673.486	0.51767E+10
3	0.98534	-661.603	0.35710E+10
4	0.98192	-660.357	0.34346E+10
5	0.97918	-658.615	0.32526E+10
6	0.97680	-656.414	0.30364E+10
7	0.97469	-653.870	0.28044E+10
8	0.97282	-651.166	0.25771E+10
9	0.97117	-648.511	0.23720E+10
10	0.96973	-646.091	0.21992E+10
11	0.96847	-644.028	0.20619E+10
12	0.96739	-642.368	0.19576E+10
13	0.96646	-641.096	0.18814E+10

LOG L.F. = -641.096 AT RHO = 0.96646

	ASYMPTOTIC ESTIMATE	ASYMPTOTIC VARIANCE	ASYMPTOTIC ST.ERROR	ASYMPTOTIC T-RATIO
RHO	0.96646	0.00103	0.03210	30.10789

R-SQUARE = 0.9999 R-SQUARE ADJUSTED = 0.9999
 VARIANCE OF THE ESTIMATE-SIGMA**2 = 0.33006E+08
 STANDARD ERROR OF THE ESTIMATE-SIGMA = 5745.1
 SUM OF SQUARED ERRORS-SSE= 0.18814E+10
 MEAN OF DEPENDENT VARIABLE = 0.14098E+07
 LOG OF THE LIKELIHOOD FUNCTION = -641.096

VARIABLE NAME	A	B	C	D	E	F
	ESTIMATED COEFFICIENT	STANDARD ERROR	T-RATIO	PARTIAL CORR.	STANDARDIZED COEFFICIENT	ELASTICITY AT MEANS

35	ANDREW8		-1.8826	-0.2420
	ANDREW9		-1.8565	-0.2388
	TLINES	1	2.7283	0.3399
	SEQR		0.16058	0.0213
	ALMR		-0.91310	-0.1201
	WMO		-0.66262	-0.0874
41	CONSTANT		5.2243	0.5690
	OBS. NO.	OBSERVED VALUE	PREDICTED VALUE	CALCULATED RESIDUAL
47	11			3234.4
	12			6694.8
	13			-1939.7
	14			-2953.0
	15			-526.29
49	16			-6377.3

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	A	B	C
17			-4874.7
18			7078.3
19			-1125.7
20			6264.3
21			-517.69
22			-1979.3
23			-3156.4
24			-5511.4
25			871.94
26			5384.8
27			7136.1
28			2374.9
29			294.01
30			5237.3
31			541.63
32			9667.2
33			2048.2
34			5146.0
35			8069.4
36			4981.5
37			9075.1
38			4923.8
39			6279.8
40			-2720.1
41			1067.5
42			3618.6
43			-4007.6
44			7635.5
45			2312.2
46			5290.4
47			-14088.
48			-1234.9
49			3349.2
50			1199.1
51			1026.6
52			-8528.7
53			-3141.6
54			-2452.8
55			-3953.2
56			1329.0
57			-5366.7
58			-273.06
59			953.75
60			-776.77
61			8574.6
62			7136.9
63			948.68
64			-1284.0
65			-3270.7
66			-4622.1
67			-13641.
68			-9143.9
69			-9461.1
70			-9789.4
71			-2960.9
72			-3941.7
73			-4269.8
74			-1855.6

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DURBIN-WATSON = 1.1755 VON NEUMANN RATIO = 1.1942 RHO = 0.40930

RESIDUAL SUM = -0.34051E-08 RESIDUAL VARIANCE = 0.33006E+08
 SUM OF ABSOLUTE ERRORS= 0.27949E+06
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.9999
 RUNS TEST: 20 RUNS, 32 POSITIVE, 32 NEGATIVE, NORMAL STATISTIC = -3.2761

|_FC /BEG=74 END=144 BLUP PREDICT=PREDF MODEL=AUTO ESTEND=74

REQUIRED MEMORY IS PAR= 203 CURRENT PAR= 5555
 ..ASSUMING ESTIMATION ENDED AT OBSERVATION 74
 DEPENDENT VARIABLE = SEQ 71 OBSERVATIONS
 REGRESSION COEFFICIENTS

10

AUTOCORRELATION RHO
 0.9664644911435
 USER SPECIFIED RHO= 0.96646
 USER SPECIFIED SRHO= 0.00000
 ..FORECAST STD. ERRORS USE JUDGE(1985, EQ. 8.3.13)
 IGNORE FORECASTS AND STD. ERRORS BEFORE OBS. 75

BLUP IS ACTIVE - PREDICTED VALUES ADJUSTED WITH LAGGED RESIDUALS
 SUM OF ABSOLUTE ERRORS= 0.16584E+09
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.0030
 MEAN ERROR = -0.23358E+07
 SUM-SQUARED ERRORS = 0.39330E+15
 MEAN SQUARE ERROR = 0.55394E+13
 MEAN ABSOLUTE ERROR= 0.23358E+07
 ROOT MEAN SQUARE ERROR = 0.23536E+07
 THEIL INEQUALITY COEFFICIENT U = 9.638

DECOMPOSITION
 PROPORTION DUE TO BIAS = 0.98492
 PROPORTION DUE TO VARIANCE = 0.17311E-02
 PROPORTION DUE TO COVARIANCE = 0.13348E-01

DECOMPOSITION
 PROPORTION DUE TO BIAS = 0.98492
 PROPORTION DUE TO REGRESSION = 0.44983E-02
 PROPORTION DUE TO DISTURBANCE = 0.10581E-01

|_PRINT STATE MO YR PREDF /BEG=74 END=144 D PREDF

	A STATE	B MO	C YR
36	2.000000	2.000000	93.00000
	2.000000	3.000000	93.00000
	2.000000	4.000000	93.00000
	2.000000	5.000000	93.00000
	2.000000	6.000000	93.00000
	2.000000	7.000000	93.00000
	2.000000	8.000000	93.00000
	2.000000	9.000000	93.00000
	2.000000	10.00000	93.00000
	2.000000	11.00000	93.00000
	2.000000	12.00000	93.00000
	2.000000	1.000000	94.00000
	2.000000	2.000000	94.00000
	2.000000	3.000000	94.00000
	2.000000	4.000000	94.00000
	2.000000	5.000000	94.00000
	2.000000	6.000000	94.00000
	2.000000	7.000000	94.00000
	2.000000	8.000000	94.00000
	2.000000	9.000000	94.00000
	2.000000	10.00000	94.00000
57	2.000000	11.00000	94.00000

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A	B	C	D
2.000000	12.00000	94.00000	
2.000000	1.000000	95.00000	
2.000000	2.000000	95.00000	
2.000000	3.000000	95.00000	
2.000000	4.000000	95.00000	
2.000000	5.000000	95.00000	
2.000000	6.000000	95.00000	
2.000000	7.000000	95.00000	
2.000000	8.000000	95.00000	
2.000000	9.000000	95.00000	
2.000000	10.00000	95.00000	
2.000000	11.00000	95.00000	
2.000000	12.00000	95.00000	
2.000000	1.000000	96.00000	
2.000000	2.000000	96.00000	
2.000000	3.000000	96.00000	
2.000000	4.000000	96.00000	
2.000000	5.000000	96.00000	
2.000000	6.000000	96.00000	
2.000000	7.000000	96.00000	
2.000000	8.000000	96.00000	
2.000000	9.000000	96.00000	
2.000000	10.00000	96.00000	
2.000000	11.00000	96.00000	
2.000000	12.00000	97.00000	
2.000000	1.000000	97.00000	
2.000000	2.000000	97.00000	
2.000000	3.000000	97.00000	
2.000000	4.000000	97.00000	
2.000000	5.000000	97.00000	
2.000000	6.000000	97.00000	
2.000000	7.000000	97.00000	
2.000000	8.000000	97.00000	
2.000000	9.000000	97.00000	
2.000000	10.00000	97.00000	
2.000000	11.00000	97.00000	
2.000000	12.00000	97.00000	
2.000000	1.000000	98.00000	
2.000000	2.000000	98.00000	
2.000000	3.000000	98.00000	
2.000000	4.000000	98.00000	
2.000000	5.000000	98.00000	
2.000000	6.000000	98.00000	
2.000000	7.000000	98.00000	
2.000000	8.000000	98.00000	
2.000000	9.000000	98.00000	
2.000000	10.00000	98.00000	
2.000000	11.00000	98.00000	
2.000000	12.00000	98.00000	

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INSIDE WIRE - NON RECURRING DATA FILES

Directory of a:\ISW-NON\

.		<DIR>	08-31-93	1:29p
..		<DIR>	08-31-93	1:29p
SB	BAT	2771	07-19-91	3:32p
SCB	BAT	3560	07-15-91	2:37p
SHZSB	PRN	13680	07-19-91	9:19a
SHZSCB	PRN	19635	07-19-91	8:04a
DATADef	TXT	1309	08-31-93	12:19p

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DOCUMENT NUMBER-DATE

10285 SEP 23 88

FPSC-RECORDS/REPORTING

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0000192

BellSouth Services PRICING & ECONOMICS

DEMAND ANALYSIS: NON-RECURRING INSIDE WIRE



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11/5/91 jsm
Demand Analysis

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NON-RECURRING

INSIDE WIRE

INSTALLATION & MAINTENANCE

SUMMARY & INTRODUCTION

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11/5/91
Jeffrey Morrison

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INSIDE WIRE: INSTALLATION AND MAINTENANCE CHARGES

Introduction:

The purpose of this study was in response to a March 7, 1991 letter from Ron Pardue of Pricing and Economics requesting a base and test rate forecast for Inside Wire non-recurring charges. In order to develop forecasts of this nature, it was necessary to construct an econometric model to determine how subscribers have responded to changes in the non-recurring rate. Forecasts under various test rates will be developed as soon as the proposed prices are received.

In Southern Bell, installation charges for inside wire are flat rated. The charges examined in this study consist of the following USOC's- PWT, SCO, and VCA. In addition, maintenance charges were also examined on a time and material basis. Historical data (January 1989 - December 1990) was collected from the Southern Bell "Non-recurring Charge Summary Report" by the following line items...

Prewire (PWT) - first installation	line 54
Prewire (PWT) - add'l installation	line 55
Jack (SCO) - first installation	line 56
Jack (SCO) - add'l installation	line 57
Exposed (VCA) - first installation	line 58
Exposed (VCA) - add'l installation	line 59
Premise Work - maint & installation (15 minutes)	line 61
Premise Work - add'l I&M (15 minutes)	line 62

South Central Bell also has flat rated installation charges. The data for the South Central states was collected from a different source than the Southern Bell data. Extracts were available for the period January 1987 - February 1991 from the Stat Master File for the following RIC codes...

Prewire (PWT) - first installation	RIC = 700
Prewire (PWT) - add'l installation	RIC = 703

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1
Summary of Results and Methodology:

2 The price elasticity of the aggregate market was found to be
3 This is much higher than the elasticity found for the recurring
component of inside wire - the monthly maintenance plans. However, this
measure is still in the inelastic range.

Two econometric models were constructed in this study - both
using "derived demand" as the dependent variable. Derived demand simply
refers to taking the revenue associated with non-recurring charges and
dividing them by the tariffed rate. The first model was developed with
South Central Bell data and was used to estimate an elasticity measure.
The South Central analysis covered the August 1987 to February 1991 time
frame. The second model used Southern Bell data from January 1988 to
February 1991, but did not attempt to describe price relationships.
Both models were estimated using a double log transformation.

The Southern Bell model pooled state specific data over the
historical period and specified demand as a function of the log of
price, the log of real income, two outlier binaries for observation #31
and #66, monthly seasonal intercepts, state specific intercepts. Also
included was a binary for the state of Alabama if the observation came
after December 1989. Estimated by the econometric package SHAZAM, the
autocorrelation and heteroscedasticity options were used. Rho was
allowed to vary between states equating to a composite autocorrelation
correction of .60. The t-statistic for the price variable was extremely
significant (-14.5), indicating a great deal of precision in the
estimate. The other driving variable, income, was also found
significant with a t-statistic of 14. The Durbin-Watson statistic was
adequate at 2.2. This equation was used to forecast base level demand at
current rates.

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Jack (SCO) - first installation	RIC = 701
Jack (SCO) - add'l installation	RIC = 704
Exposed (VCA) - first installation	RIC = 702
Exposed (VCA) - add'l installation	RIC = 705
Premise Work - first installation (15 minutes)	RIC = 800
Premise Work - add'l install. (15 minutes)	RIC = 801
Premise Work - first maintenance (15 minutes)	RIC = 846
Premise Work - add'l maintenance (15 minutes)	RIC = 847

Both Southern and South Central Bell had experienced rate changes to these inside wire charges since 1987. For South Central Bell, these changes occurred in January 1988 and August of 1989. Southern Bell had price changes in 1987 and 1988. Unfortunately, the only records for Southern Bell before January 1989 were destroyed by a flood in the records room at Southern Bell Center last year. Therefore, this study does not use Southern Bell data to determine a price elasticity for Inside Wire non-recurring charges. The price responsiveness measure represents the aggregate impact of rate changes in the residential and business markets.

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The Southern Bell model specified demand as a function of seasonal intercepts, state specific intercepts and time trends specific to each cross section. Although real income was initially used to explain the trend component in the series, the short time frame precluded its significance in the equation. In fact, even some of the time trends proved insignificant - implying that the level of non-recurring charges in Southern Bell are remaining relatively constant. Like the South Central Bell model, the Southern Bell model used a pooling technique allowing state specific autocorrelation corrections as well as a heteroscedasticity adjustment. The Durbin-Watson was a little low at 1.7, but still adequate. Again, no price variable was included in the equation since there was no price change over the historical period. The equation was used only to forecast base case demand. The following pages show the results of the statistical estimation along with a series of graphs depicting historical demand, forecasts, prices over time.

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Date: March 7, 1991
To: Jeff Morrison
From: Ron Pardue
Subject: IW Nonrecurring Rates

As we discussed recently, the Basic Inside Wire nonrecurring rates will be reviewed this year to determine if the rates are at the optimum level.

In the past, fully distributed costs were used as the pricing floor for nonrecurring rates. In the next few months a new cost study will be completed which will be based on incremental costs. Since these costs will be lower, there will be more pricing flexibility. Your demand analyses will be the primary tool in determining the new rates.

The current nonrecurring rate structure has flat rates for the more common type work functions and time sensitive charges (premises work charges) for unusual situations requiring extraordinary time.

In the real world, these charges are not always applied in the intended manner. Because of inconsistencies in charging, one state has proposed to eliminate Flat Rate while another state has proposed to eliminate Premises Work Charges. The Product Team will resolve this issue.

Whether the rate structure is changed or not, historical data will be required on the existing rate structure. If you could begin collecting this historical data it could possibly help us in determining the correct rate structure.

Attached are the current nonrecurring rates. Also attached is a historical list of rates since 1/1/87.

After reviewing this, please let me know when you can provide this historical data.



cc: Bill Freeman
Jeff Salyer

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COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

F01B25Z

0000199

NON-RECURRING

INSIDE WIRE

FORECASTS

PROPRIETARY

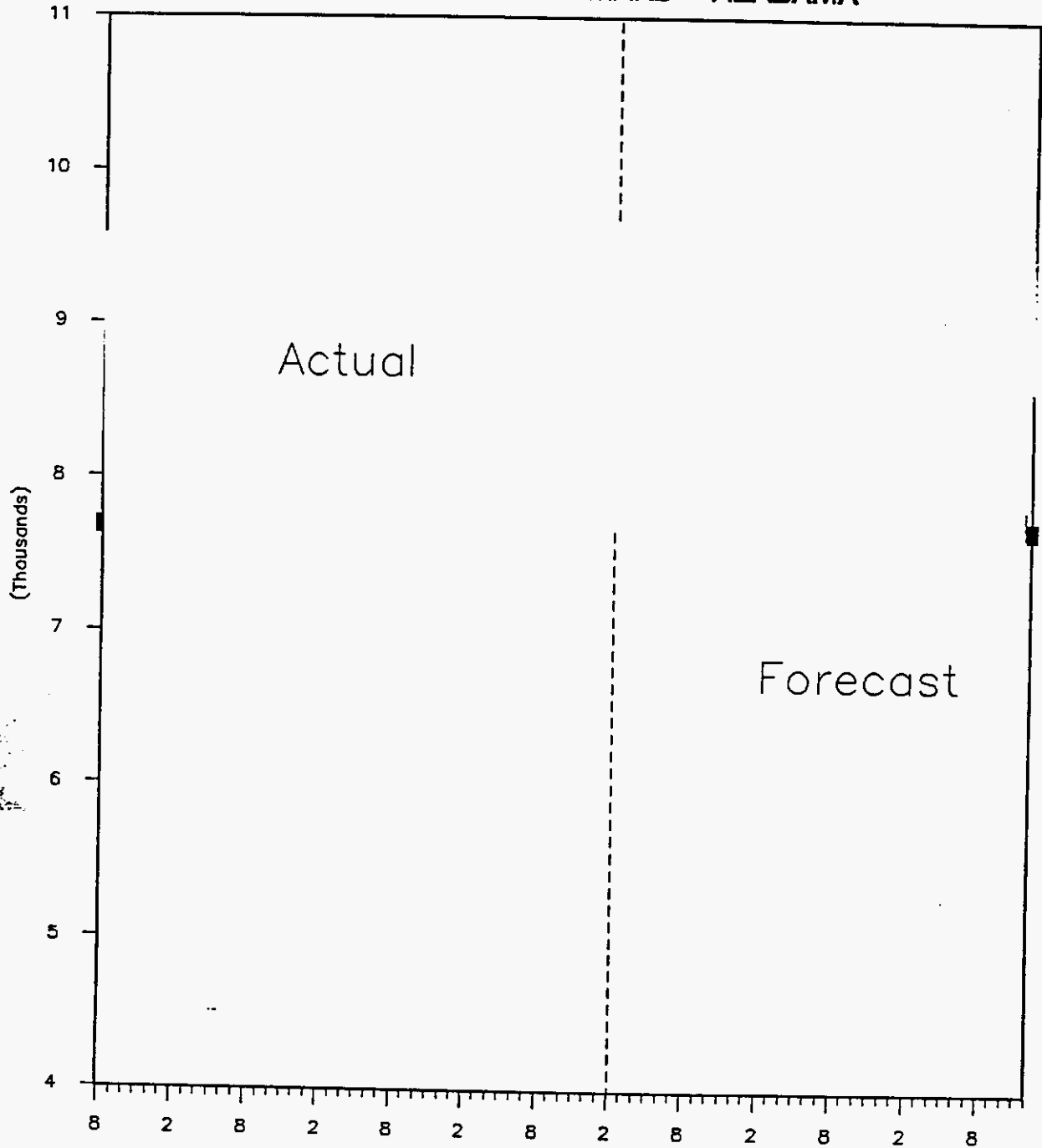
NOT FOR USE OR DISCLOSURE OUTSIDE OF
SHELLSOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER A WRITTEN AGREEMENT

F01B25Z

0000200

INSIDE WIRE INSTALLATION & MAINTENANCE

BASE FORECAST DEMAND - ALABAMA



AUGUST 1987-DECEMBER 1993 (8/87-12/93)

PROPRIETARY

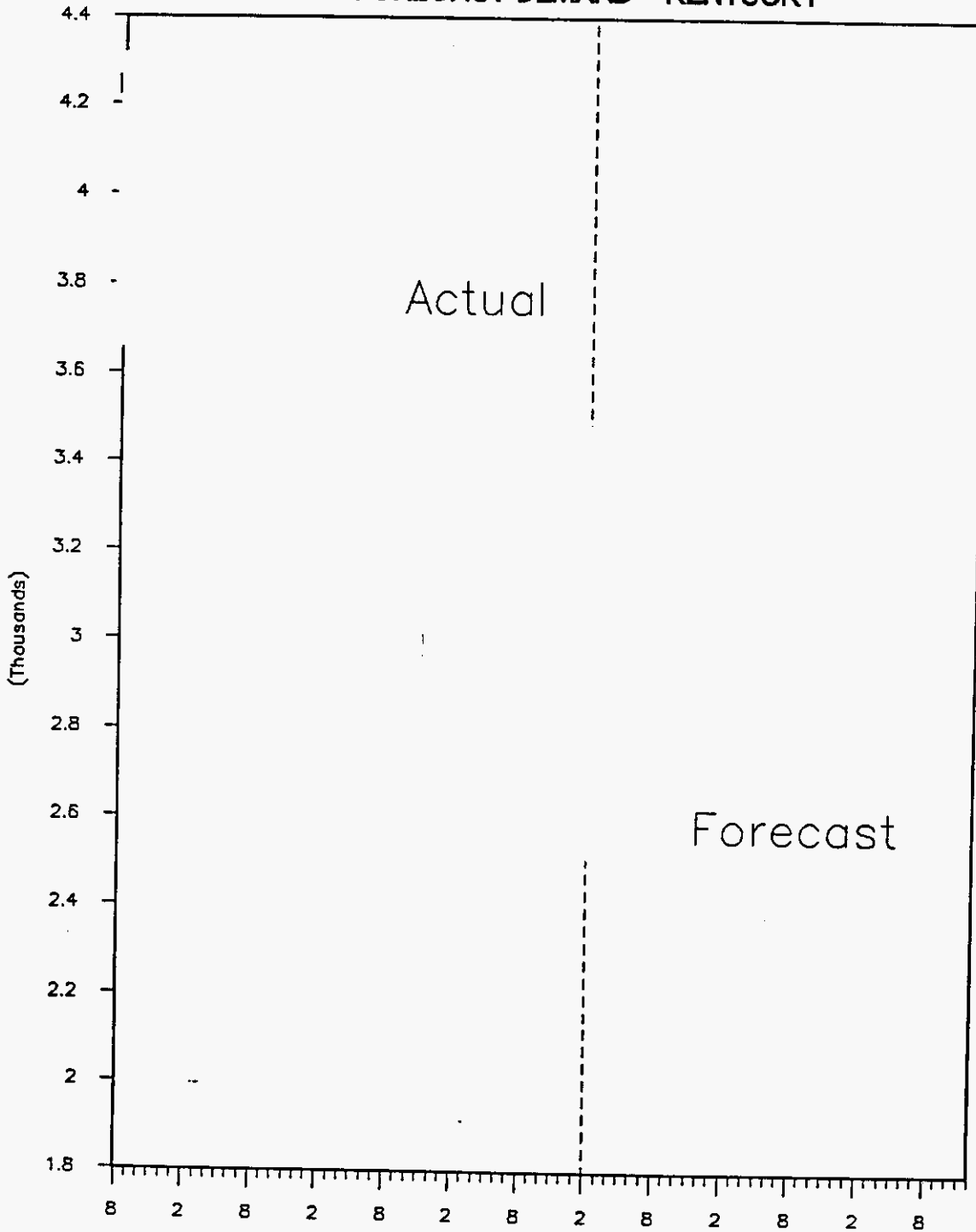
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COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

F01B252

0000201

INSIDE WIRE INSTALLATION & MAINTENANCE

BASE FORECAST DEMAND - KENTUCKY



AUGUST 1987-DECEMBER 1993 (8/87-12/93)

PROPRIETARY

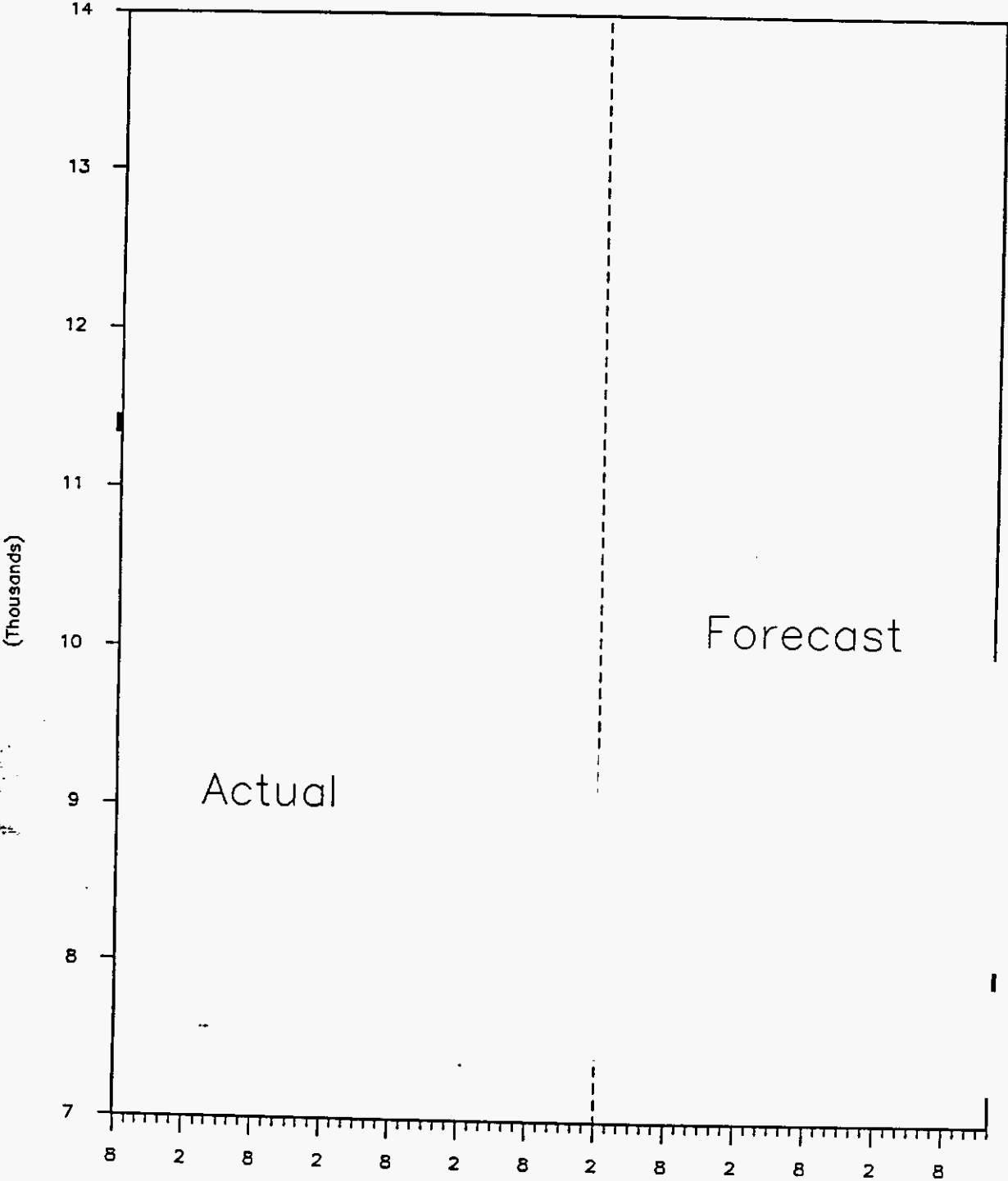
NOT FOR USE OR DISCLOSURE OUTSIDE OF
BELLSOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

F015252

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INSIDE WIRE INSTALLATION & MAINTENANCE

BASE FORECAST DEMAND - LOUISIANA



AUGUST 1987-DECEMBER 1993 (8/87-12/93)

PROPRIETARY

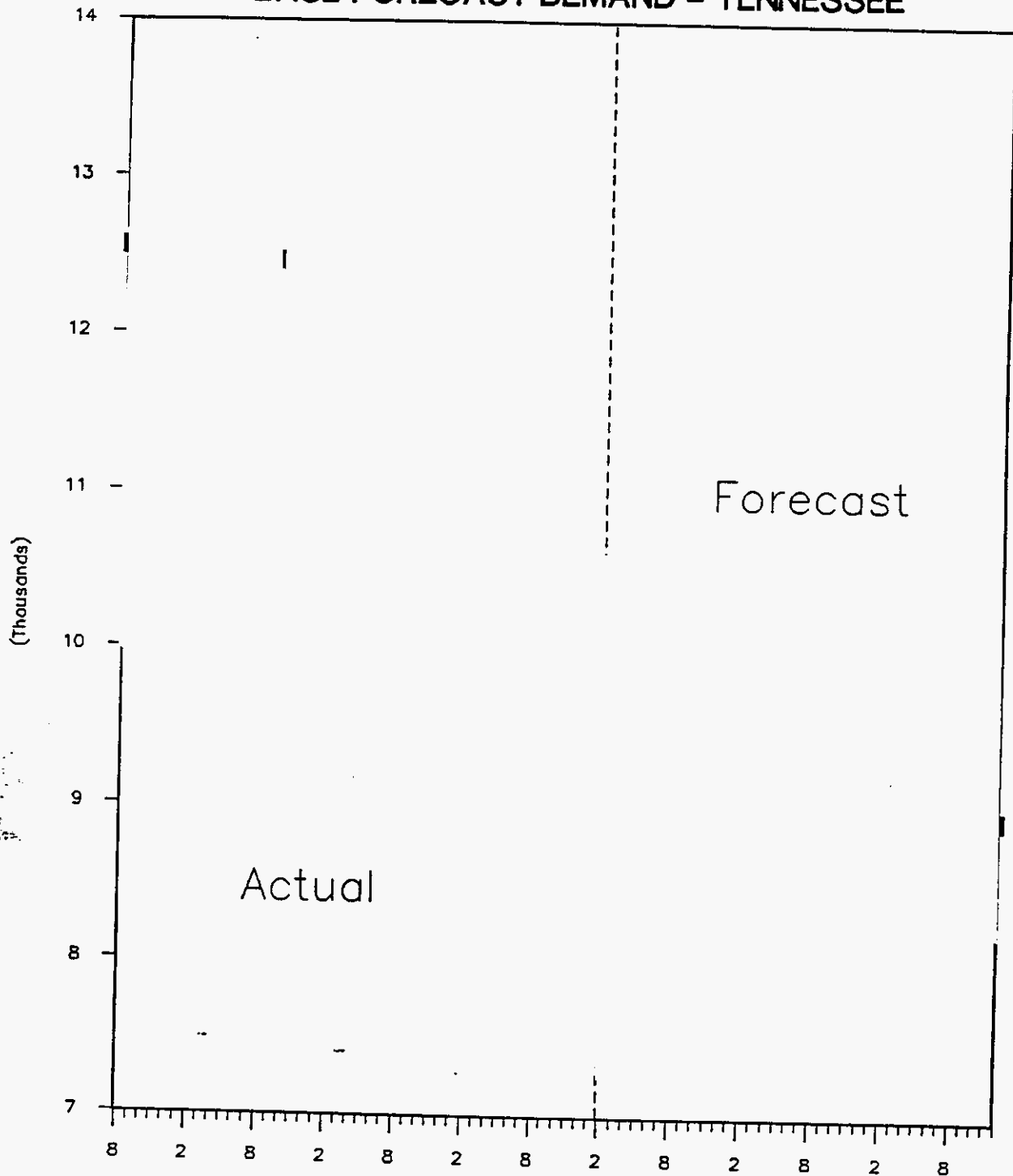
NOT FOR USE OR DISCLOSURE OUTSIDE OF
BELLSOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN ASSIGNMENT

F 01625Z

0000203

INSIDE WIRE INSTALLATION & MAINTENANCE

BASE FORECAST DEMAND - TENNESSEE



AUGUST 1987-DECEMBER 1993 (8/87-12/93)

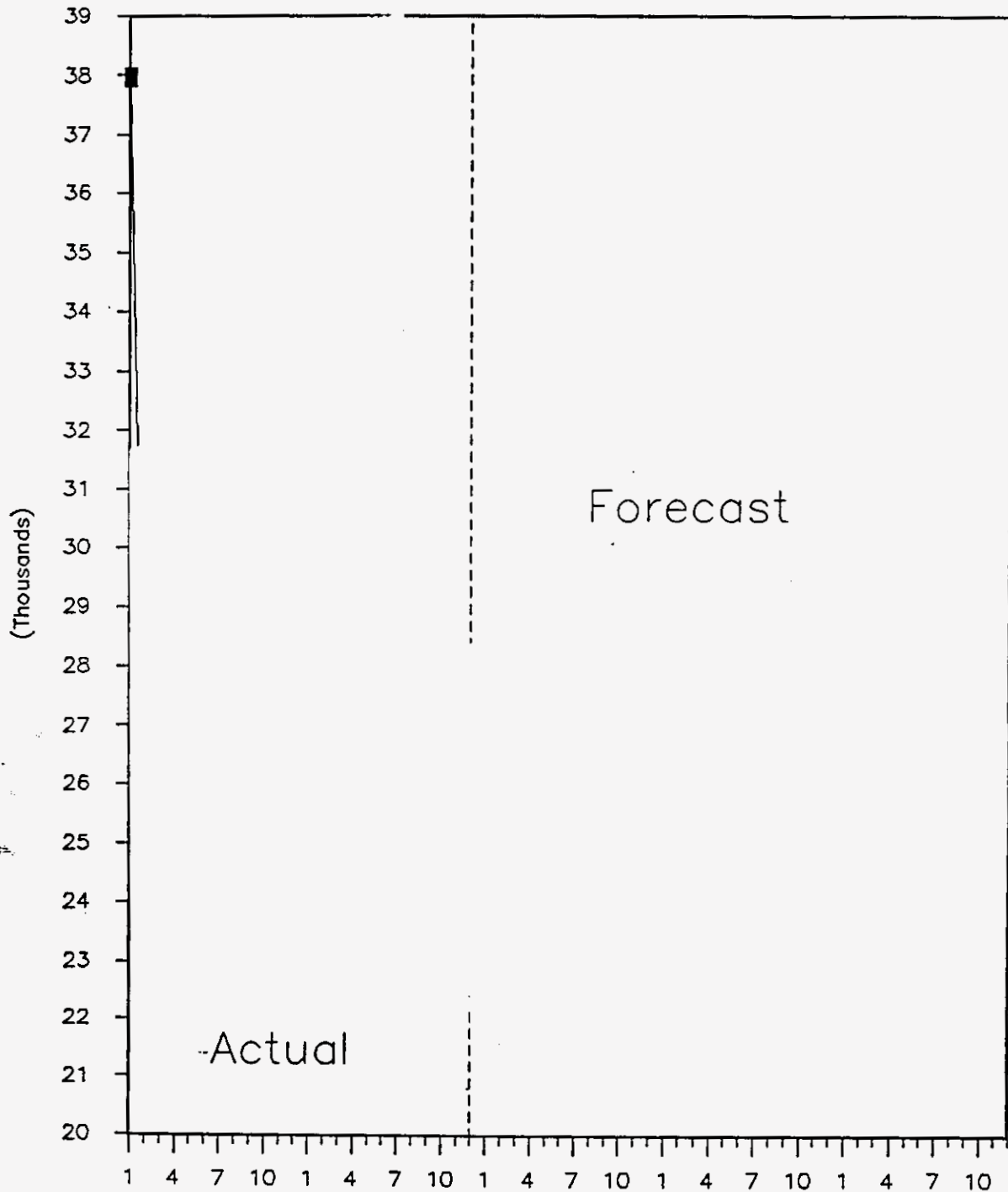
PROPRIETARY

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BELLSOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

F01B25Z

0000205

INSIDE WIRE INSTALLATION & MAINTENANCE BASE FORECAST DEMAND - FLORIDA



JANUARY 1989 - DECEMBER 1993

PROPRIETARY

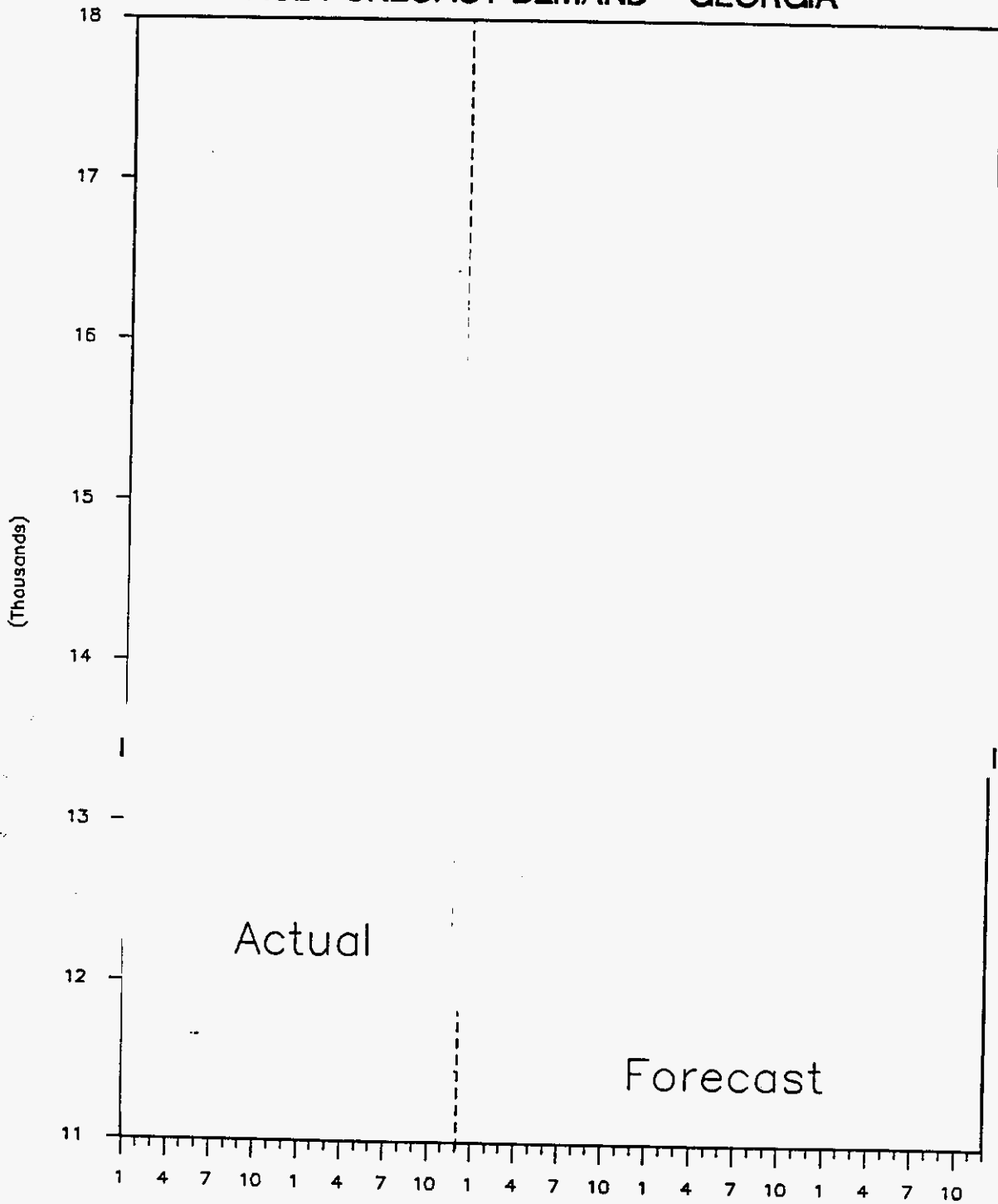
NOT FOR USE OR DISCLOSURE OUTSIDE OF
BELL SOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

FOI B252

0000206

INSIDE WIRE INSTALLATION & MAINTENANCE

BASE FORECAST DEMAND - GEORGIA



JANUARY 1989 - DECEMBER 1993

PROPRIETARY

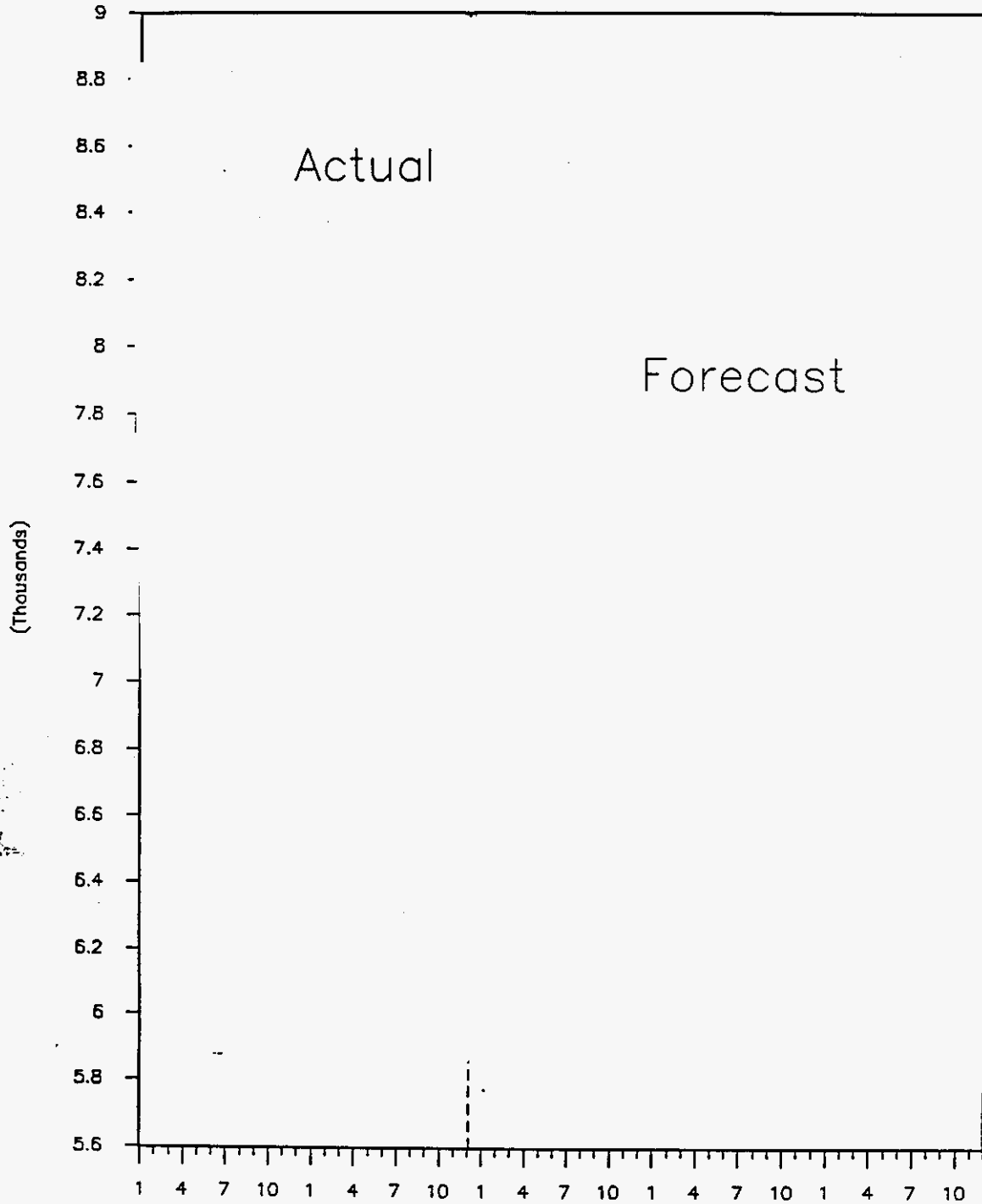
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BELL SOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

F018257

0000207

INSIDE WIRE INSTALLATION & MAINTENANCE

BASE FORECAST DEMAND - NORTH CAROLINA



JANUARY 1989 - DECEMBER 1993

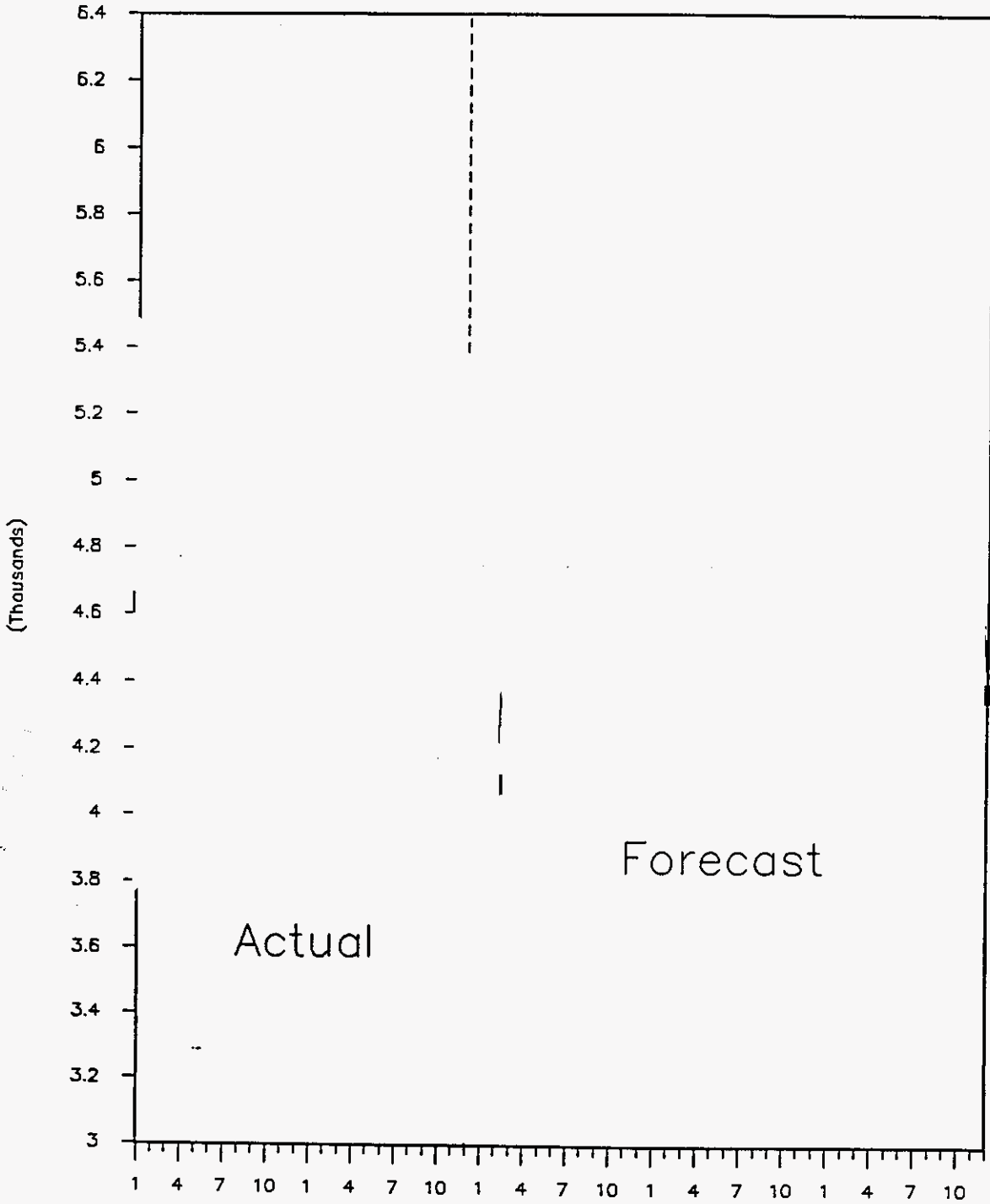
PROPRIETARY

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BELLSOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

FOIB25Z

0000208

INSIDE WIRE INSTALLATION & MAINTENANCE BASE FORECAST DEMAND - SOUTH CAROLINA



JANUARY 1989 - DECEMBER 1993
PROPRIETARY

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BELLSOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT
1015252 0000209

INSIDE WIRE INSTALLATION AND MAINTENANCE MODEL - SCB

A	B	C	D	E
PRINT OBS MONTH YEAR ALD ALREV				
OBS	MONTH	YEAR	ALD	ALREV
216.0000	3.000000	91.00000		
217.0000	4.000000	91.00000		
218.0000	5.000000	91.00000		
219.0000	6.000000	91.00000		
220.0000	7.000000	91.00000		
221.0000	8.000000	91.00000		
222.0000	9.000000	91.00000		
223.0000	10.00000	91.00000		
224.0000	11.00000	91.00000		
225.0000	12.00000	91.00000		
226.0000	1.000000	92.00000		
227.0000	2.000000	92.00000		
228.0000	3.000000	92.00000		
229.0000	4.000000	92.00000		
230.0000	5.000000	92.00000		
231.0000	6.000000	92.00000		
232.0000	7.000000	92.00000		
233.0000	8.000000	92.00000		
234.0000	9.000000	92.00000		
235.0000	10.00000	92.00000		
236.0000	11.00000	92.00000		
237.0000	12.00000	92.00000		
238.0000	1.000000	93.00000		
239.0000	2.000000	93.00000		
240.0000	3.000000	93.00000		
241.0000	4.000000	93.00000		
242.0000	5.000000	93.00000		
243.0000	6.000000	93.00000		
244.0000	7.000000	93.00000		
245.0000	8.000000	93.00000		
246.0000	9.000000	93.00000		
247.0000	10.00000	93.00000		
248.0000	11.00000	93.00000		
249.0000	12.00000	93.00000		

|_SMPL 250 283

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 COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

