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