INSIDE WIRE INSTALLATION AND MAINTENANCE MODEL - SCB

A B C D E
 |_PRINT OBS MONTH YEAR KYD KYREV

OBS	MONTH	YEAR	KYD	KYREV
250.0000	3.000000	91.00000		
251.0000	4.000000	91.00000		
252.0000	5.000000	91.00000		
253.0000	6.000000	91.00000		
254.0000	7.000000	91.00000		
255.0000	8.000000	91.00000		
256.0000	9.000000	91.00000		
257.0000	10.00000	91.00000		
258.0000	11.00000	91.00000		
259.0000	12.00000	91.00000		
260.0000	1.000000	92.00000		
261.0000	2.000000	92.00000		
262.0000	3.000000	92.00000		
263.0000	4.000000	92.00000		
264.0000	5.000000	92.00000		
265.0000	6.000000	92.00000		
266.0000	7.000000	92.00000		
267.0000	8.000000	92.00000		
268.0000	9.000000	92.00000		
269.0000	10.00000	92.00000		
270.0000	11.00000	92.00000		
271.0000	12.00000	92.00000		
272.0000	1.000000	93.00000		
273.0000	2.000000	93.00000		
274.0000	3.000000	93.00000		
275.0000	4.000000	93.00000		
276.0000	5.000000	93.00000		
277.0000	6.000000	93.00000		
278.0000	7.000000	93.00000		
279.0000	8.000000	93.00000		
280.0000	9.000000	93.00000		
281.0000	10.00000	93.00000		
282.0000	11.00000	93.00000		
283.0000	12.00000	93.00000		

|_SMPL 284 317

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 COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

INSIDE WIRE INSTALLATION AND MAINTENANCE MODEL - SCB

A	B	C	D	E
PRINT OBS	MONTH	YEAR	LAD	LAREV
OBS	MONTH	YEAR	LAD	LAREV
284.0000	3.000000	91.00000		
285.0000	4.000000	91.00000		
286.0000	5.000000	91.00000		
287.0000	6.000000	91.00000		
288.0000	7.000000	91.00000		
289.0000	8.000000	91.00000		
290.0000	9.000000	91.00000		
291.0000	10.00000	91.00000		
292.0000	11.00000	91.00000		
293.0000	12.00000	91.00000		
294.0000	1.000000	92.00000		
295.0000	2.000000	92.00000		
296.0000	3.000000	92.00000		
297.0000	4.000000	92.00000		
298.0000	5.000000	92.00000		
299.0000	6.000000	92.00000		
300.0000	7.000000	92.00000		
301.0000	8.000000	92.00000		
302.0000	9.000000	92.00000		
303.0000	10.00000	92.00000		
304.0000	11.00000	92.00000		
305.0000	12.00000	92.00000		
306.0000	1.000000	93.00000		
307.0000	2.000000	93.00000		
308.0000	3.000000	93.00000		
309.0000	4.000000	93.00000		
310.0000	5.000000	93.00000		
311.0000	6.000000	93.00000		
312.0000	7.000000	93.00000		
313.0000	8.000000	93.00000		
314.0000	9.000000	93.00000		
315.0000	10.00000	93.00000		
316.0000	11.00000	93.00000		
317.0000	12.00000	93.00000		

|_SMPL 318 351

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 COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

INSIDE WIRE INSTALLATION AND MAINTENANCE MODEL - SCB

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>
PRINT OBS	MONTH	YEAR	MSD	MSREV
OBS	MONTH	YEAR	MSD	MSREV
318.0000	3.000000	91.00000		
319.0000	4.000000	91.00000		
320.0000	5.000000	91.00000		
321.0000	6.000000	91.00000		
322.0000	7.000000	91.00000		
323.0000	8.000000	91.00000		
324.0000	9.000000	91.00000		
325.0000	10.000000	91.00000		
326.0000	11.000000	91.00000		
327.0000	12.000000	91.00000		
328.0000	1.000000	92.00000		
329.0000	2.000000	92.00000		
330.0000	3.000000	92.00000		
331.0000	4.000000	92.00000		
332.0000	5.000000	92.00000		
333.0000	6.000000	92.00000		
334.0000	7.000000	92.00000		
335.0000	8.000000	92.00000		
336.0000	9.000000	92.00000		
337.0000	10.000000	92.00000		
338.0000	11.000000	92.00000		
339.0000	12.000000	92.00000		
340.0000	1.000000	93.00000		
341.0000	2.000000	93.00000		
342.0000	3.000000	93.00000		
343.0000	4.000000	93.00000		
344.0000	5.000000	93.00000		
345.0000	6.000000	93.00000		
346.0000	7.000000	93.00000		
347.0000	8.000000	93.00000		
348.0000	9.000000	93.00000		
349.0000	10.000000	93.00000		
350.0000	11.000000	93.00000		
351.0000	12.000000	93.00000		

SMPL 352 385

PROPRIETARY

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 COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

INSIDE WIRE INSTALLATION AND MAINTENANCE MODEL - SCB

A	B	C	D	E
PRINT OBS	MONTH	YEAR	TND	TNREV
OBS	MONTH	YEAR	TND	TNREV
352.0000	3.000000	91.00000		
353.0000	4.000000	91.00000		
354.0000	5.000000	91.00000		
355.0000	6.000000	91.00000		
356.0000	7.000000	91.00000		
357.0000	8.000000	91.00000		
358.0000	9.000000	91.00000		
359.0000	10.00000	91.00000		
360.0000	11.00000	91.00000		
361.0000	12.00000	91.00000		
362.0000	1.000000	92.00000		
363.0000	2.000000	92.00000		
364.0000	3.000000	92.00000		
365.0000	4.000000	92.00000		
366.0000	5.000000	92.00000		
367.0000	6.000000	92.00000		
368.0000	7.000000	92.00000		
369.0000	8.000000	92.00000		
370.0000	9.000000	92.00000		
371.0000	10.00000	92.00000		
372.0000	11.00000	92.00000		
373.0000	12.00000	92.00000		
374.0000	1.000000	93.00000		
375.0000	2.000000	93.00000		
376.0000	3.000000	93.00000		
377.0000	4.000000	93.00000		
378.0000	5.000000	93.00000		
379.0000	6.000000	93.00000		
380.0000	7.000000	93.00000		
381.0000	8.000000	93.00000		
382.0000	9.000000	93.00000		
383.0000	10.00000	93.00000		
384.0000	11.00000	93.00000		
385.0000	12.00000	93.00000		

PROPRIETARY

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 COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

A

B

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_SMPL 97 132

_PRINT OBS MONTH YEAR FLD FLREV

OBS	MONTH	YEAR	FLD	FLREV
97.00000	1.000000	1991.000		
98.00000	2.000000	1991.000		
99.00000	3.000000	1991.000		
100.00000	4.000000	1991.000		
101.00000	5.000000	1991.000		
102.00000	6.000000	1991.000		
103.00000	7.000000	1991.000		
104.00000	8.000000	1991.000		
105.00000	9.000000	1991.000		
106.00000	10.000000	1991.000		
107.00000	11.000000	1991.000		
108.00000	12.000000	1991.000		
109.00000	1.000000	1992.000		
110.00000	2.000000	1992.000		
111.00000	3.000000	1992.000		
112.00000	4.000000	1992.000		
113.00000	5.000000	1992.000		
114.00000	6.000000	1992.000		
115.00000	7.000000	1992.000		
116.00000	8.000000	1992.000		
117.00000	9.000000	1992.000		
118.00000	10.000000	1992.000		
119.00000	11.000000	1992.000		
120.00000	12.000000	1992.000		
121.00000	1.000000	1993.000		
122.00000	2.000000	1993.000		
123.00000	3.000000	1993.000		
124.00000	4.000000	1993.000		
125.00000	5.000000	1993.000		
126.00000	6.000000	1993.000		
127.00000	7.000000	1993.000		
128.00000	8.000000	1993.000		
129.00000	9.000000	1993.000		
130.00000	10.000000	1993.000		
131.00000	11.000000	1993.000		
132.00000	12.000000	1993.000		

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COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

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|_SMPL 133 168

|_PRINT OBS MONTH YEAR GAD GAREV

OBS	MONTH	YEAR	GAD	GAREV
133.0000	1.000000	1991.000		
134.0000	2.000000	1991.000		
135.0000	3.000000	1991.000		
136.0000	4.000000	1991.000		
137.0000	5.000000	1991.000		
138.0000	6.000000	1991.000		
139.0000	7.000000	1991.000		
140.0000	8.000000	1991.000		
141.0000	9.000000	1991.000		
142.0000	10.00000	1991.000		
143.0000	11.00000	1991.000		
144.0000	12.00000	1991.000		
145.0000	1.000000	1992.000		
146.0000	2.000000	1992.000		
147.0000	3.000000	1992.000		
148.0000	4.000000	1992.000		
149.0000	5.000000	1992.000		
150.0000	6.000000	1992.000		
151.0000	7.000000	1992.000		
152.0000	8.000000	1992.000		
153.0000	9.000000	1992.000		
154.0000	10.00000	1992.000		
155.0000	11.00000	1992.000		
156.0000	12.00000	1992.000		
157.0000	1.000000	1993.000		
158.0000	2.000000	1993.000		
159.0000	3.000000	1993.000		
160.0000	4.000000	1993.000		
161.0000	5.000000	1993.000		
162.0000	6.000000	1993.000		
163.0000	7.000000	1993.000		
164.0000	8.000000	1993.000		
165.0000	9.000000	1993.000		
166.0000	10.00000	1993.000		
167.0000	11.00000	1993.000		
168.0000	12.00000	1993.000		

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BELLSOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

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|_SMPL 169 204

|_PRINT OBS MONTH YEAR NCD NCREV

OBS	MONTH	YEAR	NCD	NCREV
169.0000	1.000000	1991.000		
170.0000	2.000000	1991.000		
171.0000	3.000000	1991.000		
172.0000	4.000000	1991.000		
173.0000	5.000000	1991.000		
174.0000	6.000000	1991.000		
175.0000	7.000000	1991.000		
176.0000	8.000000	1991.000		
177.0000	9.000000	1991.000		
178.0000	10.00000	1991.000		
179.0000	11.00000	1991.000		
180.0000	12.00000	1991.000		
181.0000	1.000000	1992.000		
182.0000	2.000000	1992.000		
183.0000	3.000000	1992.000		
184.0000	4.000000	1992.000		
185.0000	5.000000	1992.000		
186.0000	6.000000	1992.000		
187.0000	7.000000	1992.000		
188.0000	8.000000	1992.000		
189.0000	9.000000	1992.000		
190.0000	10.00000	1992.000		
191.0000	11.00000	1992.000		
192.0000	12.00000	1992.000		
193.0000	1.000000	1993.000		
194.0000	2.000000	1993.000		
195.0000	3.000000	1993.000		
196.0000	4.000000	1993.000		
197.0000	5.000000	1993.000		
198.0000	6.000000	1993.000		
199.0000	7.000000	1993.000		
200.0000	8.000000	1993.000		
201.0000	9.000000	1993.000		
202.0000	10.00000	1993.000		
203.0000	11.00000	1993.000		
204.0000	12.00000	1993.000		

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 COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

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_SMPL 205 240

_PRINT OBS MONTH YEAR SCD SCREV

OBS	MONTH	YEAR	SCD	SCREV
205.0000	1.000000	1991.000		
206.0000	2.000000	1991.000		
207.0000	3.000000	1991.000		
208.0000	4.000000	1991.000		
209.0000	5.000000	1991.000		
210.0000	6.000000	1991.000		
211.0000	7.000000	1991.000		
212.0000	8.000000	1991.000		
213.0000	9.000000	1991.000		
214.0000	10.000000	1991.000		
215.0000	11.000000	1991.000		
216.0000	12.000000	1991.000		
217.0000	1.000000	1992.000		
218.0000	2.000000	1992.000		
219.0000	3.000000	1992.000		
220.0000	4.000000	1992.000		
221.0000	5.000000	1992.000		
222.0000	6.000000	1992.000		
223.0000	7.000000	1992.000		
224.0000	8.000000	1992.000		
225.0000	9.000000	1992.000		
226.0000	10.000000	1992.000		
227.0000	11.000000	1992.000		
228.0000	12.000000	1992.000		
229.0000	1.000000	1993.000		
230.0000	2.000000	1993.000		
231.0000	3.000000	1993.000		
232.0000	4.000000	1993.000		
233.0000	5.000000	1993.000		
234.0000	6.000000	1993.000		
235.0000	7.000000	1993.000		
236.0000	8.000000	1993.000		
237.0000	9.000000	1993.000		
238.0000	10.000000	1993.000		
239.0000	11.000000	1993.000		
240.0000	12.000000	1993.000		

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F01B25Z

0000218

SOUTH CENTRAL BELL

MODEL

PROPRIETARY

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FOIR25Z

0000219

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```

```

Hello/Bonjour/Aloha/Howdy/G Day/Kia Ora/Konnichiwa
Welcome to SHAZAM - Version 6.2 - JUN 1990 SYSTEM=MS-DOS PAR= 170

```

```

|_* This is a forecasting model to project aggregate I&M revenues by
|_* looking at derived demand as a function of real income, seasonality,
|_* differential intercepts, and an aggregate rate. Because of the likelihood
|_* of recording errors between accounts, this aggregate approach was
|_* developed to forecast aggregate I&M revenue for a number of test rates.
|_* These test rates for individual accounts (RIC codes) would be translated
|_* into changes in the aggregate rate to forecast total demand units. By
|_* simply multiplying the total units by the aggregate price, revenue
|_* forecasts can be developed. Base case forecasts are developed by using
|_* forecasted levels of real income and assuming the aggregate price for
|_* each state would remain constant at 2/91 levels.
|_*
|_* -----
|_*

```

```

|_* FILE 4 INSTALL.PRN
UNIT 4 IS NOW ASSIGNED TO: INSTALL.PRN
|_* FILE 11 OUT.TXT
UNIT 11 IS NOW ASSIGNED TO: OUT.TXT
|_* READ(4) OBS STATE YEAR MONTH DEMAND PRICE RINCOME D1 D2 D3 D4 D5

```

```

...SAMPLE RANGE IS NOW SET TO:          1      385
|_* DIM ALD 400 KYD 400 LAD 400 MSD 400 TND 400
|_*
|_* -----

```

```

|_* _GENR LOGD=LOG(DEMAND)
|_* _GENR LOGP=LOG(PRICE)
|_* _GENR LOGRINC=LOG(RINCOME)
|_*
|_* -----
|_* _GENR PDAL=D1*LOGP
|_* _GENR PDKY=D2*LOGP
|_* _GENR PDLA=D3*LOGP
|_* _GENR PDMS=D4*LOGP
|_* _GENR ALDUM=0
|_* IF((STATE.EQ.1).AND.(OBS_GT.29))ALDUM=1
|_*
|_* -----
|_* _GENR ALF=0
|_* _GENR KYF=0
|_* _GENR LAF=0
|_* _GENR MSF=0
|_* _GENR TNF=0
|_* _GENR AUG=0
|_* _GENR SEP=0
|_* _GENR OCT=0

```

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 BELL SOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
 COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

INSIDE WIRE INSTALLATION AND MAINTENANCE MODEL - SCB

```
|_GENR NOV=0
|_GENR DEC=0
|_GENR JAN=0
|_GENR FEB=0
|_GENR MAR=0
|_GENR APR=0
|_GENR MAY=0
|_GENR JUN=0
|_IF(MONTH.EQ.8)AUG=1
|_IF(MONTH.EQ.9)SEP=1
|_IF(MONTH.EQ.10)OCT=1
|_IF(MONTH.EQ.11)NOV=1
|_IF(MONTH.EQ.12)DEC=1
|_IF(MONTH.EQ.1)JAN=1
|_IF(MONTH.EQ.2)FEB=1
|_IF(MONTH.EQ.3)MAR=1
|_IF(MONTH.EQ.4)APR=1
|_IF(MONTH.EQ.5)MAY=1
|_IF(MONTH.EQ.6)JUN=1
|_* -----
|_GENR DUM31=0
|_IF(OBS.EQ.31)DUM31=1
|_GENR DUM66=0
|_IF(OBS.EQ.66)DUM66=1
|_* --- adding real income, price, & diff interc. -- independent variables
|_* --- adding real state intercepts -- intercept binaries
|_* --- taking out observations # 31, 66 as outliers --- intercept binaries
|_* --- Alabama's demand shifts up after price increase - intercept binary
|_GENR DUM31=0
|_IF(OBS.EQ.31)DUM31=1
|_GENR DUM66=0
|_IF(OBS.EQ.66)DUM66=1
|_GENR ALDUM=0
|_IF((STATE.EQ.1).AND.(OBS.GT.29))ALDUM=1
|_* -----
```

PROPRIETARY

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FO1B25Z

0000221

INSIDE WIRE INSTALLATION AND MAINTENANCE MODEL - SCB

|_POOL LOGD LOGP LOGRINC DUM31 DUM66 AUG SEP OCT NOV DEC JAN FEB MAR &
 | APR MAY JUN D2 D3 ALDUM/ NCROSS=5 RS LIST BEG=1 END=215
 POOLED CROSS-SECTION TIME-SERIES ESTIMATION
 5 CROSS-SECTIONS AND 43 TIME-PERIODS
 215 TOTAL OBSERVATIONS
 DEPENDENT VARIABLE = LOGD

9
10
11
12

RHO COEFFICIENTS

RHO VECTOR
 0.61367 0.22965 0.63603 0.67848 0.65027
 CONSTANT RHO = 0.59839
 VARIANCES

17

PHI MATRIX

0.23115E-01
 -0.51185E-03 0.88580E-02
 0.31324E-02 -0.49342E-03 0.99340E-02
 0.38997E-02 0.23251E-02 0.40666E-02 0.85307E-02
 0.38468E-02 0.31241E-02 0.48126E-02 0.55511E-02 0.10288E-01

FINAL COEFFICIENTS

-0.79315 0.74499 0.27150 -0.54640 0.13815
 0.58944E-01 0.68275E-01 -0.27630E-01 -0.38005E-01 0.50322E-02
 -0.79010E-01 0.11265 0.15726E-01 0.23573E-01 0.12118E-01
 -0.80081 0.11543 0.31627 5.6245

FINAL SSE = 118.26

BUSE R-SQUARE = 0.9234 BUSE RAW-MOMENT R-SQUARE = 0.9997

VARIANCE OF THE ESTIMATE-SIGMA**2 = 0.60335

STANDARD ERROR OF THE ESTIMATE-SIGMA = 0.77675

SUM OF SQUARED ERRORS-SSE= 118.26

MEAN OF DEPENDENT VARIABLE = 8.8121

LOG OF THE LIKELIHOOD FUNCTION = 240.680

VARIABLE NAME	ESTIMATED COEFFICIENT	STANDARD ERROR	T-RATIO 196 DF	PARTIAL STANDARDIZED ELASTICITY CORR. COEFFICIENT AT MEANS
---------------	-----------------------	----------------	----------------	--

LOGP
 LOGRINC
 DUM31
 DUM66
 AUG
 SEP
 OCT
 NOV
 DEC
 JAN
 FEB
 MAR
 AI
 MA
 JUN
 D2
 D3

38

54

RY

0000222

F01B25Z

1
2
3

INSIDE WIRE INSTALLATION AND MAINTENANCE MODEL - SCB

A B C D E F G

ALDUM			4.2601	0.2911		
CONSTANT			12.097	0.6538		

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FO1B25Z

0000223

INSIDE WIRE INSTALLATION AND MAINTENANCE MODEL - SCB

A B C

58	-0.30054	* I
59	-0.71646	* I
60	1.2337	I *
61	-0.64164	* I
62	-0.32312	* I
63	-0.70745	* I
64	-0.78532	* I
65	-0.63302	* I
66	-0.40111	* I
67	-1.7467	* I
68	0.21406	I*
69	0.28917	I*
70	0.26757	I*
71	0.95208	I *
72	-1.3820	* I
73	0.34365	I *
74	-0.15417	*I
75	-0.43415	* I
76	-0.16888	*I
77	0.26491	I*
78	0.63252E-01	.
79	-0.23690	*I
80	0.30163E-01	.
81	-0.78884	* I
82	0.82917E-01	.
83	0.73827	I *
84	-1.2312	* I
85	0.25367	I*
86	-0.63349	* I
87	-1.4323	. I
88	0.68122	I *
89	-1.3477	* I
90	-0.74150	* I
91	0.80654	I *
92	-1.4327	. I
93	-0.83780E-01	*
94	-0.58586	* I
95	-0.57194	* I
96	-0.64277	* I
97	-0.10861	*I
98	-1.1596	* I
99	0.32188E-01	*
100	-0.56937	* I
101	0.86060	I *
102	0.55174	I *
103	0.41243	I *
104	0.10907	I*
105	-0.18353	*I
106	0.16122	I*
107	-0.92386E-01	*
108	0.82546	I *
109	-0.52278	* I
110	1.3408	I .
111	-0.78883	* I
112	0.47952	I *
113	0.13170E-01	*
114	0.32962E-01	*
115	-0.15335	*I
116	2.1866	I *
117	-0.18411	.

PROPRIETARY

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 COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

FOI 5232

0000225

INSIDE WIRE INSTALLATION AND MAINTENANCE MODEL - SCB

A B C

118	0.50254	I *
119	0.35249	I *
120	0.93103	I *
121	0.11503	I*
122	0.23291	I*
123	0.97638	I *
124	-0.72733	* I
125	0.97469	I *
126	-0.13040	*I
127	-0.86210E-01	*.
128	0.67147	I *
129	-0.10056	*I
130	-0.90979	* I
131	0.78263	I *
132	0.57051E-03	*
133	-0.58443	* I
134	1.0490	I *
135	0.37342	I *
136	1.3725	I *
137	0.99847	I *
138	0.33050	I *
139	-0.13393	*I
140	1.1411	I *
141	-0.65752	* I
142	0.82373	I *
143	0.34994	I *
144	-0.13134	*I
145	0.62068	I *
146	0.37434	I *
147	-0.47396	* I
148	-0.63415	* I
149	0.90206	I *
150	0.42509	I *
151	0.25747	I*
152	-0.86194	* I
153	1.4394	I *
154	-0.96723	* I
155	-0.25351	*I
156	0.26229	I*
157	-0.29225	*I
158	-0.80241	* I
159	0.56331	I *
160	-0.23157	*I
161	-0.50429	* I
162	0.56700E-01	*
163	-0.16916	*I
164	0.66010	I *
165	-0.61812	* I
166	0.68628	I *
167	-1.6798	I
168	0.51988	I *
169	-0.24694	*I
170	-0.98942	* I
171	0.58992	I *
172	-0.18483	*I
173	-0.83355	* I
174	0.94123	I *
175	-0.62579	* I
176	-0.85329	* I
177	0.33435	I

PROPRIETARY

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 COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

FOI B 252

0000220

INSIDE WIRE INSTALLATION AND MAINTENANCE MODEL - SCB

A B C D

178	31.135	.	I	
179	32.812		I	*
180	33.783	*	I	
181	31.109		I	.
182	31.676	.		
183	32.956		I	*
184	31.779		I*	
185	33.497		I	*
186	32.333		I	*
187	31.171	*	I	
188	31.495		I	*
189	32.300		I	*
190	31.399	*	I	
191	30.938		I*	
192	33.081	*	I	
193	30.423	*	I	
194	31.877		I*	
195	31.400		I*	
196	33.176		I	*
197	32.561		I*	
198	30.741		I*	
199	32.369		I	*
200	30.711		I*	
201	30.412	*	I	
202	32.432		I	*
203	29.800	*	I	
204	32.731		I*	
205	30.671	.		
206	31.909		I	*
207	31.385		I*	
208	31.883		I	*
209	33.418		I	*
210	29.978	*	I	
211	32.601		I	*
212	30.765		I*	
213	30.624	*	I	
214	32.669		I	*
215	29.769	*	I	

DURBIN-WATSON = 2.2198 VON NEUMANN RATIO = 2.2301 RHO = -0.14511
 RESIDUAL SUM = 3.3458 RESIDUAL VARIANCE = 0.60335
 SUM OF ABSOLUTE ERRORS = 127.53
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.9978
 RUNS TEST: 115 RUNS, 114 POSITIVE, 101 NEGATIVE, NORMAL STATISTIC = 0.9459

PROPRIETARY

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 COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

FO1B25Z

0000227

INSIDE WIRE INSTALLATION AND MAINTENANCE MODEL - SCB

_FC /BEG=216 END=249 MODEL=POOL LIST NC=5 CSNUM=1 PRED=ALD

REQUIRED MEMORY IS PAR= 139 CURRENT PAR= 170
 DEPENDENT VARIABLE = LOGD 34 OBSERVATIONS
 REGRESSION COEFFICIENTS

970070

11

POOL STANDARD ERROR= 0.152034952229 POOL VARIANCE= 0.231146266992E-01
 ..WARNING FORECAST STD. ERRORS ONLY VALID FOR OLS

16

OBS. NO.	OBSERVED VALUE	PREDICTED VALUE	CALCULATED RESIDUAL	STD. ERROR		
216	0.00000E+00	9		0.13838	*	I
217	0.00000E+00	8		0.74751E-01	*	I
218	0.00000E+00	8		0.72899E-01	*	I
219	0.00000E+00	8		0.73236E-01	*	I
220	0.00000E+00	8		0.73153E-01	*	I
221	0.00000E+00	9		0.72316E-01	*	I
222	0.00000E+00	9		0.72327E-01	*	I
223	0.00000E+00	9		0.72329E-01	*	I
224	0.00000E+00	8		0.72316E-01	*	I
225	0.00000E+00	8		0.72367E-01	*	I
226	0.00000E+00	8		0.70884E-01	*	I
227	0.00000E+00	8		0.71160E-01	*	I
228	0.00000E+00	9		0.72146E-01	*	I
229	0.00000E+00	8		0.72581E-01	*	I
230	0.00000E+00	8		0.72867E-01	*	I
231	0.00000E+00	8		0.73254E-01	*	I
232	0.00000E+00	8		0.73171E-01	*	I
233	0.00000E+00	9		0.72343E-01	*	I
234	0.00000E+00	9		0.72358E-01	*	I
235	0.00000E+00	9		0.72359E-01	*	I
236	0.00000E+00	8		0.72346E-01	*	I
237	0.00000E+00	8		0.72397E-01	*	I
238	0.00000E+00	8		0.70913E-01	*	I
239	0.00000E+00	8		0.71191E-01	*	I
240	0.00000E+00	9		0.72182E-01	*	I
241	0.00000E+00	8		0.72615E-01	*	I
242	0.00000E+00	9		0.72902E-01	*	I
243	0.00000E+00	8		0.73295E-01	*	I
244	0.00000E+00	8		0.73207E-01	*	I
245	0.00000E+00	9		0.72388E-01	*	I
246	0.00000E+00	9		0.72410E-01	*	I
247	0.00000E+00	9		0.72402E-01	*	I
248	0.00000E+00			0.72395E-01	*	I
249	0.00000E+00			0.72457E-01	*	I

40

SUM OF ABSOLUTE ERRORS= 305.
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.0000
 MEAN ERROR = -8.9963
 SUM-SQUARED ERRORS = 2751.9
 MEAN SQUARE ERROR = 80.938
 MEAN ABSOLUTE ERROR= 8.9963
 ROOT MEAN SQUARE ERROR = 8.9965

PROPRIETARY

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 BELL SOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
 COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

FOIR257

0000228

INSIDE WIRE INSTALLATION AND MAINTENANCE MODEL - SCB

THEIL INEQUALITY COEFFICIENT U = 0.000

DECOMPOSITION

PROPORTION DUE TO BIAS = 0.99996
PROPORTION DUE TO VARIANCE = 0.42180E-04
PROPORTION DUE TO COVARIANCE = 0.38977E-16

DECOMPOSITION

PROPORTION DUE TO BIAS = 0.99996
PROPORTION DUE TO REGRESSION = 0.42180E-04
PROPORTION DUE TO DISTURBANCE = 0.38977E-16

PROPRIETARY

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INSIDE WIRE INSTALLATION AND MAINTENANCE MODEL - SCB

_FC /BEG=250 END=283 MODEL=POOL LIST NC=5 CSNUM=2 PRED=KYD

REQUIRED MEMORY IS PAR= 139 CURRENT PAR= 170
 DEPENDENT VARIABLE = LOGD 34 OBSERVATIONS
 REGRESSION COEFFICIENTS

67876
10

POOL STANDARD ERROR= 0.941168646050E-01 POOL VARIANCE= 0.885798420308E-02
 ..WARNING FORECAST STD. ERRORS ONLY VALID FOR OLS

16

A	B	C	D	STD. ERROR		
OBS. NO.	OBSERVED VALUE	PREDICTED VALUE	CALCULATED RESIDUAL			
250	0.00000E+00			0.77551E-01	*	1
251	0.00000E+00			0.27184E-01	*	1
252	0.00000E+00			0.26733E-01	*	1
253	0.00000E+00			0.27783E-01	*	1
254	0.00000E+00			0.27119E-01	*	1
255	0.00000E+00			0.24177E-01	*	1
256	0.00000E+00			0.23944E-01	*	1
257	0.00000E+00			0.23789E-01	*	1
258	0.00000E+00			0.23520E-01	*	1
259	0.00000E+00			0.23379E-01	*	1
260	0.00000E+00			0.23579E-01	*	1
261	0.00000E+00			0.23932E-01	*	1
262	0.00000E+00			0.25939E-01	*	1
263	0.00000E+00			0.26369E-01	*	1
264	0.00000E+00			0.26795E-01	*	1
265	0.00000E+00			0.27849E-01	*	1
266	0.00000E+00			0.27190E-01	*	1
267	0.00000E+00			0.24285E-01	*	1
268	0.00000E+00			0.24054E-01	*	1
269	0.00000E+00			0.23889E-01	*	1
270	0.00000E+00			0.23623E-01	*	1
271	0.00000E+00			0.23483E-01	*	1
272	0.00000E+00			0.23656E-01	*	1
273	0.00000E+00			0.24018E-01	*	1
274	0.00000E+00			0.26038E-01	*	1
275	0.00000E+00			0.26445E-01	*	1
276	0.00000E+00			0.26880E-01	*	1
277	0.00000E+00			0.27950E-01	*	1
278	0.00000E+00			0.27268E-01	*	1
279	0.00000E+00			0.24406E-01	*	1
280	0.00000E+00			0.24204E-01	*	1
281	0.00000E+00			0.23993E-01	*	1
282	0.00000E+00			0.23742E-01	*	1
283	0.00000E+00			0.23630E-01	*	1

50
51

SUM OF ABSOLUTE ERRORS=
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.0000
 MEAN ERROR = -8.0368
 SUM-SQUARED ERRORS = 2196.2
 MEAN SQUARE ERROR = 64.594
 MEAN ABSOLUTE ERROR= 8.0368
 ROOT MEAN SQUARE ERROR = 8.0371
 THEIL INEQUALITY COEFFICIENT U = 0.000

PROPRIETARY

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FOI B25Z

0000230

INSIDE WIRE INSTALLATION AND MAINTENANCE MODEL - SCB

DECOMPOSITION

PROPORTION DUE TO BIAS = 0.99995
PROPORTION DUE TO VARIANCE = 0.52401E-04
PROPORTION DUE TO COVARIANCE = -0.22335E-16

DECOMPOSITION

PROPORTION DUE TO BIAS = 0.99995
PROPORTION DUE TO REGRESSION = 0.52401E-04
PROPORTION DUE TO DISTURBANCE = -0.22335E-16

PROPRIETARY

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SOUTHWEST TELECOMMUNICATIONS OR ITS AFFILIATED
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F01B25Z

0000231

_FC /BEG=284 END=317 MODEL=POOL LIST NC=5 CSNUM=3 PRED=LAD

REQUIRED MEMORY IS PAR= 139 CURRENT PAR= 170
 DEPENDENT VARIABLE = LOGD 34 OBSERVATIONS

6

10

0.6360292888637
 POOL STANDARD ERROR= 0.996693600928E-01 POOL VARIANCE= 0.993398134131E-02
 ..WARNING FORECAST STD. ERRORS ONLY VALID FOR OLS

17

A	B	C	D		
OBS. NO.	OBSERVED VALUE	PREDICTED VALUE	CALCULATED RESIDUAL	STD. ERROR	
284	0.00000E+00	0.4057	-----	0.87269E-01	* I
285	0.00000E+00			0.41265E-01	* I
286	0.00000E+00			0.40991E-01	* I
287	0.00000E+00			0.41733E-01	* I
288	0.00000E+00			0.41678E-01	* I
289	0.00000E+00			0.39022E-01	* I
290	0.00000E+00			0.39067E-01	* I
291	0.00000E+00			0.39030E-01	* I
292	0.00000E+00			0.38716E-01	* I
293	0.00000E+00			0.38481E-01	* I
294	0.00000E+00			0.38582E-01	* I
295	0.00000E+00			0.38658E-01	* I
296	0.00000E+00			0.40274E-01	* I
297	0.00000E+00			0.40537E-01	* I
298	0.00000E+00			0.40984E-01	* I
299	0.00000E+00			0.41732E-01	* I
300	0.00000E+00			0.41678E-01	* I
301	0.00000E+00			0.39033E-01	* I
302	0.00000E+00			0.39078E-01	* I
303	0.00000E+00			0.39036E-01	* I
304	0.00000E+00			0.38723E-01	* I
305	0.00000E+00			0.38488E-01	* I
306	0.00000E+00			0.38587E-01	* I
307	0.00000E+00			0.38663E-01	* I
308	0.00000E+00			0.40282E-01	* I
309	0.00000E+00			0.40544E-01	* I
310	0.00000E+00			0.40992E-01	* I
311	0.00000E+00			0.41743E-01	* I
312	0.00000E+00			0.41685E-01	* I
313	0.00000E+00			0.39051E-01	* I
314	0.00000E+00			0.39101E-01	* I
315	0.00000E+00			0.39048E-01	* I
316	0.00000E+00			0.38737E-01	* I
317	0.00000E+00			0.38507E-01	* I

50

SUM OF ABSOLUTE ERRORS=
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.0000
 MEAN ERROR = -9.0338
 SUM-SQUARED ERRORS = 2774.9
 MEAN SQUARE ERROR = 81.614
 MEAN ABSOLUTE ERROR= 9.0338
 ROOT MEAN SQUARE ERROR = 9.0340
 THEIL INEQUALITY COEFFICIENT U = 0.000

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INSIDE WIRE INSTALLATION AND MAINTENANCE MODEL - SCB

DECOMPOSITION

PROPORTION DUE TO BIAS = 0.99996
PROPORTION DUE TO VARIANCE = 0.41240E-04
PROPORTION DUE TO COVARIANCE = -0.10593E-15

DECOMPOSITION

PROPORTION DUE TO BIAS = 0.99996
PROPORTION DUE TO REGRESSION = 0.41240E-04
PROPORTION DUE TO DISTURBANCE = -0.10593E-15

PROPRIETARY

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F01B25Z

0000233

INSIDE WIRE INSTALLATION AND MAINTENANCE MODEL - SCB

FC /BEG=318 END=351 MODEL=POOL LIST NC=5 CSNUM=4 PRED=MSD

REQUIRED MEMORY IS PAR= 139 CURRENT PAR= 170
 DEPENDENT VARIABLE = LOGD 34 OBSERVATIONS
 REGRESSION COEFFICIENTS

6

10

AUTOCORRELATION RHO
 0.6784778287193

POOL STANDARD ERROR= 0.923616862666E-01 POOL VARIANCE= 0.853068109001E-02

..WARNING FORECAST STD. ERRORS ONLY VALID FOR OLS

17

OBS. NO.	OBSERVED VALUE	PREDICTED	CALCULATED	STD. ERROR		
318	0.00000E+00			0.82560E-01	*	I
319	0.00000E+00			0.41420E-01	*	I
320	0.00000E+00			0.41316E-01	*	I
321	0.00000E+00			0.42061E-01	*	I
322	0.00000E+00			0.41875E-01	*	I
323	0.00000E+00			0.38832E-01	*	I
324	0.00000E+00			0.38917E-01	*	I
325	0.00000E+00			0.38951E-01	*	I
326	0.00000E+00			0.38639E-01	*	I
327	0.00000E+00			0.38410E-01	*	I
328	0.00000E+00			0.38585E-01	*	I
329	0.00000E+00			0.38637E-01	*	I
330	0.00000E+00			0.40210E-01	*	I
331	0.00000E+00			0.40266E-01	*	I
332	0.00000E+00			0.40690E-01	*	I
333	0.00000E+00			0.41442E-01	*	I
334	0.00000E+00			0.41279E-01	*	I
335	0.00000E+00			0.38199E-01	*	I
336	0.00000E+00			0.38277E-01	*	I
337	0.00000E+00			0.38346E-01	*	I
338	0.00000E+00			0.38022E-01	*	I
339	0.00000E+00			0.37780E-01	*	I
340	0.00000E+00			0.38134E-01	*	I
341	0.00000E+00			0.38138E-01	*	I
342	0.00000E+00			0.39637E-01	*	I
343	0.00000E+00			0.39855E-01	*	I
344	0.00000E+00			0.40240E-01	*	I
345	0.00000E+00			0.40909E-01	*	I
346	0.00000E+00			0.40888E-01	*	I
347	0.00000E+00			0.37744E-01	*	I
348	0.00000E+00			0.37728E-01	*	I
349	0.00000E+00			0.37943E-01	*	I
350	0.00000E+00			0.37569E-01	*	I
351	0.00000E+00			0.37228E-01	*	I

50

SUM OF ABSOLUTE ERRORS=
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.0000
 MEAN ERROR = -8.3922
 SUM-SQUARED ERRORS = 2394.7
 MEAN SQUARE ERROR = 70.432
 MEAN ABSOLUTE ERROR= 8.3922
 ROOT MEAN SQUARE ERROR = 8.3924
 THEIL INEQUALITY COEFFICIENT U = 0.000

PROPRIETARY

NOT FOR USE OR DISCLOSURE OUTSIDE OF
 BELL SOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
 COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

INSIDE WIRE INSTALLATION AND MAINTENANCE MODEL - SCB

DECOMPOSITION

PROPORTION DUE TO BIAS = 0.99995
PROPORTION DUE TO VARIANCE = 0.48019E-04
PROPORTION DUE TO COVARIANCE = -0.31225E-16

DECOMPOSITION

PROPORTION DUE TO BIAS = 0.99995
PROPORTION DUE TO REGRESSION = 0.48019E-04
PROPORTION DUE TO DISTURBANCE = -0.31225E-16

PROPRIETARY

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COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

INSIDE WIRE INSTALLATION AND MAINTENANCE MODEL - SC8

[_FC /BEG=352 END=385 MODEL=POOL LIST NC=5 CSNUM=5 PRED=TND

REQUIRED MEMORY IS PAR= 139 CURRENT PAR= 170
 DEPENDENT VARIABLE = LOGD 34 OBSERVATIONS
 REGRESSION COEFFICIENTS

6

10

AUTOCORRELATION RHO

0.6502723265962

POOL STANDARD ERROR= 0.101432046070 POOL VARIANCE= 0.102884599700E-01

..WARNING FORECAST STD. ERRORS ONLY VALID FOR OLS

17

A	B	C	D		
OBS. NO.	OBSERVED VALUE	PREDICTED VALUE	CALCULATED RESIDUAL	STD. ERROR	
352	0.00000E+00			0.87541E-01	* I
353	0.00000E+00			0.39541E-01	* I
354	0.00000E+00			0.39011E-01	* I
355	0.00000E+00			0.39520E-01	* I
356	0.00000E+00			0.39312E-01	* I
357	0.00000E+00			0.37446E-01	* I
358	0.00000E+00			0.37484E-01	* I
359	0.00000E+00			0.37449E-01	* I
360	0.00000E+00			0.37274E-01	* I
361	0.00000E+00			0.37108E-01	* I
362	0.00000E+00			0.37536E-01	* I
363	0.00000E+00			0.37564E-01	* I
364	0.00000E+00			0.39000E-01	* I
365	0.00000E+00			0.39555E-01	* I
366	0.00000E+00			0.39834E-01	* I
367	0.00000E+00			0.40347E-01	* I
368	0.00000E+00			0.40151E-01	* I
369	0.00000E+00			0.38358E-01	* I
370	0.00000E+00			0.38403E-01	* I
371	0.00000E+00			0.38341E-01	* I
372	0.00000E+00			0.38179E-01	* I
373	0.00000E+00			0.38025E-01	* I
374	0.00000E+00			0.38230E-01	* I
375	0.00000E+00			0.38331E-01	* I
376	0.00000E+00			0.39863E-01	* I
377	0.00000E+00			0.40199E-01	* I
378	0.00000E+00			0.40543E-01	* I
379	0.00000E+00			0.41168E-01	* I
380	0.00000E+00			0.40772E-01	* I
381	0.00000E+00			0.39098E-01	* I
382	0.00000E+00			0.39274E-01	* I
383	0.00000E+00			0.38993E-01	* I
384	0.00000E+00			0.38909E-01	* I
385	0.00000E+00			0.38891E-01	* I

SUM OF ABSOLUTE ERRORS= 311
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.0000
 MEAN ERROR = -9.1410
 SUM-SQUARED ERRORS = 2841.1
 MEAN SQUARE ERROR = 83.561
 MEAN ABSOLUTE ERROR= 9.1410
 ROOT MEAN SQUARE ERROR = 9.1412
 THEIL INEQUALITY COEFFICIENT U = 0.000

50

PROPRIETARY

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INSIDE WIRE INSTALLATION AND MAINTENANCE MODEL - SCB

DECOMPOSITION

PROPORTION DUE TO BIAS = 0.99996
PROPORTION DUE TO VARIANCE = 0.41088E-04
PROPORTION DUE TO COVARIANCE = 0.86845E-16

DECOMPOSITION

PROPORTION DUE TO BIAS = 0.99996
PROPORTION DUE TO REGRESSION = 0.41088E-04
PROPORTION DUE TO DISTURBANCE = 0.86845E-16

|_GENR ALD=EXP(ALD)
|_GENR KYD=EXP(KYD)
|_GENR LAD=EXP(LAD)
|_GENR MSD=EXP(MSD)
|_GENR TND=EXP(TND)
|_WRITE(11) ALF KYF LAF MSF TNF
|_SMPL 216 385
|_GENR ALREV=PRICE*ALD
|_GENR KYREV=PRICE*KYD
|_GENR LAREV=PRICE*LAD
|_GENR MSREV=PRICE*MSD
|_GENR TNREV=PRICE*TND
|_* -- We are now going to print the FORECAST for each state --
|_SMPL 216 249

PROPRIETARY

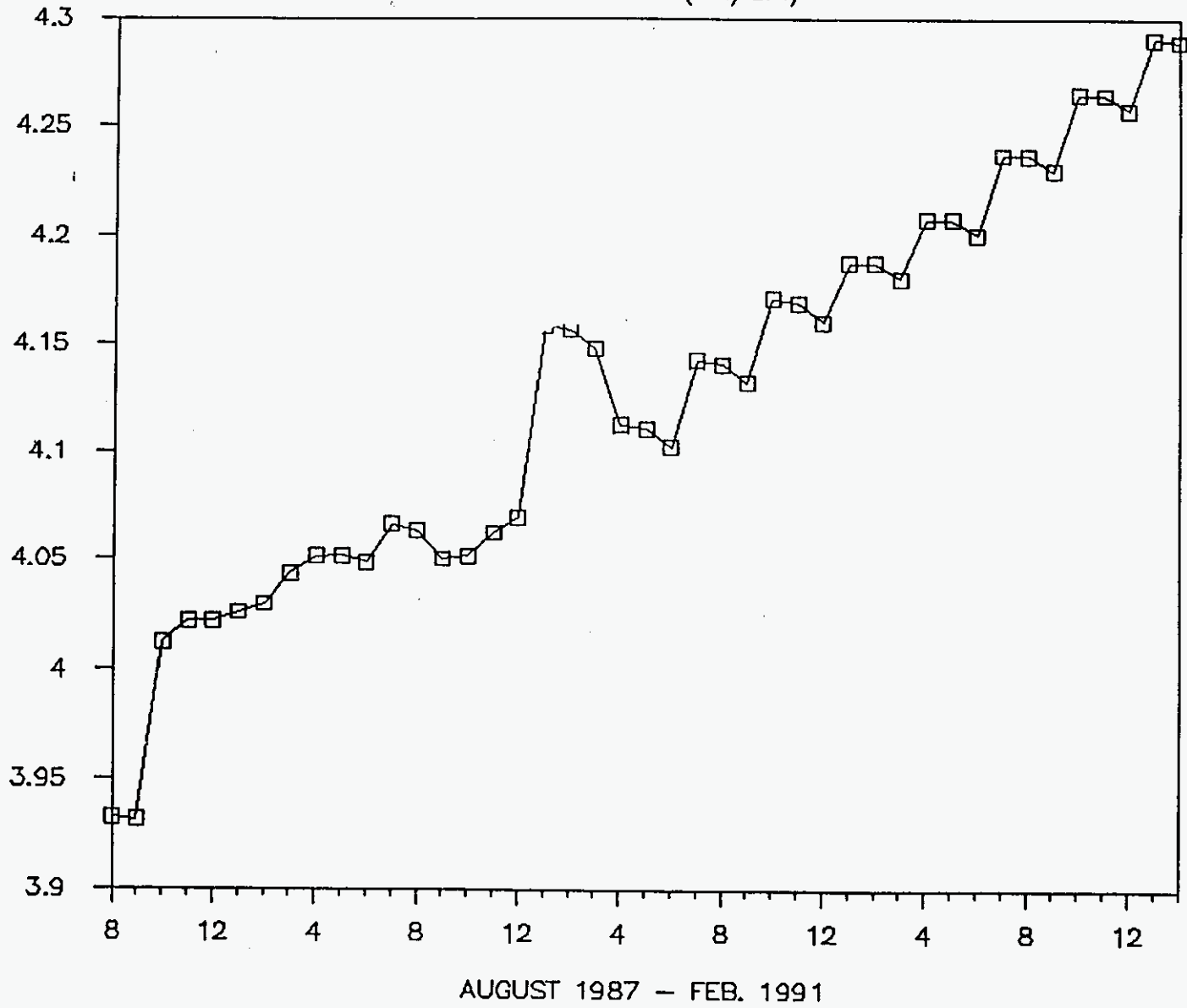
NOT FOR USE OR DISCLOSURE OUTSIDE OF
BELLSOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

F01B25Z

0000237

KENTUCKY

REAL INCOME (TPI/CPI)



PROPRIETARY

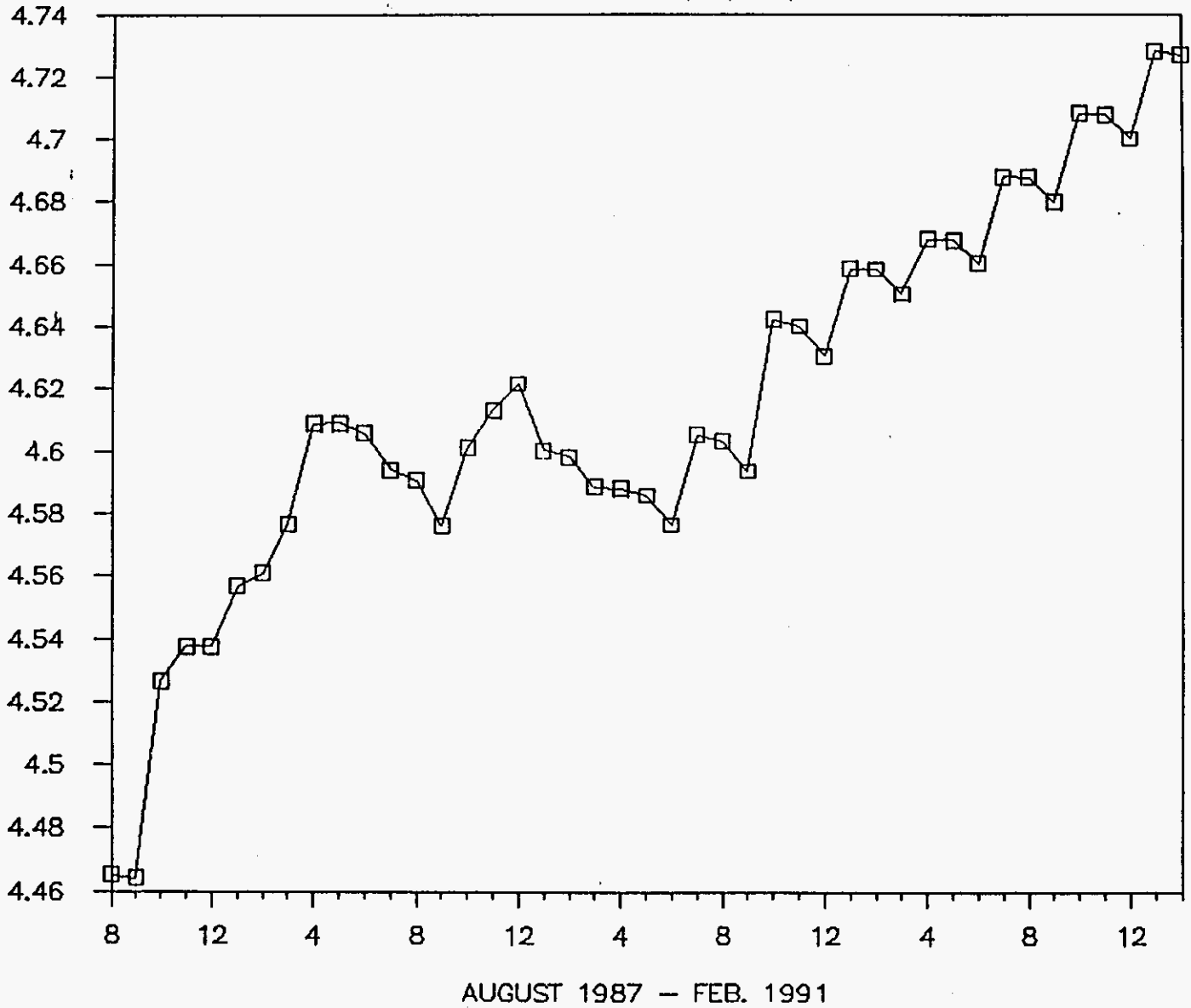
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BELLSOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

5010757

00000000

LOUISIANA

REAL INCOME (TPI/CPI)



PROPRIETARY

NOT FOR USE OR DISCLOSURE OUTSIDE OF
BEU SOUTH TRADING AND INVESTMENTS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

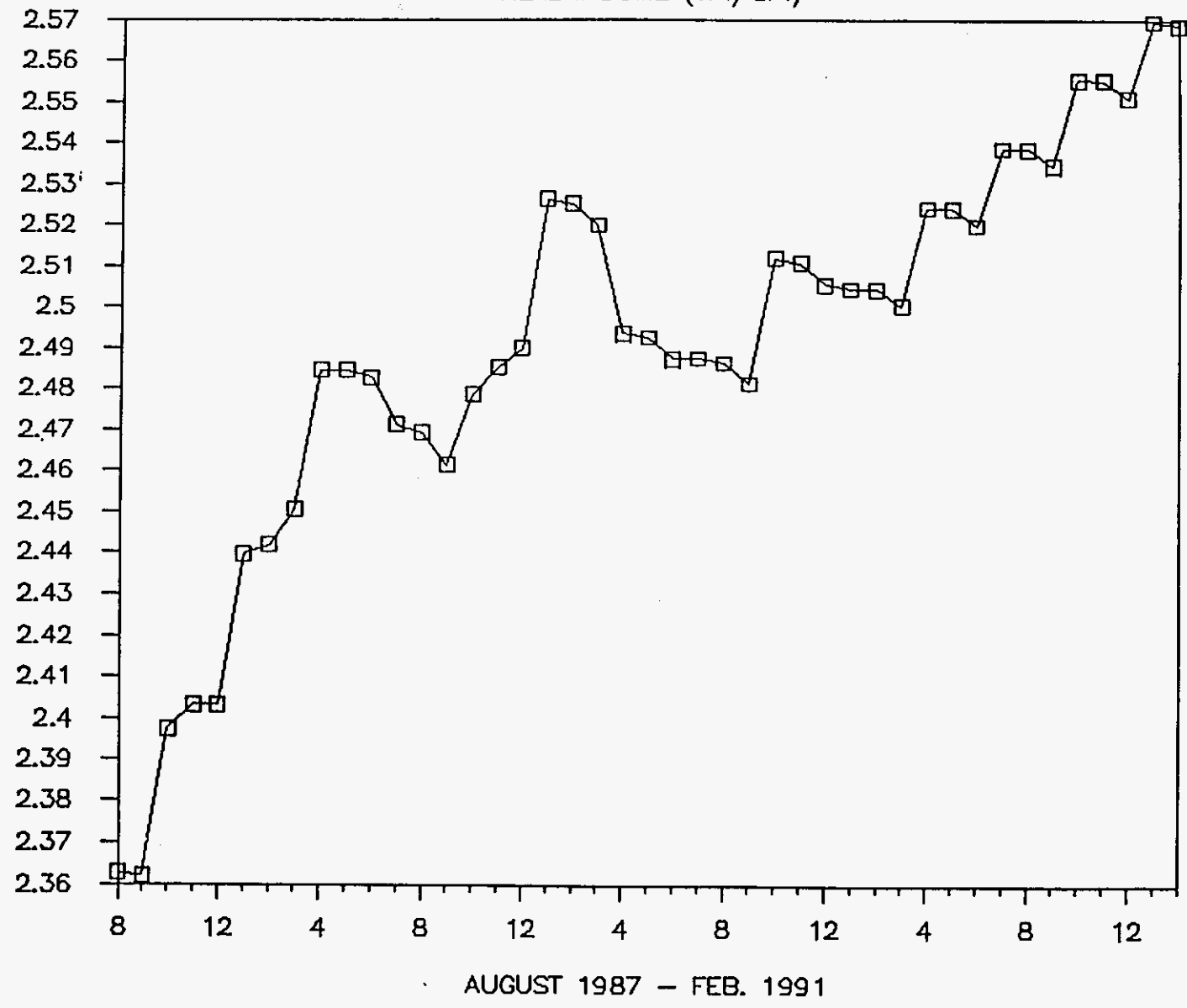
(spuasnouL)

F01B25Z

0000240

MISSISSIPPI

REAL INCOME (TPI/CPI)

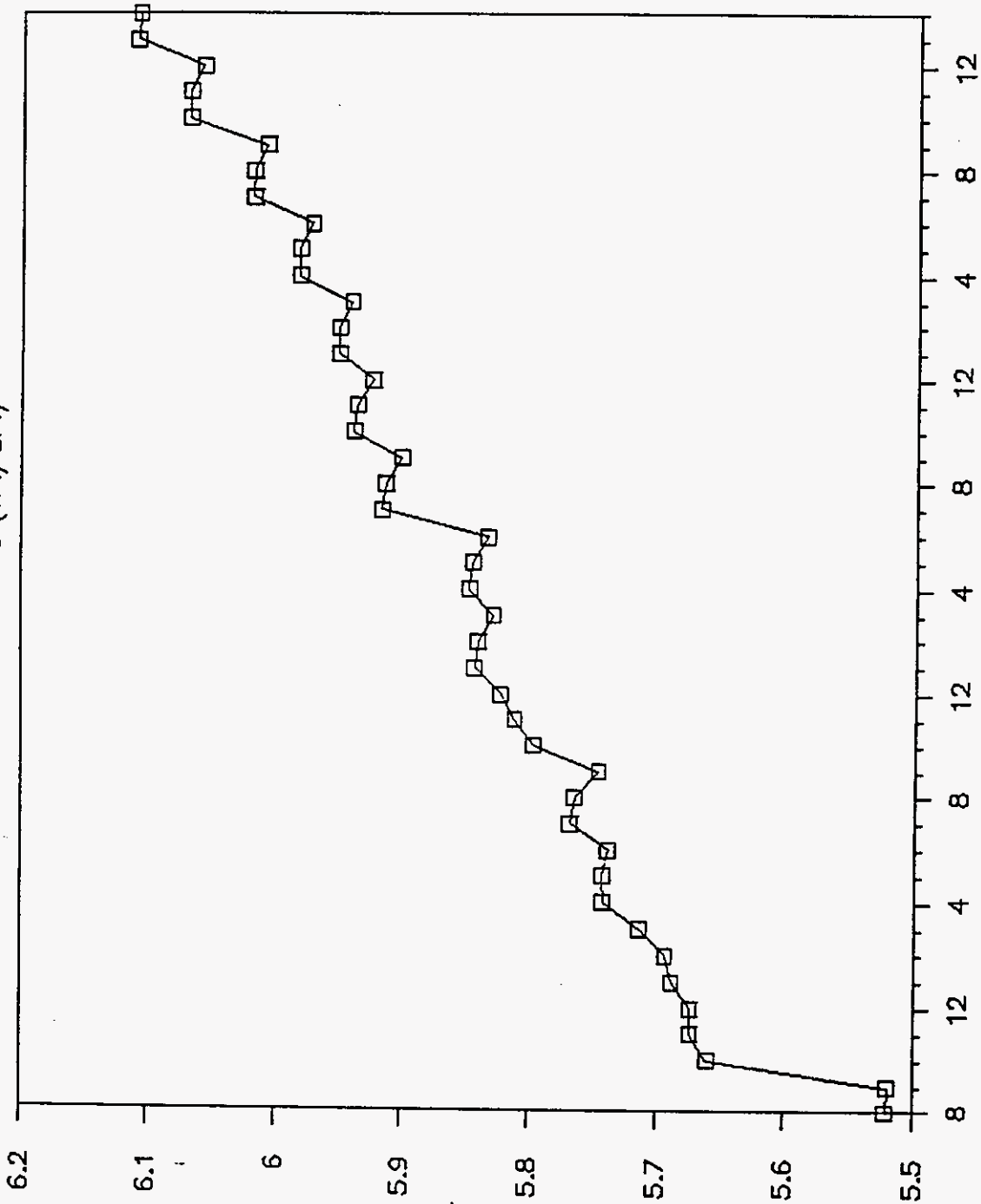


PROPRIETARY
NOT FOR USE OR DISCLOSURE OUTSIDE OF
BELL SOUTH TELEPHONE OPERATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

F01B25Z

0000241

TENNESSEE
REAL INCOME (TPI/CPI)



AUGUST 1987 - FEB. 1991

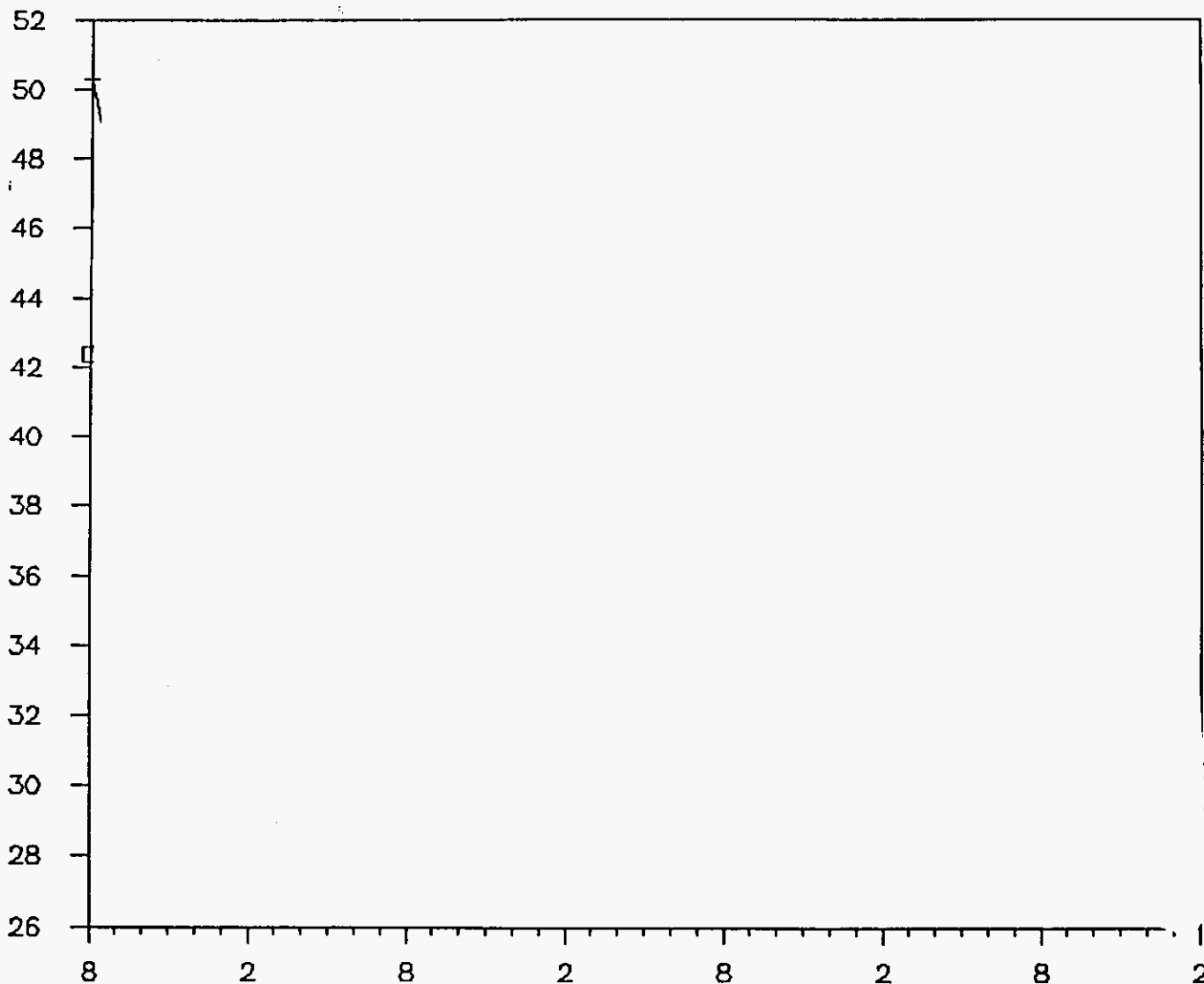
PROPRIETARY
NOT FOR USE OR DISCLOSURE OUTSIDE OF
BELL SOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

F01625Z

0000242

INSIDE WIRE INSTALLATION & MAINTENANCE

ACTUAL vs. PREDICTED - SCB



AUGUST 1987-FEB 1991 (8/87-2/91)

PROPRIETARY

(spuansouL)
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BELL SOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

FN12257

NN112113

SOUTH CENTRAL BELL
DEMAND RATIO AS PERCENT OF TOTAL
AVERAGE 1990

	<u>AL</u>	<u>KY</u>	<u>LA</u>	<u>MS</u>	<u>TN</u>
5 701					
702					
704					
705					
800					
801					
846					
12 847					
	-----	-----	-----	-----	-----
	100.000000%	100.000000%	100.000000%	100.000000%	100.000000%

PROPRIETARY

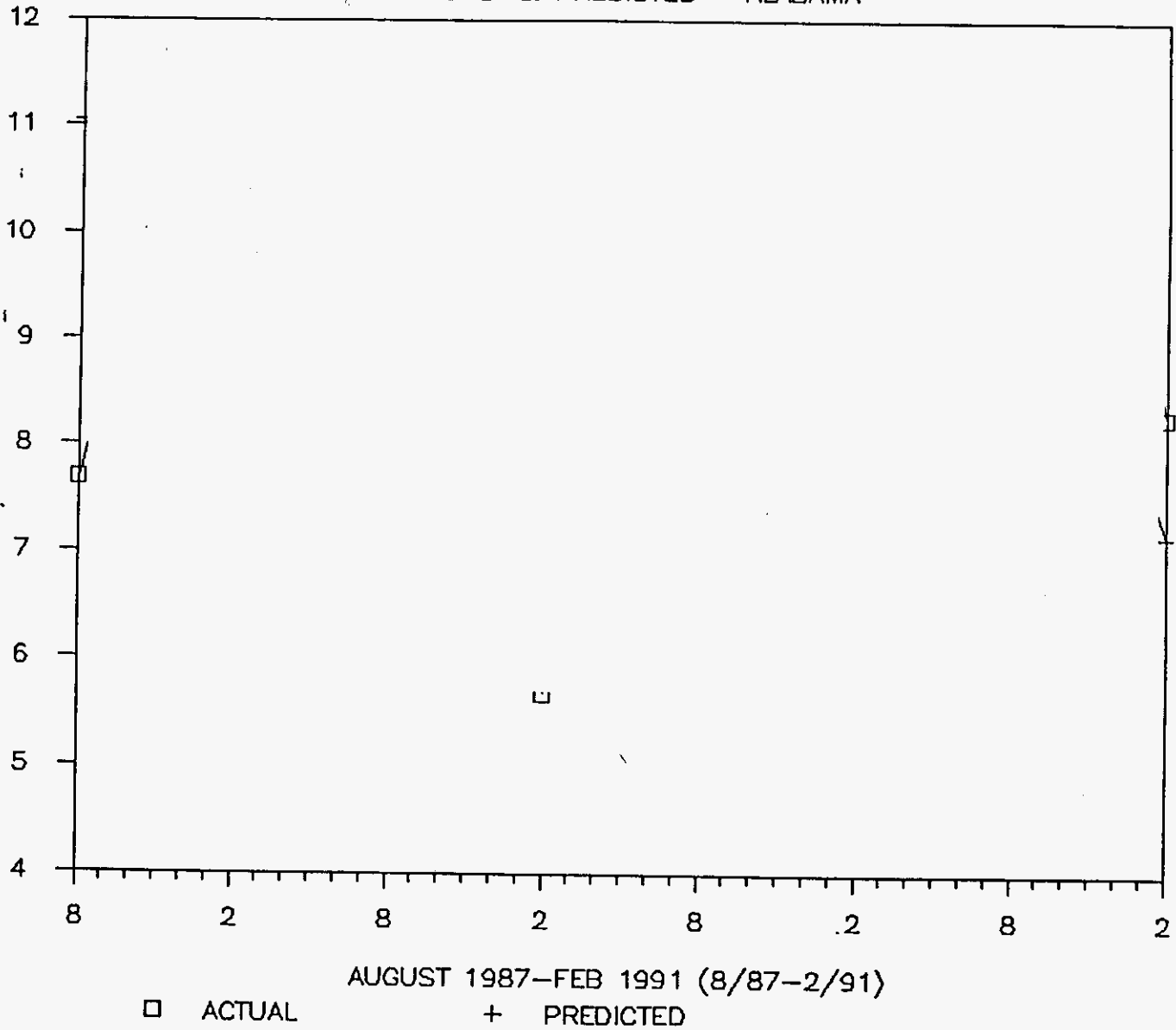
NOT FOR USE OR DISCLOSURE OUTSIDE OF
BELLSOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

F01R25Z

0000244

INSIDE WIRE INSTALLATION & MAINTENANCE

ACTUAL vs. PREDICTED — ALABAMA



PROPRIETARY

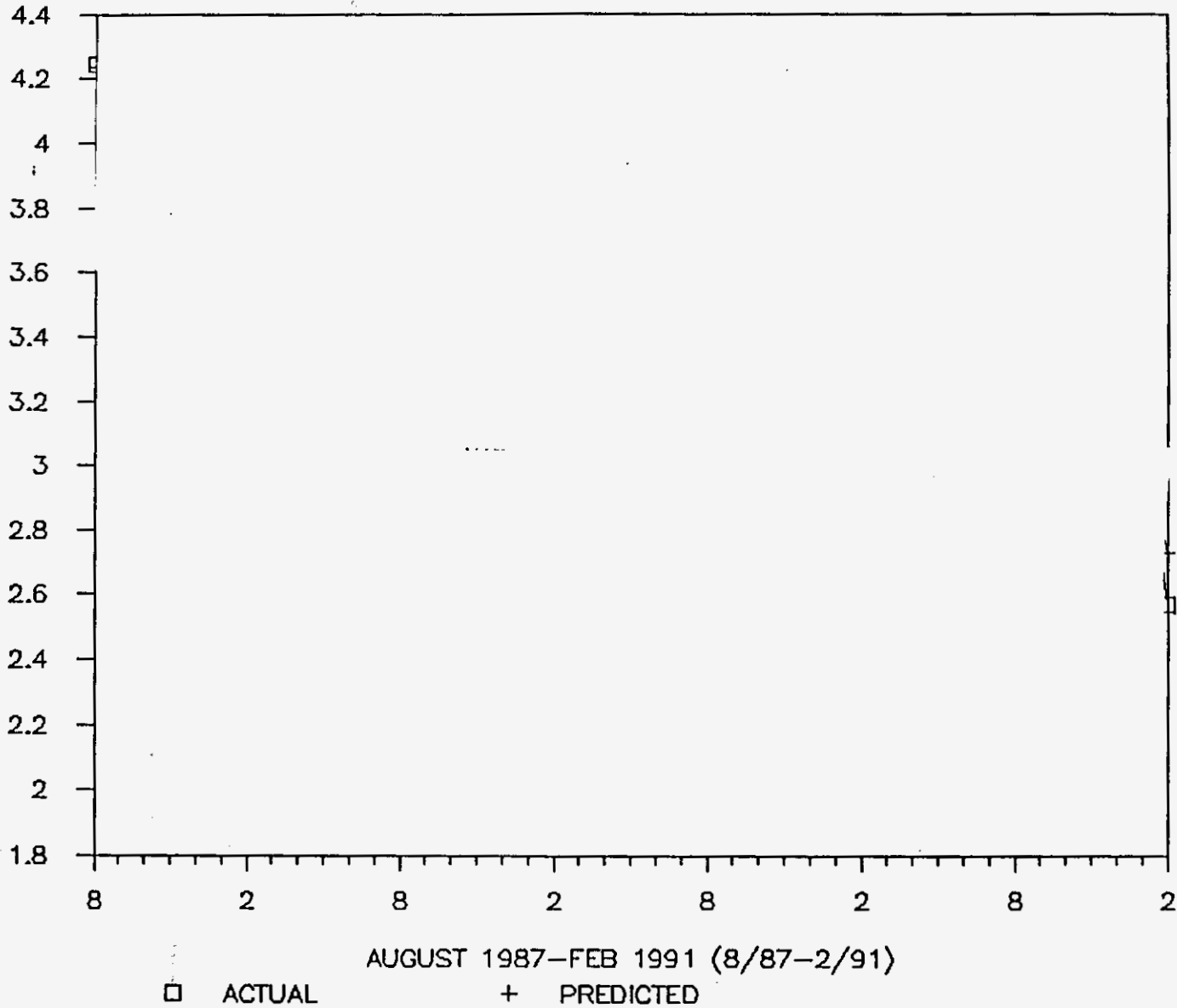
NOT FOR USE OR DISCLOSURE OUTSIDE OF
(spuasnohL) BELLSOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

F018257

0000245

INSIDE WIRE INSTALLATION & MAINTENANCE

ACTUAL vs. PREDICTED - KENTUCKY



(Thousands)

PROPRIETARY

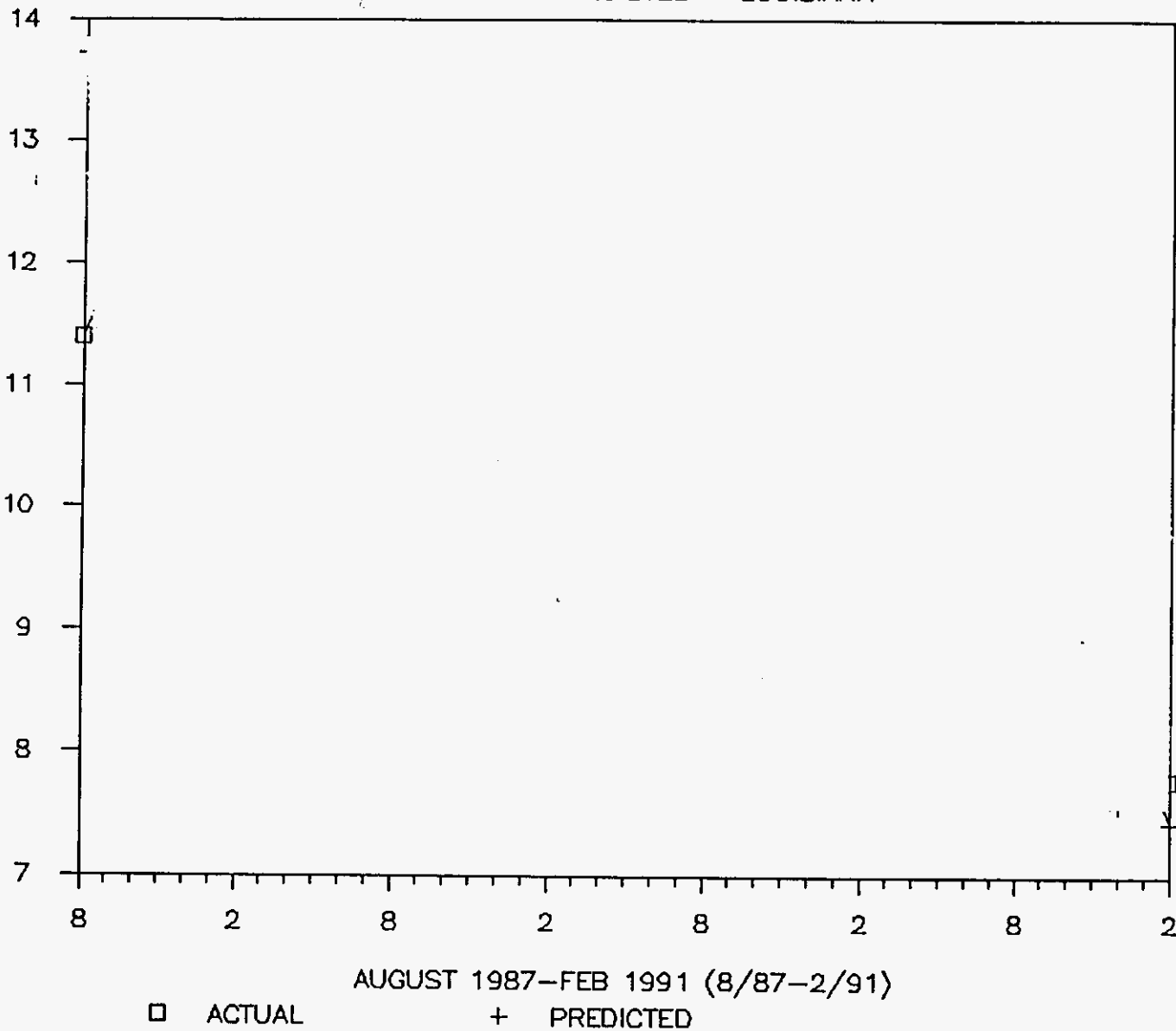
NOT FOR USE OR DISCLOSURE OUTSIDE OF
 BELLSOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
 COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

EN1R257

000002165

INSIDE WIRE INSTALLATION & MAINTENANCE

ACTUAL vs. PREDICTED - LOUISIANA



PROPRIETARY

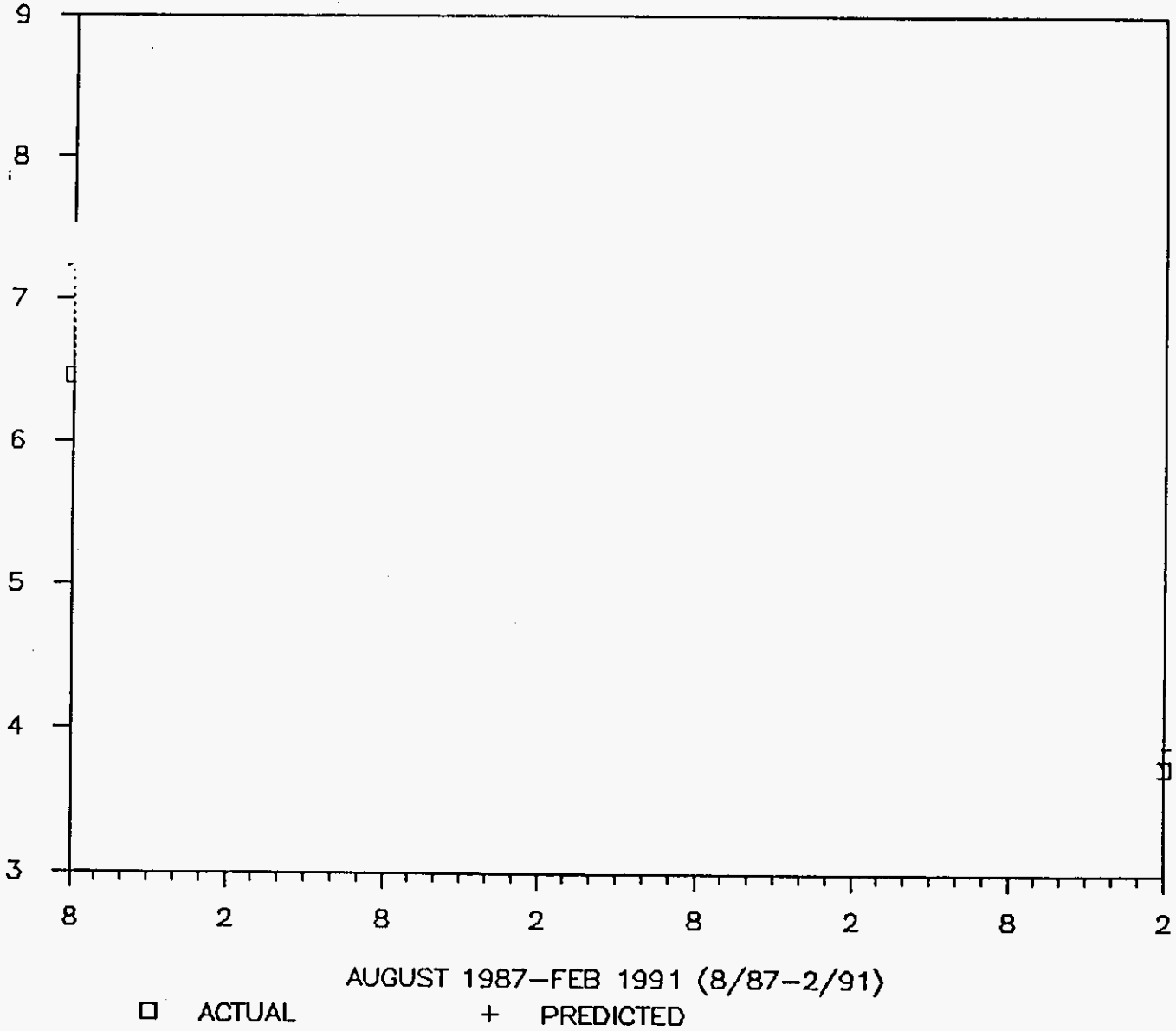
NOT FOR USE OR DISCLOSURE OUTSIDE OF
BELLSOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

FN1R257

0000247

INSIDE WIRE INSTALLATION & MAINTENANCE

ACTUAL vs. PREDICTED — MISSISSIPPI



PROPRIETARY

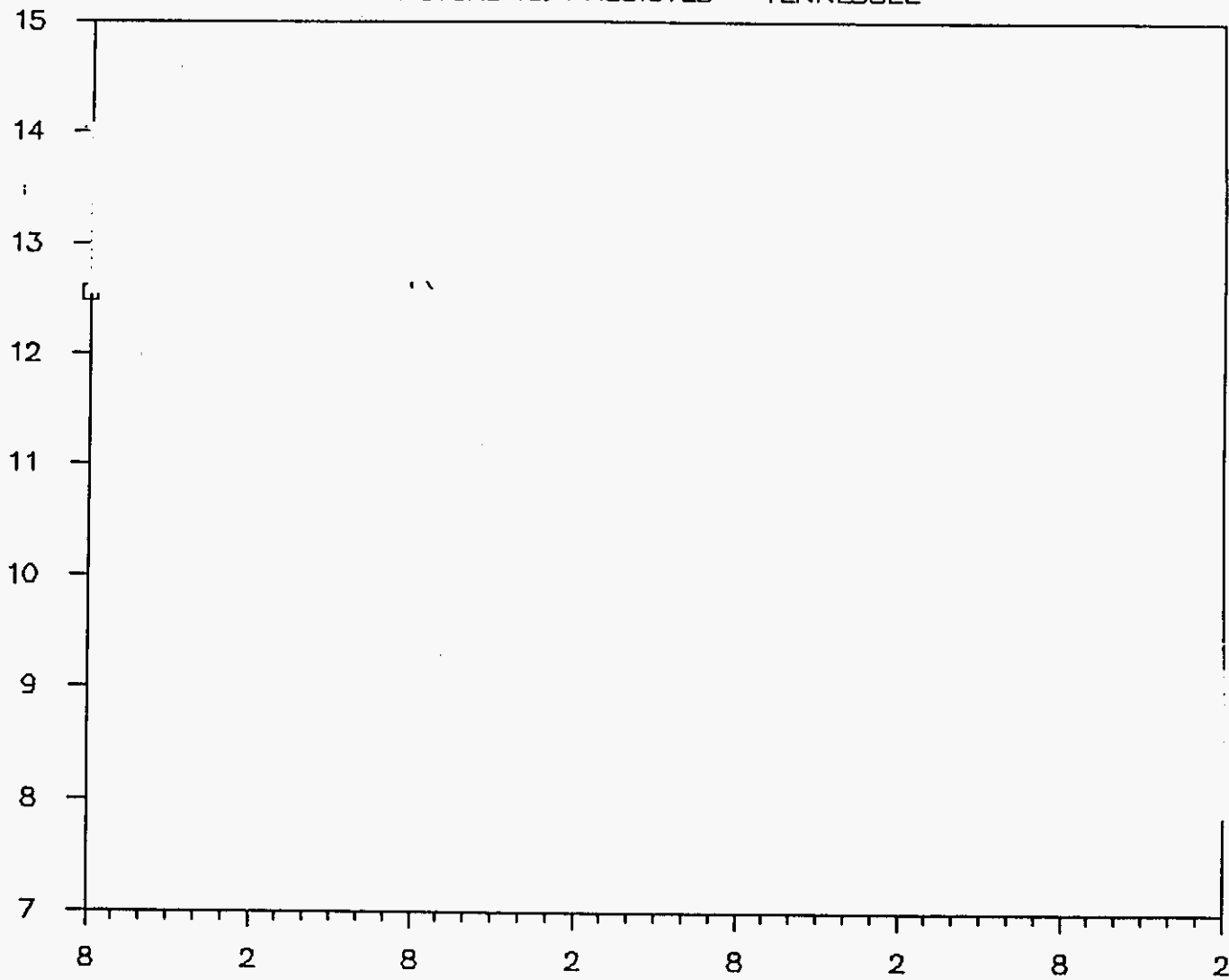
NOT FOR USE OR DISCLOSURE OUTSIDE OF
(spuashouL) BELLSOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

F01R257

0000268

INSIDE WIRE INSTALLATION & MAINTENANCE

ACTUAL vs. PREDICTED - TENNESSEE



□ ACTUAL + PREDICTED

AUGUST 1987-FEB 1991 (8/87-2/91)

PROPRIETARY

(spuonohL) NOT FOR USE OR DISCLOSURE OUTSIDE OF
BELLSOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

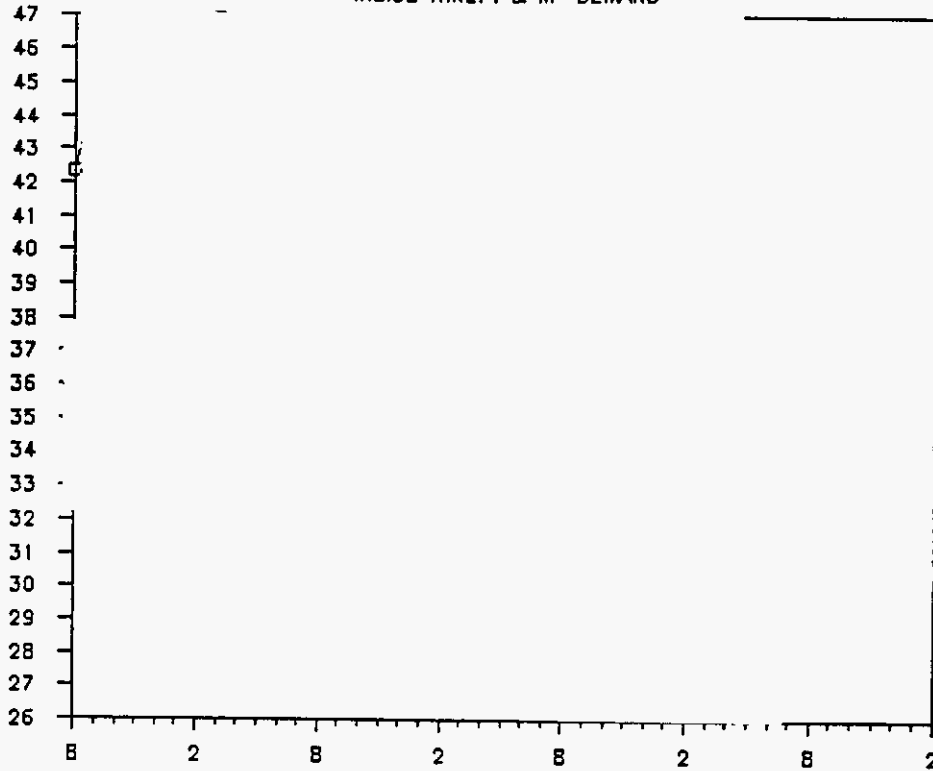
FN1R257

NNNN2L9

SOUTH CENTRAL BELL

INSIDE WIRE: I & M DEMAND

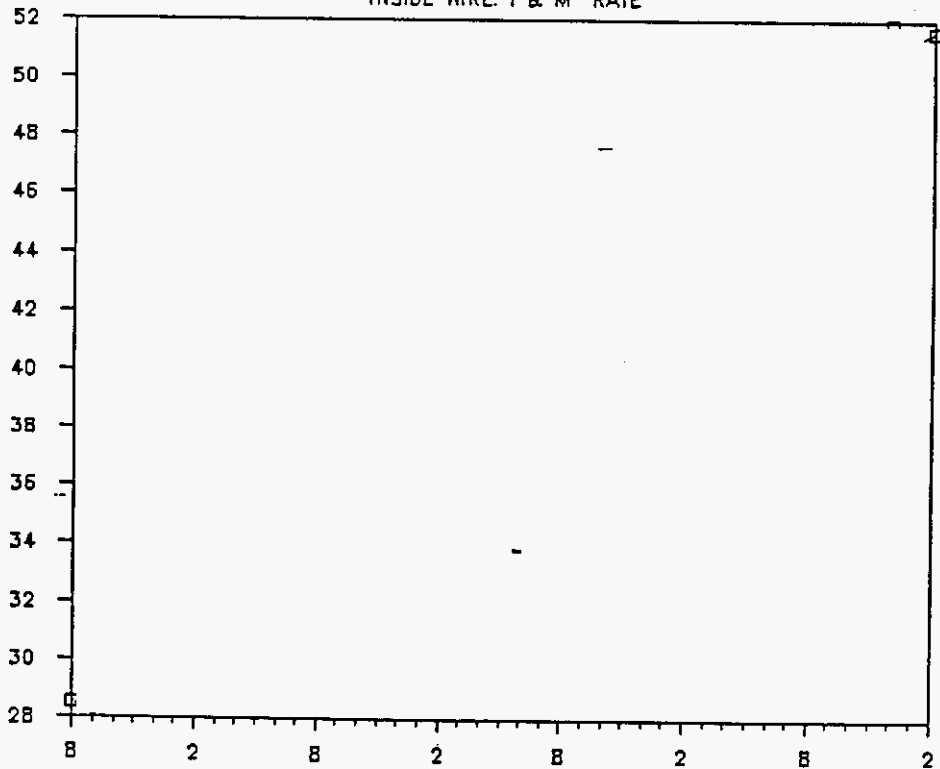
(Thousands)



AUGUST 1987-FEB 1991

SOUTH CENTRAL BELL

INSIDE WIRE: I & M RATE



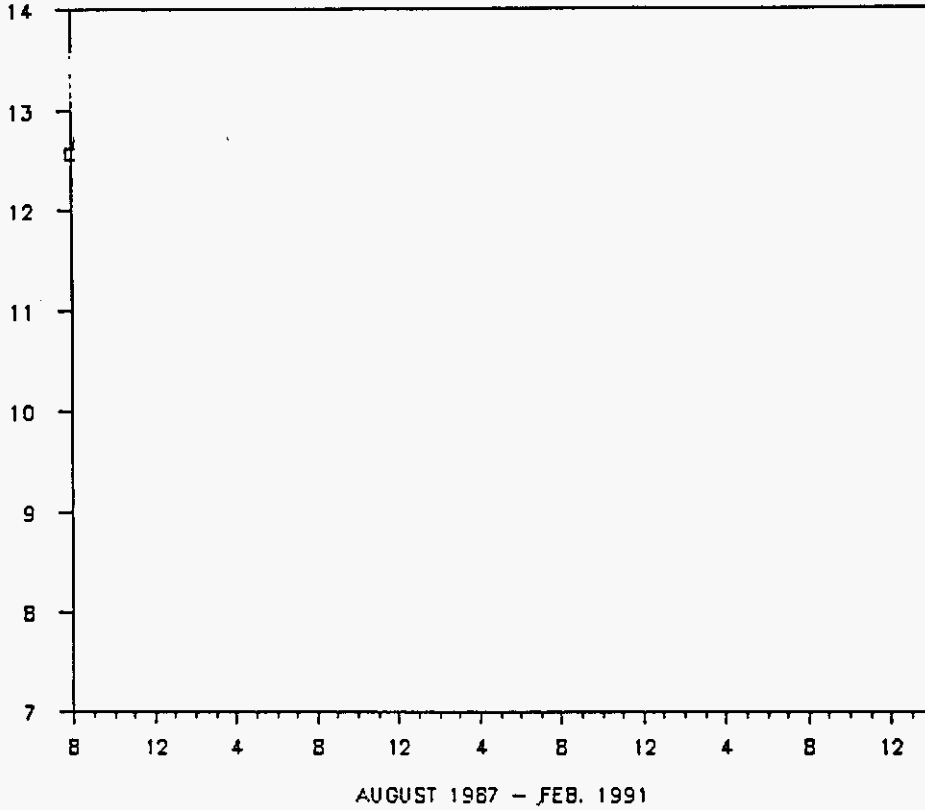
AUGUST 1987-FEB 1991

PROPRIETARY
NOT FOR USE OR DISCLOSURE OUTSIDE OF
BELL SOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

TENNESSEE

INSIDE WIRE: I & M DEMAND

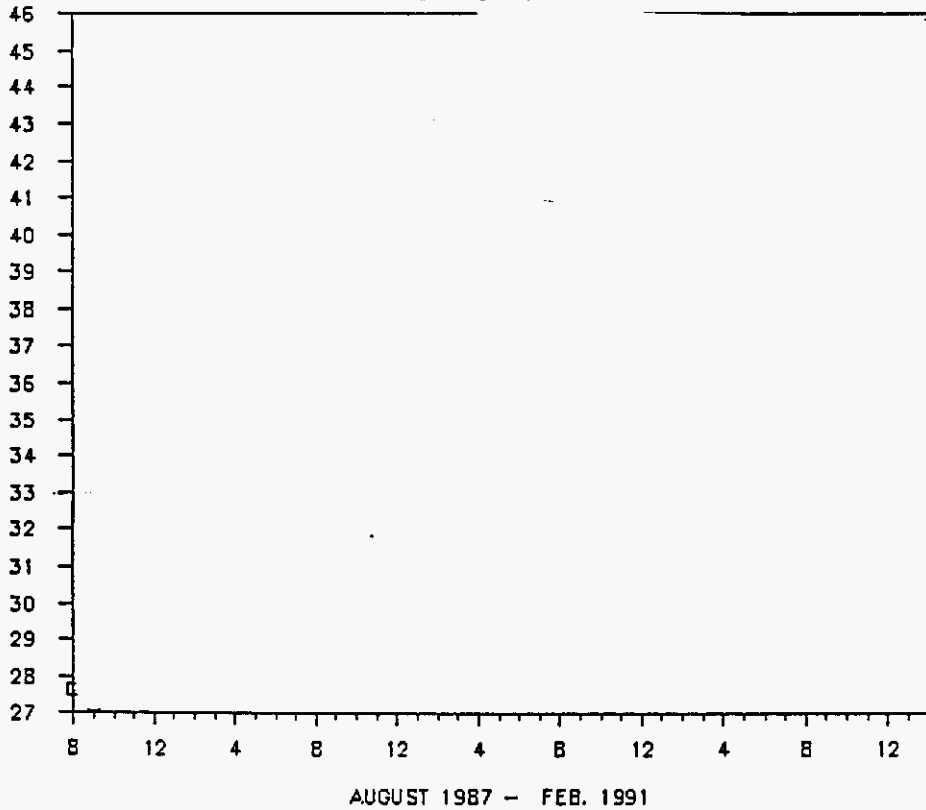
INSTALLATION UNITS
(Thousands)



TENNESSEE

INSIDE WIRE: I & M RATE

DOLLARS PER INSTALLATION UNIT



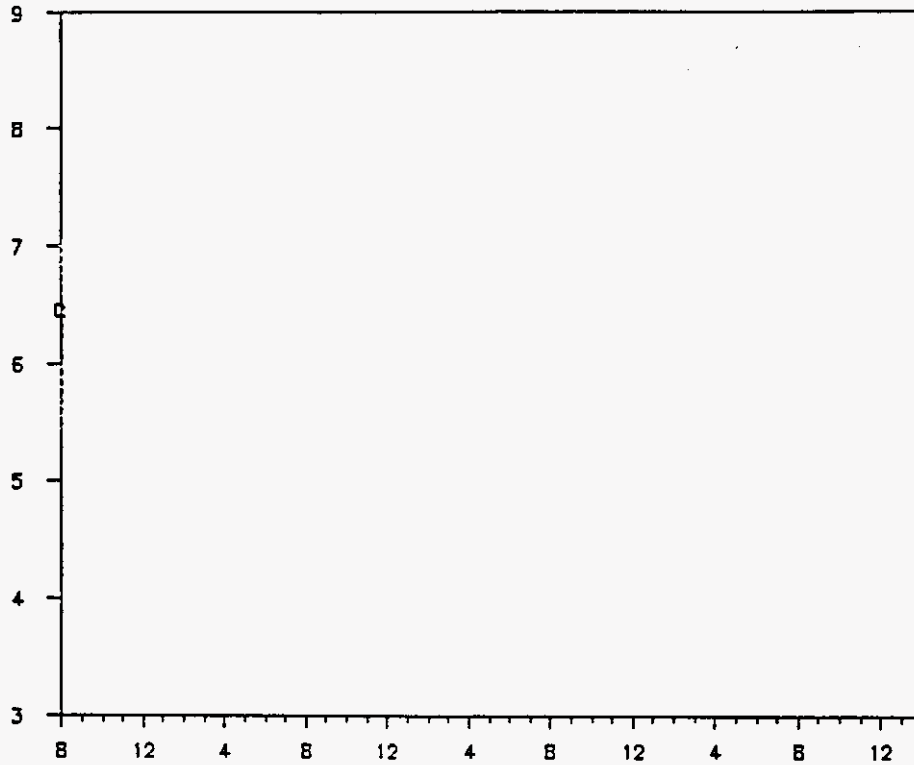
PROPRIETARY

NOT FOR USE OR DISCLOSURE OUTSIDE OF
BELL SOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

MISSISSIPPI

INSIDE WIRE: I & M DEMAND

INSTALLATION UNITS
(Thousands)

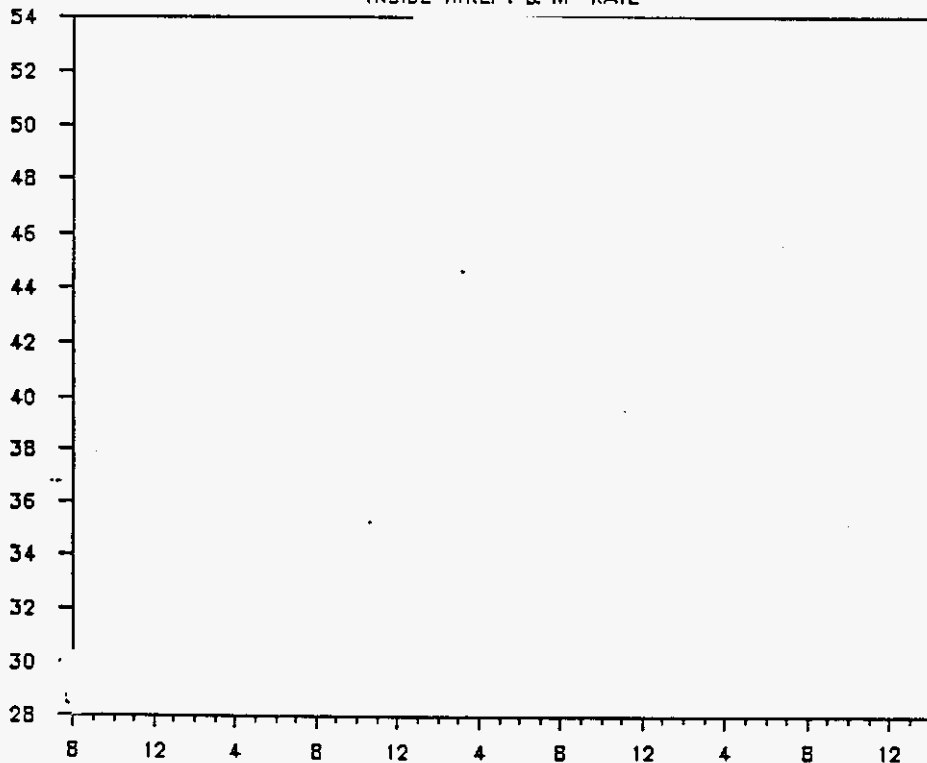


AUGUST 1987 - FEB. 1991

MISSISSIPPI

INSIDE WIRE: I & M RATE

DOLLARS PER INSTALLATION UNIT



AUGUST 1987 - FEB. 1991

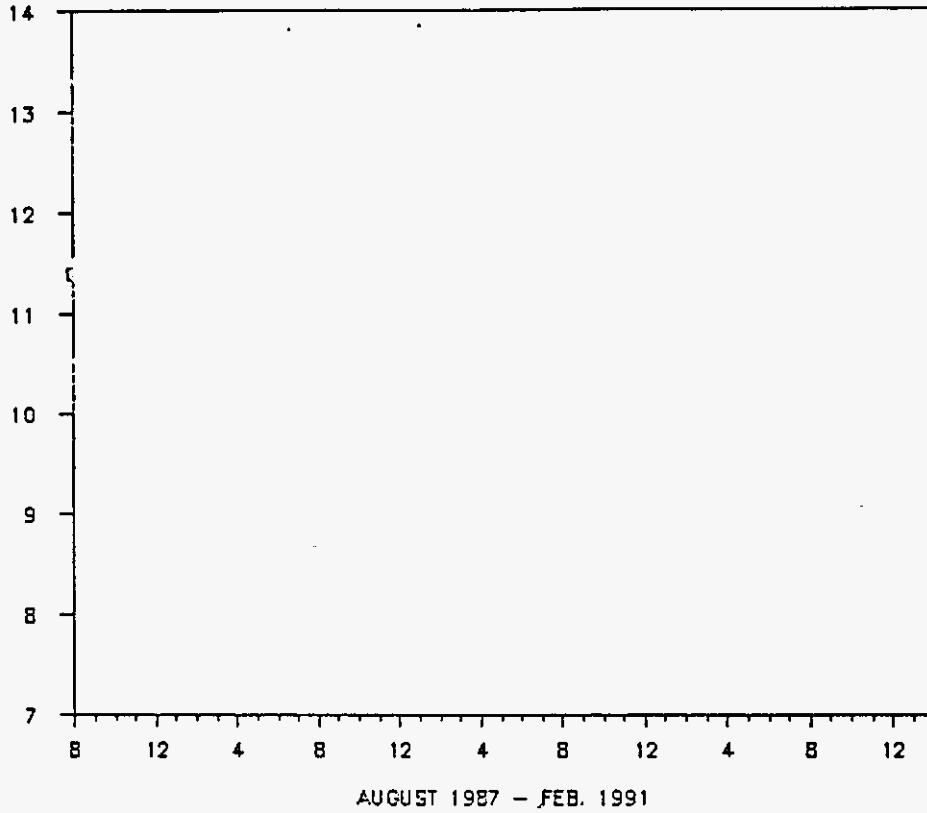
PROPRIETARY

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COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

LOUISIANA

INSIDE WIRE: I & M DEMAND

INSTALLATION UNITS
(Thousands)

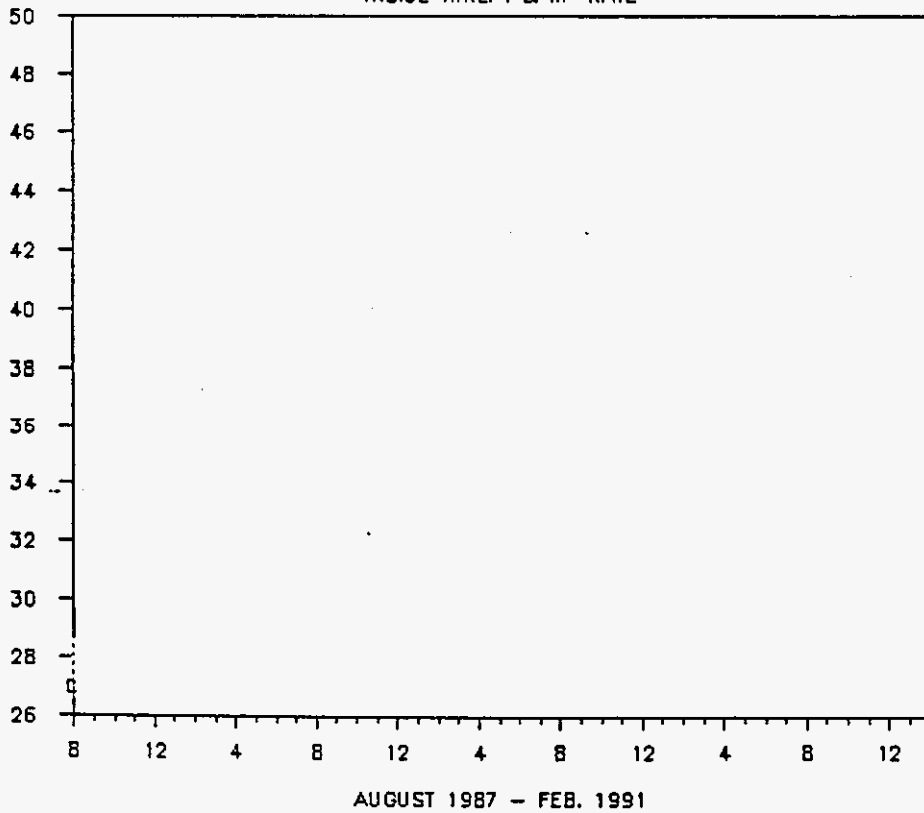


AUGUST 1987 - FEB. 1991

LOUISIANA

INSIDE WIRE: I & M RATE

DOLLARS PER INSTALLATION UNIT



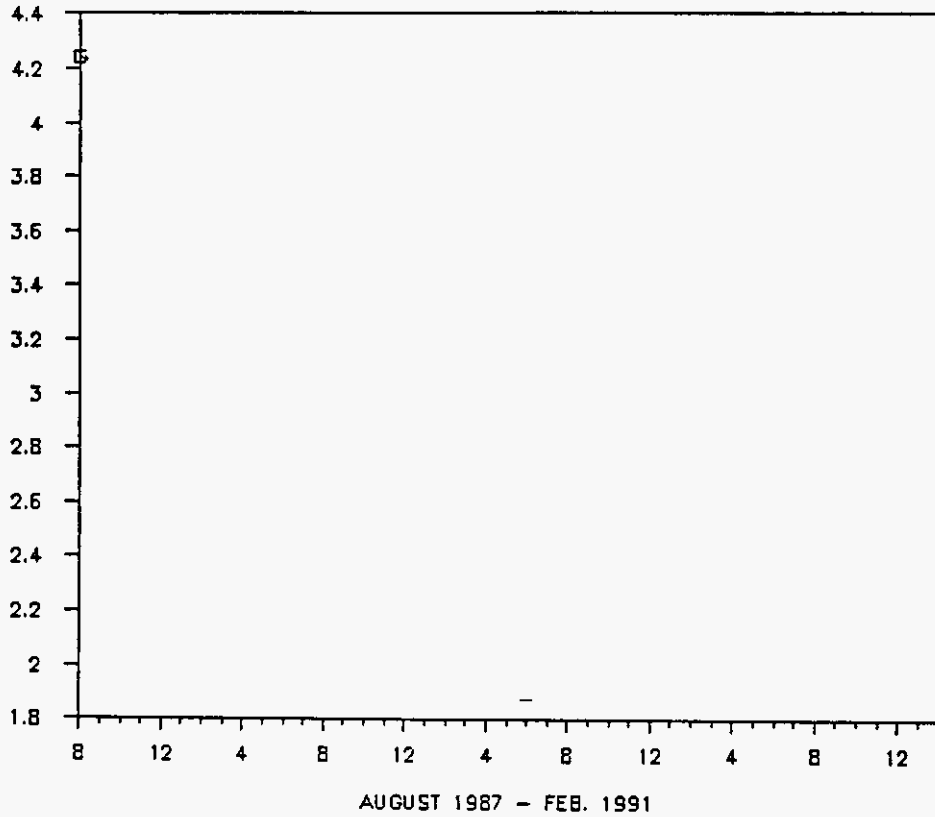
AUGUST 1987 - FEB. 1991

PROPRIETARY
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COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

KENTUCKY

INSIDE WIRE: I & M DEMAND

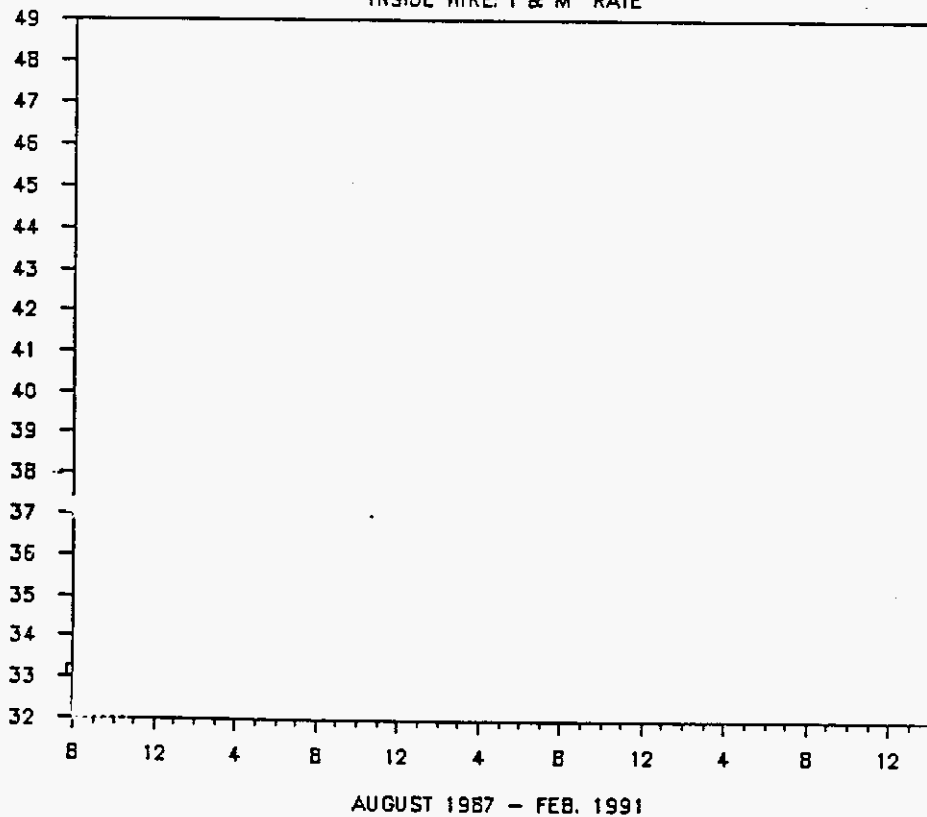
INSTALLATION UNITS
(Thousands)



KENTUCKY

INSIDE WIRE: I & M RATE

AVERAGE DOLLARS PER UNIT



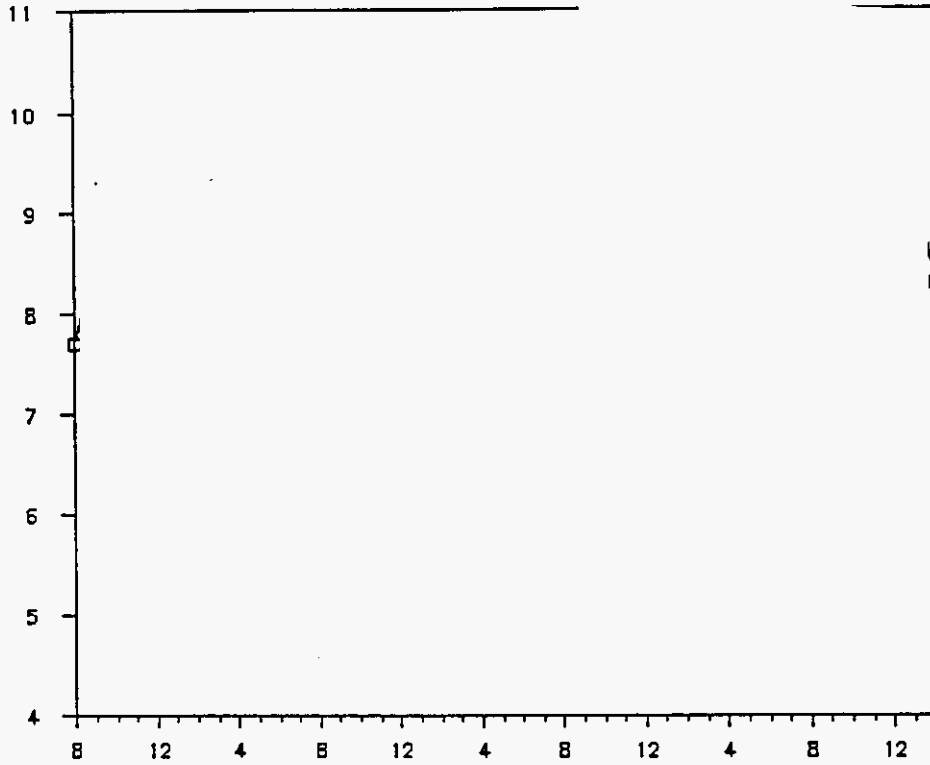
PROPRIETARY

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COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

ALABAMA

INSIDE WIRE: I & M DEMAND

INSTALLATION UNITS
(Thousands)

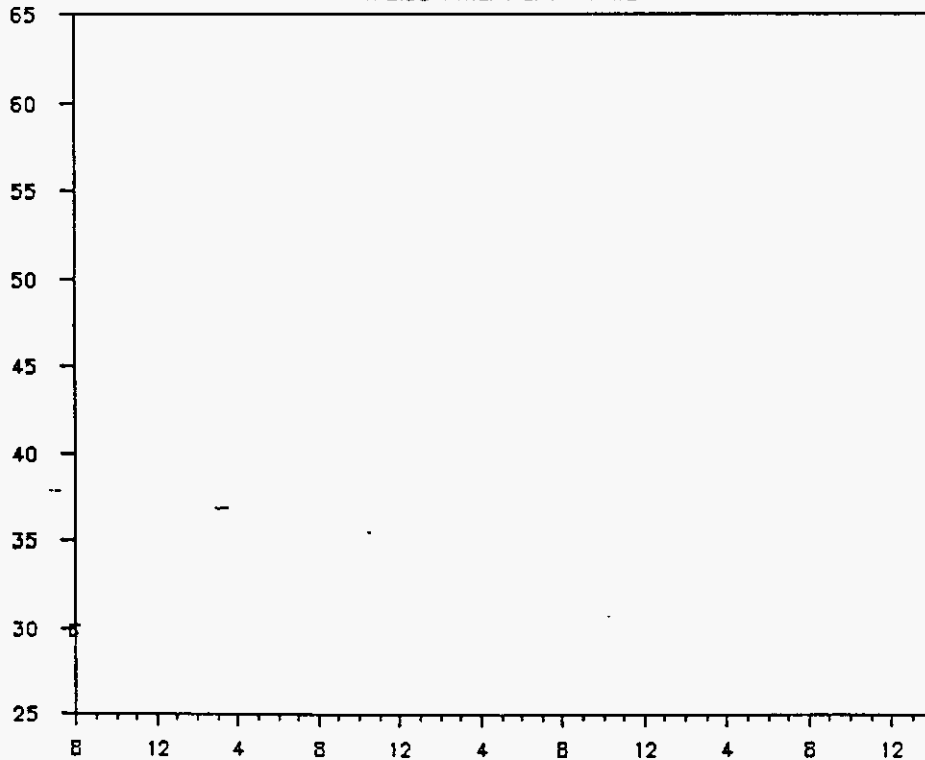


AUGUST 1987 - FEB. 1991

ALABAMA

INSIDE WIRE: I & M RATE

DOLLARS PER INSTALLATION UNIT



AUGUST 1987 - FEB. 1991

PROPRIETARY

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COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

SOUTHERN BELL

MODEL

PROPRIETARY

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BELL SOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

F01R257

0000256

_GENR APR=0
_GENR MAY=0
_GENR JUN=0
_GENR JUL=0
_GENR AUG=0
_GENR SEP=0
_GENR OCT=0
_GENR NOV=0
_IF(MONTH.EQ.1)JAN=1
_IF(MONTH.EQ.2)FEB=1
_IF(MONTH.EQ.3)MAR=1
_IF(MONTH.EQ.4)APR=1
_IF(MONTH.EQ.5)MAY=1
_IF(MONTH.EQ.6)JUN=1
_IF(MONTH.EQ.7)JUL=1
_IF(MONTH.EQ.8)AUG=1
_IF(MONTH.EQ.9)SEP=1
_IF(MONTH.EQ.10)OCT=1
_IF(MONTH.EQ.11)NOV=1
*-----

PROPRIETARY

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BELL SOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

F01B25Z

000025R

|_POOL LOGD JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV &
 | D1 D2 D3 FLT GAT NCT SCT /NCROSS=4 FULL RS LIST BEG=1 END=96 PRED=HPRED
 POOLED CROSS-SECTION TIME-SERIES ESTIMATION
 4 CROSS-SECTIONS AND 24 TIME-PERIODS
 96 TOTAL OBSERVATIONS
 DEPENDENT VARIABLE = LOGD

OLS COEFFICIENTS

0.15422	-0.69245E-01	0.81843E-01	0.26837E-01	0.99531E-01
0.55403E-01	0.47234E-01	0.18494	0.19662E-01	0.14291
0.11228	1.9089	1.0940	0.53217	-0.64855E-01
0.70799E-02	-0.44245E-01	0.26571E-02	.8.3903	

RHO VECTOR

0.59943	0.45754	-0.56131E-01	0.36057
---------	---------	--------------	---------

CONSTANT RHO = 0.36707

VARIANCES

0.21915E-01	0.16448E-01	0.44072E-01	0.39207E-01
-------------	-------------	-------------	-------------

PHI MATRIX

0.21915E-01			
-0.47842E-02	0.16448E-01		
0.74652E-02	0.29946E-02	0.44072E-01	
-0.32789E-02	0.42548E-02	-0.16565E-01	0.39207E-01

FINAL COEFFICIENTS

23

26

F
 BUSE R-SQUARE = 0.9799 BUSE RAW-MOMENT R-SQUARE = 0.9999
 VARIANCE OF THE ESTIMATE-SIGMA**2 = 0.25364
 STANDARD ERROR OF THE ESTIMATE-SIGMA = 0.50363
 SUM OF SQUARED ERRORS-SSE= 19.530
 MEAN OF DEPENDENT VARIABLE = 9.2886
 LOG OF THE LIKELIHOOD FUNCTION = 111.272

PROPRIETARY

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 BELL SOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
 COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

A	B	C	D	E	F	G
VARIABLE NAME	ESTIMATED COEFFICIENT	STANDARD ERROR	T-RATIO 77 DF	PARTIAL CORR.	STANDARDIZED COEFFICIENT	ELASTICITY AT MEANS
3	JAN		4.8078	0.4805		
	FEB		-1.3251	-0.1493		
	MAR		2.6057	0.2847		
	APR		1.6431	0.1840		
	MAY		3.0450	0.3278		
	JUN		2.4552	0.2694		
	JUL		2.0829	0.2310		
	AUG		5.5103	0.5318		
	SEP		1.5834	0.1776		
	OCT		4.8598	0.4845		
	NOV		4.2336	0.4345		
	D1		16.218	0.8795		
	D2		11.565	0.7966		
	D3		4.9281	0.4897		
	FLT		-2.5099	-0.2750		
	GAT		0.85615	0.0971		
	NCT		-2.0341	-0.2258		
21	SCT		0.41717	0.0475		
	CONSTANT		91.039	0.9954		

PROPRIETARY

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 BELL SOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
 COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

F01R257

0000260

A B C

OBS. NO.	OBSERVED VALUE	PREDICTED VALUE	CALCULATED RESIDUAL	
1			0.14824	I*
2			-0.63971	* I
3			-0.40372	* I
4			-0.42942	* I
5			0.15679	I*
6			-0.50261E-01	*
7			0.12079	I*
8			-0.41395E-01	*
9			0.42633	I *
10			-0.22319	*I
11			-0.13153	*I
12			0.81582	I *
13			1.2244	I *
14			0.10287	I*
15			-0.38280	* I
16			0.18540	I*
17			-0.40400	* I
18			-0.40085	* I
19			0.22143	I*
20			-0.49697	* I
21			-0.15444E-01	*
22			0.31442	I *
23			0.36684E-01	*
24			-0.28185	*I
25			-0.46498	* I
26			0.39834E-01	*
27			0.88675	I *
28			-0.11745	*I
29			0.40787	I *
30			0.52934	I *
31			-0.27108	*I
32			0.52011	I *
33			0.25439E-01	*
34			-0.14261	*I
35			-0.87032	* I
36			0.29506	I*
37			-0.31167	* I
38			0.39545	I *
39			0.41523	I *
40			0.60744	I *
41			-0.52483	* I
42			0.53478	I *
43			-0.32647	* I
44			-0.16864	*I
45			-0.32150	* I
46			-0.49859	* I
47			-0.22764	*I
48			-0.98013E-01	*
49			-0.89109	* I
50			0.26543E-01	*
51			0.16140	I*
52			-0.37022E-01	* *
53			0.49374	I *
54			0.29275	I*
55			0.92946E-01	*
56			0.49835	I *
57			0.17777	I*

PROPRIETARY

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 BELL TELEPHONE COMMUNICATIONS OR ITS AFFILIATED
 COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

A B C

58	0.78793E-01	•
59	1.0523	I *
60	0.24858	I*
61	-0.35531E-01	*
62	-0.10908	*I
63	-0.27035	*I
64	-0.55245	* I
65	-0.21273	*I
66	-0.65442	* I
67	0.91824E-01	*
68	-0.30503	* I
69	-0.47736	* I
70	-0.82362E-01	*
71	-0.74433	* I
72	1.1307	I *
73	-0.32641	* I
74	0.14330	I*
75	0.16480	I*
76	0.22024	I*
77	0.26611	I*
78	-0.93992E-01	*
79	-0.49206	* I
80	0.40340	I *
81	-0.97006E-02	•
82	0.32413	I *
83	1.2069	I *
84	-0.32809	* I
85	0.19653	I*
86	0.34186	I *
87	-0.78443E-01	*
88	0.24384	I*
89	-0.22276E-01	*
90	0.68341E-02	*
91	0.14827	I*
92	-0.56519E-01	•
93	-0.10858	*I
94	-0.12469	*I
95	-0.10546	*I
96	-1.5600	• I

DURBIN-WATSON = 1.6585 VON NEUMANN RATIO = 1.6760 RHO = 0.05057
 RESIDUAL SUM = 0.49946 RESIDUAL VARIANCE = 0.25364
 SUM OF ABSOLUTE ERRORS= 32.345
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.9991
 RUNS TEST: 47 RUNS, 46 POSITIVE, 50 NEGATIVE, NORMAL STATISTIC = -0.3940
 |_*-----

PROPRIETARY

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 BELL SOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
 COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

_FC /BEG=97 END=132 MODEL=POOL LIST NC=4 CSNUM=1 PRED=FLD

REQUIRED MEMORY IS PAR= 91 CURRENT PAR= 170
DEPENDENT VARIABLE = LOGD 36 OBSERVATIONS
REGRESSION COEFFICIENTS

5
9

AUTOCORRELATION RHO
0.5994348092524

POOL STANDARD ERROR= 0.148036595582 POOL VARIANCE= 0.219148336314E-01

..WARNING FORECAST STD. ERRORS ONLY VALID FOR OLS

16

OBS. NO.	PREDICTED VALUE	CALCULATED RESIDUAL	STD. ERROR		
97	0.00000E+00		0.97185E-01	*	I
98	0.00000E+00		0.61553E-01	*	I
99	0.00000E+00		0.60240E-01	*	I
100	0.00000E+00		0.60332E-01	*	I
101	0.00000E+00		0.60649E-01	*	I
102	0.00000E+00		0.61077E-01	*	I
103	0.00000E+00		0.61572E-01	*	I
104	0.00000E+00		0.62107E-01	*	I
105	0.00000E+00		0.62668E-01	*	I
106	0.00000E+00		0.63243E-01	*	I
107	0.00000E+00		0.63828E-01	*	I
108	0.00000E+00		0.64511E-01	*	I
109	0.00000E+00		0.72893E-01	*	I
110	0.00000E+00		0.70551E-01	*	I
111	0.00000E+00		0.69873E-01	*	I
112	0.00000E+00		0.69716E-01	*	I
113	0.00000E+00		0.69790E-01	*	I
114	0.00000E+00		0.69991E-01	*	I
115	0.00000E+00		0.70270E-01	*	I
116	0.00000E+00		0.70603E-01	*	I
117	0.00000E+00		0.70977E-01	*	I
118	0.00000E+00		0.71387E-01	*	I
119	0.00000E+00		0.71846E-01	*	I
120	0.00000E+00		0.72477E-01	*	I
121	0.00000E+00		0.81119E-01	*	I
122	0.00000E+00		0.78467E-01	*	I
123	0.00000E+00		0.77584E-01	*	I
124	0.00000E+00		0.77253E-01	*	I
125	0.00000E+00		0.77168E-01	*	I
126	0.00000E+00		0.77216E-01	*	I
127	0.00000E+00		0.77350E-01	*	I
128	0.00000E+00		0.77545E-01	*	I
129	0.00000E+00		0.77790E-01	*	I
130	0.00000E+00		0.78083E-01	*	I
131	0.00000E+00		0.78451E-01	*	I
132	0.00000E+00		0.79037E-01	*	I

SUM OF ABSOLUTE ERRORS= 363.55
R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.0000
MEAN ERROR = -10.099
SUM-SQUARED ERRORS = 3671.7
MEAN SQUARE ERROR = 101.99
MEAN ABSOLUTE ERROR= 10.099

51

PROPRIETARY

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F01B25Z

0000263

ROOT MEAN SQUARE ERROR = 10.099
THEIL INEQUALITY COEFFICIENT U = 0.000

DECOMPOSITION

PROPORTION DUE TO BIAS = 0.99994
PROPORTION DUE TO VARIANCE = 0.57997E-04
PROPORTION DUE TO COVARIANCE = -0.91398E-16

DECOMPOSITION

PROPORTION DUE TO BIAS = 0.99994
PROPORTION DUE TO REGRESSION = 0.57997E-04
PROPORTION DUE TO DISTURBANCE = -0.91398E-16

PROPRIETARY

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F01B25Z

0000264

|_FC /BEG=133 END=168 MODEL=POOL LIST NC=4 CSNUM=2 PRED=GAD

REQUIRED MEMORY IS PAR= 91 CURRENT PAR= 170
DEPENDENT VARIABLE = LOGD 36 OBSERVATIONS
REGRESSION COEFFICIENTS

11

11

AUTOCORRELATION RHO
0.4575406302093

POOL STANDARD ERROR= 0.128250364742 POOL VARIANCE= 0.164481560564E-01

..WARNING FORECAST STD. ERRORS ONLY VALID FOR OLS

OBS. NO.	A OBSERVED VALUE	B PREDICTED VALUE	C CALCULATED RESIDUAL	D STD. ERROR	*	I
133	0.00000E+00			0.81243E-01	*	I
134	0.00000E+00			0.48310E-01	*	I
135	0.00000E+00			0.46775E-01	*	I
136	0.00000E+00			0.46276E-01	*	I
137	0.00000E+00			0.46016E-01	*	I
138	0.00000E+00			0.45913E-01	*	I
139	0.00000E+00			0.45924E-01	*	I
140	0.00000E+00			0.46019E-01	*	I
141	0.00000E+00			0.46184E-01	*	I
142	0.00000E+00			0.46423E-01	*	I
143	0.00000E+00			0.46789E-01	*	I
144	0.00000E+00			0.47541E-01	*	I
145	0.00000E+00			0.56922E-01	*	I
146	0.00000E+00			0.54893E-01	*	I
147	0.00000E+00			0.53766E-01	*	I
148	0.00000E+00			0.53018E-01	*	I
149	0.00000E+00			0.52520E-01	*	I
150	0.00000E+00			0.52202E-01	*	I
151	0.00000E+00			0.52014E-01	*	I
152	0.00000E+00			0.51929E-01	*	I
153	0.00000E+00			0.51934E-01	*	I
154	0.00000E+00			0.52040E-01	*	I
155	0.00000E+00			0.52320E-01	*	I
156	0.00000E+00			0.53074E-01	*	I
157	0.00000E+00			0.62887E-01	*	I
158	0.00000E+00			0.60668E-01	*	I
159	0.00000E+00			0.59368E-01	*	I
160	0.00000E+00			0.58461E-01	*	I
161	0.00000E+00			0.57815E-01	*	I
162	0.00000E+00			0.57357E-01	*	I
163	0.00000E+00			0.57040E-01	*	I
164	0.00000E+00			0.56834E-01	*	I
165	0.00000E+00			0.56729E-01	*	I
166	0.00000E+00			0.56741E-01	*	I
167	0.00000E+00			0.56955E-01	*	I
168	0.00000E+00			0.57697E-01	*	I

SUM OF ABSOLUTE ERRORS= 30
R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.0000
MEAN ERROR = -9.5995
SUM-SQUARED ERRORS = 3317.6
MEAN SQUARE ERROR = 92.156

PROPRIETARY

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COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

F01R257

0000265

5

9

16

51

MEAN ABSOLUTE ERROR= 9.5995
ROOT MEAN SQUARE ERROR = 9.5998
THEIL INEQUALITY COEFFICIENT U = 0.000

DECOMPOSITION

PROPORTION DUE TO BIAS = 0.99994
PROPORTION DUE TO VARIANCE = 0.59765E-04
PROPORTION DUE TO COVARIANCE = 0.35833E-16

DECOMPOSITION

PROPORTION DUE TO BIAS = 0.99994
PROPORTION DUE TO REGRESSION = 0.59765E-04
PROPORTION DUE TO DISTURBANCE = 0.35833E-16

PROPRIETARY

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F01B25Z

0000266

FC /BEG=169 END=204 MODEL=POOL LIST NC=4 CSNUM=3 PRED=NCD

REQUIRED MEMORY IS PAR= 91 CURRENT PAR= 170
DEPENDENT VARIABLE = LOGD 36 OBSERVATIONS
REGRESSION COEFFICIENTS

5
9

AUTOCORRELATION RHO
-0.5613078788124E-01

POOL STANDARD ERROR= 0.209933736265 POOL VARIANCE= 0.440721736222E-01

..WARNING FORECAST STD. ERRORS ONLY VALID FOR OLS

16

A	B	C	D		
OBS. NO.	OBSERVED VALUE	PREDICTED VALUE	CALCULATED RESIDUAL	STD. ERROR	
169	0.00000E+00			0.11564	* I
170	0.00000E+00			0.50663E-01	* I
171	0.00000E+00			0.44911E-01	* I
172	0.00000E+00			0.44037E-01	* I
173	0.00000E+00			0.43590E-01	* I
174	0.00000E+00			0.43317E-01	* I
175	0.00000E+00			0.43177E-01	* I
176	0.00000E+00			0.43149E-01	* I
177	0.00000E+00			0.43245E-01	* I
178	0.00000E+00			0.43534E-01	* I
179	0.00000E+00			0.44233E-01	* I
180	0.00000E+00			0.46011E-01	* I
181	0.00000E+00			0.54240E-01	* I
182	0.00000E+00			0.52818E-01	* I
183	0.00000E+00			0.51694E-01	* I
184	0.00000E+00			0.50785E-01	* I
185	0.00000E+00			0.50092E-01	* I
186	0.00000E+00			0.49584E-01	* I
187	0.00000E+00			0.49229E-01	* I
188	0.00000E+00			0.49008E-01	* I
189	0.00000E+00			0.48932E-01	* I
190	0.00000E+00			0.49082E-01	* I
191	0.00000E+00			0.49697E-01	* I
192	0.00000E+00			0.51488E-01	* I
193	0.00000E+00			0.60053E-01	* I
194	0.00000E+00			0.58565E-01	* I
195	0.00000E+00			0.57296E-01	* I
196	0.00000E+00			0.56226E-01	* I
197	0.00000E+00			0.55377E-01	* I
198	0.00000E+00			0.54721E-01	* I
199	0.00000E+00			0.54228E-01	* I
200	0.00000E+00			0.53878E-01	* I
201	0.00000E+00			0.53686E-01	* I
202	0.00000E+00			0.53737E-01	* I
203	0.00000E+00			0.54284E-01	* I
204	0.00000E+00			0.56064E-01	* I

51

SUM OF ABSOLUTE ERRORS=
R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.0000
MEAN ERROR = -8.8170
SUM-SQUARED ERRORS = 2798.8
MEAN SQUARE ERROR = 77.746

PROPRIETARY

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MEAN ABSOLUTE ERROR= 8.8170
ROOT MEAN SQUARE ERROR = 8.8174
THEIL INEQUALITY COEFFICIENT U = 0.000

DECOMPOSITION

PROPORTION DUE TO BIAS = 0.99993
PROPORTION DUE TO VARIANCE = 0.71997E-04
PROPORTION DUE TO COVARIANCE = -0.90965E-16

DECOMPOSITION

PROPORTION DUE TO BIAS = 0.99993
PROPORTION DUE TO REGRESSION = 0.71997E-04
PROPORTION DUE TO DISTURBANCE = -0.90965E-16

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COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

F01B25Z

0000258

|_FC /BEG=205 END=240 MODEL=POOL LIST NC=4 CSNUM=4 PRED=SCD

REQUIRED MEMORY IS PAR= 91 CURRENT PAR= 170
DEPENDENT VARIABLE = LOGD 36 OBSERVATIONS
REGRESSION COEFFICIENTS

2005000

AUTOCORRELATION RHO
0.3605705425117

POOL STANDARD ERROR= 0.198008344515 POOL VARIANCE= 0.392073044976E-01
..WARNING FORECAST STD. ERRORS ONLY VALID FOR OLS

OBS. NO.	OBSERVED VALUE	PREDICTED VALUE	CALCULATED RESIDUAL	STD. ERROR		
205	0.00000E+00			0.11543	*	I
206	0.00000E+00			0.60179E-01	*	I
207	0.00000E+00			0.56620E-01	*	I
208	0.00000E+00			0.56473E-01	*	I
209	0.00000E+00			0.56648E-01	*	I
210	0.00000E+00			0.56954E-01	*	I
211	0.00000E+00			0.57346E-01	*	I
212	0.00000E+00			0.57802E-01	*	I
213	0.00000E+00			0.58313E-01	*	I
214	0.00000E+00			0.58897E-01	*	I
215	0.00000E+00			0.59626E-01	*	I
216	0.00000E+00			0.60786E-01	*	I
217	0.00000E+00			0.68635E-01	*	I
218	0.00000E+00			0.66954E-01	*	I
219	0.00000E+00			0.66281E-01	*	I
220	0.00000E+00			0.65988E-01	*	I
221	0.00000E+00			0.65914E-01	*	I
222	0.00000E+00			0.65981E-01	*	I
223	0.00000E+00			0.66147E-01	*	I
224	0.00000E+00			0.66390E-01	*	I
225	0.00000E+00			0.66704E-01	*	I
226	0.00000E+00			0.67113E-01	*	I
227	0.00000E+00			0.67703E-01	*	I
228	0.00000E+00			0.68789E-01	*	I
229	0.00000E+00			0.76840E-01	*	I
230	0.00000E+00			0.74935E-01	*	I
231	0.00000E+00			0.74072E-01	*	I
232	0.00000E+00			0.73606E-01	*	I
233	0.00000E+00			0.73367E-01	*	I
234	0.00000E+00			0.73276E-01	*	I
235	0.00000E+00			0.73292E-01	*	I
236	0.00000E+00			0.73391E-01	*	I
237	0.00000E+00			0.73571E-01	*	I
238	0.00000E+00			0.73857E-01	*	I
239	0.00000E+00			0.74347E-01	*	I
240	0.00000E+00			0.75370E-01	*	I

16

2005000

51

SUM OF ABSOLUTE ERRORS=
R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.0000
MEAN ERROR = -8.4771
SUM-SQUARED ERRORS = 2587.2
MEAN SQUARE ERROR = 71.866

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F01R257

0000269

MEAN ABSOLUTE ERROR= 8.4771
ROOT MEAN SQUARE ERROR = 8.4774
THEIL INEQUALITY COEFFICIENT U = 0.000

DECOMPOSITION

PROPORTION DUE TO BIAS = 0.99992
PROPORTION DUE TO VARIANCE = 0.76281E-04
PROPORTION DUE TO COVARIANCE = -0.98120E-16

DECOMPOSITION

PROPORTION DUE TO BIAS = 0.99992
PROPORTION DUE TO REGRESSION = 0.76281E-04
PROPORTION DUE TO DISTURBANCE = -0.98120E-16

_GENR FLD=EXP(FLD)
_GENR GAD=EXP(GAD)
_GENR NCD=EXP(NCD)
_GENR SCD=EXP(SCD)
_SMPL 1 96
_GENR HPRED=EXP(HPRED)
_WRITE(12) OBS MONTH YEAR DEMAND HPRED
_SMPL 97 240
_WRITE(11) FLD GAD NCD SCD
_GENR FLREV=PRICE*FLD
_GENR GAREV=PRICE*GAD
_GENR NCREV=PRICE*NCD
_GENR SCREV=PRICE*SCD
_* -- We are now going to print the BASE FORECAST for each state --

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FOIB25Z

0000270

SOUTHERN BELL
 LINE ITEM DEMAND AS PERCENT OF TOTAL
 AVERAGE 1990

		FL	GA	NC	SC
		-----	-----	-----	-----
54				
55				
56				
57				
58				
59				
61				
62				
		-----	-----	-----	-----
		1.00	1.00	1.00	1.00

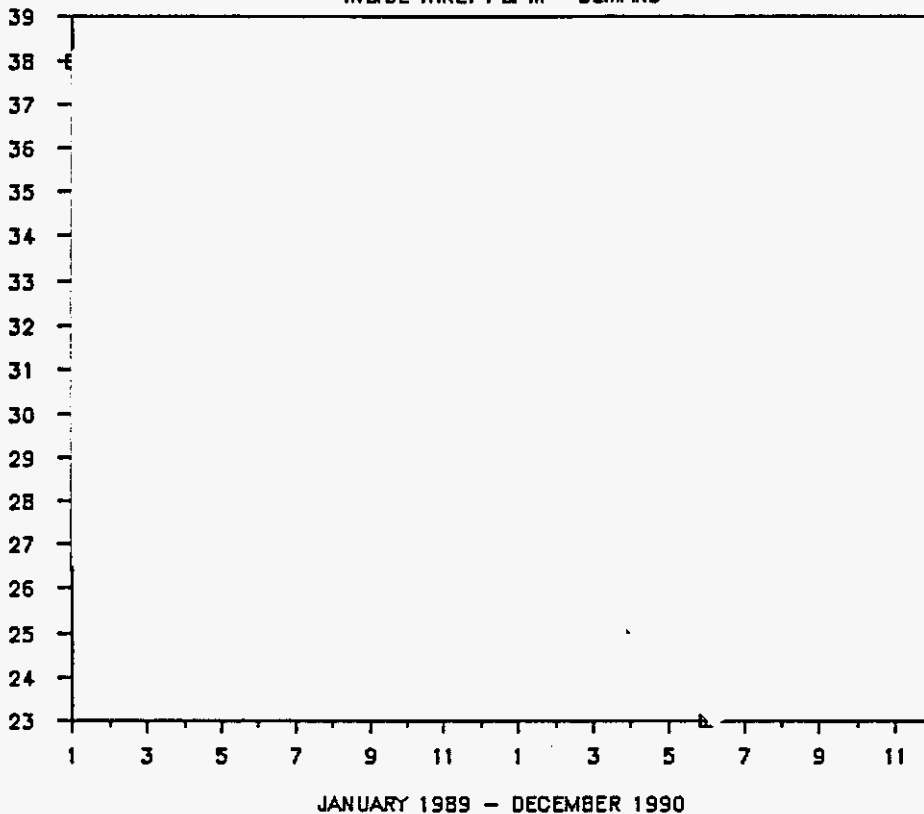
PROPRIETARY

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 COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

FLORIDA

INSIDE WIRE: I & M DEMAND

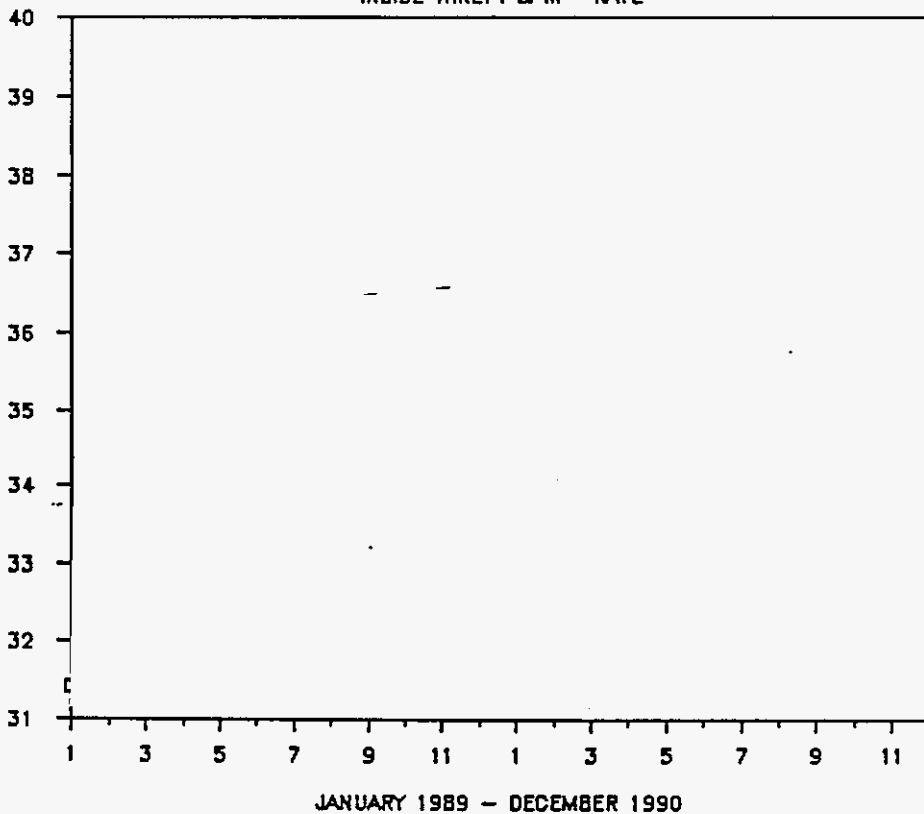
I&M UNITS
(Thousands)



FLORIDA

INSIDE WIRE: I & M RATE

AVERAGE DOLLARS PER UNIT



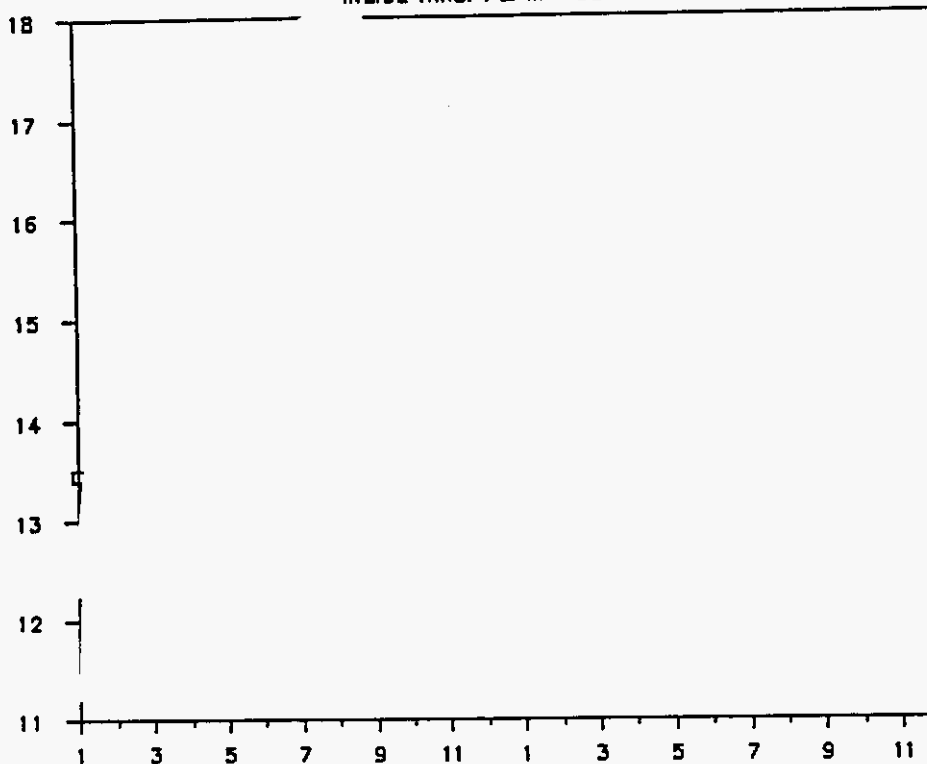
PROPRIETARY

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COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

GEORGIA

INSIDE WIRE: I & M DEMAND

I&M UNITS
(Thousands)

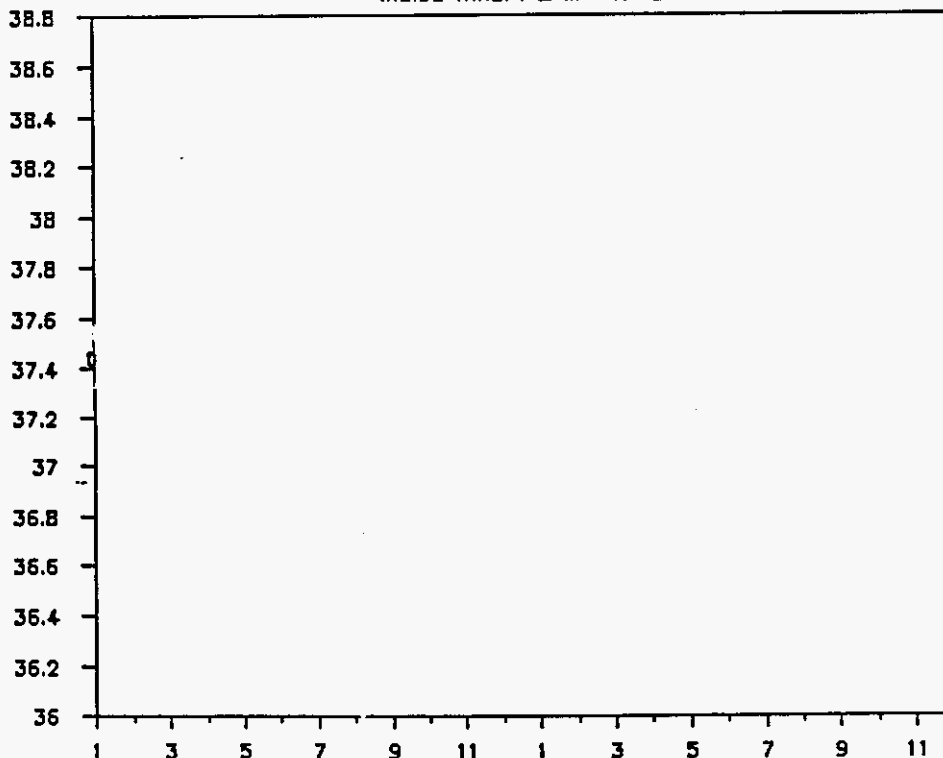


JANUARY 1989 - DECEMBER 1990

GEORGIA

INSIDE WIRE: I & M RATE

AVERAGE DOLLARS PER UNIT



JANUARY 1989 - DECEMBER 1990

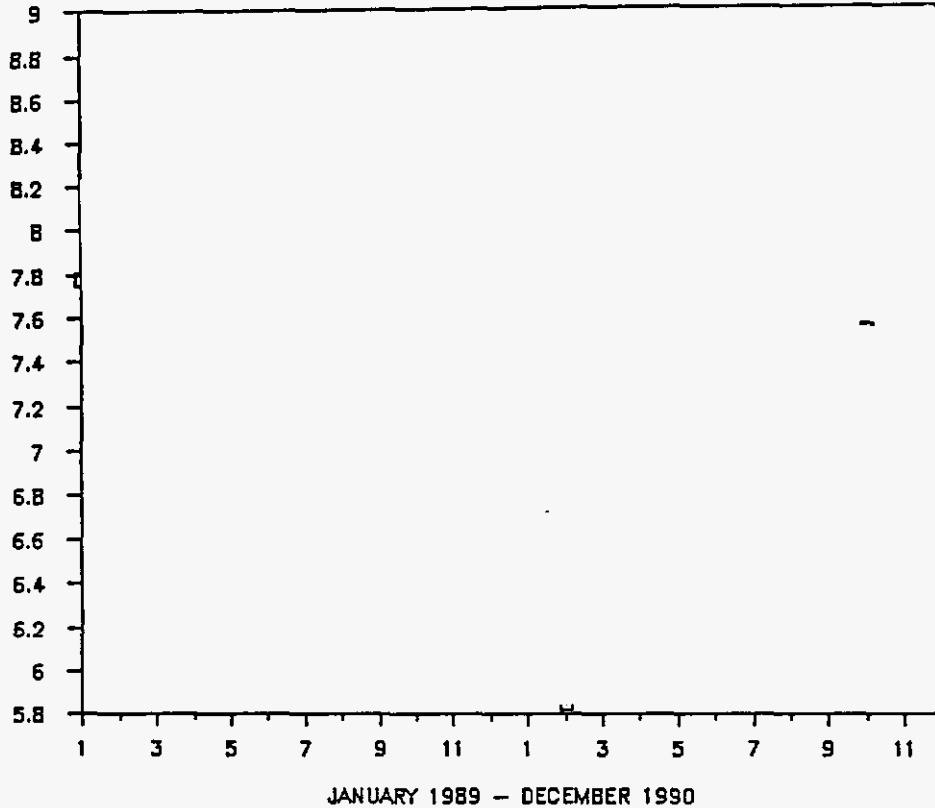
PROPRIETARY

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COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

NORTH CAROLINA

INSIDE WIRE: I & M DEMAND

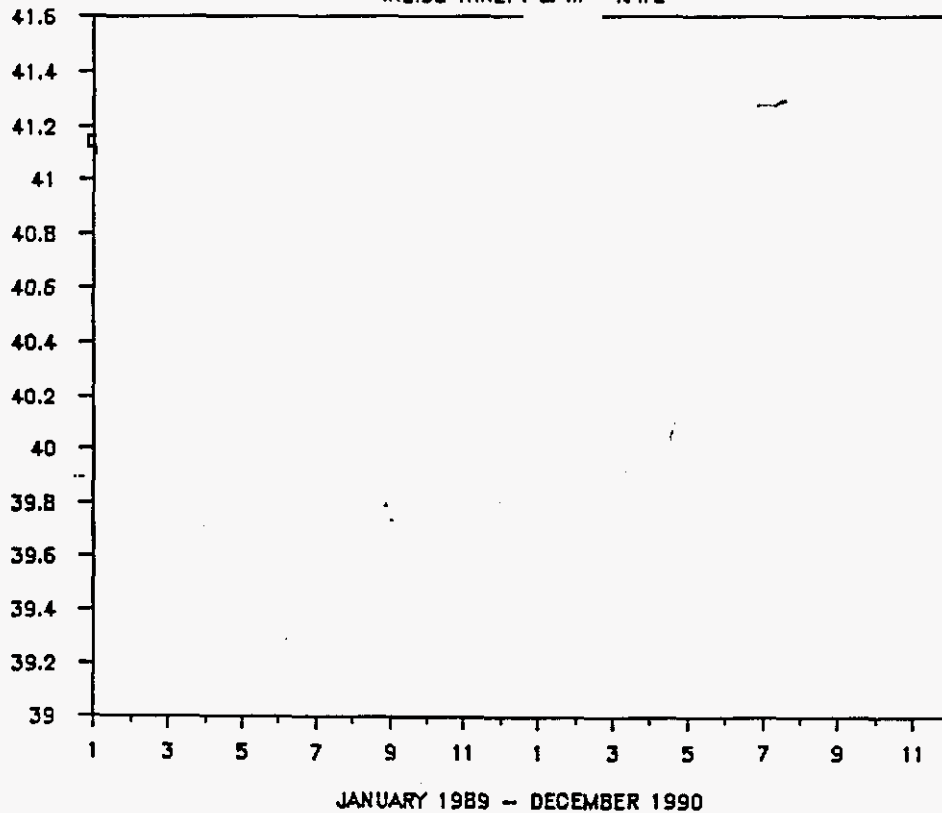
I&M UNITS
(Thousands)



NORTH CAROLINA

INSIDE WIRE: I & M RATE

AVERAGE DOLLARS PER UNIT



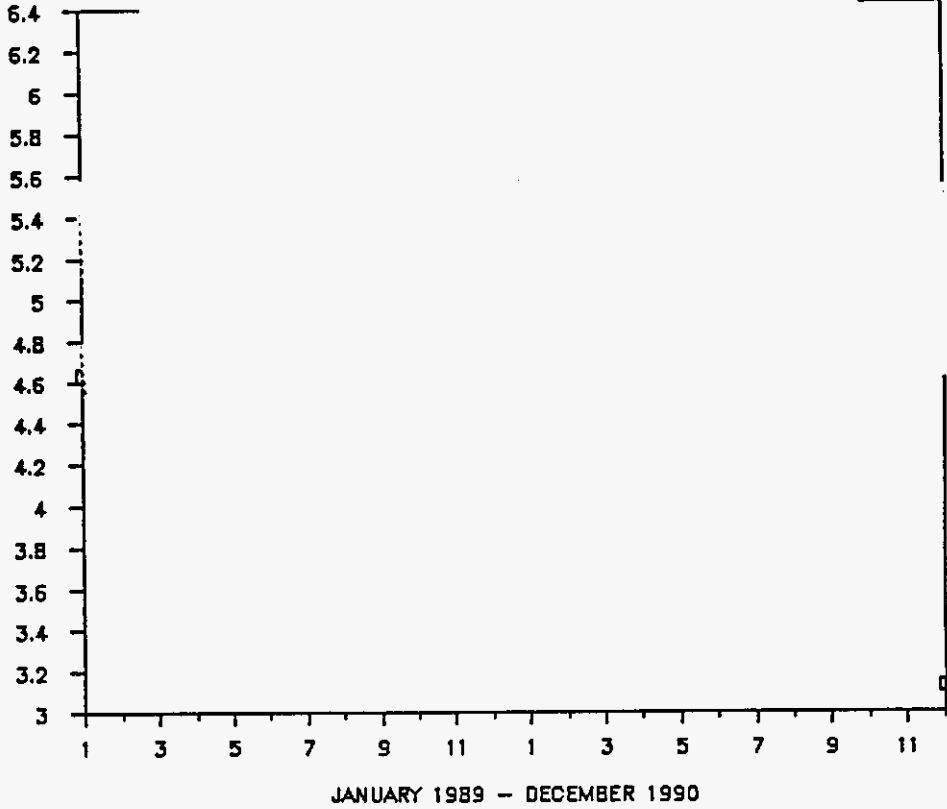
PROPRIETARY

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FELLSOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

SOUTH CAROLINA

INSIDE WIRE: I & M DEMAND

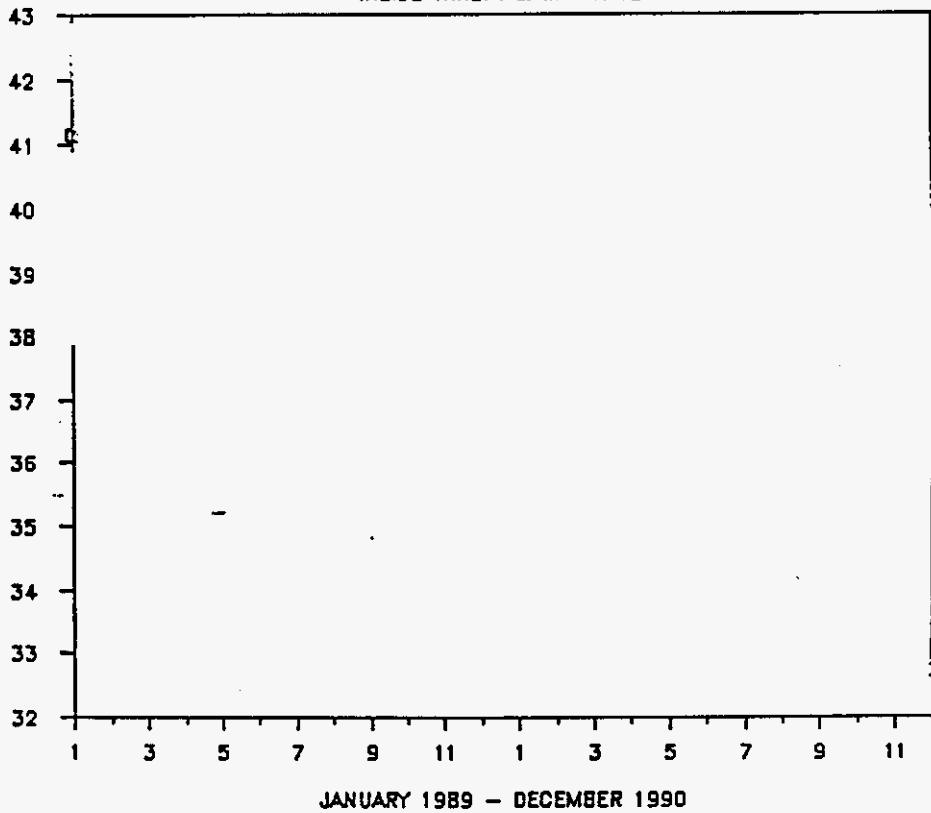
INM UNITS
(Thousands)



SOUTH CAROLINA

INSIDE WIRE: I & M RATE

AVERAGE DOLLARS PER UNIT

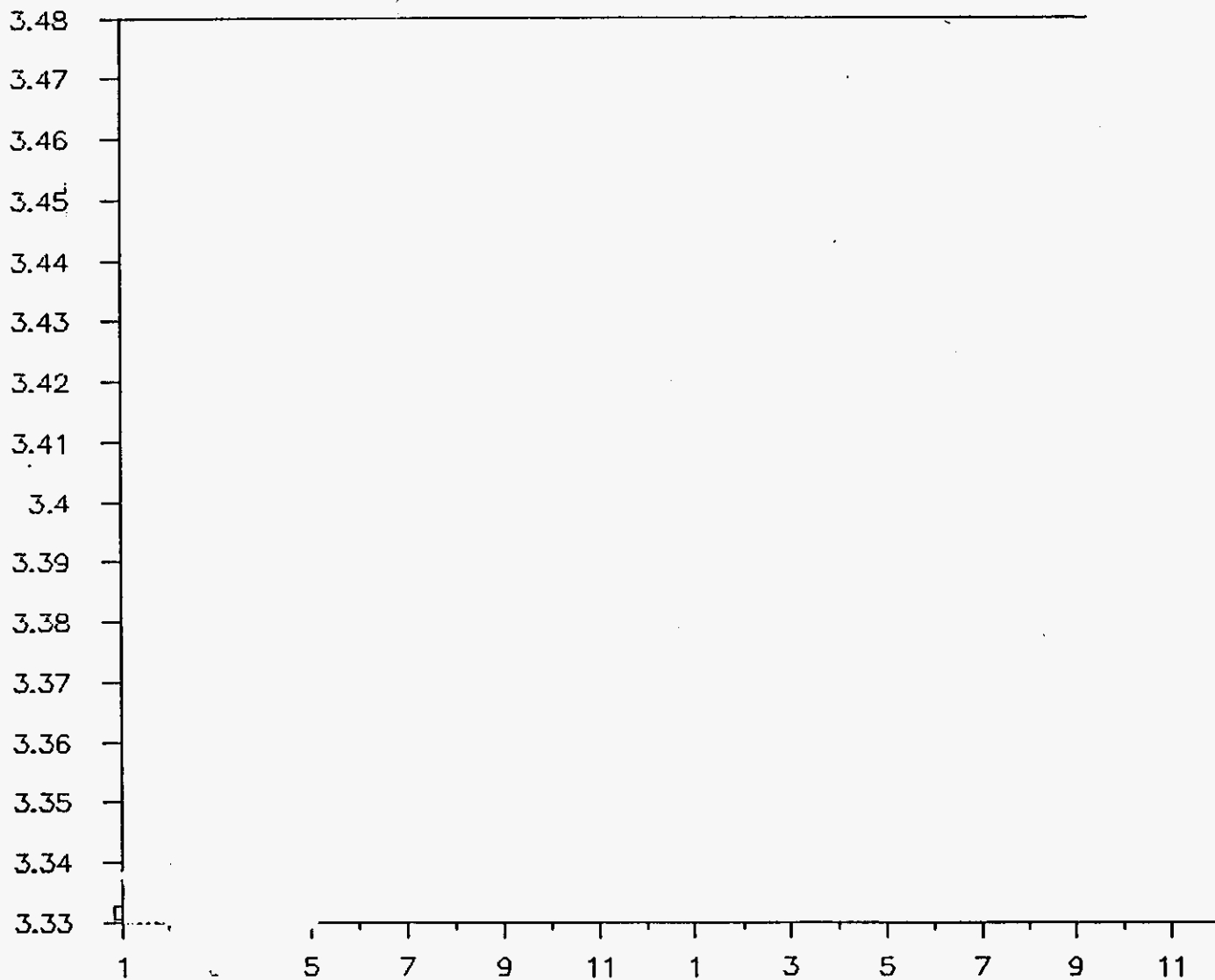


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GEORGIA

REAL INCOME



(Thousands)

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JANUARY 1989 - DECEMBER 1990

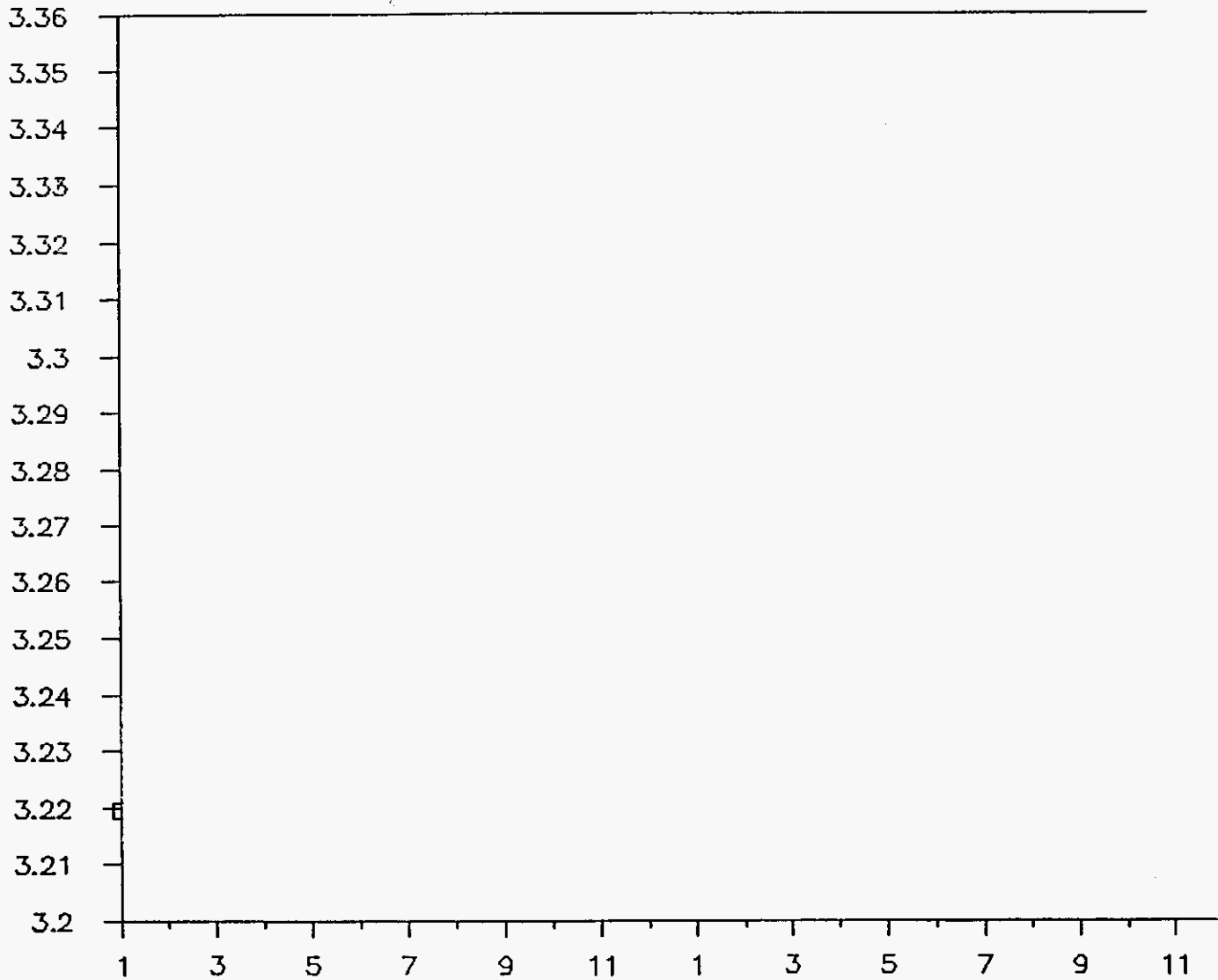
0000275

010257

NORTH CAROLINA

REAL INCOME

(Thousands)



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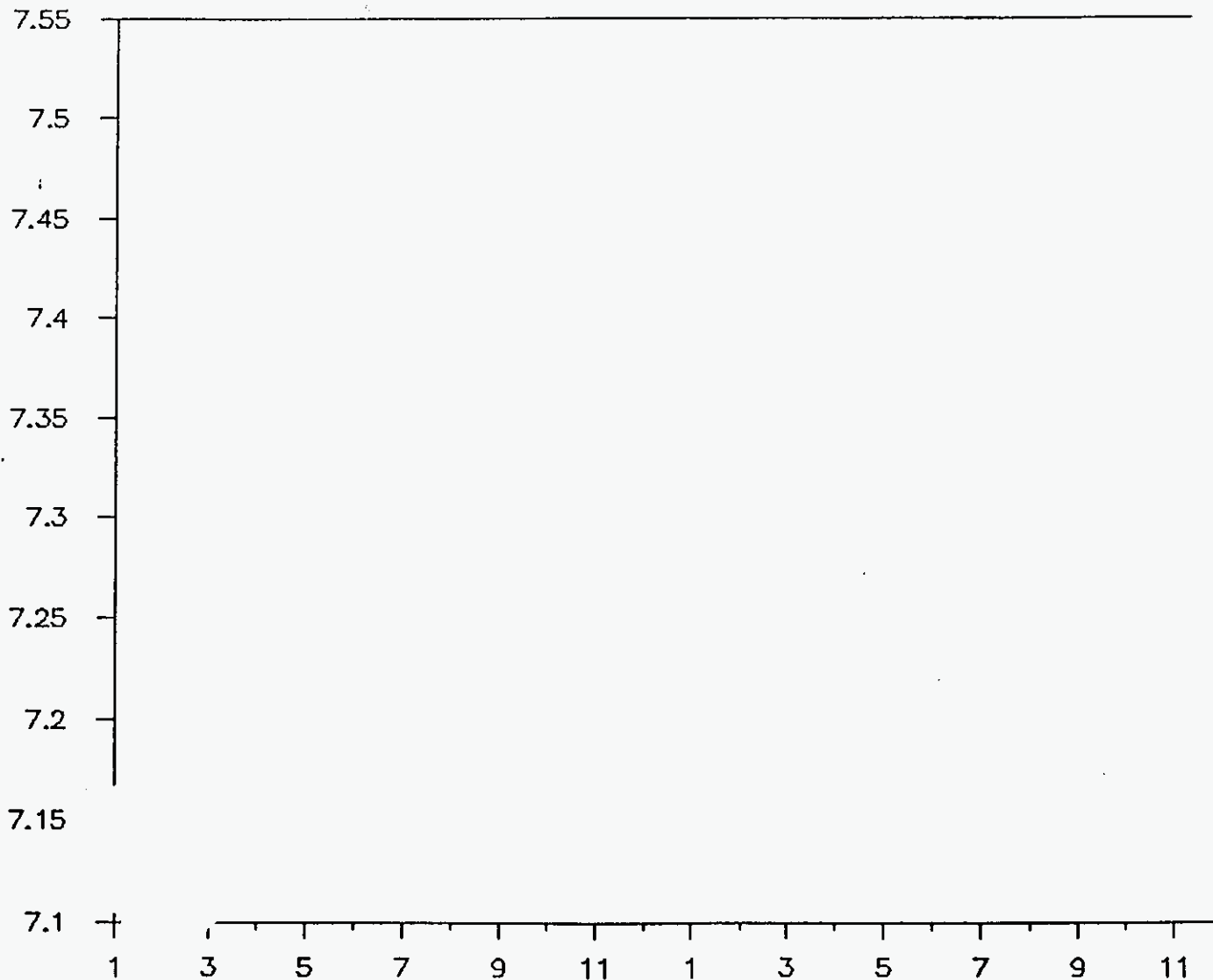
JANUARY 1989 - DECEMBER 1990

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F01B25Z

FLORDIA

REAL INCOME



JANUARY 1989 - DECEMBER 1990

PROPRIETARY

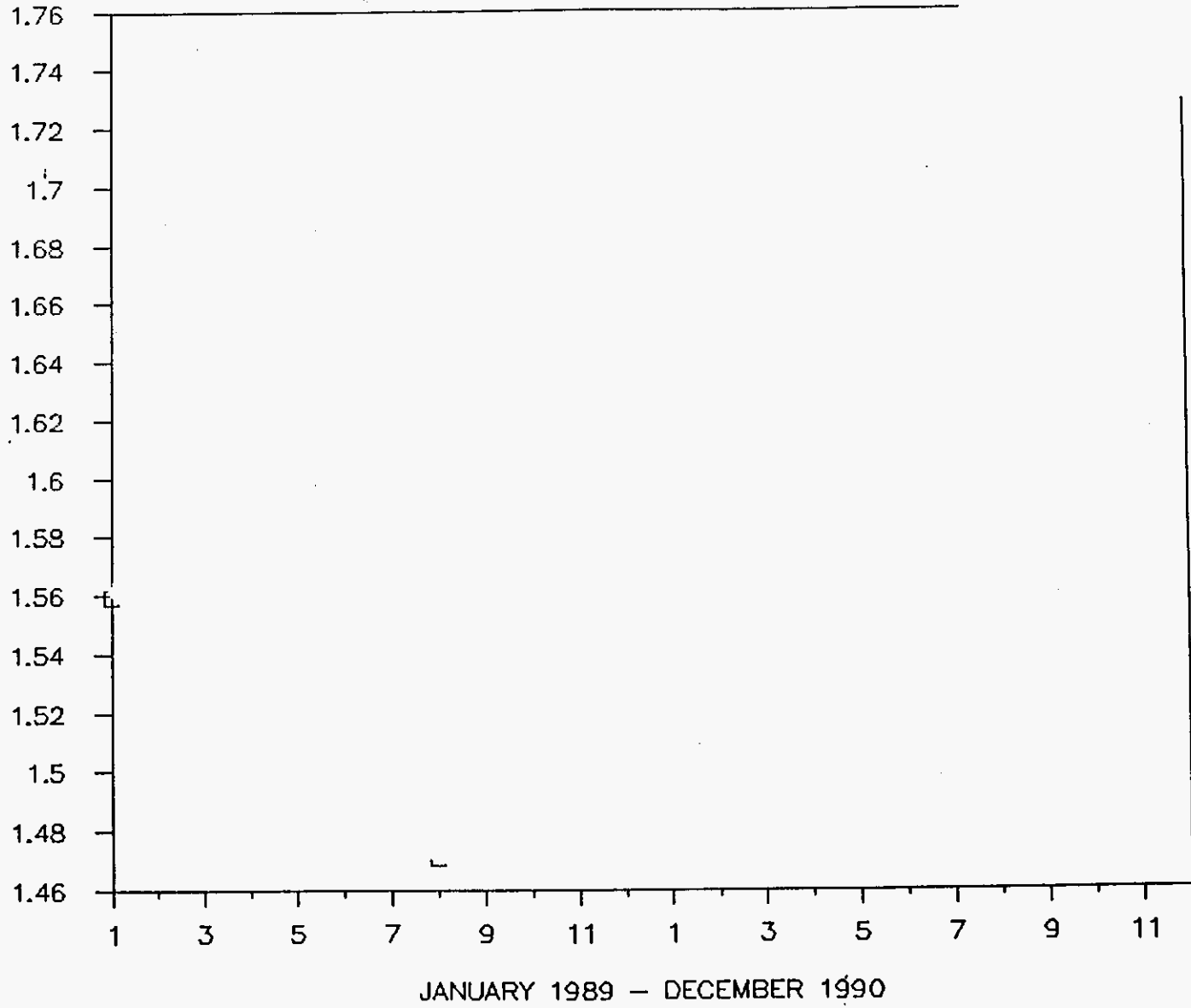
(spuodnoH)
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F01R257

NNNN27R

SOUTH CAROLINA

REAL INCOME



(spusnoHL)

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BellSouth Telecommunications ECONOMIC ANALYSIS

DEMAND ANALYSIS: INSIDE WIRE MONTHLY PLANS Book 2 of 2



jsm
4/29/93

DOCUMENT NUMBER-DATE

10285 SEP 23 88

1700-RECORDS/REPORTING.

F01B25Z

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STATISTICAL DOCUMENTATION

The following information contains the statistical documentation associated with the univariate projections and the econometric models developed to project the demand for monthly Inside Wire plans under "business as usual conditions". Univariate techniques were used to forecast WMR and WMQ plans in Southern Bell. All other forecasts were developed through regression techniques. Also enclosed are copies of the quarterly reports used in determining mutual subscription in Southern Bell.

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SOUTHERN BELL MODELS

WMR

WMQ

SEQ1X

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```

_GENR NOV=0
_GENR DEC=0
_IF(MO.EQ.1)JAN=1
_IF(MO.EQ.2)FEB=1
_IF(MO.EQ.3)MAR=1
_IF(MO.EQ.4)APR=1
_IF(MO.EQ.5)MAY=1
_IF(MO.EQ.6)JUN=1
_IF(MO.EQ.7)JUL=1
_IF(MO.EQ.8)AUG=1
_IF(MO.EQ.9)SEP=1
_IF(MO.EQ.10)OCT=1
_IF(MO.EQ.11)NOV=1
_IF(MO.EQ.12)DEC=1

```

```

* -----
* CREATING STATE DUMMIES
* -----

```

```

_GENR FL=0
_GENR GA=0
_GENR NC=0
_GENR SC=0
_IF(STATE.EQ.2)FL=1
_IF(STATE.EQ.3)GA=1
_IF(STATE.EQ.7)NC=1
_IF(STATE.EQ.8)SC=1

```

```

* -----
_STAT /ALL

```

NAME	N	MEAN	ST. DEV	VARIANCE	MINIMUM	MAXIMUM
PREFD	576	0.00000	0.00000	0.00000	0.00000	0.00000
PREDG	576	0.00000	0.00000	0.00000	0.00000	0.00000
PREDN	576	0.00000	0.00000	0.00000	0.00000	0.00000
PREDS	576	0.00000	0.00000	0.00000	0.00000	0.00000
X1	576	72.500	41.604	1730.9	1.0000	144.00
X2	576	5.0000	2.5517	6.5113	2.0000	8.0000
TIME	576	72.500	41.604	1730.9	1.0000	144.00
STATE	576	5.0000	2.5517	6.5113	2.0000	8.0000
YR	576	92.507	3.4631	11.993	87.000	98.000
MO	576	6.5000	3.4551	11.937	1.0000	12.000
WMR	576	0.69102E+06	0.52956E+06	0.28044E+12	49487.	0.28316E+07
AWMR	576	0.67303E+06	0.52126E+06	0.27171E+12	49487.	0.28316E+07
WMQ	576	0.26277E+06	0.21073E+06	0.44406E+11	1511.0	0.10894E+07
SEQ	576	0.28555E+06	0.51007E+06	0.26017E+12	0.00000	0.20576E+07
SEQR	576	1.9141	0.78684	0.61912	0.00000	2.5000
RLINES	576	0.19534E+07	0.10772E+07	0.11604E+13	0.71203E+06	0.44531E+07
IRLINES	576	124.20	15.870	251.87	99.960	160.79
BLINES	576	0.51536E+06	0.31912E+06	0.10184E+12	0.14128E+06	0.13343E+07
IBLINES	576	140.34	24.782	614.17	100.00	203.68
TLINES	576	0.24688E+07	0.13952E+07	0.19466E+13	0.85331E+06	0.57874E+07
ITLINES	576	127.13	17.182	295.21	100.00	168.53
TOTOBS	576	288.50	166.42	27696.	1.0000	576.00
JAN	576	0.83333E-01	0.27663	0.76522E-01	0.00000	1.0000
FEB	576	0.83333E-01	0.27663	0.76522E-01	0.00000	1.0000
MAR	576	0.83333E-01	0.27663	0.76522E-01	0.00000	1.0000
APR	576	0.83333E-01	0.27663	0.76522E-01	0.00000	1.0000
MAY	576	0.83333E-01	0.27663	0.76522E-01	0.00000	1.0000
JUN	576	0.83333E-01	0.27663	0.76522E-01	0.00000	1.0000
JUL	576	0.83333E-01	0.27663	0.76522E-01	0.00000	1.0000
AUG	576	0.83333E-01	0.27663	0.76522E-01	0.00000	1.0000
SEP	576	0.83333E-01	0.27663	0.76522E-01	0.00000	1.0000
OCT	576	0.83333E-01	0.27663	0.76522E-01	0.00000	1.0000

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0000204

FOI B25Z

A B C

21	-1375.2	* I
22	-2753.5	* I
23	-4045.6	* I
24	-6402.4	* I
25	-401.82	* I
26	4482.7	I *
27	6800.3	I *
28	2324.6	I *
29	644.93	I *
30	5274.0	I *
31	121.84	* I
32	9270.3	I *
33	1999.8	I *
34	5118.9	I *
35	7656.8	I *
36	4669.8	I *
37	8400.6	I *
38	4781.9	I *
39	6362.2	I *
40	-1766.7	* I
41	1641.2	I *
42	4134.1	I *
43	-3213.7	* I
44	7833.2	I *
45	2738.1	I *
46	5917.5	I *
47	-14269.	* I
48	-775.36	* I
49	3034.0	I *
50	1516.7	I *
51	1556.6	I *
52	-7027.5	* I
53	-2236.2	* I
54	-1614.8	* I
55	-2931.9	* I
56	1527.9	I *
57	-4529.1	* I
58	26.826	* I
59	1181.0	I *
60	-408.20	* I
61	8108.3	I *
62	6972.5	I *
63	1736.2	I *
64	-431.38	* I
65	-2336.2	* I
66	-3382.3	* I
67	-12964.	* I
68	-17141.	* I
69	-8820.4	* I
70	-1206.8	* I
71	-2673.5	* I
72	-3116.9	* I
73	-6082.8	* I
74	-2675.8	* I

DURBIN-WATSON = 1.1876 VON NEUMANN RATIO = 1.2064 RHO = 0.40464
 RESIDUAL SUM = -0.71304E-09 RESIDUAL VARIANCE = 0.32198E+08
 SUM OF ABSOLUTE ERRORS = 0.27294E+06
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.9999
 RUNS TEST: 20 RUNS, 32 POSITIVE, 32 NEGATIVE, NORMAL STATISTIC = -3.2761

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0000286

F01R25Z

_FC /BEG=74 END=144 BLUP PREDICT=PREDF MODEL=AUTO ESTEND=74

REQUIRED MEMORY IS PAR= 197 CURRENT PAR= 5555
..ASSUMING ESTIMATION ENDED AT OBSERVATION 74
DEPENDENT VARIABLE = SEQ 71 OBSERVATIONS
REGRESSION COEFFICIENTS

6

AUTOCORRELATION RHO
0.9643568449946
USER SPECIFIED RHO= 0.96436
USER SPECIFIED SRHO= 0.00000
..FORECAST STD. ERRORS USE JUDGE(1985, EQ. 8.3.13)
IGNORE FORECASTS AND STD. ERRORS BEFORE OBS. 75

BLUP IS ACTIVE - PREDICTED VALUES ADJUSTED WITH LAGGED RESIDUALS
SUM OF ABSOLUTE ERRORS= 0.16652E+09
R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.0076
MEAN ERROR = -0.23453E+07
SUM-SQUARED ERRORS = 0.39684E+15
MEAN SQUARE ERROR = 0.55893E+13
MEAN ABSOLUTE ERROR= 0.23453E+07
ROOT MEAN SQUARE ERROR = 0.23642E+07
THEIL INEQUALITY COEFFICIENT U = 9.681

DECOMPOSITION
PROPORTION DUE TO BIAS = 0.98413
PROPORTION DUE TO VARIANCE = 0.14323E-02
PROPORTION DUE TO COVARIANCE = 0.14434E-01

DECOMPOSITION
PROPORTION DUE TO BIAS = 0.98413
PROPORTION DUE TO REGRESSION = 0.54286E-02
PROPORTION DUE TO DISTURBANCE = 0.10438E-01

D

_PRINT STATE MO YR PREDF /BEG=74 END=144

STATE	MO	YR
2.000000	2.000000	93.00000
2.000000	3.000000	93.00000
2.000000	4.000000	93.00000
2.000000	5.000000	93.00000
2.000000	6.000000	93.00000
2.000000	7.000000	93.00000
2.000000	8.000000	93.00000
2.000000	9.000000	93.00000
2.000000	10.00000	93.00000
2.000000	11.00000	93.00000
2.000000	12.00000	93.00000
2.000000	1.000000	94.00000
2.000000	2.000000	94.00000
2.000000	3.000000	94.00000
2.000000	4.000000	94.00000
2.000000	5.000000	94.00000
2.000000	6.000000	94.00000
2.000000	7.000000	94.00000
2.000000	8.000000	94.00000
2.000000	9.000000	94.00000
2.000000	10.00000	94.00000
2.000000	11.00000	94.00000
2.000000	12.00000	94.00000
2.000000	1.000000	95.00000
2.000000	2.000000	95.00000
2.000000	3.000000	95.00000

56

57

0000287

0000057

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A	B	C	D
2.000000	4.000000	95.00000	
2.000000	5.000000	95.00000	
2.000000	6.000000	95.00000	
2.000000	7.000000	95.00000	
2.000000	8.000000	95.00000	
2.000000	9.000000	95.00000	
2.000000	10.00000	95.00000	
2.000000	11.00000	95.00000	
2.000000	12.00000	95.00000	
2.000000	1.000000	96.00000	
2.000000	2.000000	96.00000	
2.000000	3.000000	96.00000	
2.000000	4.000000	96.00000	
2.000000	5.000000	96.00000	
2.000000	6.000000	96.00000	
2.000000	7.000000	96.00000	
2.000000	8.000000	96.00000	
2.000000	9.000000	96.00000	
2.000000	10.00000	96.00000	
2.000000	11.00000	96.00000	
2.000000	12.00000	97.00000	
2.000000	1.000000	97.00000	
2.000000	2.000000	97.00000	
2.000000	3.000000	97.00000	
2.000000	4.000000	97.00000	
2.000000	5.000000	97.00000	
2.000000	6.000000	97.00000	
2.000000	7.000000	97.00000	
2.000000	8.000000	97.00000	
2.000000	9.000000	97.00000	
2.000000	10.00000	97.00000	
2.000000	11.00000	97.00000	
2.000000	12.00000	97.00000	
2.000000	1.000000	98.00000	
2.000000	2.000000	98.00000	
2.000000	3.000000	98.00000	
2.000000	4.000000	98.00000	
2.000000	5.000000	98.00000	
2.000000	6.000000	98.00000	
2.000000	7.000000	98.00000	
2.000000	8.000000	98.00000	
2.000000	9.000000	98.00000	
2.000000	10.00000	98.00000	
2.000000	11.00000	98.00000	
2.000000	12.00000	98.00000	

WRITE(11) STATE MO YR PREF /BEG=74 END

*-----
* GEORGIA

AUTO SEQ /LIST RS BEG=171 END=218

TLINES ALMR WMO &

REQUIRED MEMORY IS PAR= 196 CURRENT PAR= 5555

DEPENDENT VARIABLE = SEQ
..NOTE..R-SQUARE,ANOVA,RESIDUALS DONE ON ORIGINAL VARS

LEAST SQUARES ESTIMATION 48 OBSERVATIONS
BY COCHRANE-ORCUTT TYPE PROCEDURE WITH CONVERGENCE = 0.00100

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0000280

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ITERATION	RHO	LOG L.F.	SSE
1	0.00000	-505.704	0.39791E+10
2	0.82951	-472.767	0.98454E+09
3	0.93749	-468.489	0.80770E+09
4	0.98049	-467.432	0.75475E+09
5	0.99132	-467.587	0.74699E+09
6	0.99170	-467.603	0.74679E+09

LOG L.F. = -467.603 AT RHO = 0.99170

	ASYMPTOTIC ESTIMATE	ASYMPTOTIC VARIANCE	ASYMPTOTIC ST.ERROR	ASYMPTOTIC T-RATIO
RHO	0.99170	0.00034	0.01856	53.44570

R-SQUARE = 0.9998 R-SQUARE ADJUSTED = 0.9998
 VARIANCE OF THE ESTIMATE-SIGMA**2 = 0.16972E+08
 STANDARD ERROR OF THE ESTIMATE-SIGMA = 4119.8
 SUM OF SQUARED ERRORS-SSE= 0.74679E+09
 MEAN OF DEPENDENT VARIABLE = 0.69182E+06
 LOG OF THE LIKELIHOOD FUNCTION = -467.603

A	B	C	D	E	F	G
VARIABLE NAME	ESTIMATED COEFFICIENT	STANDARD ERROR	T-RATIO 44 DF	PARTIAL CORR.	STANDARDIZED COEFFICIENT	ELASTICITY AT MEANS

TLINES			7.8283	0.7629		
AMMR			-4.4216	-0.5547		
WMQ			-2.8007	-0.3890		
CONSTANT			0.12575E-03	0.0000		

OBS. NO.	OBSERVED VALUE	PREDICTED VALUE	CALCULATED RESIDUAL			
171			-16457.	X		I
172			-974.51			*I
173			-2178.0			* I
174			-3440.8			* I
175			-1731.2			* I
176			-895.73			*I
177			-2775.0			* I
178			-1681.9			* I
179			-4764.0			* I
180			-5018.8			* I
181			-1791.2			* I
182			-603.16			*I
183			-1167.1			*I
184			1655.2			I *
185			-9621.3			I
186			92.782			.
187			3922.4			I *
188			6697.5			I *
189			3043.0			I *
190			2985.3			I *
191			-5896.9			* I
192			1264.1			I *
193			1457.0			I *
194			4273.3			I *
195			3787.8			I *
196			4707.2			I *
197			4362.6			I *
198			4130.6			I *
199			4176.6			I *

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0000289

FA10957

A B C

200	4890.9	I	*
201	4776.4	I	*
202	3735.2	I	*
203	3358.4	I	*
204	1335.6	I	*
205	10506.	I	*
206	-5521.0	*	I
207	2515.0	I	*
208	1942.5	I	*
209	-3495.0	*	I
210	4290.6	I	*
211	1342.8	I	*
212	1402.8	I	*
213	1342.2	I	*
214	1176.9	I	*
215	22.467	*	I
216	927.38	I	*
217	2455.7	I	*
218	-8242.0	*	I

BLUP IS ACTIVE - PREDICTED VALUES ADJUSTED WITH LAGGED RESIDUALS

DURBIN-WATSON = 1.2900 VON NEUMANN RATIO = 1.3174 RHO = 0.20131
RESIDUAL SUM = 16321. RESIDUAL VARIANCE = 0.23026E+08
SUM OF ABSOLUTE ERRORS= 0.16883E+06
R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.9998
RUNS TEST: 11 RUNS, 30 POSITIVE, 18 NEGATIVE, NORMAL STATISTIC = -3.8963

_FC /BEG=218 END=288 BLUP PREDICT=PREDG MODEL=AUTO ESTEND=218

REQUIRED MEMORY IS PAR= 196 CURRENT PAR= 5555
..ASSUMING ESTIMATION ENDED AT OBSERVATION 218
DEPENDENT VARIABLE = SEQ 71 OBSERVATIONS
REGRESSION COEFFICIENTS

AUTOCORRELATION RHO
0.9917023712823
USER SPECIFIED RHO= 0.99170
USER SPECIFIED SRHO= 0.00000
..FORECAST STD. ERRORS USE JUDGE(1985, EQ. 8.3.13)
IGNORE FORECASTS AND STD. ERRORS BEFORE OBS. 219

BLUP IS ACTIVE - PREDICTED VALUES ADJUSTED WITH LAGGED RESIDUALS
SUM OF ABSOLUTE ERRORS= 0.10469E+09
R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.0500
RUNS TEST: 2 RUNS, 1 POSITIVE, 70 NEGATIVE, NORMAL STATISTIC = -5.8737
MEAN ERROR = -0.14740E+07
SUM-SQUARED ERRORS = 0.15973E+15
MEAN SQUARE ERROR = 0.22497E+13
MEAN ABSOLUTE ERROR= 0.14745E+07
ROOT MEAN SQUARE ERROR = 0.14999E+07
THEIL INEQUALITY COEFFICIENT U =11.470

DECOMPOSITION
PROPORTION DUE TO BIAS = 0.96572
PROPORTION DUE TO VARIANCE = 0.34671E-02
PROPORTION DUE TO COVARIANCE = 0.30814E-01

DECOMPOSITION
PROPORTION DUE TO BIAS = 0.96572
PROPORTION DUE TO REGRESSION = 0.27162E-01
PROPORTION DUE TO DISTURBANCE = 0.71190E-02

000029J

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STATE	MO	YR	PREDG
3.000000	2.000000	93.00000	
3.000000	3.000000	93.00000	
3.000000	4.000000	93.00000	
3.000000	5.000000	93.00000	
3.000000	6.000000	93.00000	
3.000000	7.000000	93.00000	
3.000000	8.000000	93.00000	
3.000000	9.000000	93.00000	
3.000000	10.00000	93.00000	
3.000000	11.00000	93.00000	
3.000000	12.00000	93.00000	
3.000000	1.000000	94.00000	
3.000000	2.000000	94.00000	
3.000000	3.000000	94.00000	
3.000000	4.000000	94.00000	
3.000000	5.000000	94.00000	
3.000000	6.000000	94.00000	
3.000000	7.000000	94.00000	
3.000000	8.000000	94.00000	
3.000000	9.000000	94.00000	
3.000000	10.00000	94.00000	
3.000000	11.00000	94.00000	
3.000000	12.00000	94.00000	
3.000000	1.000000	95.00000	
3.000000	2.000000	95.00000	
3.000000	3.000000	95.00000	
3.000000	4.000000	95.00000	
3.000000	5.000000	95.00000	
3.000000	6.000000	95.00000	
3.000000	7.000000	95.00000	
3.000000	8.000000	95.00000	
3.000000	9.000000	95.00000	
3.000000	10.00000	95.00000	
3.000000	11.00000	95.00000	
3.000000	12.00000	95.00000	
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3.000000	2.000000	96.00000	
3.000000	3.000000	96.00000	
3.000000	4.000000	96.00000	
3.000000	5.000000	96.00000	
3.000000	6.000000	96.00000	
3.000000	7.000000	96.00000	
3.000000	8.000000	96.00000	
3.000000	9.000000	96.00000	
3.000000	10.00000	96.00000	
3.000000	11.00000	96.00000	
3.000000	12.00000	97.00000	
3.000000	1.000000	97.00000	
3.000000	2.000000	97.00000	
3.000000	3.000000	97.00000	
3.000000	4.000000	97.00000	
3.000000	5.000000	97.00000	
3.000000	6.000000	97.00000	
3.000000	7.000000	97.00000	
3.000000	8.000000	97.00000	
3.000000	9.000000	97.00000	
3.000000	10.00000	97.00000	
3.000000	11.00000	97.00000	

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A	B	C	D
3.000000	12.00000	97.00000	
3.000000	1.000000	98.00000	
3.000000	2.000000	98.00000	
3.000000	3.000000	98.00000	
3.000000	4.000000	98.00000	
3.000000	5.000000	98.00000	
3.000000	6.000000	98.00000	
3.000000	7.000000	98.00000	
3.000000	8.000000	98.00000	
3.000000	9.000000	98.00000	
3.000000	10.00000	98.00000	
3.000000	11.00000	98.00000	
3.000000	12.00000	98.00000	

WRITE(12) STATE MO YR PREDG /BEG=218 END=288

*-----
* NORTH CAROLINA

AUTO SEQ TLINES SEGR AWMR WMO &
/LIST RS BEG=307 END=362 DROP

REQUIRED MEMORY IS PAR= 197 CURRENT PAR= 5555

DEPENDENT VARIABLE = SEQ
..NOTE..R-SQUARE,ANOVA,RESIDUALS DONE ON ORIGINAL VARS

LEAST SQUARES ESTIMATION 55 OBSERVATIONS
BY COCHRANE-ORCUTT TYPE PROCEDURE WITH CONVERGENCE = 0.00100

ITERATION	RHO	LOG L.F.	SSE
1	0.00000	-562.131	0.24286E+10
2	0.54918	-537.335	0.98576E+09
3	0.65973	-535.092	0.90852E+09
4	0.73172	-533.752	0.86532E+09
5	0.77801	-533.053	0.84361E+09
6	0.80423	-532.790	0.83558E+09
7	0.81756	-532.715	0.83331E+09
8	0.82393	-532.697	0.83277E+09
9	0.82690	-532.693	0.83265E+09
10	0.82826	-532.692	0.83262E+09
11	0.82888	-532.692	0.83261E+09

LOG L.F. = -532.692 AT RHO = 0.82888

	ASYMPTOTIC ESTIMATE	ASYMPTOTIC VARIANCE	ASYMPTOTIC ST.ERROR	ASYMPTOTIC T-RATIO
RHO	0.82888	0.00569	0.07543	10.98844

R-SQUARE = 0.9997 R-SQUARE ADJUSTED = 0.9996
 VARIANCE OF THE ESTIMATE-SIGMA**2 = 0.16652E+08
 STANDARD ERROR OF THE ESTIMATE-SIGMA = 4080.7
 SUM OF SQUARED ERRORS-SSE= 0.83261E+09
 MEAN OF DEPENDENT VARIABLE = 0.46797E+06
 LOG OF THE LIKELIHOOD FUNCTION = -532.692

VARIABLE NAME	A	B	C	D	E	F	G
	ESTIMATED COEFFICIENT	STANDARD ERROR	T-RATIO	SO DF	PARTIAL CORR.	STANDARDIZED COEFFICIENT	ELASTICITY AT MEANS
TLINES			7.8925		0.7448		
SEGR			0.59944		0.0845		

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0000292

01R25Z

BLUP IS ACTIVE - PREDICTED VALUES ADJUSTED WITH LAGGED RESIDUALS

DURBIN-WATSON = 1.8119 VON NEUMANN RATIO = 1.8455 RHO = 0.08190
RESIDUAL SUM = -0.21828E-08 RESIDUAL VARIANCE = 0.16652E+08
SUM OF ABSOLUTE ERRORS= 0.14711E+06
R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.9996
RUNS TEST: 18 RUNS, 36 POSITIVE, 19 NEGATIVE, NORMAL STATISTIC = -2.3742

|_FC /BEG=362 END=432 BLUP PREDICT=PREDN MODEL=AUTO ESTEND=362

REQUIRED MEMORY IS PAR= 197 CURRENT PAR= 5555
..ASSUMING ESTIMATION ENDED AT OBSERVATION 362
DEPENDENT VARIABLE = SEQ 71 OBSERVATIONS
REGRESSION COEFFICIENTS

12

AUTOCORRELATION RHO
0.8288836066536
USER SPECIFIED RHO= 0.82888
USER SPECIFIED SRHO= 0.00000
..FORECAST STD. ERRORS USE JUDGE(1985, EQ. 8.3.13)
IGNORE FORECASTS AND STD. ERRORS BEFORE OBS. 363

BLUP IS ACTIVE - PREDICTED VALUES ADJUSTED WITH LAGGED RESIDUALS

SUM OF ABSOLUTE ERRORS= 0.62577E+08
R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.0438
RUNS TEST: 2 RUNS, 1 POSITIVE, 70 NEGATIVE, NORMAL STATISTIC = -5.8737
MEAN ERROR = -0.88105E+06
SUM-SQUARED ERRORS = 0.56778E+14
MEAN SQUARE ERROR = 0.79969E+12
MEAN ABSOLUTE ERROR= 0.88137E+06
ROOT MEAN SQUARE ERROR = 0.89425E+06
THEIL INEQUALITY COEFFICIENT U =10.680

DECOMPOSITION

PROPORTION DUE TO BIAS = 0.97069
PROPORTION DUE TO VARIANCE = 0.10652E-02
PROPORTION DUE TO COVARIANCE = 0.28244E-01

DECOMPOSITION

PROPORTION DUE TO BIAS = 0.97069
PROPORTION DUE TO REGRESSION = 0.21044E-01
PROPORTION DUE TO DISTURBANCE = 0.82653E-02

|_PRINT STATE MO YR PREDN /BEG=362 END=432

39

STATE	MO	YR	PREDN
7.000000	2.000000	93.00000	
7.000000	3.000000	93.00000	
7.000000	4.000000	93.00000	
7.000000	5.000000	93.00000	
7.000000	6.000000	93.00000	
7.000000	7.000000	93.00000	
7.000000	8.000000	93.00000	
7.000000	9.000000	93.00000	
7.000000	10.00000	93.00000	
7.000000	11.00000	93.00000	
7.000000	12.00000	93.00000	
7.000000	1.000000	94.00000	
7.000000	2.000000	94.00000	
7.000000	3.000000	94.00000	
7.000000	4.000000	94.00000	
7.000000	5.000000	94.00000	
7.000000	6.000000	94.00000	

35

0000291

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A	B	C	D
7.000000	7.000000	94.00000	
7.000000	8.000000	94.00000	
7.000000	9.000000	94.00000	
7.000000	10.00000	94.00000	
7.000000	11.00000	94.00000	
7.000000	12.00000	94.00000	
7.000000	1.000000	95.00000	
7.000000	2.000000	95.00000	
7.000000	3.000000	95.00000	
7.000000	4.000000	95.00000	
7.000000	5.000000	95.00000	
7.000000	6.000000	95.00000	
7.000000	7.000000	95.00000	
7.000000	8.000000	95.00000	
7.000000	9.000000	95.00000	
7.000000	10.00000	95.00000	
7.000000	11.00000	95.00000	
7.000000	12.00000	95.00000	
7.000000	1.000000	96.00000	
7.000000	2.000000	96.00000	
7.000000	3.000000	96.00000	
7.000000	4.000000	96.00000	
7.000000	5.000000	96.00000	
7.000000	6.000000	96.00000	
7.000000	7.000000	96.00000	
7.000000	8.000000	96.00000	
7.000000	9.000000	96.00000	
7.000000	10.00000	96.00000	
7.000000	11.00000	96.00000	
7.000000	12.00000	97.00000	
7.000000	1.000000	97.00000	
7.000000	2.000000	97.00000	
7.000000	3.000000	97.00000	
7.000000	4.000000	97.00000	
7.000000	5.000000	97.00000	
7.000000	6.000000	97.00000	
7.000000	7.000000	97.00000	
7.000000	8.000000	97.00000	
7.000000	9.000000	97.00000	
7.000000	10.00000	97.00000	
7.000000	11.00000	97.00000	
7.000000	12.00000	97.00000	
7.000000	1.000000	98.00000	
7.000000	2.000000	98.00000	
7.000000	3.000000	98.00000	
7.000000	4.000000	98.00000	
7.000000	5.000000	98.00000	
7.000000	6.000000	98.00000	
7.000000	7.000000	98.00000	
7.000000	8.000000	98.00000	
7.000000	9.000000	98.00000	
7.000000	10.00000	98.00000	
7.000000	11.00000	98.00000	
7.000000	12.00000	98.00000	

WRITE(13) STATE MO YR PREDN /BEG=362 END=432

* SOUTH CAROLINA

AUTO SEQ
/LIST RS BEG=456 END=506

TLINES ALMR LMG &

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0000295

FNIR25Z

REQUIRED MEMORY IS PAR= 196 CURRENT PAR= 5555

DEPENDENT VARIABLE = SEQ

..NOTE..R-SQUARE,ANOVA,RESIDUALS DONE ON ORIGINAL VARS

LEAST SQUARES ESTIMATION 51 OBSERVATIONS
 BY COCHRANE-ORCUTT TYPE PROCEDURE WITH CONVERGENCE = 0.00100

ITERATION	RHO	LOG L.F.	SSE
1	0.00000	-494.961	0.80325E+09
2	0.91310	-437.060	0.80068E+08
3	0.98062	-433.169	0.66788E+08
4	0.99284	-433.208	0.65606E+08
5	0.99312	-433.220	0.65585E+08

LOG L.F. = -433.220 AT RHO = 0.99312

	ESTIMATE	ASYMPTOTIC VARIANCE	ASYMPTOTIC ST.ERROR	ASYMPTOTIC T-RATIO
RHO	0.99312	0.00027	0.01640	60.55765

R-SQUARE = 0.9999 R-SQUARE ADJUSTED = 0.9999
 VARIANCE OF THE ESTIMATE-SIGMA**2 = 0.13954E+07
 STANDARD ERROR OF THE ESTIMATE-SIGMA = 1181.3
 SUM OF SQUARED ERRORS-SSE= 0.65585E+08
 MEAN OF DEPENDENT VARIABLE = 0.26328E+06
 LOG OF THE LIKELIHOOD FUNCTION = -433.220

VARIABLE NAME	ESTIMATED COEFFICIENT	STANDARD ERROR	T-RATIO 47 DF	PARTIAL CORR.	STANDARDIZED COEFFICIENT	ELASTICITY AT MEANS
---------------	-----------------------	----------------	---------------	---------------	--------------------------	---------------------

TLINES			1 12.872	0.8826		
ALMR			-4.4890	-0.5478		
WMO			-2.9661	-0.3971		
CONSTANT			-4.9023	-0.5817		

OBS. NO.	OBSERVED VALUE	PREDICTED VALUE	CALCULATED RESIDUAL
456			-6040.4 X
457			377.95 I*
458			179.43 I*
459			-359.59 * I
460			-866.38 * I
461			-3621.5 • I
462			-3135.7 • I
463			-170.77 * I
464			-751.70 * I
465			-578.49 * I
466			1082.8 I *
467			-118.52 * I
468			355.57 I *
469			-438.31 * I
470			-293.73 * I
471			477.69 I *
472			267.17 I *
473			531.67 I *
474			1678.1 I •
475			49.241 *
476			1068.5

24
27

0000296

FNIR25Z

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A B C

477	146.07	I*
478	1722.1	I
479	947.16	I *
480	792.03	I *
481	874.91	I *
482	1204.6	I *
483	2342.1	I *
484	1470.1	I *
485	1185.9	I *
486	1692.1	I *
487	1637.9	I *
488	222.86	I*
489	1073.0	I *
490	2577.8	I *
491	600.69	I *
492	1015.3	I *
493	-60.048	*
494	-468.45	* I
495	-515.84	* I
496	-445.36	* I
497	-126.80	* I
498	348.84	I*
499	-320.54	* I
500	-919.04	* I
501	-572.05	* I
502	-523.78	* I
503	20.241	*
504	619.60	I *
505	-695.82	* I
506	459.95	I *

30

BLUP IS ACTIVE - PREDICTED VALUES ADJUSTED WITH LAGGED RESIDUALS

DURBIN-WATSON = 0.9000 VON NEUMANN RATIO = 0.9180 RHO = 0.37014
 RESIDUAL SUM = 5998.8 RESIDUAL VARIANCE = 0.21611E+07
 SUM OF ABSOLUTE ERRORS= 48044.
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.9999
 RUNS TEST: 14 RUNS, 30 POSITIVE, 21 NEGATIVE, NORMAL STATISTIC = -3.4203

[_FC /BEG=506 END=576 BLUP PREDICT=PREDS MODEL=AUTO ESTEND=506

REQUIRED MEMORY IS PAR= 196 CURRENT PAR= 5555
 ..ASSUMING ESTIMATION ENDED AT OBSERVATION 506
 DEPENDENT VARIABLE = SEQ 71 OBSERVATIONS
 REGRESSION COEFFICIENTS

AUTOCORRELATION RHO
 0.9931182159064
 USER SPECIFIED RHO= 0.99312
 USER SPECIFIED SRHO= 0.00000
 ..FORECAST STD. ERRORS USE JUDGE(1985, EQ. 8.3.13)
 IGNORE FORECASTS AND STD. ERRORS BEFORE OBS. 507

BLUP IS ACTIVE - PREDICTED VALUES ADJUSTED WITH LAGGED RESIDUALS
 SUM OF ABSOLUTE ERRORS= 0.42667E+08
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.0488
 RUNS TEST: 2 RUNS, 1 POSITIVE, 70 NEGATIVE, NORMAL STATISTIC = -5.8737
 MEAN ERROR = -0.60076E+06
 SUM-SQUARED ERRORS = 0.26688E+14
 MEAN SQUARE ERROR = 0.37588E+12

35

42

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0000297

F01R25Z

MEAN ABSOLUTE ERROR= 0.60095E+06
 ROOT MEAN SQUARE ERROR = 0.61309E+06
 THEIL INEQUALITY COEFFICIENT U =12.104

DECOMPOSITION

PROPORTION DUE TO BIAS = 0.96016
 PROPORTION DUE TO VARIANCE = 0.68410E-02
 PROPORTION DUE TO COVARIANCE = 0.32999E-01

DECOMPOSITION

PROPORTION DUE TO BIAS = 0.96016
 PROPORTION DUE TO REGRESSION = 0.33439E-01
 PROPORTION DUE TO DISTURBANCE = 0.64012E-02

PRINT STATE MO YR PRED /BEG=506 END=576

D
 PRED

14

STATE	MO	YR
8.000000	2.000000	93.00000
8.000000	3.000000	93.00000
8.000000	4.000000	93.00000
8.000000	5.000000	93.00000
8.000000	6.000000	93.00000
8.000000	7.000000	93.00000
8.000000	8.000000	93.00000
8.000000	9.000000	93.00000
8.000000	10.00000	93.00000
8.000000	11.00000	93.00000
8.000000	12.00000	93.00000
8.000000	1.000000	94.00000
8.000000	2.000000	94.00000
8.000000	3.000000	94.00000
8.000000	4.000000	94.00000
8.000000	5.000000	94.00000
8.000000	6.000000	94.00000
8.000000	7.000000	94.00000
8.000000	8.000000	94.00000
8.000000	9.000000	94.00000
8.000000	10.00000	94.00000
8.000000	11.00000	94.00000
8.000000	12.00000	94.00000
8.000000	1.000000	95.00000
8.000000	2.000000	95.00000
8.000000	3.000000	95.00000
8.000000	4.000000	95.00000
8.000000	5.000000	95.00000
8.000000	6.000000	95.00000
8.000000	7.000000	95.00000
8.000000	8.000000	95.00000
8.000000	9.000000	95.00000
8.000000	10.00000	95.00000
8.000000	11.00000	95.00000
8.000000	12.00000	95.00000
8.000000	1.000000	96.00000
8.000000	2.000000	96.00000
8.000000	3.000000	96.00000
8.000000	4.000000	96.00000
8.000000	5.000000	96.00000
8.000000	6.000000	96.00000
8.000000	7.000000	96.00000
8.000000	8.000000	96.00000
8.000000	9.000000	96.00000
8.000000	10.00000	96.00000
8.000000	11.00000	96.00000
8.000000	12.00000	97.00000

0000298
 FAIR25Z

60

WV07.U

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A	B	C	D
8.000000	1.000000	97.000000	
8.000000	2.000000	97.000000	
8.000000	3.000000	97.000000	
8.000000	4.000000	97.000000	
8.000000	5.000000	97.000000	
8.000000	6.000000	97.000000	
8.000000	7.000000	97.000000	
8.000000	8.000000	97.000000	
8.000000	9.000000	97.000000	
8.000000	10.000000	97.000000	
8.000000	11.000000	97.000000	
8.000000	12.000000	97.000000	
8.000000	1.000000	98.000000	
8.000000	2.000000	98.000000	
8.000000	3.000000	98.000000	
8.000000	4.000000	98.000000	
8.000000	5.000000	98.000000	
8.000000	6.000000	98.000000	
8.000000	7.000000	98.000000	
8.000000	8.000000	98.000000	
8.000000	9.000000	98.000000	
8.000000	10.000000	98.000000	
8.000000	11.000000	98.000000	
8.000000	12.000000	98.000000	

WRITE(14) STATE MO YR PREDS /BEG=506 END=576

*-----
STOP

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F01R25Z

0000299

SOUTH CENTRAL BELL MODELS

SEQ1X: RESIDENCE

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F01B25Z

0000300

Date:04/22/93 Time:12:41:28.12

* -----
* RESIDENTIAL SCB SEQ1X MODELS: BASE CASE SCENARIOS
* -----

* SITE LICENSE - FOR USE ON ALL COMPUTERS AT ABOVE LOCATION *

Hello/Bonjour/Aloha/Howdy/G Day/Kia Ora/Konnichiwa/Buenos Dias/Nee Hau
Welcome to SHAZAM - Version 6.2 - AUG 1991 SYSTEM=OS386 PAR= 6666

|_*-----
|_* INSIDE WIRE MONTHLY PLANS (SEQ1X)
|_*-----

|_* Data: 1/87 - 12/98; SEQ1X DATA BEGINS ON 2/88 & ENDS ON 2/93
|_* Total Observations = 144 Per State
|_*-----

|_DIM PREDK 1200 PREDL 1200 PREDM 1200 PREDT 1200

|_SET NODELETE
|_FILE 4 SCB.PRN

UNIT 4 IS NOW ASSIGNED TO: SCB.PRN

|_*-----
|_FILE 11 ALR.OUT

UNIT 11 IS NOW ASSIGNED TO: ALR.OUT

|_FILE 12 KYR.OUT

UNIT 12 IS NOW ASSIGNED TO: KYR.OUT

|_FILE 13 LAR.OUT

UNIT 13 IS NOW ASSIGNED TO: LAR.OUT

|_FILE 14 MSR.OUT

UNIT 14 IS NOW ASSIGNED TO: MSR.OUT

|_FILE 15 TNR.OUT

UNIT 15 IS NOW ASSIGNED TO: TNR.OUT

|_*-----
|_FILE 16 ALB.OUT

UNIT 16 IS NOW ASSIGNED TO: ALB.OUT

|_FILE 17 KYB.OUT

UNIT 17 IS NOW ASSIGNED TO: KYB.OUT

|_FILE 18 LAB.OUT

UNIT 18 IS NOW ASSIGNED TO: LAB.OUT

|_FILE 19 MSB.OUT

UNIT 19 IS NOW ASSIGNED TO: MSB.OUT

|_FILE 20 TNB.OUT

UNIT 20 IS NOW ASSIGNED TO: TNB.OUT

|_*-----
|_READ(4) TIME STATE YR MO RSEQ RSEQR BSEQ BSEQR &
|_RLINES IRLINES BLINES IBLINES TLINES ITLINES

...SAMPLE RANGE IS NOW SET TO: 1 720

|_*-----
|_* SINCE DATA STARTS AT 2/88 (TIME=14), SKIP DATA BEFORE THAT TIME...
|_*-----

|_SET NOWARNSKIP
|_SKIPIF(TIME.LT.14)
|_GENR TOTOBBS=TIME(0)

|_*-----
|_* CREATING SEASONAL DUMMIES
|_*-----

|_GENR JAN=0
|_GENR FEB=0
|_GENR MAR=0
|_GENR APR=0
|_GENR MAY=0

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FOI B25Z

0000301

```

_GENR JUN=0
_GENR JUL=0
_GENR AUG=0
_GENR SEP=0
_GENR OCT=0
_GENR NOV=0
_GENR DEC=0
_IF(MO.EQ.1)JAN=1
_IF(MO.EQ.2)FEB=1
_IF(MO.EQ.3)MAR=1
_IF(MO.EQ.4)APR=1
_IF(MO.EQ.5)MAY=1
_IF(MO.EQ.6)JUN=1
_IF(MO.EQ.7)JUL=1
_IF(MO.EQ.8)AUG=1
_IF(MO.EQ.9)SEP=1
_IF(MO.EQ.10)OCT=1
_IF(MO.EQ.11)NOV=1
_IF(MO.EQ.12)DEC=1
*
-----
* CREATING STATE DUMMIES
*
-----
_GENR AL=0
_GENR KY=0
_GENR LA=0
_GENR MS=0
_GENR TN=0
_IF(STATE.EQ.1)AL=1
_IF(STATE.EQ.4)KY=1
_IF(STATE.EQ.5)LA=1
_IF(STATE.EQ.6)MS=1
_IF(STATE.EQ.9)TN=1
*
-----
* Creating Slope dummies for POOLED ANALYSIS Residential Access Lines
*
-----
_GENR RSAL=0
_GENR RSKY=0
_GENR RSLA=0
_GENR RSMS=0
_GENR RSTN=0
_IF(STATE.EQ.1)RSAL=RLINES
_IF(STATE.EQ.4)RSKY=RLINES
_IF(STATE.EQ.5)RSLA=RLINES
_IF(STATE.EQ.6)RSMS=RLINES
_IF(STATE.EQ.9)RSTN=RLINES
*
-----
* Creating Slope dummies for POOLED ANALYSIS Business Main Access Lines
*
-----
_GENR BSAL=0
_GENR BSKY=0
_GENR BSLA=0
_GENR BSMS=0
_GENR BSTN=0
_IF(STATE.EQ.1)BSAL=BLINES
_IF(STATE.EQ.4)BSKY=BLINES
_IF(STATE.EQ.5)BSLA=BLINES
_IF(STATE.EQ.6)BSMS=BLINES
_IF(STATE.EQ.9)BSTN=BLINES
*
-----
_STAT /ALL

```

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FOI 182 JZ

0000302

NAME	N	MEAN	ST. DEV	VARIANCE	MINIMUM	MAXIMUM
PRED	655	0.00000	0.00000	0.00000	0.00000	0.00000
PREDK	655	0.00000	0.00000	0.00000	0.00000	0.00000
PREDL	655	0.00000	0.00000	0.00000	0.00000	0.00000
PREDM	655	0.00000	0.00000	0.00000	0.00000	0.00000
PREDT	655	0.00000	0.00000	0.00000	0.00000	0.00000
TIME	655	79.000	37.844	1432.2	14.000	144.00
STATE	655	5.0000	2.6097	6.8104	1.0000	9.0000
YR	655	93.046	3.1547	9.9520	88.000	98.000
MO	655	6.5420	3.4341	11.793	1.0000	12.000
RSEQ	655	0.39367E+06	0.46377E+06	0.21508E+12	0.00000	0.12386E+07
RSEQR	655	1.5670	0.44622	0.19911	0.60000	2.0000
BSEQ	655	25602.	29986.	0.89914E+09	0.00000	81654.
BSEQR	655	1.6212	0.39959	0.15967	0.60000	2.0000
RLINES	655	0.11661E+07	0.35368E+06	0.12509E+12	0.68774E+06	0.19395E+07
IRLINES	655	116.56	10.017	100.35	101.05	146.59
BLINES	655	0.25327E+06	90503.	0.81907E+10	0.12406E+06	0.48437E+06
IBLINES	655	131.97	19.073	363.77	101.32	184.23
TLINES	655	0.14193E+07	0.44308E+06	0.19632E+12	0.81180E+06	0.24239E+07
ITLINES	655	119.01	11.363	129.11	101.09	152.83
SKIPS	655	0.00000	0.00000	0.00000	0.00000	0.00000
TOTOBS	655	367.00	207.29	42968.	14.000	720.00
JAN	655	0.76336E-01	0.26574	0.70617E-01	0.00000	1.0000
FEB	655	0.83969E-01	0.27755	0.77036E-01	0.00000	1.0000
MAR	655	0.83969E-01	0.27755	0.77036E-01	0.00000	1.0000
APR	655	0.83969E-01	0.27755	0.77036E-01	0.00000	1.0000
MAY	655	0.83969E-01	0.27755	0.77036E-01	0.00000	1.0000
JUN	655	0.83969E-01	0.27755	0.77036E-01	0.00000	1.0000
JUL	655	0.83969E-01	0.27755	0.77036E-01	0.00000	1.0000
AUG	655	0.83969E-01	0.27755	0.77036E-01	0.00000	1.0000
SEP	655	0.83969E-01	0.27755	0.77036E-01	0.00000	1.0000
OCT	655	0.83969E-01	0.27755	0.77036E-01	0.00000	1.0000
NOV	655	0.83969E-01	0.27755	0.77036E-01	0.00000	1.0000
DEC	655	0.83969E-01	0.27755	0.77036E-01	0.00000	1.0000
AL	655	0.20000	0.40031	0.16024	0.00000	1.0000
KY	655	0.20000	0.40031	0.16024	0.00000	1.0000
LA	655	0.20000	0.40031	0.16024	0.00000	1.0000
MS	655	0.20000	0.40031	0.16024	0.00000	1.0000
TN	655	0.20000	0.40031	0.16024	0.00000	1.0000
RSAL	655	0.24116E+06	0.48425E+06	0.23450E+12	0.00000	0.13576E+07
RSKY	655	0.15574E+06	0.31295E+06	0.97941E+11	0.00000	0.89185E+06
RSLA	655	0.28468E+06	0.57050E+06	0.32547E+12	0.00000	0.15228E+07
RSMS	655	0.15779E+06	0.31656E+06	0.10021E+12	0.00000	0.86980E+06
RSTN	655	0.32671E+06	0.65821E+06	0.43324E+12	0.00000	0.19395E+07
BSAL	655	48348.	97338.	0.94747E+10	0.00000	0.28321E+06
BSKY	655	32801.	66549.	0.44287E+10	0.00000	0.20827E+06
BSLA	655	62483.	0.12568E+06	0.15794E+11	0.00000	0.35973E+06
BSMS	655	33404.	67350.	0.45360E+10	0.00000	0.19948E+06
BSTN	655	76232.	0.15470E+06	0.23932E+11	0.00000	0.48437E+06

```

*-----*
* Plotting Residence Seqix History...
*-----*
* PLOT RSEQ          /TIME SAME GRAPHICS LINEONLY BEG=1  END=74  PAUSE
* PLOT RSEQ          /TIME SAME GRAPHICS LINEONLY BEG=88  END=148 PAUSE
* PLOT RSEQ          /TIME SAME GRAPHICS LINEONLY BEG=162 END=222 PAUSE
* PLOT RSEQ          /TIME SAME GRAPHICS LINEONLY BEG=236 END=296 PAUSE
* PLOT RSEQ          /TIME SAME GRAPHICS LINEONLY BEG=310 END=370 PAUSE
*-----*
* Plotting Business Seqix History...
*-----*

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PROPRIETARY

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 COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

FOID 202

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_* PLOT BSEQ      /TIME SAME GRAPHICS LINEONLY BEG=1  END=74  PAUSE
_* PLOT BSEQ      /TIME SAME GRAPHICS LINEONLY BEG=88 END=148 PAUSE
_* PLOT BSEQ      /TIME SAME GRAPHICS LINEONLY BEG=162 END=222 PAUSE
_* PLOT BSEQ      /TIME SAME GRAPHICS LINEONLY BEG=236 END=296 PAUSE
_* PLOT BSEQ      /TIME SAME GRAPHICS LINEONLY BEG=310 END=370 PAUSE
_*
-----
_* ALABAMA

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_AUTO RSEQ JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV R LINES RSEQR      &
 /LIST RS BEG=14 END=74

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REQUIRED MEMORY IS PAR= 302 CURRENT PAR= 6666

DEPENDENT VARIABLE = RSEQ

..NOTE..R-SQUARE,ANOVA,RESIDUALS DONE ON ORIGINAL VARS

LEAST SQUARES ESTIMATION 61 OBSERVATIONS
 BY COCHRANE-ORCUTT TYPE PROCEDURE WITH CONVERGENCE = 0.00100

ITERATION	RHO	LOG L.F.	SSE
1	0.00000	-571.622	0.49235E+09
2	0.90511	-512.605	0.69143E+08
3	0.96450	-510.857	0.64280E+08
4	0.98824	-510.083	0.61556E+08
5	0.99231	-509.995	0.60954E+08
6	0.99230	-509.995	0.60956E+08

LOG L.F. = -509.995 AT RHO = 0.99230

	ASYMPTOTIC ESTIMATE	ASYMPTOTIC VARIANCE	ASYMPTOTIC ST.ERROR	ASYMPTOTIC T-RATIO
RHO	0.99230	0.00025	0.01586	62.55788

R-SQUARE = 0.9952 R-SQUARE ADJUSTED = 0.9938
 VARIANCE OF THE ESTIMATE-SIGMA**2 = 0.12969E+07
 STANDARD ERROR OF THE ESTIMATE-SIGMA = 1138.8
 SUM OF SQUARED ERRORS-SSE= 0.60956E+08
 MEAN OF DEPENDENT VARIABLE = 0.93431E+06
 LOG OF THE LIKELIHOOD FUNCTION = -509.995

VARIABLE NAME	ESTIMATED COEFFICIENT	STANDARD ERROR	T-RATIO 47 DF	PARTIAL CORR.	STANDARDIZED COEFFICIENT	ELASTICITY AT MEANS
JAN			0.24599		0.0359	
FEB			1.0989		0.1583	
MAR			2.2027		0.3059	
APR			2.6613		0.3619	
MAY			2.1301		0.2967	
JUN			2.2801		0.3156	
JUL			1.9896		0.2787	
AUG			1.9832		0.2779	
SEP			2.9618		0.3966	
OCT			2.8129		0.3796	
NOV			2.6684		0.3627	
RLINES			11.337		0.8557	
RSEQR			-2.7172		-0.3685	
CONSTANT			4.8509		0.5776	

OBS. NO.	OBSERVED VALUE	PREDICTED VALUE	CALCULATED RESIDUAL
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A B C

14	8803.4	I		X
15	1782.3	I		
16	1050.9	I	*	
17	955.64	I	*	
18	-54.931	•		
19	280.08	I*		
20	9.7664	•		
21	-9.1619	*		
22	191.09	I*		
23	1020.4	I	*	
24	-131.09	*I		
25	-731.96	*	I	
26	-2027.8	*	I	
27	-1898.6	•	I	
28	-771.99	*	I	
29	-899.63	*	I	
30	-1680.9	*	I	
31	-234.02	*	I	
32	-61.624	*	I	
33	1329.5	I	*	
34	-885.65	*	I	
35	-2306.9	*	I	
36	-1832.6	*	I	
37	660.15	I	*	
38	-1217.3	*	I	
39	37.376	*	I	
40	-233.38	*I		
41	-1190.7	*	I	
42	1324.8	I	*	
43	-15.015	•		
44	658.01	I	*	
45	-423.26	*I		
46	-289.35	*I		
47	569.70	I	*	
48	393.91	I	*	
49	-304.25	*I		
50	233.17	I*		
51	-111.57	*		
52	-432.55	*I		
53	257.03	I*		
54	249.85	I*		
55	-358.36	*I		
56	804.93	I	*	
57	-322.13	*I		
58	-92.222	•		
59	5.2892	*		
60	95.223	*		
61	-481.59	*I		
62	-72.579	•		
63	-1209.7	*	I	
64	-1024.1	*	I	
65	-544.36	*	I	
66	-1271.9	*	I	
67	-1116.9	*	I	
68	-2866.5	*	I	
69	-2041.7	*	I	
70	-401.97	*I		
71	-778.06	*I		
72	-26.586	•		
73	-655.15	•		

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74

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I •

DURBIN-WATSON = 0.8064 VON NEUMANN RATIO = 0.8198 RHO = 0.31118
 RESIDUAL SUM = -8735.5 RESIDUAL VARIANCE = 0.29205E+07
 SUM OF ABSOLUTE ERRORS= 53281.
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.9908
 RUNS TEST: 27 RUNS, 22 POSITIVE, 39 NEGATIVE, NORMAL STATISTIC = -0.5975

|_FC /BEG=74 END=144 BLUP PREDICT=PREDA MODEL=AUTO ESTEND=74

REQUIRED MEMORY IS PAR= 302 CURRENT PAR= 6666
 ..ASSUMING ESTIMATION ENDED AT OBSERVATION 74
 DEPENDENT VARIABLE = RSEQ 71 OBSERVATIONS
 REGRESSION COEFFICIENTS

12

AUTOCORRELATION RHO
 0.9922963844430
 USER SPECIFIED RHO= 0.99230
 USER SPECIFIED SRHO= 0.00000
 ..FORECAST STD. ERRORS USE JUDGE(1985, EQ. 8.3.13)
 IGNORE FORECASTS AND STD. ERRORS BEFORE OBS. 75

BLUP IS ACTIVE - PREDICTED VALUES ADJUSTED WITH LAGGED RESIDUALS
 SUM OF ABSOLUTE ERRORS= 0.70783E+08
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.0312
 MEAN ERROR = -0.99695E+06
 SUM-SQUARED ERRORS = 0.71618E+14
 MEAN SQUARE ERROR = 0.10087E+13
 MEAN ABSOLUTE ERROR= 0.99695E+06
 ROOT MEAN SQUARE ERROR = 0.10043E+07
 THEIL INEQUALITY COEFFICIENT U = 8.850

DECOMPOSITION
 PROPORTION DUE TO BIAS = 0.98533
 PROPORTION DUE TO VARIANCE = 0.67655E-02
 PROPORTION DUE TO COVARIANCE = 0.79058E-02

DECOMPOSITION
 PROPORTION DUE TO BIAS = 0.98533
 PROPORTION DUE TO REGRESSION = 0.24766E-02
 PROPORTION DUE TO DISTURBANCE = 0.12195E-01

|_PRINT STATE MO YR PREDA /BEG=74 END=144

(D)

STATE	MO	YR	PREDA
1.000000	2.000000	93.00000	
1.000000	3.000000	93.00000	
1.000000	4.000000	93.00000	
1.000000	5.000000	93.00000	
1.000000	6.000000	93.00000	
1.000000	7.000000	93.00000	
1.000000	8.000000	93.00000	
1.000000	9.000000	93.00000	
1.000000	10.00000	93.00000	
1.000000	11.00000	93.00000	
1.000000	12.00000	93.00000	
1.000000	1.000000	94.00000	
1.000000	2.000000	94.00000	
1.000000	3.000000	94.00000	
1.000000	4.000000	94.00000	
1.000000	5.000000	94.00000	
1.000000	6.000000	94.00000	
1.000000	7.000000	94.00000	
1.000000	8.000000	94.00000	

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A	B	C	D
1.000000	9.000000	94.00000	
1.000000	10.00000	94.00000	
1.000000	11.00000	94.00000	
1.000000	12.00000	94.00000	
1.000000	1.000000	95.00000	
1.000000	2.000000	95.00000	
1.000000	3.000000	95.00000	
1.000000	4.000000	95.00000	
1.000000	5.000000	95.00000	
1.000000	6.000000	95.00000	
1.000000	7.000000	95.00000	
1.000000	8.000000	95.00000	
1.000000	9.000000	95.00000	
1.000000	10.00000	95.00000	
1.000000	11.00000	95.00000	
1.000000	12.00000	95.00000	
1.000000	1.000000	96.00000	
1.000000	2.000000	96.00000	
1.000000	3.000000	96.00000	
1.000000	4.000000	96.00000	
1.000000	5.000000	96.00000	
1.000000	6.000000	96.00000	
1.000000	7.000000	96.00000	
1.000000	8.000000	96.00000	
1.000000	9.000000	96.00000	
1.000000	10.00000	96.00000	
1.000000	11.00000	96.00000	
1.000000	12.00000	97.00000	
1.000000	1.000000	97.00000	
1.000000	2.000000	97.00000	
1.000000	3.000000	97.00000	
1.000000	4.000000	97.00000	
1.000000	5.000000	97.00000	
1.000000	6.000000	97.00000	
1.000000	7.000000	97.00000	
1.000000	8.000000	97.00000	
1.000000	9.000000	97.00000	
1.000000	10.00000	97.00000	
1.000000	11.00000	97.00000	
1.000000	12.00000	97.00000	
1.000000	1.000000	98.00000	
1.000000	2.000000	98.00000	
1.000000	3.000000	98.00000	
1.000000	4.000000	98.00000	
1.000000	5.000000	98.00000	
1.000000	6.000000	98.00000	
1.000000	7.000000	98.00000	
1.000000	8.000000	98.00000	
1.000000	9.000000	98.00000	
1.000000	10.00000	98.00000	
1.000000	11.00000	98.00000	
1.000000	12.00000	98.00000	

WRITE(11) STATE MO YR PRED /BEG=74 END=144

*-----
* KENTUCKY

AUTO RSEQ JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV RLINES RSEQR &
/LIST RS BEG=145 END=218

REQUIRED MEMORY IS PAR= 302 CURRENT PAR= 6666

PROPRIETARY

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FOI B

0000507

DEPENDENT VARIABLE = RSEQ
 ..NOTE..R-SQUARE,ANOVA,RESIDUALS DONE ON ORIGINAL VARS

LEAST SQUARES ESTIMATION 61 OBSERVATIONS
 BY COCHRANE-ORCUTT TYPE PROCEDURE WITH CONVERGENCE = 0.00100

ITERATION	RHO	LOG L.F.	SSE
1	0.00000	-540.281	0.17620E+09
2	0.88964	-468.588	0.16368E+08
3	0.97683	-463.026	0.13305E+08
4	0.98305	-463.126	0.13281E+08
5	0.98373	-463.144	0.13280E+08

LOG L.F. = -463.144 AT RHO = 0.98373

	ASYMPTOTIC ESTIMATE	ASYMPTOTIC VARIANCE	ASYMPTOTIC ST.ERROR	ASYMPTOTIC T-RATIO
RHO	0.98373	0.00053	0.02300	42.76324

R-SQUARE = 0.9988 R-SQUARE ADJUSTED = 0.9985
 VARIANCE OF THE ESTIMATE-SIGMA**2 = 0.28255E+06
 STANDARD ERROR OF THE ESTIMATE-SIGMA = 531.56
 SUM OF SQUARED ERRORS-SSE= 0.13280E+08
 MEAN OF DEPENDENT VARIABLE = 0.42764E+06
 LOG OF THE LIKELIHOOD FUNCTION = -463.144

VARIABLE NAME	ESTIMATED COEFFICIENT	STANDARD ERROR	T-RATIO 47 DF	PARTIAL CORR.	STANDARDIZED COEFFICIENT	ELASTICITY AT MEANS
JAN			-2.3198		-0.3205	
FEB			-1.5021		-0.2140	
MAR			-0.23412		-0.0341	
APR			0.24794		0.0361	
MAY			1.0131		0.1462	
JUN			0.27232		0.0397	
JUL			0.81486		0.1180	
AUG			0.94522E-01		0.0138	
SEP			-0.20265		-0.0295	
OCT			0.40052		0.0583	
NOV			1.2875		0.1846	
RLINES			15.946		0.9187	
RSEQR			-2.0344		-0.2845	
CONSTANT			-1.9915		-0.2790	

OBS. NO.	OBSERVED VALUE	PREDICTED VALUE	CALCULATED RESIDUAL
158			638.09
159			1232.3
160			779.56
161			1154.6
162			-303.75
163			-322.47
164			-945.06
165			-374.82
166			-508.33
167			-455.01
168			-189.92
169			-347.49
170			-372.99

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23

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A B C

171	-727.91	*	I
172	-660.08	*	I
173	-948.46	*	I
174	-1049.3	*	I
175	64.215	*	I*
176	-266.63	*	I
177	-842.50	*	I
178	123.99	*	I*
179	277.55	*	I *
180	-399.50	*	I
181	-332.04	*	I
182	-223.18	*	I
183	-359.05	*	I
184	-155.75	*	I
185	-110.29	*	I
186	317.60	*	I *
187	-78.453	*	I
188	355.68	*	I *
189	580.71	*	I *
190	214.36	*	I *
191	334.02	*	I *
192	492.44	*	I *
193	474.08	*	I *
194	425.55	*	I *
195	30.321	*	I
196	225.07	*	I *
197	105.15	*	I*
198	247.08	*	I *
199	182.33	*	I *
200	381.15	*	I *
201	517.07	*	I *
202	114.79	*	I*
203	-137.47	*	I*
204	195.86	*	I *
205	542.83	*	I *
206	184.66	*	I *
207	-271.92	*	I
208	-286.61	*	I
209	-300.40	*	I
210	687.30	*	I *
211	51.624	*	I
212	370.41	*	I *
213	13.348	*	I
214	-52.747	*	I
215	-128.81	*	I
216	-210.43	*	I
217	-450.76	*	I
218	-129.30	*	I

BLUP IS ACTIVE - PREDICTED VALUES ADJUSTED WITH LAGGED RESIDUALS

DURBIN-WATSON = 0.7811 VON NEUMANN RATIO = 0.7942 RHO = 0.59466

RESIDUAL SUM = -627.70 RESIDUAL VARIANCE = 0.29094E+06

SUM OF ABSOLUTE ERRORS= 23255.

R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.9988

RUNS TEST: 14 RUNS, 30 POSITIVE, 31 NEGATIVE, NORMAL STATISTIC = -4.5182

[_FC /BEG=218 END=288 BLUP PREDICT=PREDK MODEL=AUTO ESTEND=218

REQUIRED MEMORY IS PAR= 302 CURRENT PAR= 6666

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4
 ..ASSUMING ESTIMATION ENDED AT OBSERVATION 218
 DEPENDENT VARIABLE = RSEQ 71 OBSERVATIONS
 REGRESSION COEFFICIENTS

AUTOCORRELATION RHO
 0.9837274269344
 USER SPECIFIED RHO= 0.98373
 USER SPECIFIED SRHO= 0.00000
 ..FORECAST STD. ERRORS USE JUDGE(1985, EQ. 8.3.13)
 IGNORE FORECASTS AND STD. ERRORS BEFORE OBS. 219

BLUP IS ACTIVE - PREDICTED VALUES ADJUSTED WITH LAGGED RESIDUALS
 SUM OF ABSOLUTE ERRORS= 0.35166E+08
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.0455
 RUNS TEST: 2 RUNS, 1 POSITIVE, 70 NEGATIVE, NORMAL STATISTIC = -5.8737
 MEAN ERROR = -0.49528E+06
 SUM-SQUARED ERRORS = 0.17713E+14
 MEAN SQUARE ERROR = 0.24948E+12
 MEAN ABSOLUTE ERROR= 0.49529E+06
 ROOT MEAN SQUARE ERROR = 0.49948E+06
 THEIL INEQUALITY COEFFICIENT U = 9.255

DECOMPOSITION
 PROPORTION DUE TO BIAS = 0.98325
 PROPORTION DUE TO VARIANCE = 0.29455E-02
 PROPORTION DUE TO COVARIANCE = 0.13800E-01
 DECOMPOSITION
 PROPORTION DUE TO BIAS = 0.98325
 PROPORTION DUE TO REGRESSION = 0.57610E-02
 PROPORTION DUE TO DISTURBANCE = 0.10985E-01

PRINT STATE MO YR PREDK /BEG=218 END=288

31

STATE	MO	YR
4.000000	2.000000	93.00000
4.000000	3.000000	93.00000
4.000000	4.000000	93.00000
4.000000	5.000000	93.00000
4.000000	6.000000	93.00000
4.000000	7.000000	93.00000
4.000000	8.000000	93.00000
4.000000	9.000000	93.00000
4.000000	10.00000	93.00000
4.000000	11.00000	93.00000
4.000000	12.00000	93.00000
4.000000	1.000000	94.00000
4.000000	2.000000	94.00000
4.000000	3.000000	94.00000
4.000000	4.000000	94.00000
4.000000	5.000000	94.00000
4.000000	6.000000	94.00000
4.000000	7.000000	94.00000
4.000000	8.000000	94.00000
4.000000	9.000000	94.00000
4.000000	10.00000	94.00000
4.000000	11.00000	94.00000
4.000000	12.00000	94.00000
4.000000	1.000000	95.00000
4.000000	2.000000	95.00000
4.000000	3.000000	95.00000
4.000000	4.000000	95.00000
4.000000	5.000000	95.00000
4.000000	6.000000	95.00000

(D)
 PREDK

0000310

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3	1.00090	-500.249	0.61310E+08
4	1.00092	-500.245	0.61301E+08

LOG L.F. = -500.245 AT RHO = 1.00092

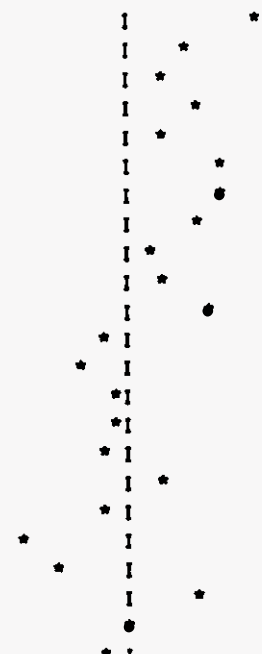
	ASYMPTOTIC	ASYMPTOTIC	ASYMPTOTIC
	ESTIMATE	VARIANCE	ST.ERROR
RHO	1.00092	-0.00003	0.00554
			T-RATIO
			180.54451

R-SQUARE = 0.9956 R-SQUARE ADJUSTED = 0.9944
 VARIANCE OF THE ESTIMATE-SIGMA**2 = 0.13326E+07
 STANDARD ERROR OF THE ESTIMATE-SIGMA = 1154.4
 SUM OF SQUARED ERRORS-SSE= 0.61301E+08
 MEAN OF DEPENDENT VARIABLE = 0.10720E+07
 LOG OF THE LIKELIHOOD FUNCTION = -500.245

	A	B	C	D	E	F	G
VARIABLE	ESTIMATED	STANDARD	T-RATIO	PARTIAL	STANDARDIZED	ELASTICITY	
NAME	COEFFICIENT	ERROR	46 DF	CORR.	COEFFICIENT	AT MEANS	

JAN			-1.8324	-0.2608		
FEB			-0.24879	-0.0367		
MAR			1.5232	0.2191		
APR			2.3650	0.3293		
MAY			3.3810	0.4461		
JUN			3.3303	0.4408		
JUL			3.6848	0.4774		
AUG			2.3909	0.3325		
SEP			1.2936	0.1873		
OCT			0.31525	0.0464		
NOV			0.58547	0.0860		
RLINES			10.618	0.8428		
RSEQR			-3.0803	-0.4135		
CONSTANT			3.0146	0.4062		

	OBS.	OBSERVED	PREDICTED	CALCULATED
	NO.	VALUE	VALUE	RESIDUAL
	303			2500.9
	304			1170.1
	305			725.28
	306			1412.3
	307			663.95
	308			1925.8
	309			1828.1
	310			1320.0
	311			361.10
	312			626.70
	313			1501.8
	314			-368.25
	315			-849.69
	316			-233.05
	317			-196.46
	318			-411.89
	319			633.88
	320			-374.27
	321			-2186.7
	322			-1416.3
	323			1448.1
	324			-106.08
	325			-369.66
	326			-144.28



15

28

31

54

0000312

F01825Z

PROPRIETARY

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A B C D

327	167.74	I*
328	340.21	I*
329	249.29	I*
330	641.25	I *
331	481.59	I *
332	1218.8	I *
333	1223.8	I *
334	934.46	I *
335	115.80	I*
336	850.28	I *
337	556.53	I *
338	646.50	I *
339	-252.61	*I
340	41.984	*
341	450.85	I *
342	-995.55	* I
343	202.74	I*
344	-671.28	* I
345	-31.629	*
346	-13.602	*
347	-1040.7	* I
348	-492.85	* I
349	-916.98	* I
350	-485.63	* I
351	-1566.3	* I
352	-1319.2	* I
353	-1229.0	* I
354	-646.16	* I
355	-1982.2	* I
356	-2099.1	* I
357	-833.59	* I
358	-824.58	* I
359	-884.36	* I
360	-878.04	* I
361	-771.71	* I
362	351.67	I *

36

BLUP IS ACTIVE - PREDICTED VALUES ADJUSTED WITH LAGGED RESIDUALS

DURBIN-WATSON = 0.7094 VON NEUMANN RATIO = 0.7214 RHO = 0.59447

RESIDUAL SUM = -0.26375E-10 RESIDUAL VARIANCE = 0.13326E+07

SUM OF ABSOLUTE ERRORS= 49183.

R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.9965

RUNS TEST: 13 RUNS, 29 POSITIVE, 31 NEGATIVE, NORMAL STATISTIC = -4.6841

[_FC /BEG=362 END=432 BLUP PREDICT=PREDL MODEL=AUTO ESTEND=362

REQUIRED MEMORY IS PAR= 302 CURRENT PAR= 6666

..ASSUMING ESTIMATION ENDED AT OBSERVATION 362

DEPENDENT VARIABLE = RSEQ 71 OBSERVATIONS

REGRESSION COEFFICIENTS

AUTOCORRELATION RHO

1.000921621841

USER SPECIFIED RHO= 1.00092

USER SPECIFIED SRHO= 0.00000

..FORECAST STD. ERRORS USE JUDGE(1985, EQ. 8.3.13)

IGNORE FORECASTS AND STD. ERRORS BEFORE OBS. 363

BLUP IS ACTIVE - PREDICTED VALUES ADJUSTED WITH LAGGED RESIDUALS

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0000313

F01B25Z



48

SUM OF ABSOLUTE ERRORS= 0.78412E+08
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.9414
 MEAN ERROR = -0.11044E+07
 SUM-SQUARED ERRORS = 0.87019E+14
 MEAN SQUARE ERROR = 0.12256E+13
 MEAN ABSOLUTE ERROR= 0.11044E+07
 ROOT MEAN SQUARE ERROR = 0.11071E+07
 THEIL INEQUALITY COEFFICIENT U = 8.592

DECOMPOSITION

PROPORTION DUE TO BIAS = 0.99515
 PROPORTION DUE TO VARIANCE = 0.45209E-02
 PROPORTION DUE TO COVARIANCE = 0.33060E-03

DECOMPOSITION

PROPORTION DUE TO BIAS = 0.99515
 PROPORTION DUE TO REGRESSION = 0.40713E-02
 PROPORTION DUE TO DISTURBANCE = 0.78023E-03



_PRINT STATE MO YR PREDL /BEG=362 END=432

19

STATE	MO	YR	PREDL
5.000000	2.000000	93.00000	
5.000000	3.000000	93.00000	
5.000000	4.000000	93.00000	
5.000000	5.000000	93.00000	
5.000000	6.000000	93.00000	
5.000000	7.000000	93.00000	
5.000000	8.000000	93.00000	
5.000000	9.000000	93.00000	
5.000000	10.00000	93.00000	
5.000000	11.00000	93.00000	
5.000000	12.00000	93.00000	
5.000000	1.000000	94.00000	
5.000000	2.000000	94.00000	
5.000000	3.000000	94.00000	
5.000000	4.000000	94.00000	
5.000000	5.000000	94.00000	
5.000000	6.000000	94.00000	
5.000000	7.000000	94.00000	
5.000000	8.000000	94.00000	
5.000000	9.000000	94.00000	
5.000000	10.00000	94.00000	
5.000000	11.00000	94.00000	
5.000000	12.00000	94.00000	
5.000000	1.000000	95.00000	
5.000000	2.000000	95.00000	
5.000000	3.000000	95.00000	
5.000000	4.000000	95.00000	
5.000000	5.000000	95.00000	
5.000000	6.000000	95.00000	
5.000000	7.000000	95.00000	
5.000000	8.000000	95.00000	
5.000000	9.000000	95.00000	
5.000000	10.00000	95.00000	
5.000000	11.00000	95.00000	
5.000000	12.00000	95.00000	
5.000000	1.000000	96.00000	
5.000000	2.000000	96.00000	
5.000000	3.000000	96.00000	
5.000000	4.000000	96.00000	
5.000000	5.000000	96.00000	
5.000000	6.000000	96.00000	
5.000000	7.000000	96.00000	

60

0000314
F01R25Z

PROPRIETARY

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 COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

A	B	C	D
5.000000	8.000000	96.00000	
5.000000	9.000000	96.00000	
5.000000	10.00000	96.00000	
5.000000	11.00000	96.00000	
5.000000	12.00000	97.00000	
5.000000	1.000000	97.00000	
5.000000	2.000000	97.00000	
5.000000	3.000000	97.00000	
5.000000	4.000000	97.00000	
5.000000	5.000000	97.00000	
5.000000	6.000000	97.00000	
5.000000	7.000000	97.00000	
5.000000	8.000000	97.00000	
5.000000	9.000000	97.00000	
5.000000	10.00000	97.00000	
5.000000	11.00000	97.00000	
5.000000	12.00000	97.00000	
5.000000	1.000000	98.00000	
5.000000	2.000000	98.00000	
5.000000	3.000000	98.00000	
5.000000	4.000000	98.00000	
5.000000	5.000000	98.00000	
5.000000	6.000000	98.00000	
5.000000	7.000000	98.00000	
5.000000	8.000000	98.00000	
5.000000	9.000000	98.00000	
5.000000	10.00000	98.00000	
5.000000	11.00000	98.00000	
5.000000	12.00000	98.00000	

29

WRITE(13) STATE MO YR PREDL /BEG=362 END=434
 *-----
 * MISSISSIPPI

AUTO RSEQ JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV RSEQ TIME &
 /LIST RS BEG=464 END=506

REQUIRED MEMORY IS PAR= 299 CURRENT PAR= 6666

DEPENDENT VARIABLE = RSEQ
 ..NOTE..R-SQUARE,ANOVA,RESIDUALS DONE ON ORIGINAL VARS

LEAST SQUARES ESTIMATION 43 OBSERVATIONS
 BY COCHRANE-ORCUTT TYPE PROCEDURE WITH CONVERGENCE = 0.00100

ITERATION	RHO	LOG L.F.	SSE
1	0.00000	-390.436	0.19395E+09
2	0.71885	-374.450	0.90665E+08
3	0.74848	-374.448	0.90458E+08
4	0.75072	-374.451	0.90456E+08
5	0.75089	-374.452	0.90456E+08

LOG L.F. = -374.452 AT RHO = 0.75089

	ASYMPTOTIC ESTIMATE	ASYMPTOTIC VARIANCE	ASYMPTOTIC ST.ERROR	ASYMPTOTIC T-RATIO
RHO	0.75089	0.01014	0.10071	7.45561

R-SQUARE = 0.8069 R-SQUARE ADJUSTED = 0.7204
 VARIANCE OF THE ESTIMATE-SIGMA**2 = 0.31192E+07
 STANDARD ERROR OF THE ESTIMATE-SIGMA = 1766.1

PROPRIETARY

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 COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

EQ18257

0000315

SUM OF SQUARED ERRORS-SSE= 0.90456E+08
 MEAN OF DEPENDENT VARIABLE = 0.61660E+06
 LOG OF THE LIKELIHOOD FUNCTION = -374.452

VARIABLE NAME	ESTIMATED COEFFICIENT	STANDARD ERROR	T-RATIO 29 DF	PARTIAL CORR.	STANDARDIZED COEFFICIENT	ELASTICITY AT MEANS
JAN			0.27003	0.0501		
FEB			1.2561	0.2272		
MAR			2.7178	0.4505		
APR			3.1470	0.5045		
MAY			3.5073	0.5457		
JUN			2.7399	0.4535		
JUL			1.6176	0.2877		
AUG			2.3460	0.3994		
SEP			2.0384	0.3540		
OCT			1.5063	0.2694		
NOV			1.5601	0.2783		
RSEQR			-1.2042	-0.2182		
TIME			-0.21385	-0.0397		
CONSTANT			143.35	0.9993		

OBS. NO.	OBSERVED VALUE	PREDICTED VALUE	CALCULATED RESIDUAL
464			-519.01
465			-502.16
466			-334.94
467			167.45
468			1914.5
469			-782.56
470			-2266.4
471			567.50
472			503.37
473			-1065.2
474			2465.3
475			-100.09
476			2324.1
477			1160.6
478			-906.87
479			675.25
480			-1597.6
481			435.81
482			-2471.7
483			-1230.4
484			-1303.7
485			2391.0
486			-3463.1
487			-33.779
488			811.97
489			740.69
490			904.39
491			722.83
492			834.27
493			918.84
494			3032.6
495			718.69
496			874.67
497			-1226.8
498			1129.7
499			309.49

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0000316

FOI B25Z

A B C

1

500	-2902.2	*	I
501	-1389.1	*	I
502	350.75		I*
503	-1547.8	*	I
504	-1127.6	*	I
505	-540.61	*	I
506	1747.4		I *

5

BLUP IS ACTIVE - PREDICTED VALUES ADJUSTED WITH LAGGED RESIDUALS

DURBIN-WATSON = 2.0044 VON NEUMANN RATIO = 2.0522 RHO = -0.02127
 RESIDUAL SUM = 389.71 RESIDUAL VARIANCE = 0.31244E+07
 SUM OF ABSOLUTE ERRORS= 51012.
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.8067
 RUNS TEST: 22 RUNS, 23 POSITIVE, 20 NEGATIVE, NORMAL STATISTIC = -0.1227

[_FC /BEG=506 END=576 BLUP PREDICT=PREDM MODEL=AUTO ESTEND=506

REQUIRED MEMORY IS PAR= 302 CURRENT PAR= 6666
 ..ASSUMING ESTIMATION ENDED AT OBSERVATION 506
 DEPENDENT VARIABLE = RSEQ 71 OBSERVATIONS
 REGRESSION COEFFICIENTS

AUTOCORRELATION RHO
 0.7508880603896
 USER SPECIFIED RHO= 0.75089
 USER SPECIFIED SRHO= 0.00000
 ..FORECAST STD. ERRORS USE JUDGE(1985, EQ. 8.3.13)
 IGNORE FORECASTS AND STD. ERRORS BEFORE OBS. 507

BLUP IS ACTIVE - PREDICTED VALUES ADJUSTED WITH LAGGED RESIDUALS

SUM OF ABSOLUTE ERRORS= 0.43026E+08
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.0013
 MEAN ERROR = -0.60601E+06
 SUM-SQUARED ERRORS = 0.26447E+14
 MEAN SQUARE ERROR = 0.37249E+12
 MEAN ABSOLUTE ERROR= 0.60601E+06
 ROOT MEAN SQUARE ERROR = 0.61032E+06
 THEIL INEQUALITY COEFFICIENT U = 8.380

DECOMPOSITION

PROPORTION DUE TO BIAS = 0.98592
 PROPORTION DUE TO VARIANCE = 0.13314E-01
 PROPORTION DUE TO COVARIANCE = 0.76243E-03

DECOMPOSITION

PROPORTION DUE TO BIAS = 0.98592
 PROPORTION DUE TO REGRESSION = 0.54211E-04
 PROPORTION DUE TO DISTURBANCE = 0.14022E-01

[_PRINT STATE MO YR PREDM /BEG=506 END=576

(D)

43

STATE	MO	YR	PREDM
6.000000	2.000000	93.00000	
6.000000	3.000000	93.00000	
6.000000	4.000000	93.00000	
6.000000	5.000000	93.00000	
6.000000	6.000000	93.00000	
6.000000	7.000000	93.00000	
6.000000	8.000000	93.00000	
6.000000	9.000000	93.00000	
6.000000	10.00000	93.00000	
6.000000	11.00000	93.00000	
6.000000	12.00000	93.00000	

52

0000317

PROPRIETARY

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 COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

A	B	C
6.000000	1.000000	94.00000
6.000000	2.000000	94.00000
6.000000	3.000000	94.00000
6.000000	4.000000	94.00000
6.000000	5.000000	94.00000
6.000000	6.000000	94.00000
6.000000	7.000000	94.00000
6.000000	8.000000	94.00000
6.000000	9.000000	94.00000
6.000000	10.00000	94.00000
6.000000	11.00000	94.00000
6.000000	12.00000	94.00000
6.000000	1.000000	95.00000
6.000000	2.000000	95.00000
6.000000	3.000000	95.00000
6.000000	4.000000	95.00000
6.000000	5.000000	95.00000
6.000000	6.000000	95.00000
6.000000	7.000000	95.00000
6.000000	8.000000	95.00000
6.000000	9.000000	95.00000
6.000000	10.00000	95.00000
6.000000	11.00000	95.00000
6.000000	12.00000	95.00000
6.000000	1.000000	96.00000
6.000000	2.000000	96.00000
6.000000	3.000000	96.00000
6.000000	4.000000	96.00000
6.000000	5.000000	96.00000
6.000000	6.000000	96.00000
6.000000	7.000000	96.00000
6.000000	8.000000	96.00000
6.000000	9.000000	96.00000
6.000000	10.00000	96.00000
6.000000	11.00000	96.00000
6.000000	12.00000	97.00000
6.000000	1.000000	97.00000
6.000000	2.000000	97.00000
6.000000	3.000000	97.00000
6.000000	4.000000	97.00000
6.000000	5.000000	97.00000
6.000000	6.000000	97.00000
6.000000	7.000000	97.00000
6.000000	8.000000	97.00000
6.000000	9.000000	97.00000
6.000000	10.00000	97.00000
6.000000	11.00000	97.00000
6.000000	12.00000	97.00000
6.000000	1.000000	98.00000
6.000000	2.000000	98.00000
6.000000	3.000000	98.00000
6.000000	4.000000	98.00000
6.000000	5.000000	98.00000
6.000000	6.000000	98.00000
6.000000	7.000000	98.00000
6.000000	8.000000	98.00000
6.000000	9.000000	98.00000
6.000000	10.00000	98.00000
6.000000	11.00000	98.00000
6.000000	12.00000	98.00000

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0000310

FA1R25Z

_WRITE(14) STATE NO YR PREDM /BEG=506 END=576

* -----
* TENNESSEE

_AUTO RSEQ JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV RLINES RSEQR &
/LIST RS BEG=590 END=650

REQUIRED MEMORY IS PAR= 302 CURRENT PAR= 6666

DEPENDENT VARIABLE = RSEQ

..NOTE..R-SQUARE,ANOVA,RESIDUALS DONE ON ORIGINAL VARS

LEAST SQUARES ESTIMATION 61 OBSERVATIONS
BY COCHRANE-ORCUTT TYPE PROCEDURE WITH CONVERGENCE = 0.00100

ITERATION	RHO	LOG L.F.	SSE
1	0.00000	-548.646	0.23180E+09
2	0.74321	-516.083	0.78654E+08
3	0.79198	-515.060	0.75832E+08
4	0.80246	-514.885	0.75342E+08
5	0.80528	-514.841	0.75217E+08
6	0.80609	-514.828	0.75181E+08

LOG L.F. = -514.828 AT RHO = 0.80609

	ASYMPTOTIC ESTIMATE	ASYMPTOTIC VARIANCE	ASYMPTOTIC ST.ERROR	ASYMPTOTIC T-RATIO
RHO	0.80609	0.00574	0.07577	10.63839

R-SQUARE = 0.9990 R-SQUARE ADJUSTED = 0.9987

VARIANCE OF THE ESTIMATE-SIGMA**2 = 0.15996E+07

STANDARD ERROR OF THE ESTIMATE-SIGMA = 1264.8

SUM OF SQUARED ERRORS-SSE= 0.75181E+08

MEAN OF DEPENDENT VARIABLE = 0.11754E+07

LOG OF THE LIKELIHOOD FUNCTION = -514.828

VARIABLE NAME	ESTIMATED COEFFICIENT	STANDARD ERROR	T-RATIO 47 DF	PARTIAL CORR.	STANDARDIZED COEFFICIENT	ELASTICITY AT MEANS
---------------	-----------------------	----------------	---------------	---------------	--------------------------	---------------------

JAN			-1.3279	-0.1902		
FEB			0.77512	-0.1123		
MAR			0.80832	0.1171		
APR			1.2677	0.1818		
MAY			0.87576	0.1267		
JUN			0.43311	0.0630		
JUL			-0.80968E-01	-0.0118		
AUG			-0.48245	-0.0702		
SEP			0.24814E-01	0.0036		
OCT			1.0669	0.1538		
NOV			0.96964	0.1400		
RLINES			41.649	0.9867		
RSEQR			-0.41417	-0.0603		
CONSTANT			13.304	0.8889		

OBS. NO.	OBSERVED VALUE	PREDICTED VALUE	CALCULATED RESIDUAL
590			-5184.5
591			1441.5
592			1084.9
593			985.43

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COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

0000319

FO1B25Z

A B C

594	1047.3	I	*
595	1265.3	I	*
596	1447.8	I	*
597	1203.0	I	*
598	312.03	I*	
599	542.69	I	*
600	279.80	I*	
601	622.85	I	*
602	-669.72	*	I
603	-1237.4	*	I
604	-390.75	*	I
605	-1569.6	*	I
606	-851.98	*	I
607	-387.55	*	I
608	326.51	I*	
609	-272.63	*I	
610	4465.2	I	X
611	1701.0	I	*
612	943.34	I	*
613	-198.03	*I	
614	-815.86	*	I
615	263.21	I*	
616	-83.047	*	
617	28.568	*	
618	-126.35	*	
619	-701.86	*	I
620	820.91	I	*
621	-647.49	*	I
622	-1326.3	*	I
623	-114.21	*	
624	294.59	I*	
625	58.460	*	
626	459.72	I	*
627	193.44	I*	
628	-294.74	*I	
629	685.55	I	*
630	582.41	I	*
631	186.70	I*	
632	-1377.8	*	I
633	1919.0	I	.
634	-642.50	*	I
635	-78.308	*	
636	-99.592	*	
637	993.85	I	*
638	1412.5	I	*
639	-477.48	*	I
640	-88.978	*	
641	152.23	I*	
642	-301.40	*I	
643	71.675	*	
644	-678.75	*	I
645	-1533.7	*	I
646	-1979.4	*	I
647	-1022.7	*	I
648	-142.29	*I	
649	105.63	*	
650	1576.8	I	*

BLUP IS ACTIVE - PREDICTED VALUES ADJUSTED WITH LAGGED RESIDUALS

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 COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

FOI B 202

0000320

DURBIN-WATSON = 1.3411 VON NEUMANN RATIO = 1.3634 RHO = 0.17570
 RESIDUAL SUM = 4179.1 RESIDUAL VARIANCE = 0.19712E+07
 SUM OF ABSOLUTE ERRORS= 50769.
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.9987
 RUNS TEST: 26 RUNS, 32 POSITIVE, 29 NEGATIVE, NORMAL STATISTIC = -1.4047

|_FC /BEG=650 END=720 BLUP PREDICT=PREDT MODEL=AUTO ESTEND=650

REQUIRED MEMORY IS PAR= 302 CURRENT PAR= 6666
 ..ASSUMING ESTIMATION ENDED AT OBSERVATION 650
 DEPENDENT VARIABLE = RSEQ 71 OBSERVATIONS
 REGRESSION COEFFICIENTS

AUTOCORRELATION RHO
 0.8060881425618
 USER SPECIFIED RHO= 0.80609
 USER SPECIFIED SRHO= 0.00000
 ..FORECAST STD. ERRORS USE JUDGE(1985, EQ. 8.3.13)
 IGNORE FORECASTS AND STD. ERRORS BEFORE OBS. 651

BLUP IS ACTIVE - PREDICTED VALUES ADJUSTED WITH LAGGED RESIDUALS
 SUM OF ABSOLUTE ERRORS= 0.94692E+08
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.0442
 MEAN ERROR = -0.13337E+07
 SUM-SQUARED ERRORS = 0.12837E+15
 MEAN SQUARE ERROR = 0.18080E+13
 MEAN ABSOLUTE ERROR= 0.13337E+07
 ROOT MEAN SQUARE ERROR = 0.13446E+07
 THEIL INEQUALITY COEFFICIENT U = 9.147

DECOMPOSITION
 PROPORTION DUE TO BIAS = 0.98381
 PROPORTION DUE TO VARIANCE = 0.37388E-02
 PROPORTION DUE TO COVARIANCE = 0.12455E-01
 DECOMPOSITION
 PROPORTION DUE TO BIAS = 0.98381
 PROPORTION DUE TO REGRESSION = 0.49308E-02
 PROPORTION DUE TO DISTURBANCE = 0.11263E-01

|_PRINT STATE MO YR PREDT /BEG=650 END=720

STATE	MO	YR	PREDT
9.000000	2.000000	93.00000	
9.000000	3.000000	93.00000	
9.000000	4.000000	93.00000	
9.000000	5.000000	93.00000	
9.000000	6.000000	93.00000	
9.000000	7.000000	93.00000	
9.000000	8.000000	93.00000	
9.000000	9.000000	93.00000	
9.000000	10.00000	93.00000	
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9.000000	12.00000	93.00000	
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9.000000	3.000000	94.00000	
9.000000	4.000000	94.00000	
9.000000	5.000000	94.00000	
9.000000	6.000000	94.00000	
9.000000	7.000000	94.00000	
9.000000	8.000000	94.00000	
9.000000	9.000000	94.00000	
9.000000	10.00000	94.00000	

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 COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

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11

37

57

A	B	C	D
9.000000	11.00000	94.00000	
9.000000	12.00000	94.00000	
9.000000	1.000000	95.00000	
9.000000	2.000000	95.00000	
9.000000	3.000000	95.00000	
9.000000	4.000000	95.00000	
9.000000	5.000000	95.00000	
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9.000000	10.00000	96.00000	
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9.000000	12.00000	97.00000	
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9.000000	9.000000	97.00000	
9.000000	10.00000	97.00000	
9.000000	11.00000	97.00000	
9.000000	12.00000	97.00000	
9.000000	1.000000	98.00000	
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9.000000	3.000000	98.00000	
9.000000	4.000000	98.00000	
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9.000000	6.000000	98.00000	
9.000000	7.000000	98.00000	
9.000000	8.000000	98.00000	
9.000000	9.000000	98.00000	
9.000000	10.00000	98.00000	
9.000000	11.00000	98.00000	
9.000000	12.00000	98.00000	

```

WRITE(15) STATE MO YR PREDT /BEG=650 END=720
STOP

```

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FD1R25Z

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SOUTH CENTRAL BELL MODELS

SEQ1X: BUSINESS

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Date:04/22/93 Time:12:50:54.18

* BUSINESS SCB SEQ1X MODELS: BASE CASE SCENARIOS *

* SITE LICENSE - FOR USE ON ALL COMPUTERS AT ABOVE LOCATION *

Hello/Bonjour/Aloha/Howdy/G Day/Kia Ora/Konnichiwa/Buenos Dias/Nee Hau
Welcome to SHAZAM - Version 6.2 - AUG 1991 SYSTEM=OS386 PAR= 6666

* BUSINESS INSIDE WIRE MONTHLY PLANS (SEQ1X) *

* Data: 1/87 - 12/98; SEQ1X DATA BEGINS ON 2/88 & ENDS ON 2/93
* Total Observations = 144 Per State

_DIM PREDA 1200 PREDK 1200 PREDL 1200 PREDM 1200 PREDT 1200

_SET NODELETE

_FILE 4 SCB.PRN

UNIT 4 IS NOW ASSIGNED TO: SCB.PRN

_* -----

_FILE 11 ALR.OUT

UNIT 11 IS NOW ASSIGNED TO: ALR.OUT

_FILE 12 KYR.OUT

UNIT 12 IS NOW ASSIGNED TO: KYR.OUT

_FILE 13 LAR.OUT

UNIT 13 IS NOW ASSIGNED TO: LAR.OUT

_FILE 14 MSR.OUT

UNIT 14 IS NOW ASSIGNED TO: MSR.OUT

_FILE 15 TNR.OUT

UNIT 15 IS NOW ASSIGNED TO: TNR.OUT

_* -----

_FILE 16 ALB.OUT

UNIT 16 IS NOW ASSIGNED TO: ALB.OUT

_FILE 17 KYB.OUT

UNIT 17 IS NOW ASSIGNED TO: KYB.OUT

_FILE 18 LAB.OUT

UNIT 18 IS NOW ASSIGNED TO: LAB.OUT

_FILE 19 MSB.OUT

UNIT 19 IS NOW ASSIGNED TO: MSB.OUT

_FILE 20 TNB.OUT

UNIT 20 IS NOW ASSIGNED TO: TNB.OUT

_* -----

_READ(4) TIME STATE YR MO RSEQ RSEQR BSEQ BSEQR &
RLINES IRLINES BLINES IBLINES TLINES ITLINES

...SAMPLE RANGE IS NOW SET TO: 1 720

_* -----
* SINCE DATA STARTS AT 2/88 (TIME=14), SKIP DATA BEFORE THAT TIME...
_* -----

_SET NOWARNSKIP

_SKIPIF(TIME.LT.14) --

_GENR TOTOB=TIME(0)

_* -----
* CREATING SEASONAL DUMMIES
_* -----

_GENR JAN=0

_GENR FEB=0

_GENR MAR=0

_GENR APR=0

_GENR MAY=0

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_GENR JUN=0
_GENR JUL=0
_GENR AUG=0
_GENR SEP=0
_GENR OCT=0
_GENR NOV=0
_GENR DEC=0
_IF(MO.EQ.1)JAN=1
_IF(MO.EQ.2)FEB=1
_IF(MO.EQ.3)MAR=1
_IF(MO.EQ.4)APR=1
_IF(MO.EQ.5)MAY=1
_IF(MO.EQ.6)JUN=1
_IF(MO.EQ.7)JUL=1
_IF(MO.EQ.8)AUG=1
_IF(MO.EQ.9)SEP=1
_IF(MO.EQ.10)OCT=1
_IF(MO.EQ.11)NOV=1
_IF(MO.EQ.12)DEC=1
* -----
* CREATING STATE DUMMIES
* -----
_GENR AL=0
_GENR KY=0
_GENR LA=0
_GENR MS=0
_GENR TN=0
_IF(STATE.EQ.1)AL=1
_IF(STATE.EQ.4)KY=1
_IF(STATE.EQ.5)LA=1
_IF(STATE.EQ.6)MS=1
_IF(STATE.EQ.9)TN=1
* -----
* Creating Slope dummies for POOLED ANALYSIS Residential Access Lines
* -----
_GENR RSAL=0
_GENR RSKY=0
_GENR RSLA=0
_GENR RSMS=0
_GENR RSTN=0
_IF(STATE.EQ.1)RSAL=RLINES
_IF(STATE.EQ.4)RSKY=RLINES
_IF(STATE.EQ.5)RSLA=RLINES
_IF(STATE.EQ.6)RSMS=RLINES
_IF(STATE.EQ.9)RSTN=RLINES
* -----
* Creating Slope dummies for POOLED ANALYSIS Business Main Access Lines
* -----
_GENR BSAL=0
_GENR BSKY=0
_GENR BSLA=0
_GENR BSMS=0
_GENR BSTN=0
_IF(STATE.EQ.1)BSAL=BLINES
_IF(STATE.EQ.4)BSKY=BLINES
_IF(STATE.EQ.5)BSLA=BLINES
_IF(STATE.EQ.6)BSMS=BLINES
_IF(STATE.EQ.9)BSTN=BLINES
* -----
_STAT /ALL

```

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NAME	N	MEAN	ST. DEV	VARIANCE	MINIMUM	MAXIMUM
PRED	655	0.00000	0.00000	0.00000	0.00000	0.00000
PREDK	655	0.00000	0.00000	0.00000	0.00000	0.00000
PREDL	655	0.00000	0.00000	0.00000	0.00000	0.00000
PREDM	655	0.00000	0.00000	0.00000	0.00000	0.00000
PREDT	655	0.00000	0.00000	0.00000	0.00000	0.00000
TIME	655	79.000	37.844	1432.2	14.000	144.00
STATE	655	5.0000	2.6097	6.8104	1.0000	9.0000
YR	655	93.046	3.1547	9.9520	88.000	98.000
MO	655	6.5420	3.4341	11.793	1.0000	12.000
RSEQ	655	0.39367E+06	0.46377E+06	0.21508E+12	0.00000	0.12386E+07
RSEQR	655	1.5670	0.44622	0.19911	0.60000	2.0000
BSEQ	655	25602.	29986.	0.89914E+09	0.00000	81654.
BSEQR	655	1.6212	0.39959	0.15967	0.60000	2.0000
RLINES	655	0.11661E+07	0.35368E+06	0.12509E+12	0.68774E+06	0.19395E+07
IRLINES	655	116.56	10.017	100.35	101.05	146.59
BLINES	655	0.25327E+06	90503.	0.81907E+10	0.12406E+06	0.48437E+06
IBLINES	655	131.97	19.073	363.77	101.32	184.23
TLINES	655	0.14193E+07	0.44308E+06	0.19632E+12	0.81180E+06	0.24239E+07
ITLINES	655	119.01	11.363	129.11	101.09	152.83
SKIP\$	655	0.00000	0.00000	0.00000	0.00000	0.00000
TOTOBS	655	367.00	207.29	42968.	14.000	720.00
JAN	655	0.76336E-01	0.26574	0.70617E-01	0.00000	1.0000
FEB	655	0.83969E-01	0.27755	0.77036E-01	0.00000	1.0000
MAR	655	0.83969E-01	0.27755	0.77036E-01	0.00000	1.0000
APR	655	0.83969E-01	0.27755	0.77036E-01	0.00000	1.0000
MAY	655	0.83969E-01	0.27755	0.77036E-01	0.00000	1.0000
JUN	655	0.83969E-01	0.27755	0.77036E-01	0.00000	1.0000
JUL	655	0.83969E-01	0.27755	0.77036E-01	0.00000	1.0000
AUG	655	0.83969E-01	0.27755	0.77036E-01	0.00000	1.0000
SEP	655	0.83969E-01	0.27755	0.77036E-01	0.00000	1.0000
OCT	655	0.83969E-01	0.27755	0.77036E-01	0.00000	1.0000
NOV	655	0.83969E-01	0.27755	0.77036E-01	0.00000	1.0000
DEC	655	0.83969E-01	0.27755	0.77036E-01	0.00000	1.0000
AL	655	0.20000	0.40031	0.16024	0.00000	1.0000
KY	655	0.20000	0.40031	0.16024	0.00000	1.0000
LA	655	0.20000	0.40031	0.16024	0.00000	1.0000
MS	655	0.20000	0.40031	0.16024	0.00000	1.0000
TN	655	0.20000	0.40031	0.16024	0.00000	1.0000
RSAL	655	0.24116E+06	0.48425E+06	0.23450E+12	0.00000	0.13576E+07
RSKY	655	0.15574E+06	0.31295E+06	0.97941E+11	0.00000	0.89185E+06
RSLA	655	0.28468E+06	0.57050E+06	0.32547E+12	0.00000	0.15228E+07
RSMS	655	0.15779E+06	0.31656E+06	0.10021E+12	0.00000	0.86980E+06
RSTN	655	0.32671E+06	0.65821E+06	0.43324E+12	0.00000	0.19395E+07
BSAL	655	48348.	97338.	0.94747E+10	0.00000	0.28321E+06
BSKY	655	32801.	66549.	0.44287E+10	0.00000	0.20827E+06
BSLA	655	62483.	0.12568E+06	0.15794E+11	0.00000	0.35973E+06
BSMS	655	33404.	67350.	0.45360E+10	0.00000	0.19948E+06
BSTN	655	76232.	0.15470E+06	0.23932E+11	0.00000	0.48437E+06

```

*-----*
* Plotting Residence Seq1x History...
*-----*
* PLOT RSEQ          /TIME SAME GRAPHICS LINEONLY BEG=1  END=74  PAUSE
* PLOT RSEQ          /TIME SAME GRAPHICS LINEONLY BEG=88  END=148 PAUSE
* PLOT RSEQ          /TIME SAME GRAPHICS LINEONLY BEG=162 END=222 PAUSE
* PLOT RSEQ          /TIME SAME GRAPHICS LINEONLY BEG=236 END=296 PAUSE
* PLOT RSEQ          /TIME SAME GRAPHICS LINEONLY BEG=310 END=370 PAUSE
*-----*
* Plotting Business Seq1x History...
*-----*

```

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_* PLOT BSEQ          /TIME SAME GRAPHICS LINEONLY BEG=1  END=74  PAUSE
_* PLOT BSEQ          /TIME SAME GRAPHICS LINEONLY BEG=88 END=148 PAUSE
_* PLOT BSEQ          /TIME SAME GRAPHICS LINEONLY BEG=162 END=222 PAUSE
_* PLOT BSEQ          /TIME SAME GRAPHICS LINEONLY BEG=236 END=296 PAUSE
_* PLOT BSEQ          /TIME SAME GRAPHICS LINEONLY BEG=310 END=370 PAUSE
_* -----
_* ALABAMA

```

```

_AUTO BSEQ JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV BLINES BSEQR      &
 /LIST RS BEG=14 END=74

```

REQUIRED MEMORY IS PAR= 302 CURRENT PAR= 6666

DEPENDENT VARIABLE = BSEQ

..NOTE..R-SQUARE,ANOVA,RESIDUALS DONE ON ORIGINAL VARS

LEAST SQUARES ESTIMATION 61 OBSERVATIONS
 BY COCHRANE-ORCUTT TYPE PROCEDURE WITH CONVERGENCE = 0.00100

ITERATION	RHO	LOG L.F.	SSE
1	0.00000	-434.764	0.55402E+07
2	0.94169	-368.194	0.60274E+06
3	0.97269	-367.620	0.58434E+06
4	0.97914	-367.622	0.58182E+06
5	0.98110	-367.637	0.58117E+06
6	0.98176	-367.643	0.58096E+06

LOG L.F. = -367.643 AT RHO = 0.98176

	ASYMPTOTIC ESTIMATE	ASYMPTOTIC VARIANCE	ASYMPTOTIC ST.ERROR	ASYMPTOTIC T-RATIO
RHO	0.98176	0.00059	0.02434	40.33298

R-SQUARE = 0.9973 R-SQUARE ADJUSTED = 0.9966
 VARIANCE OF THE ESTIMATE-SIGMA**2 = 12361.
 STANDARD ERROR OF THE ESTIMATE-SIGMA = 111.18
 SUM OF SQUARED ERRORS-SSE= 0.58096E+06
 MEAN OF DEPENDENT VARIABLE = 51382.
 LOG OF THE LIKELIHOOD FUNCTION = -367.643

VARIABLE NAME	ESTIMATED COEFFICIENT	STANDARD ERROR	T-RATIO 47 DF	PARTIAL CORR.	STANDARDIZED COEFFICIENT	ELASTICITY AT MEANS
JAN			-0.81183		-0.1176	
FEB			0.18242		0.0266	
MAR			2.2606		0.3132	
APR			3.1244		0.4147	
MAY			3.6094		0.4659	
JUN			4.1428		0.5172	
JUL			4.1051		0.5137	
AUG			3.9650		0.5007	
SEP			5.2967		0.6114	
OCT			5.6697		0.6373	
NOV			4.6555		0.5618	
BLINES			-7.5852		-0.7419	
BSEQR			-1.0003		-0.1444	
CONSTANT			21.493		0.9527	
OBS. NO.	OBSERVED VALUE	PREDICTED VALUE	CALCULATED RESIDUAL			

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A B C

14	.	390.99	I	X
15	.	128.17	I	*
16	.	119.23	I	*
17	.	98.372	I	*
18	.	53.442	I	*
19	.	-102.53	* I	
20	.	10.564	*	
21	.	-21.841	* I	
22	.	-70.565	* I	
23	.	16.841	I*	
24	.	56.140	I	*
25	.	-125.35	* I	
26	.	6.9478	*	
27	.	-124.62	* I	
28	.	-167.39	• I	
29	.	-180.51	• I	
30	.	52.332	I *	
31	.	87.524	I *	
32	.	27.334	I*	
33	.	86.204	I *	
34	.	-109.56	* I	
35	.	-47.537	* I	
36	.	-9.5896	•	
37	.	10.374	*	
38	.	-61.103	* I	
39	.	-66.897	* I	
40	.	-25.469	* I	
41	.	-11.438	* I	
42	.	56.076	I *	
43	.	-18.341	* I	
44	.	-1.4165	•	
45	.	-139.66	* I	
46	.	0.13423	•	
47	.	-37.076	* I	
48	.	-56.756	* I	
49	.	-244.77	* I	
50	.	-150.36	* I	
51	.	-158.71	• I	
52	.	-41.238	* I	
53	.	97.630	I *	
54	.	-232.86	* I	
55	.	-94.556	* I	
56	.	-76.276	* I	
57	.	-65.576	* I	
58	.	-72.028	* I	
59	.	15.608	I*	
60	.	44.644	I *	
61	.	161.59	I	*
62	.	137.47	I	*
63	.	163.82	I	*
64	.	55.554	I *	
65	.	-64.472	* I	
66	.	9.4645	*	
67	.	65.218	I *	
68	.	-24.054	* I	
69	.	75.835	I *	
70	.	185.77	I	*
71	.	-15.311	* I	
72	.	-103.17		
73	.	128.15		

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A B C

74

-4.2512

*

DURBIN-WATSON = 1.0561 VON NEUMANN RATIO = 1.0737 RHO = 0.36700
 RESIDUAL SUM = -383.86 RESIDUAL VARIANCE = 15496.
 SUM OF ABSOLUTE ERRORS= 5066.7
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.9967
 RUNS TEST: 26 RUNS, 28 POSITIVE, 33 NEGATIVE, NORMAL STATISTIC = -1.3768

|_FC /BEG=74 END=144 BLUP PREDICT=PRED MODEL=AUTO ESTEND=74

REQUIRED MEMORY IS PAR= 302 CURRENT PAR= 6666
 ..ASSUMING ESTIMATION ENDED AT OBSERVATION 74
 DEPENDENT VARIABLE = BSEQ 71 OBSERVATIONS
 REGRESSION COEFFICIENTS

12

AUTOCORRELATION RHO
 0.9817622912297
 USER SPECIFIED RHO= 0.98176
 USER SPECIFIED SRHO= 0.00000
 ..FORECAST STD. ERRORS USE JUDGE(1985, EQ. 8.3.13)
 IGNORE FORECASTS AND STD. ERRORS BEFORE OBS. 75

BLUP IS ACTIVE - PREDICTED VALUES ADJUSTED WITH LAGGED RESIDUALS
 SUM OF ABSOLUTE ERRORS= 0.32275E+07
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.0431
 MEAN ERROR = -45458.
 SUM-SQUARED ERRORS = 0.14902E+12
 MEAN SQUARE ERROR = 0.20988E+10
 MEAN ABSOLUTE ERROR= 45458.
 ROOT MEAN SQUARE ERROR = 45813.
 THEIL INEQUALITY COEFFICIENT U = 7.864

DECOMPOSITION
 PROPORTION DUE TO BIAS = 0.98457
 PROPORTION DUE TO VARIANCE = 0.75699E-02
 PROPORTION DUE TO COVARIANCE = 0.78551E-02

DECOMPOSITION
 PROPORTION DUE TO BIAS = 0.98457
 PROPORTION DUE TO REGRESSION = 0.16988E-03
 PROPORTION DUE TO DISTURBANCE = 0.15255E-01

|_PRINT STATE MO YR PRED /BEG=74 END=144

STATE	MO	YR
1.000000	2.000000	93.00000
1.000000	3.000000	93.00000
1.000000	4.000000	93.00000
1.000000	5.000000	93.00000
1.000000	6.000000	93.00000
1.000000	7.000000	93.00000
1.000000	8.000000	93.00000
1.000000	9.000000	93.00000
1.000000	10.00000	93.00000
1.000000	11.00000	93.00000
1.000000	12.00000	93.00000
1.000000	1.000000	94.00000
1.000000	2.000000	94.00000
1.000000	3.000000	94.00000
1.000000	4.000000	94.00000
1.000000	5.000000	94.00000
1.000000	6.000000	94.00000
1.000000	7.000000	94.00000
1.000000	8.000000	94.00000

PRED

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1.000000	9.000000	94.00000	
1.000000	10.00000	94.00000	
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1.000000	8.000000	97.00000	
1.000000	9.000000	97.00000	
1.000000	10.00000	97.00000	
1.000000	11.00000	97.00000	
1.000000	12.00000	97.00000	
1.000000	1.000000	98.00000	
1.000000	2.000000	98.00000	
1.000000	3.000000	98.00000	
1.000000	4.000000	98.00000	
1.000000	5.000000	98.00000	
1.000000	6.000000	98.00000	
1.000000	7.000000	98.00000	
1.000000	8.000000	98.00000	
1.000000	9.000000	98.00000	
1.000000	10.00000	98.00000	
1.000000	11.00000	98.00000	
1.000000	12.00000	98.00000	

_WRITE(16) STATE MO YR PREDA /BEG=74 END=144

_*-----
_* KENTUCKY

_AUTO BSEQ JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV BLINES BSEQ &
/LIST RS BEG=145 END=218

REQUIRED MEMORY IS PAR= 302 CURRENT PAR= 6666

PROPRIETARY

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BELLSOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

000333J

F01B25Z

A	B	C			
170			29.740	I *	
171			101.44	I	*
172			2.5922	*	
173			-55.173	* I	
174			-30.986	* I	
175			-54.453	* I	
176			19.529	I *	
177			15.385	I*	
178			60.026	I	*
179			-27.939	* I	
180			-23.007	* I	
181			-54.692	* I	
182			-53.261	* I	
183			-50.503	* I	
184			-39.232	* I	
185			-8.5249	* I	
186			-21.263	* I	
187			-56.729	* I	
188			8.7775	I*	
189			4.5744	*	
190			-88.990	* I	
191			-44.648	* I	
192			-22.995	* I	
193			-47.254	* I	
194			31.329	I *	
195			-79.229	* I	
196			-6.1804	* I	
197			-12.433	* I	
198			22.700	I *	
199			-50.938	* I	
200			-48.517	* I	
201			-47.143	* I	
202			-33.870	* I	
203			7.1840	I*	
204			17.613	I *	
205			88.683	I	*
206			44.842	I	*
207			-8.0653	* I	
208			-47.552	* I	
209			73.019	I	*
210			-19.499	* I	
211			112.82	I	*
212			65.396	I	*
213			14.939	I*	
214			28.288	I *	
215			50.698	I	*
216			-43.497	* I	
217			-38.893	* I	
218			-53.933	* I	

BLUP IS ACTIVE - PREDICTED VALUES ADJUSTED WITH LAGGED RESIDUALS

DURBIN-WATSON = 1.3454 VON NEUMANN RATIO = 1.3678 RHO = 0.32338
 RESIDUAL SUM = -6.7734 RESIDUAL VARIANCE = 2907.3
 SUM OF ABSOLUTE ERRORS= 2424.7
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.9734
 RUNS TEST: 18 RUNS, 31 POSITIVE, 30 NEGATIVE, NORMAL STATISTIC = -3.4850

_FC /BEG=218 END=288 BLUP PREDICT=PREDK MODEL=AUTO ESTEND=218

PROPRIETARY

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 BELL SOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
 COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

F018252

0000332

REQUIRED MEMORY IS PAR= 302 CURRENT PAR= 6666
 ..ASSUMING ESTIMATION ENDED AT OBSERVATION 218
 DEPENDENT VARIABLE = BSEQ 71 OBSERVATIONS
 REGRESSION COEFFICIENTS

AUTOCORRELATION RHO
 0.9782224645550
 USER SPECIFIED RHO= 0.97822
 USER SPECIFIED SRHO= 0.00000
 ..FORECAST STD. ERRORS USE JUDGE(1985, EQ. 8.3.13)
 IGNORE FORECASTS AND STD. ERRORS BEFORE OBS. 219

BLUP IS ACTIVE - PREDICTED VALUES ADJUSTED WITH LAGGED RESIDUALS
 SUM OF ABSOLUTE ERRORS= 0.20968E+07
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.0428
 MEAN ERROR = -29532.
 SUM-SQUARED ERRORS = 0.62824E+11
 MEAN SQUARE ERROR = 0.88485E+09
 MEAN ABSOLUTE ERROR= 29532.
 ROOT MEAN SQUARE ERROR = 29746.
 THEIL INEQUALITY COEFFICIENT U = 8.645

DECOMPOSITION
 PROPORTION DUE TO BIAS = 0.98566
 PROPORTION DUE TO VARIANCE = 0.94588E-02
 PROPORTION DUE TO COVARIANCE = 0.48791E-02
 DECOMPOSITION
 PROPORTION DUE TO BIAS = 0.98566
 PROPORTION DUE TO REGRESSION = 0.17113E-02
 PROPORTION DUE TO DISTURBANCE = 0.12627E-01

_PRINT STATE MO YR PREDK /BEG=218 END=288

STATE	MO	YR
4.000000	2.000000	93.00000
4.000000	3.000000	93.00000
4.000000	4.000000	93.00000
4.000000	5.000000	93.00000
4.000000	6.000000	93.00000
4.000000	7.000000	93.00000
4.000000	8.000000	93.00000
4.000000	9.000000	93.00000
4.000000	10.00000	93.00000
4.000000	11.00000	93.00000
4.000000	12.00000	93.00000
4.000000	1.000000	94.00000
4.000000	2.000000	94.00000
4.000000	3.000000	94.00000
4.000000	4.000000	94.00000
4.000000	5.000000	94.00000
4.000000	6.000000	94.00000
4.000000	7.000000	94.00000
4.000000	8.000000	94.00000
4.000000	9.000000	94.00000
4.000000	10.00000	94.00000
4.000000	11.00000	94.00000
4.000000	12.00000	94.00000
4.000000	1.000000	95.00000
4.000000	2.000000	95.00000
4.000000	3.000000	95.00000
4.000000	4.000000	95.00000
4.000000	5.000000	95.00000
4.000000	6.000000	95.00000

P
 PREDK

0000383

FN1825Z

PRIETARY

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 BELL SOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
 COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

A	B	C	D
4.000000	7.000000	95.00000	
4.000000	8.000000	95.00000	
4.000000	9.000000	95.00000	
4.000000	10.00000	95.00000	
4.000000	11.00000	95.00000	
4.000000	12.00000	95.00000	
4.000000	1.000000	96.00000	
4.000000	2.000000	96.00000	
4.000000	3.000000	96.00000	
4.000000	4.000000	96.00000	
4.000000	5.000000	96.00000	
4.000000	6.000000	96.00000	
4.000000	7.000000	96.00000	
4.000000	8.000000	96.00000	
4.000000	9.000000	96.00000	
4.000000	10.00000	96.00000	
4.000000	11.00000	96.00000	
4.000000	12.00000	97.00000	
4.000000	1.000000	97.00000	
4.000000	2.000000	97.00000	
4.000000	3.000000	97.00000	
4.000000	4.000000	97.00000	
4.000000	5.000000	97.00000	
4.000000	6.000000	97.00000	
4.000000	7.000000	97.00000	
4.000000	8.000000	97.00000	
4.000000	9.000000	97.00000	
4.000000	10.00000	97.00000	
4.000000	11.00000	97.00000	
4.000000	12.00000	97.00000	
4.000000	1.000000	98.00000	
4.000000	2.000000	98.00000	
4.000000	3.000000	98.00000	
4.000000	4.000000	98.00000	
4.000000	5.000000	98.00000	
4.000000	6.000000	98.00000	
4.000000	7.000000	98.00000	
4.000000	8.000000	98.00000	
4.000000	9.000000	98.00000	
4.000000	10.00000	98.00000	
4.000000	11.00000	98.00000	
4.000000	12.00000	98.00000	

WRITE(17) STATE MO YR PREDK /BEG=218 END=288

*-----
* LOUISIANA

AUTO BSEQ JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV BLINES BSEQR &
/LIST RS BEG=302 END=362

REQUIRED MEMORY IS PAR= 302 CURRENT PAR= 6666

DEPENDENT VARIABLE = BSEQ
..NOTE..R-SQUARE,ANOVA,RESIDUALS DONE ON ORIGINAL VARS

LEAST SQUARES ESTIMATION 61 OBSERVATIONS
BY COCHRANE-ORCUTT TYPE PROCEDURE WITH CONVERGENCE = 0.00100

ITERATION	RHO	LOG L.F.	SSE
1	0.00000	-454.777	0.10678E+08
2	0.88998	-393.354	0.13890E+07

PROPRIETARY

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COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

0000334

FO1B25Z

3	0.94073	-391.775	0.13062E+07
4	0.94761	-391.659	0.12987E+07
5	0.94971	-391.628	0.12965E+07
6	0.95044	-391.618	0.12958E+07

LOG L.F. = -391.618 AT RHO = 0.95044

	ASYMPTOTIC ESTIMATE	ASYMPTOTIC VARIANCE	ASYMPTOTIC ST.ERROR	ASYMPTOTIC T-RATIO
RHO	0.95044	0.00158	0.03981	23.87631

R-SQUARE = 0.9963 R-SQUARE ADJUSTED = 0.9952
 VARIANCE OF THE ESTIMATE-SIGMA**2 = 27570.
 STANDARD ERROR OF THE ESTIMATE-SIGMA = 166.04
 SUM OF SQUARED ERRORS-SSE= 0.12958E+07
 MEAN OF DEPENDENT VARIABLE = 69013.
 LOG OF THE LIKELIHOOD FUNCTION = -391.618

VARIABLE NAME	ESTIMATED COEFFICIENT	STANDARD ERROR	T-RATIO 47 DF	PARTIAL CORR.	STANDARDIZED COEFFICIENT	ELASTICITY AT MEANS
JAN			-1.1113		-0.1600	
FEB			-0.66934		-0.0972	
MAR			0.29311		0.0427	
APR			1.5064		0.2146	
MAY			1.5870		0.2255	
JUN			1.5716		0.2235	
JUL			2.0380		0.2849	
AUG			3.1492		0.4174	
SEP			3.8118		0.4859	
OCT			3.7122		0.4762	
NOV			3.5726		0.4621	
BLINES			-9.1393		-0.8000	
BSEQR			-1.5284		-0.2176	
CONSTANT			23.735		0.9607	

OBS. NO.	OBSERVED VALUE	PREDICTED VALUE	CALCULATED RESIDUAL
302			718.75
303			-105.37
304			168.72
305			-448.59
306			-54.515
307			49.459
308			-131.42
309			-84.454
310			-78.767
311			-38.458
312			-154.16
313			-96.653
314			-144.49
315			-30.889
316			-94.299
317			119.18
318			-77.016
319			-264.85
320			-22.368
321			32.697
322			105.31
323			117.82

PROPRIETARY

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 COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

0000335

F01B25Z

A	B	C			
324			194.99	I	*
325			11.354	*	
326			263.47	I	*
327			179.05	I	*
328			26.917	I*	
329			250.81	I	*
330			61.662	I*	
331			-27.520	*I	
332			-31.390	*I	
333			2.7065	*	
334			-264.37	*	I
335			-87.817	*	I
336			-69.720	*	I
337			-255.38	*	I
338			-134.21	*	I
339			-109.32	*	I
340			-62.538	*	I
341			-18.249	*I	
342			-96.987	*	I
343			11.512	*	
344			-15.594	*	
345			-269.39	*	I
346			37.648	I*	
347			-180.00	*	I
348			-237.15	*	I
349			-91.858	*	I
350			9.3895	*	
351			-20.453	*I	
352			-130.32	*	I
353			0.55957	*	
354			65.539	I*	
355			124.80	I	*
356			88.612	I	*
357			200.43	I	*
358			76.012	I*	
359			57.823	I*	
360			128.60	I	*
361			287.92	I	*
362			-146.31	*	I

BLUP IS ACTIVE - PREDICTED VALUES ADJUSTED WITH LAGGED RESIDUALS

DURBIN-WATSON = 1.4137 VON NEUMANN RATIO = 1.4373 RHO = 0.14223

RESIDUAL SUM = -683.13 RESIDUAL VARIANCE = 37499.

SUM OF ABSOLUTE ERRORS= 7466.6

R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.9950

RUNS TEST: 20 RUNS, 27 POSITIVE, 34 NEGATIVE, NORMAL STATISTIC = -2.9049

|_FC /BEG=362 END=432 BLUP PREDICT=PREDL MODEL=AUTO ESTEND=362

REQUIRED MEMORY IS PAR= 302 CURRENT PAR= 6666

..ASSUMING ESTIMATION ENDED AT OBSERVATION 362

DEPENDENT VARIABLE = BSEQ 71 OBSERVATIONS

REGRESSION COEFFICIENTS

AUTOCORRELATION RHO

0.9504420296228

USER SPECIFIED RHO= 0.95044

USER SPECIFIED SRHO= 0.00000

..FORECAST STD. ERRORS USE JUDGE(1985, EQ. 8.3.13)

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0000335

F01B25Z

IGNORE FORECASTS AND STD. ERRORS BEFORE OBS. 363

BLUP IS ACTIVE - PREDICTED VALUES ADJUSTED WITH LAGGED RESIDUALS

SUM OF ABSOLUTE ERRORS= 0.42725E+07

R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.0384

RUNS TEST: 2 RUNS, 1 POSITIVE, 70 NEGATIVE, NORMAL STATISTIC = -5.8737

MEAN ERROR = -60174.

SUM-SQUARED ERRORS = 0.26119E+12

MEAN SQUARE ERROR = 0.36787E+10

MEAN ABSOLUTE ERROR= 60176.

ROOT MEAN SQUARE ERROR = 60652.

THEIL INEQUALITY COEFFICIENT U = 7.835

DECOMPOSITION

PROPORTION DUE TO BIAS = 0.98430

PROPORTION DUE TO VARIANCE = 0.73686E-02

PROPORTION DUE TO COVARIANCE = 0.83330E-02

DECOMPOSITION

PROPORTION DUE TO BIAS = 0.98430

PROPORTION DUE TO REGRESSION = 0.25801E-03

PROPORTION DUE TO DISTURBANCE = 0.15444E-01

|_PRINT STATE MO YR PREDL /BEG=362 END=432

22

STATE	MO	YR
5.000000	2.000000	93.00000
5.000000	3.000000	93.00000
5.000000	4.000000	93.00000
5.000000	5.000000	93.00000
5.000000	6.000000	93.00000
5.000000	7.000000	93.00000
5.000000	8.000000	93.00000
5.000000	9.000000	93.00000
5.000000	10.00000	93.00000
5.000000	11.00000	93.00000
5.000000	12.00000	93.00000
5.000000	1.000000	94.00000
5.000000	2.000000	94.00000
5.000000	3.000000	94.00000
5.000000	4.000000	94.00000
5.000000	5.000000	94.00000
5.000000	6.000000	94.00000
5.000000	7.000000	94.00000
5.000000	8.000000	94.00000
5.000000	9.000000	94.00000
5.000000	10.00000	94.00000
5.000000	11.00000	94.00000
5.000000	12.00000	94.00000
5.000000	1.000000	95.00000
5.000000	2.000000	95.00000
5.000000	3.000000	95.00000
5.000000	4.000000	95.00000
5.000000	5.000000	95.00000
5.000000	6.000000	95.00000
5.000000	7.000000	95.00000
5.000000	8.000000	95.00000
5.000000	9.000000	95.00000
5.000000	10.00000	95.00000
5.000000	11.00000	95.00000
5.000000	12.00000	95.00000
5.000000	1.000000	96.00000
5.000000	2.000000	96.00000
5.000000	3.000000	96.00000

PREDL



0000337

ENIR257

00000000

PROPRIETARY

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COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

	A	B	C	D
5.000000	4.000000	96.000000		
5.000000	5.000000	96.000000		
5.000000	6.000000	96.000000		
5.000000	7.000000	96.000000		
5.000000	8.000000	96.000000		
5.000000	9.000000	96.000000		
5.000000	10.000000	96.000000		
5.000000	11.000000	96.000000		
5.000000	12.000000	97.000000		
5.000000	1.000000	97.000000		
5.000000	2.000000	97.000000		
5.000000	3.000000	97.000000		
5.000000	4.000000	97.000000		
5.000000	5.000000	97.000000		
5.000000	6.000000	97.000000		
5.000000	7.000000	97.000000		
5.000000	8.000000	97.000000		
5.000000	9.000000	97.000000		
5.000000	10.000000	97.000000		
5.000000	11.000000	97.000000		
5.000000	12.000000	97.000000		
5.000000	1.000000	98.000000		
5.000000	2.000000	98.000000		
5.000000	3.000000	98.000000		
5.000000	4.000000	98.000000		
5.000000	5.000000	98.000000		
5.000000	6.000000	98.000000		
5.000000	7.000000	98.000000		
5.000000	8.000000	98.000000		
5.000000	9.000000	98.000000		
5.000000	10.000000	98.000000		
5.000000	11.000000	98.000000		
5.000000	12.000000	98.000000		

33

WRITE(18) STATE MO YR PREDL /BEG=362 END=432

* MISSISSIPPI

AUTO BSEQ JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV BLINES BSEGR 2
/LIST RS BEG=446 END=506

REQUIRED MEMORY IS PAR= 302 CURRENT PAR= 6666

DEPENDENT VARIABLE = BSEQ

..NOTE..R-SQUARE,ANOVA,RESIDUALS DONE ON ORIGINAL VARS

LEAST SQUARES ESTIMATION 61 OBSERVATIONS
BY COCHRANE-ORCUTT TYPE PROCEDURE WITH CONVERGENCE = 0.00100

ITERATION	RHO	LOG L.F.	SSE
1	0.00000	-468.608	0.16805E+08
2	0.85815	-400.954	0.17890E+07
3	0.96825	-389.007	0.11810E+07
4	0.99304	-388.066	0.11172E+07
5	0.99508	-388.155	0.11141E+07
6	0.99508	-388.155	0.11141E+07

LOG L.F. = -388.155 AT RHO = 0.99508

ESTIMATE	ASYMPTOTIC VARIANCE	ASYMPTOTIC ST.ERROR	ASYMPTOTIC T-RATIO
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PROPRIETARY

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BELLSOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

0000330

F01B25Z

RHO 0.99508 0.00016 0.01269 78.41700

R-SQUARE = 0.9970 R-SQUARE ADJUSTED = 0.9962
 VARIANCE OF THE ESTIMATE-SIGMA**2 = 23705.
 STANDARD ERROR OF THE ESTIMATE-SIGMA = 153.96
 SUM OF SQUARED ERRORS-SSE= 0.11141E+07
 MEAN OF DEPENDENT VARIABLE = 47093.
 LOG OF THE LIKELIHOOD FUNCTION = -388.155

A VARIABLE NAME	B ESTIMATED COEFFICIENT	C STANDARD ERROR	D T-RATIO 47 DF	E PARTIAL CORR.	F STANDARDIZED COEFFICIENT	G ELASTICITY AT MEANS
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JAN			0.79214E-01	0.0116		
FEB			0.12691	0.0185		
MAR			1.8403	0.2593		
APR			2.8841	0.3878		
MAY			3.3305	0.4370		
JUN			3.6318	0.4681		
JUL			3.6007	0.4650		
AUG			3.5811	0.4630		
SEP			3.8266	0.4874		
OCT			4.1135	0.5145		
NOV			3.4777	0.4524		
BLINES			-4.3174	-0.5329		
BSEGR			-1.1054	-0.1592		
CONSTANT			11.919	0.8668		

OBS. NO.	OBSERVED VALUE	PREDICTED VALUE	CALCULATED RESIDUAL
446		.	836.90
447		.	369.45
448		.	180.73
449		.	113.11
450		.	206.57
451		.	34.194
452		.	-25.194
453		.	24.061
454		.	50.665
455		.	-40.659
456		.	18.117
457		.	-81.526
458		.	99.277
459		.	1.3557
460		.	164.93
461		.	-91.174
462		.	-30.675
463		.	-36.456
464		.	-46.638
465		.	-67.938
466		.	-101.74
467		.	22.551
468		.	116.69
469		.	-205.52
470		.	-87.273
471		.	-96.190
472		.	-223.21
473		.	-195.61
474		.	-130.73
475		.	0.53232
476		.	-150.42

10

24

27

57

0000339

FNIR257

PROPRIETARY

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 BELL SOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
 COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

A	B	C			
477	.	.	-93.014	*	I
478	.	.	-53.956	*	I
479	.	.	-131.15	*	I
480	.	.	-103.51	*	I
481	.	.	-126.37	*	I
482	.	.	-223.73	*	I
483	.	.	-274.94	*	I
484	.	.	-232.70	*	I
485	.	.	-87.364	*	I
486	.	.	-178.81	*	I
487	.	.	-282.00	*	I
488	.	.	-55.088	*	I
489	.	.	46.719	I	*
490	.	.	-44.960	*	I
491	.	.	-83.957	*	I
492	.	.	99.065	I	*
493	.	.	32.461	I	*
494	.	.	-13.513	*	I
495	.	.	-135.07	*	I
496	.	.	-25.812	*	I
497	.	.	124.30	I	*
498	.	.	-3.7641	*	I
499	.	.	145.63	I	*
500	.	.	138.56	I	*
501	.	.	-49.293	*	I
502	.	.	9.8401	*	I
503	.	.	92.368	I	*
504	.	.	-271.90	*	I
505	.	.	238.71	I	*
506	.	.	82.296	I	*

30

BLUP IS ACTIVE - PREDICTED VALUES ADJUSTED WITH LAGGED RESIDUALS

DURBIN-WATSON = 0.7735 VON NEUMANN RATIO = 0.7864 RHO = 0.41920
 RESIDUAL SUM = -832.78 RESIDUAL VARIANCE = 38461.
 SUM OF ABSOLUTE ERRORS = 7330.9
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.9953
 RUNS TEST: 23 RUNS, 25 POSITIVE, 36 NEGATIVE, NORMAL STATISTIC = -2.0052

|_FC /BEG=506 END=576 BLUP PREDICT=PREDM MODEL=AUTO ESTEND=506

REQUIRED MEMORY IS PAR= 302 CURRENT PAR= 6666
 ..ASSUMING ESTIMATION ENDED AT OBSERVATION 506
 DEPENDENT VARIABLE = BSEQ 71 OBSERVATIONS
 REGRESSION COEFFICIENTS

42

AUTOCORRELATION RHO
 0.9950766261687
 USER SPECIFIED RHO= 0.99508
 USER SPECIFIED SRHO= 0.00000
 ..FORECAST STD. ERRORS USE JUDGE(1985, EQ. 8.3.13)
 IGNORE FORECASTS AND STD. ERRORS BEFORE OBS. 507

BLUP IS ACTIVE - PREDICTED VALUES ADJUSTED WITH LAGGED RESIDUALS
 SUM OF ABSOLUTE ERRORS= 0.28394E+07
 R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.0633
 MEAN ERROR = -39992.
 SUM-SQUARED ERRORS = 0.11532E+12
 MEAN SQUARE ERROR = 0.16242E+10
 MEAN ABSOLUTE ERROR= 39992.

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ROOT MEAN SQUARE ERROR = 40302.

THEIL INEQUALITY COEFFICIENT U = 7.805

DECOMPOSITION

PROPORTION DUE TO BIAS = 0.98467

PROPORTION DUE TO VARIANCE = 0.67637E-02

PROPORTION DUE TO COVARIANCE = 0.85641E-02

DECOMPOSITION

PROPORTION DUE TO BIAS = 0.98467

PROPORTION DUE TO REGRESSION = 0.16831E-03

PROPORTION DUE TO DISTURBANCE = 0.15159E-01

(D)

_PRINT STATE MO YR PREDM /BEG=506 END=576

13

STATE	MO	YR	PREDM
6.000000	2.000000	93.00000	
6.000000	3.000000	93.00000	
6.000000	4.000000	93.00000	
6.000000	5.000000	93.00000	
6.000000	6.000000	93.00000	
6.000000	7.000000	93.00000	
6.000000	8.000000	93.00000	
6.000000	9.000000	93.00000	
6.000000	10.00000	93.00000	
6.000000	11.00000	93.00000	
6.000000	12.00000	93.00000	
6.000000	1.000000	94.00000	
6.000000	2.000000	94.00000	
6.000000	3.000000	94.00000	
6.000000	4.000000	94.00000	
6.000000	5.000000	94.00000	
6.000000	6.000000	94.00000	
6.000000	7.000000	94.00000	
6.000000	8.000000	94.00000	
6.000000	9.000000	94.00000	
6.000000	10.00000	94.00000	
6.000000	11.00000	94.00000	
6.000000	12.00000	94.00000	
6.000000	1.000000	95.00000	
6.000000	2.000000	95.00000	
6.000000	3.000000	95.00000	
6.000000	4.000000	95.00000	
6.000000	5.000000	95.00000	
6.000000	6.000000	95.00000	
6.000000	7.000000	95.00000	
6.000000	8.000000	95.00000	
6.000000	9.000000	95.00000	
6.000000	10.00000	95.00000	
6.000000	11.00000	95.00000	
6.000000	12.00000	95.00000	
6.000000	1.000000	96.00000	
6.000000	2.000000	96.00000	
6.000000	3.000000	96.00000	
6.000000	4.000000	96.00000	
6.000000	5.000000	96.00000	
6.000000	6.000000	96.00000	
6.000000	7.000000	96.00000	
6.000000	8.000000	96.00000	
6.000000	9.000000	96.00000	
6.000000	10.00000	96.00000	
6.000000	11.00000	96.00000	
6.000000	12.00000	97.00000	
6.000000	1.000000	97.00000	

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A	B	C	D
6.000000	2.000000	97.00000	
6.000000	3.000000	97.00000	
6.000000	4.000000	97.00000	
6.000000	5.000000	97.00000	
6.000000	6.000000	97.00000	
6.000000	7.000000	97.00000	
6.000000	8.000000	97.00000	
6.000000	9.000000	97.00000	
6.000000	10.00000	97.00000	
6.000000	11.00000	97.00000	
6.000000	12.00000	97.00000	
6.000000	1.000000	98.00000	
6.000000	2.000000	98.00000	
6.000000	3.000000	98.00000	
6.000000	4.000000	98.00000	
6.000000	5.000000	98.00000	
6.000000	6.000000	98.00000	
6.000000	7.000000	98.00000	
6.000000	8.000000	98.00000	
6.000000	9.000000	98.00000	
6.000000	10.00000	98.00000	
6.000000	11.00000	98.00000	
6.000000	12.00000	98.00000	

WRITE(19) STATE MO YR PREDM /BEG=506 END=576

* TENNESSEE

AUTO BSEQ JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV BLINES 2
/LIST RS BEG=614 END=650

REQUIRED MEMORY IS PAR= 298 CURRENT PAR= 6666

DEPENDENT VARIABLE = BSEQ

..NOTE..R-SQUARE,ANOVA,RESIDUALS DONE ON ORIGINAL VARS

LEAST SQUARES ESTIMATION 37 OBSERVATIONS
BY COCHRANE-ORCUTT TYPE PROCEDURE WITH CONVERGENCE = 0.00100

ITERATION	RHO	LOG L.F.	SSE
1	0.00000	-297.975	0.21420E+08
2	0.98294	-243.735	0.10417E+07
3	0.98364	-243.738	0.10407E+07

LOG L.F. = -243.738 AT RHO = 0.98364

	ASYMPTOTIC ESTIMATE	ASYMPTOTIC VARIANCE	ASYMPTOTIC ST.ERROR	ASYMPTOTIC T-RATIO
RHO	0.98364	0.00088	0.02962	33.21181

R-SQUARE = 0.9905 R-SQUARE ADJUSTED = 0.9857
 VARIANCE OF THE ESTIMATE-SIGMA**2 = 43363.
 STANDARD ERROR OF THE ESTIMATE-SIGMA = 208.24
 SUM OF SQUARED ERRORS-SSE= 0.10407E+07
 MEAN OF DEPENDENT VARIABLE = 77522.
 LOG OF THE LIKELIHOOD FUNCTION = -243.738

VARIABLE NAME	ESTIMATED COEFFICIENT	STANDARD ERROR	T-RATIO 24 DF	PARTIAL STANDARDIZED ELASTICITY CORR. COEFFICIENT AT MEANS
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	A	B	C	D	E	F	G
JAN				0.46544E-01	0.0095		
FEB				0.39151	0.0797		
MAR				0.96988	0.1942		
APR				1.6338	0.3164		
MAY				1.9672	0.3726		
JUN				1.9138	0.3639		
JUL				1.8278	0.3496		
AUG				2.2460	0.4168		
SEP				2.8354	0.5009		
OCT				3.2675	0.5549		
NOV				3.2284	0.5503		
BLINES -C				-3.7198	-0.6047		
CONSTANT C.....				12.562	0.9317		

13

16

OBS. NO.	OBSERVED VALUE	PREDICTED VALUE	CALCULATED RESIDUAL		
614	.	.	843.56	I	X
615	.	.	-181.22	*I	
616	.	.	-22.350	*I	
617	.	.	64.441	I*	
618	.	.	-46.507	*I	
619	.	.	-9.9608	*	
620	.	.	101.11	I*	
621	.	.	-102.64	*I	
622	.	.	-299.67	*	
623	.	.	-45.153	*I	
624	.	.	-124.43	*I	
625	.	.	-378.06	*	
626	.	.	-493.08	*	
627	.	.	-123.07	*I	
628	.	.	-198.85	*I	
629	.	.	-295.94	*	
630	.	.	-126.83	*I	
631	.	.	-215.81	*	
632	.	.	-168.14	*I	
633	.	.	-60.098	*I	
634	.	.	-37.849	*I	
635	.	.	-72.635	*I	
636	.	.	-113.77	*I	
637	.	.	42.606	I*	
638	.	.	192.99	I	*
639	.	.	177.14	I	*
640	.	.	91.938	I*	
641	.	.	100.09	I*	
642	.	.	39.747	I*	
643	.	.	89.958	I*	
644	.	.	-71.040	*I	
645	.	.	22.372	I*	
646	.	.	194.81	I	*
647	.	.	-27.293	*I	
648	.	.	90.702	I*	
649	.	.	185.51	I	*
650	.	.	147.65	I	*

52

BLUP IS ACTIVE - PREDICTED VALUES ADJUSTED WITH LAGGED RESIDUALS

DURBIN-WATSON = 1.0078 VON NEUMANN RATIO = 1.0358 RHO = 0.28767

RESIDUAL SUM = -829.76 RESIDUAL VARIANCE = 72051.

SUM OF ABSOLUTE ERRORS = 5599.0

R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.9848

RUNS TEST: 11 RUNS, 15 POSITIVE, 22 NEGATIVE, NORMAL STATISTIC = -2.7135

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FOI B25Z

_FC /BEG=650 END=720 BLUP PREDICT=PREDY MODEL=AUTO ESTEND=650

REQUIRED MEMORY IS PAR= 301 CURRENT PAR= 6666
..ASSUMING ESTIMATION ENDED AT OBSERVATION 650
DEPENDENT VARIABLE = BSEQ 71 OBSERVATIONS
REGRESSION COEFFICIENTS

AUTOCORRELATION RHO
0.9836384220121
USER SPECIFIED RHO= 0.98364
USER SPECIFIED SRHO= 0.00000
..FORECAST STD. ERRORS USE JUDGE(1985, EQ. 8.3.13)
IGNORE FORECASTS AND STD. ERRORS BEFORE OBS. 651

BLUP IS ACTIVE - PREDICTED VALUES ADJUSTED WITH LAGGED RESIDUALS
SUM OF ABSOLUTE ERRORS= 0.49085E+07
R-SQUARE BETWEEN OBSERVED AND PREDICTED = 0.0453
MEAN ERROR = -69134.
SUM-SQUARED ERRORS = 0.34484E+12
MEAN SQUARE ERROR = 0.48568E+10
MEAN ABSOLUTE ERROR= 69134.
ROOT MEAN SQUARE ERROR = 69691.
THEIL INEQUALITY COEFFICIENT U = 7.777

DECOMPOSITION
PROPORTION DUE TO BIAS = 0.98408
PROPORTION DUE TO VARIANCE = 0.66583E-02
PROPORTION DUE TO COVARIANCE = 0.92632E-02

DECOMPOSITION
PROPORTION DUE TO BIAS = 0.98408
PROPORTION DUE TO REGRESSION = 0.35770E-03
PROPORTION DUE TO DISTURBANCE = 0.15564E-01

_PRINT STATE NO YR PREDY /BEG=650 END=720

STATE	NO	YR	PREDY
9.000000	2.000000	93.00000	
9.000000	3.000000	93.00000	
9.000000	4.000000	93.00000	
9.000000	5.000000	93.00000	
9.000000	6.000000	93.00000	
9.000000	7.000000	93.00000	
9.000000	8.000000	93.00000	
9.000000	9.000000	93.00000	
9.000000	10.00000	93.00000	
9.000000	11.00000	93.00000	
9.000000	12.00000	93.00000	
9.000000	1.000000	94.00000	
9.000000	2.000000	94.00000	
9.000000	3.000000	94.00000	
9.000000	4.000000	94.00000	
9.000000	5.000000	94.00000	
9.000000	6.000000	94.00000	
9.000000	7.000000	94.00000	
9.000000	8.000000	94.00000	
9.000000	9.000000	94.00000	
9.000000	10.00000	94.00000	
9.000000	11.00000	94.00000	
9.000000	12.00000	94.00000	
9.000000	1.000000	95.00000	
9.000000	2.000000	95.00000	
9.000000	3.000000	95.00000	

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A	B	C	D
9.000000	4.000000	95.00000	
9.000000	5.000000	95.00000	
9.000000	6.000000	95.00000	
9.000000	7.000000	95.00000	
9.000000	8.000000	95.00000	
9.000000	9.000000	95.00000	
9.000000	10.00000	95.00000	
9.000000	11.00000	95.00000	
9.000000	12.00000	95.00000	
9.000000	1.000000	96.00000	
9.000000	2.000000	96.00000	
9.000000	3.000000	96.00000	
9.000000	4.000000	96.00000	
9.000000	5.000000	96.00000	
9.000000	6.000000	96.00000	
9.000000	7.000000	96.00000	
9.000000	8.000000	96.00000	
9.000000	9.000000	96.00000	
9.000000	10.00000	96.00000	
9.000000	11.00000	96.00000	
9.000000	12.00000	97.00000	
9.000000	1.000000	97.00000	
9.000000	2.000000	97.00000	
9.000000	3.000000	97.00000	
9.000000	4.000000	97.00000	
9.000000	5.000000	97.00000	
9.000000	6.000000	97.00000	
9.000000	7.000000	97.00000	
9.000000	8.000000	97.00000	
9.000000	9.000000	97.00000	
9.000000	10.00000	97.00000	
9.000000	11.00000	97.00000	
9.000000	12.00000	97.00000	
9.000000	1.000000	98.00000	
9.000000	2.000000	98.00000	
9.000000	3.000000	98.00000	
9.000000	4.000000	98.00000	
9.000000	5.000000	98.00000	
9.000000	6.000000	98.00000	
9.000000	7.000000	98.00000	
9.000000	8.000000	98.00000	
9.000000	9.000000	98.00000	
9.000000	10.00000	98.00000	
9.000000	11.00000	98.00000	
9.000000	12.00000	98.00000	

|_WRITE(20) STATE NO YR PREDT /BEG=650 END=720

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Forecast Pro for Windows Version 1.00E
 Mon Apr 19 13:46:26 1993

Expert data exploration of dependent variable FLWMR

Length 74 Minimum 918103 Maximum 2831570
 Mean 1603858 Standard deviation 583253

Classical decomposition (multiplicative)

Trend-cycle: 99.63% Seasonal: 0.02% Irregular: 0.35%

Log transform recommended for Box-Jenkins.

There are no strongly significant regressors, so I will choose a univariate method.

Very low irregularity suggests Box-Jenkins.

Series is trended and nonseasonal.

PROPRIETARY

Recommended model: Box-Jenkins

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Forecast Model for FLWMR
 Automatic model selection
 ARIMA(1,1,2)

^A Term	^B Coefficient	^C Std. Error	t-Statistic	Significance
a[1]			8.5962	1.0000
b[1]			3.0109	0.9964
b[2]			0.9313	0.6451

Try alternative model ARIMA(1,1,1)

Standard Diagnostics

Sample size 73	Number of parameters 3
Mean 1.587e+006	Standard deviation 5.735e+005
R-square 0.9985	Adjusted R-square 0.9985
Durbin-Watson 2.301	Ljung-Box(18)=12.59 P=0.1847
Forecast error 2.22e+004	BIC 2.374e+004 (Best so far)
MAPE 0.004873	RMSE 2.174e+004
MAD 1.056e+004	

Forecasts of FLWMR from base period 1993-02

^A Period	^B Lower 2.5	^C Forecast	^D Upper 97.5
1993-03			
1993-04			
1993-05			
1993-06			
1993-07			
1993-08			

1 1993-09

A

B

C

D

PROPRIETARY

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6
1993-10
1993-11
1993-12
1994-01
1994-02
1994-03
1994-04
1994-05
1994-06
1994-07
1994-08
1994-09
1994-10
1994-11
1994-12
1995-01
1995-02
1995-03
1995-04
1995-05
1995-06
1995-07
1995-08
1995-09
1995-10
1995-11
1995-12
1996-01
1996-02
1996-03
1996-04
1996-05
1996-06
1996-07
1996-08
1996-09
1996-10
1996-11
1996-12
1997-01
1997-02
1997-03
1997-04
1997-05
1997-06
1997-07
1997-08
1997-09
1997-10

1
 A
 1997-11
 1997-12
 1998-01
 1998-02
 1998-03
 1998-04
 1998-05

B

C

D

PROPRIETARY

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1998-06
 1998-07
 1998-08
 1998-09
 1998-10
 1998-11
 1998-12

Expert data exploration of dependent variable GAWMRA

 Length 38 Minimum 647126 Maximum 1134134
 Mean 830731 Standard deviation 141217

Classical decomposition (multiplicative)
 Trend-cycle: 93.50% Seasonal: 1.20% Irregular: 5.30%

Log transform recommended for Box-Jenkins.

There are no strongly significant regressors, so I will choose
 a univariate method.

Box-Jenkins outperforms exponential smoothing by 3178 to 4131
 out-of-sample (MAD). I tried 21 forecasts up to a maximum horizon 6.
 For Box-Jenkins, I used a log transform.

Series is trended and nonseasonal.

Recommended model: Box-Jenkins

Forecast Model for GAWMRA
 Automatic model selection
 ARIMA(0,2,1)

A Term	B Coefficient	C Std. Error	t-Statistic	Significance
b[1]			2.5844	0.9859

Standard Diagnostics

 Sample size 36
 Mean 8.145e+005
 R-square 0.999
 Durbin-Watson 1.97
 Number of parameters 1
 Standard deviation 1.283e+005
 Adjusted R-square 0.999
 Ljung-Box(18)=13.26 P=0.2239

Forecast error 4112
MAPE 0.00332
MAD 2893

BIC 4262 (Best so far)
RMSE 4055

Forecasts of GAWMRA from base period 1993-02

Period	Lower ^B 2.5	Forecast ^C	Upper ^D 97.5
1993-03			
1993-04			
1993-05			
1993-06			
1993-07			
1993-08			

PROPRIETARY

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COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

1993-09
1993-10
1993-11
1993-12
1994-01
1994-02
1994-03
1994-04
1994-05
1994-06
1994-07
1994-08
1994-09
1994-10
1994-11
1994-12
1995-01
1995-02
1995-03
1995-04
1995-05
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1995-07
1995-08
1995-09
1995-10
1995-11
1995-12
1996-01
1996-02
1996-03
1996-04
1996-05
1996-06
1996-07
1996-08
1996-09

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A

B

C

D

1 1996-10
 1996-11
 1996-12
 1997-01
 1997-02
 1997-03
 1997-04
 1997-05
 1997-06
 1997-07
 1997-08
 1997-09
 1997-10
 1997-11
 1997-12
 1998-01
 1998-02
 1998-03
 1998-04

PROPRIETARY

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 COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

1998-05
 1998-06
 1998-07
 1998-08
 1998-09
 1998-10 -
 1998-11 -
 1998-12 -

27

Forecast Model for GAWMRA
 Automatic model selection
 Holt exponential smoothing: Linear trend, No seasonality

Component	Smoothing Weight	Final Value
Level		
Trend		

34
35

Standard Diagnostics

Sample size 38	Number of parameters 2
Mean 8.307e+005	Standard deviation 1.431e+005
R-square 0.9982	Adjusted R-square 0.9982
Durbin-Watson 1.614	Ljung-Box(18)=16.54 P=0.4451
Forecast error 6102	BIC 6535
MAPE 0.004023	RMSE 5939
MAD 3725	

Expert data exploration of dependent variable NCWMRA

Length 50 Minimum 276414 Maximum 598581
Mean 396074 Standard deviation 93436

Classical decomposition (multiplicative)

Trend-cycle: 97.52% Seasonal: 0.14% Irregular: 2.34%

Log transform recommended for Box-Jenkins.

There are no strongly significant regressors, so I will choose a univariate method.

Box-Jenkins outperforms exponential smoothing by 846 to 1445 out-of-sample (MAD). I tried 78 forecasts up to a maximum horizon 12. For Box-Jenkins, I used a log transform.

Series is trended and nonseasonal.

Recommended model: Box-Jenkins

Forecast Model for NCWMRA
Automatic model selection
ARIMA(0,2,1)

Term	Coefficient	Std. Error	t-Statistic	Significance
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17	A	B	C		
	b[1]			7.5636	1.0000

Standard Diagnostics

Sample size 48	Number of parameters 1
Mean 3.879e+005	Standard deviation 8.697e+004
R-square 0.9987	Adjusted R-square 0.9987
Durbin-Watson 1.955	Ljung-Box(18)=9.62 P=0.05639
Forecast error 3151	BIC 3247 (Best so far)
MAPE 0.004567	RMSE 3118
MAD 1851	

Forecasts of NCWMRA from base period 1993-02

Period	Lower 2.5	Forecast	Upper 97.5
1993-03			
1993-04			
1993-05			
1993-06			
1993-07			
1993-08			
1993-09			
1993-10			
1993-11			
1993-12			

A

B

C

D

1994-01
1994-02
1994-03
1994-04
1994-05
1994-06
1994-07
1994-08
1994-09
1994-10
1994-11
1994-12
1995-01
1995-02
1995-03
1995-04
1995-05
1995-06
1995-07
1995-08
1995-09
1995-10
1995-11
1995-12
1996-01
1996-02
1996-03
1996-04
1996-05
1996-06
1996-07

PROPRIETARY

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COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

1996-08
1996-09
1996-10
1996-11
1996-12
1997-01
1997-02
1997-03
1997-04
1997-05
1997-06
1997-07
1997-08
1997-09
1997-10
1997-11
1997-12
1998-01
1998-02

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A

B

C

D

- 1 1998-03
- 1998-04
- 1998-05
- 1998-06
- 1998-07
- 1998-08
- 1998-09
- 1998-10
- 1998-11
- 10 1998-12

Expert data exploration of dependent variable SCWMRA

Length 45 Minimum 327511 Maximum 590631
 Mean 428102 Standard deviation 75507

Classical decomposition (multiplicative)
 Trend-cycle: 96.63% Seasonal: 0.73% Irregular: 2.64%

Log transform recommended for Box-Jenkins.

There are no strongly significant regressors, so I will choose a univariate method.

Box-Jenkins outperforms exponential smoothing by 1851 to 2803 out-of-sample (MAD). I tried 21 forecasts up to a maximum horizon 6. For Box-Jenkins, I used a log transform.

Series is trended and nonseasonal.

Recommended model: Box-Jenkins

Forecast Model for SCWMRA
 Automatic model selection
 ARIMA(0,2,0)

Term	Coefficient	Std. Error	t-Statistic	Significance
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PROPRIETARY

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Standard Diagnostics

Sample size 43	Number of parameters 0
Mean 4.208e+005	Standard deviation 6.996e+004
R-square 0.9996	Adjusted R-square 0.9996
Durbin-Watson 2.381	Ljung-Box(18)=25.27 P=0.8823
Forecast error 1323	BIC 1323 (Best so far)
MAPE 0.002074	RMSE 1323
MAD 917.9	

Forecasts of SCWMRA from base period 1993-02

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A	B	C	D
Period	Lower 2.5	Forecast	Upper 97.5
1993-03			
1993-04			
1993-05			
1993-06			
1993-07			
1993-08			
1993-09			
1993-10			
1993-11			
1993-12			
1994-01			
1994-02			
1994-03			
1994-04			
1994-05			
1994-06			
1994-07			
1994-08			
1994-09			
1994-10			
1994-11			
1994-12			
1995-01			
1995-02			
1995-03			
1995-04			
1995-05			
1995-06			
1995-07			
1995-08			
1995-09			
1995-10			
1995-11			
1995-12			
1996-01			
1996-02			
1996-03			
1996-04			
1996-05			
1996-06			
1996-07			

1996-08
 1996-09
 1996-10
 1996-11
 1996-12
 1997-01
 1997-02

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A
1 1997-03
1997-04
1997-05
1997-06
1997-07
1997-08
1997-09
1997-10
1997-11
1997-12
1998-01
1998-02
1998-03
1998-04
1998-05
1998-06
1998-07
1998-08
1998-09
1998-10
1998-11
22. 1998-12

Expert data exploration of dependent variable FLWMQ

Length 62 Minimum 340132 Maximum 963545
Mean 547193 Standard deviation 161309

Classical decomposition (multiplicative)
Trend-cycle: 97.66% Seasonal: 0.33% Irregular: 2.01%

Log transform recommended for Box-Jenkins.

There are no strongly significant regressors, so I will choose a univariate method.

Exponential smoothing outperforms Box-Jenkins by 6021 to 8363 out-of-sample (MAD). I tried 78 forecasts up to a maximum horizon 12. For Box-Jenkins, I used a log transform.

Series is trended and nonseasonal.

Recommended model: Exponential smoothing
Holt: linear trend, no seasonality

Forecast Model for FLWMQ
Automatic model selection
Holt exponential smoothing: Linear trend, No seasonality

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Smoothing Final

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Component	Weight	Value
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Standard Diagnostics

Sample size 62	Number of parameters 2
Mean 5.472e+005	Standard deviation 1.626e+005
R-square 0.9986	Adjusted R-square 0.9986
Durbin-Watson 1.912	Ljung-Box(18)=11.75 P=0.1402
Forecast error 6063	BIC 6375 (Best so far)
MAPE 0.005994	RMSE 5964
MAD 3314	

Forecasts of FLWMQ from base period 1993-02

Period	Lower ^B 2.5	Forecast ^C	Upper ^D 97.5
1993-03			
1993-04			
1993-05			
1993-06			
1993-07			
1993-08			
1993-09			
1993-10			
1993-11			
1993-12			
1994-01			
1994-02			
1994-03			
1994-04			
1994-05			
1994-06			
1994-07			
1994-08			
1994-09			
1994-10			
1994-11			
1994-12			
1995-01			
1995-02			
1995-03			
1995-04			
1995-05			
1995-06			
1995-07			
1995-08			
1995-09			
1995-10			
1995-11			
1995-12			
1996-01			
1996-02			
1996-03			

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A

B

C

D

1996-04
1996-05
1996-06
1996-07
1996-08
1996-09
1996-10
1996-11
1996-12
1997-01
1997-02
1997-03
1997-04
1997-05
1997-06
1997-07
1997-08
1997-09
1997-10
1997-11
1997-12
1998-01
1998-02
1998-03
1998-04
1998-05
1998-06
1998-07
1998-08
1998-09
1998-10
1998-11
1998-12

33
Expert data exploration of dependent variable GAWMQ

Length 45 Minimum 238070 Maximum 594244
Mean 353607 Standard deviation 97140

Classical decomposition (multiplicative)

Trend-cycle: 95.48% Seasonal: 1.05% Irregular: 3.47%

Log transform recommended for Box-Jenkins.

There are no strongly significant regressors, so I will choose a univariate method.

Box-Jenkins outperforms exponential smoothing by 1482 to 2086 out-of-sample (MAD). I tried 21 forecasts up to a maximum horizon 6. For Box-Jenkins, I used a log transform.

Series is trended and seasonal.

Recommended model: Box-Jenkins

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Forecast Model for GAWMQ

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Automatic model selection
 ARIMA(0,2,0)•(1,0,0)

Term	Coefficient ^A	Std. Error ^B	t-Statistic	Significance
A[12]			11.6909	1.0000

Standard Diagnostics

Sample size 43	Number of parameters 1
Mean 3.43e+005	Standard deviation 8.66e+004
R-square 0.9998	Adjusted R-square 0.9998
Durbin-Watson 2.779	** Ljung-Box(18)=66.13 P=1
Forecast error 1099	BIC 1135 (Best so far)
MAPE 0.002621	RMSE 1086
MAD 822.1	

Forecasts of GAWMQ from base period 1993-02

Period ^A	Lower 2.5 ^B	Forecast ^C	Upper 97.5 ^D
1993-03			
1993-04			
1993-05			
1993-06			
1993-07			
1993-08			
1993-09			
1993-10			
1993-11			
1993-12			
1994-01			
1994-02			
1994-03			
1994-04			
1994-05			
1994-06			
1994-07			
1994-08			
1994-09			
1994-10			
1994-11			
1994-12			
1995-01			
1995-02			
1995-03			
1995-04			
1995-05			
1995-06			
1995-07			

A

B

C

D

1995-08
 1995-09
 1995-10
 1995-11
 1995-12
 1996-01
 1996-02

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1996-03
 1996-04
 1996-05
 1996-06
 1996-07
 1996-08
 1996-09
 1996-10
 1996-11
 1996-12
 1997-01
 1997-02
 1997-03
 1997-04
 1997-05
 1997-06
 1997-07
 1997-08
 1997-09
 1997-10
 1997-11
 1997-12
 1998-01
 1998-02
 1998-03
 1998-04
 1998-05
 1998-06
 1998-07
 1998-08
 1998-09
 1998-10
 1998-11
 1998-12

Expert data exploration of dependent variable SCWMQ

 Length 45 Minimum 194217 Maximum 368229
 Mean 256896 Standard deviation 48856

Classical decomposition (multiplicative)
 Trend-cycle: 96.05% Seasonal: 0.93% Irregular: 3.02%

Log transform recommended for Box-Jenkins.

There are no strongly significant regressors, so I will choose a univariate method.

Box-Jenkins outperforms exponential smoothing by 1129 to 1682 out-of-sample (MAD). I tried 21 forecasts up to a maximum horizon 6. For Box-Jenkins, I used a log transform.

Series is trended and nonseasonal.

Recommended model: Box-Jenkins

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Forecast Model for SCWMQ
Automatic model selection
ARIMA(0,2,1)*(1,0,0)

Term	Coefficient	Std. Error	t-Statistic	Significance
b[1]			4.3094	0.9999
A[12]			9.6304	1.0000

Standard Diagnostics

Sample size 43	Number of parameters 2
Mean 2.519e+005	Standard deviation 4.463e+004
R-square 0.9996	Adjusted R-square 0.9996
Durbin-Watson 2.347	Ljung-Box(18)=21.8 P=0.759
Forecast error 888.6	BIC 947 (Best so far)
MAPE 0.002372	RMSE 867.7
MAD=608	

Forecasts of SCWMQ from base period 1993-02

Period	Lower 2.5	Forecast	Upper 97.5
1993-03			
1993-04			
1993-05			
1993-06			
1993-07			
1993-08			
1993-09			
1993-10			
1993-11			
1993-12			
1994-01			
1994-02			
1994-03			
1994-04			
1994-05			

A

B

C

D

1994-06
1994-07
1994-08
1994-09
1994-10
1994-11
1994-12
1995-01
1995-02
1995-03
1995-04
1995-05
1995-06
1995-07
1995-08
1995-09
1995-10
1995-11
1995-12

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1996-01
1996-02
1996-03
1996-04
1996-05
1996-06
1996-07
1996-08
1996-09
1996-10
1996-11
1996-12
1997-01
1997-02
1997-03
1997-04
1997-05
1997-06
1997-07
1997-08
1997-09
1997-10
1997-11
1997-12
1998-01
1998-02
1998-03
1998-04
1998-05
1998-06
1998-07

MUTUAL SUBSCRIPTION

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JOB/PGM RQ80B42/RQ80B422
 SITE CHA-DPC-HOST
 JES 7126 02/08/91
 RUN DATE/TIME 04/05/93 07:04:58

FI

INSIDE WIRE MAINTENANCE STATISTICS

A	B	C	D	E TOTALS		F	G	H
PLAN	SC	ACCOUNTS	WHR QTY	WHQ QTY	SEQIX QTY	LINE QTY	\$ AMOUNT	
IW (WHR)	J	1	1				1.50	6
IW (WHR)	1							8
IW (WHR)	2							
TIP (WHQ)	1							
TIP (WHQ)	2							
IW & TIP (WHR & WHQ)	1							
IW & TIP (WHR & WHQ)	2		1	1		1		
MAINTENANCE PLAN (SEQIX)	D					1	1	
MAINTENANCE PLAN (SEQIX)	1							
MAINTENANCE PLAN (SEQIX)	2							
MIXTURE OF ALL PLANS	1							
MIXTURE OF ALL PLANS	2							
GRAND TOTAL.....								19

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JOB/PGM R080B42/RQ80B422
 SITE COLUMBIA-DPC
 JES 7127 02/08/91
 RUN DATE/TIME 04/05/93 06:52:55

INSIDE WIRE MAINTENANCE STATISTICS

A	B	C	D	E		F	G	H
PLAN	SC	# ACCOUNTS	WMR QTY	WHQ QTY	SEQ1X QTY	LINE QTY	\$ AMOUNT	
IW (WHR)	J	1	1.7			1	0.00	8
IW (WHR)		1						
IW (WHR)		2						
IW (WHR)		3						
TIP (WHQ)		1						
TIP (WHQ)		2						
IW & TIP (WHR & WHQ)	M							
IW & TIP (WHR & WHQ)		1						
IW & TIP (WHR & WHQ)		2						
MAINTENANCE PLAN (SEQ1X)		1						
MAINTENANCE PLAN (SEQ1X)		2						
MIXTURE OF ALL PLANS		1						
MIXTURE OF ALL PLANS		2						
GRAND TOTAL.....								20

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JOB/PGM RQ80842/RQ808422
 SITE MIA-DPC-HOST
 JES 5844 02/08/91
 RUN DATE/TIME 04/05/93 06:56:22

FORM HP-2338
 PAGE 1

INSIDE WIRE MAINTENANCE STATISTICS

PLAN	SC	# ACCOUNTS	WHR QTY	WHQ QTY	SEQIX QTY	LINE QTY	\$ AMOUNT
IM (WHR)	1						
IM (WHR)	2						
IM (WHR)	3						
TIP (WHQ)	1						
TIP (WHQ)	2						
IM & TIP (WHR & WHQ)	1						
IM & TIP (WHR & WHQ)	2						
MAINTENANCE PLAN (SEQIX)	1						
MAINTENANCE PLAN (SEQIX)	2						
MIXTURE OF ALL PLANS	1						
MIXTURE OF ALL PLANS	2						
GRAND TOTAL.....							

18

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JOB/PGM RQ80B42/RQ80B422
 SITE FT. LAUDL-DPC
 JES 5048 02/08/91
 RUN DATE/TIME 04/05/93 07:05:06

INSIDE WIRE MAINTENANCE STATISTICS

	A	B	C	D	E	F	G	H
	SC	# ACCOUNTS	WHR QTY	WHQ QTY	SEQIX QTY	LINE QTY	\$ AMOUNT	
PLAN								
IW (WHR)	1							7
IW (WHR)	2							
TIP (WHQ)	1							
TIP (WHQ)	2							
TIP (WHQ)	3							
IW & TIP (WHR & WHQ)	1							
IW & TIP (WHR & WHQ)	2							
MAINTENANCE PLAN (SEQIX)	1							
MAINTENANCE PLAN (SEQIX)	2							
MIXTURE OF ALL PLANS	1							
MIXTURE OF ALL PLANS	2							
GRAND TOTAL.....								18

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INSIDE WIRE MAINTENANCE STATISTICS

	A	B	C	D	E	F	G	H
		SC	# ACCOUNTS	WNR QTY	WHQ QTY	SEQIX QTY	LINE QTY	\$ AMOUNT
PLAN								
IW (WNR)		1						
IW (WNR)		2						
TIP (WHQ)		1						
TIP (WHQ)		2						
IW & TIP (WNR & WHQ)		1						
IW & TIP (WNR & WHQ)		2						
MAINTENANCE PLAN (SEQIX)		1						
MAINTENANCE PLAN (SEQIX)		2						
MIXTURE OF ALL PLANS		1						
MIXTURE OF ALL PLANS		2						
GRAND TOTAL.....								7

13

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 0000957

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 SITE CHA-DPC-HOST
 JES 3198 02/08/91
 RUN DATE/TIME 02/25/92 18:24:15

INSIDE WIRE MAINTENANCE STATISTICS

PLAN	SC	TOTALS					AMOUNT
		ACCOUNTS	WHR QTY	WMQ QTY	SEQIX QTY	LINE QTY	
IM (WHR)	1						
IM (WHR)	2						
TIP (WMQ)	1						
TIP (WMQ)	2						
IM & TIP (WHR & WMQ)	1						
IM & TIP (WHR & WMQ)	2						
MAINTENANCE PLAN (SEQIX)	D						
MAINTENANCE PLAN (SEQIX)	1						
MAINTENANCE PLAN (SEQIX)	2						
MIXTURE OF ALL PLANS	1						
MIXTURE OF ALL PLANS	2						
GRAND TOTAL.....							16

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 282801

JOB/PGH RQ80B42/RQ80B422
 SITE MACON -DPC
 JES 9520 02/08/91
 RUM DATE/TIME 02/28/92 15:32:14

FORM HP-2338
 PAGE 1

INSIDE WIRE MAINTENANCE STATISTICS

PLAN	SC	C # ACCOUNTS	D WHR QTY	E WHQ QTY	TOTALS		F LINE QTY	G AMOUNT
					F SEQIX QTY	F AMOUNT		
IW (WHR)	D							
IW (WHR)	J							
IW (WHR)	1							
IW (WHR)	2							
IW (WHR)	3							
TIP (WHQ)	1							
TIP (WHQ)	2							
TIP (WHQ)	3							
IW & TIP (WHR & WHQ)	1							
IW & TIP (WHR & WHQ)	2							
IW & TIP (WHR & WHQ)	3							
MAINTENANCE PLAN (SEQIX)	1							
MAINTENANCE PLAN (SEQIX)	2							
MIXTURE OF ALL PLANS	1							
MIXTURE OF ALL PLANS	2							
GRAND TOTAL.....								

0757
 0758

22

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JOB/PCN RQ68B42/RQ08B422
 SITE ATL-DPC-HOST
 JES 9519 02/08/91
 RUN DATE/TIME 02/20/92 15:38:10

INSIDE WIRE MAINTENANCE STATISTICS

FORM HP-2338
 PAGE 1

PLAN	SC	TOTALS					
		ACCOUNTS	WIR QTY	WHQ QTY	SEQIX QTY	LINE QTY	AMOUNT
IN (WHR)	D						
IN (WHR)	J						
IN (WHR)	1						
IN (WHR)	2						
IN (WHR)	3						
TIP (WHQ)	1						
TIP (WHQ)	2						
TIP (WHQ)	3						
IN & TIP (WHR & WHQ)	1						
IN & TIP (WHR & WHQ)	2						
IN & TIP (WHR & WHQ)	3						
MAINTENANCE PLAN (SEQIX)	1						
MAINTENANCE PLAN (SEQIX)	2						
MIXTURE OF ALL PLANS	1						
MIXTURE OF ALL PLANS	2						
GRAND TOTAL.....							22

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JOB/PGM RQ80B42/RQ80B422
 SITE COLUMBIA-DPC
 JES 9134 02/08/91
 RUN DATE/TIME 02/20/92 15:32:51

FORM HP-2338
 PAGE 1

INSIDE WIRE MAINTENANCE STATISTICS

A	B	C	D	E	F	G	H
PLAN	SC	# ACCOUNTS	WHR QTY	WHQ QTY	SEQIX QTY	LINE QTY	# AMOUNT
IW (WHR)	J						
IW (WHR)	1						
IW (WHR)	2						
IW (WHR)	3						
TIP (WHQ)	1						
TIP (WHQ)	2						
IW & TIP (WHR & WHQ)	1						
IW & TIP (WHR & WHQ)	2						
MAINTENANCE PLAN (SEQIX)	H						
MAINTENANCE PLAN (SEQIX)	1						
MAINTENANCE PLAN (SEQIX)	2						
MIXTURE OF ALL PLANS	1						
MIXTURE OF ALL PLANS	2						
GRAND TOTAL.....							

20

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FOI B25Z 0008371

JOB/PGM RQ80B42/RQ80B422
 SITE JAX -DPC
 JES 366 02/08/91
 RUN DATE/TIME 02/21/92 12:58:44

FORM MP-2338
 PAGE 1

INSIDE WIRE MAINTENANCE STATISTICS

A	B	C	D	E	F	G	H
PLAN	SC	# ACCOUNTS	WHR QTY	WHQ QTY	TOTALS SEQIX QTY	LINE QTY	\$ AMOUNT
IW (WHR)	1						
IW (WHR)	2						
TIP (WHQ)	1						
TIP (WHQ)	2						
IW & TIP (WHR & WHQ)	1						
IW & TIP (WHR & WHQ)	2						
MAINTENANCE PLAN (SEQIX)	1						
MAINTENANCE PLAN (SEQIX)	2						
MAINTENANCE PLAN (SEQIX)	3						
MIXTURE OF ALL PLANS	1						
MIXTURE OF ALL PLANS	2						
GRAND TOTAL.....							

7

18

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F01B25Z 0000372

JOB/PGM RQ80B42/RQ80B422
 SITE HIA-DPC-HOST
 JES 7234 02/08/91
 RUN DATE/TIME 02/21/92 12:19:18

FORM HP-2338
 PAGE 1

INSIDE WIRE MAINTENANCE STATISTICS

A	B	C	D	E	F	G	H
PLAN	SC	# ACCOUNTS	WHR QTY	WMQ QTY	SEQIX QTY	LINE QTY	\$ AMOUNT
IW (WHR)	1						
IW (WHR)	2						
IW (WHR)	3						
TIP (WMQ)	1						
TIP (WMQ)	2						
TIP (WMQ)	3						
IW & TIP (WHR & WMQ)	1						
IW & TIP (WHR & WMQ)	2						
IW & TIP (WHR & WMQ)	3						
MAINTENANCE PLAN (SEQIX)	1						
MAINTENANCE PLAN (SEQIX)	2						
MIXTURE OF ALL PLANS	1						
MIXTURE OF ALL PLANS	2						
GRAND TOTAL.....							

20

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F01B25Z 00008373

JOB/PGM RQ80B42/RQ80B422
 SITE FT.LAUDL-DPC
 JES 7235 02/08/91
 RUN DATE/TIME 02/21/92 12:48:31

FORM MP-2338
 PAGE 1

INSIDE WIRE MAINTENANCE STATISTICS

A	B	C	D	E	F	G	H
PLAN	SC	# ACCOUNTS	WHR QTY	WMQ QTY	SEQIX QTY	LINE QTY	\$ AMOUNT
IW (WHR)	1						
IW (WHR)	2						
TIP (WMQ)	J						
TIP (WHQ)	1						
TIP (WMQ)	2						
TIP (WHQ)	3						
IW & TIP (WHR & WMQ)	1						
IW & TIP (WHR & WHQ)	2						
MAINTENANCE PLAN (SEQIX)	1						
MAINTENANCE PLAN (SEQIX)	2						
MAINTENANCE PLAN (SEQIX)	3						
MIXTURE OF ALL PLANS	1						
MIXTURE OF ALL PLANS	2						
GRAND TOTAL.....							7

20

PROPRIETARY

NOT FOR USE OR DISCLOSURE OUTSIDE OF
 BELLSOUTH TELECOMMUNICATIONS OR ITS AFFILIATED
 COMPANIES EXCEPT UNDER WRITTEN AGREEMENT

NOTICE: NOT FOR USE OR DISCLOSURE OUTSIDE BELLSOUTH EXCEPT UNDER WRITTEN AGREEMENT

FN1R257

NNNN376

ALABAMA-

1-1-89 INCREASED SEQ1X FROM .60 TO .95 (RESIDENCE)
1-1-90 INCREASED SEQ1X FROM .95 TO 1.50 (RESIDENCE)
INCREASED SEQ1X FROM 1.20 TO 1.50 (BUSINESS)
INCREASED WMR FROM 1.00 TO 1.50 (BOTH)

GEORGIA

10-1-89 INCREASED WMR FROM .50 TO 1.00 (BOTH)

KENTUCKY

1-20-88 INCREASED SEQ1X FROM .30 TO .60 (BOTH)
7-1-88 INCREASED SEQ1X FROM .60 TO 1.25 (BOTH)
11-1-89 INCREASED SEQ1X FROM 1.25 TO 2.00 (BOTH)

LOUISIANA

8-14-89 INCREASED SEQ1X FROM .80 TO 1.25 (RESIDENCE)
INCREASED SEQ1X FROM 1.60 TO 1.75 (BUSINESS)
7-1-91 INCREASED SEQ1X FROM 1.25 TO 2.00 (RESIDENCE)
INCREASED SEQ1X FROM 1.75 TO 2.00 (BUSINESS)

MISSISSIPPI

4-1-89 INCREASED SEQ1X FROM .60 TO 1.25 (BOTH)
1-1-91 INCREASED SEQ1X FROM 1.25 TO 2.00 (BOTH)

NORTH CAROLINA-

11-1-89 INCREASED WMR FROM - TO 1.05 (BOTH)
2-1-91 INCREASED SEQ1X FROM 2.00 TO 2.50 (BOTH)
INCREASED WMR FROM 1.05 TO 1.50 (BOTH)

SOUTH CAROLINA-

4-1-89 INCREASED WMR FROM .50 TO 1.00 (BOTH)

TENNESSEE

1-1-89 INCREASED SEQ1X FROM .60 TO 1.00 (BOTH)
1-1-90 INCREASED SEQ1X FROM 1.00 TO 1.25 (BOTH)

Flora

1-1-89 → 1.00
1-1-90 → 1.50
1-1-91 → 2.00

From Ben Jordan

ALL LONG Rates are now out \$1.00

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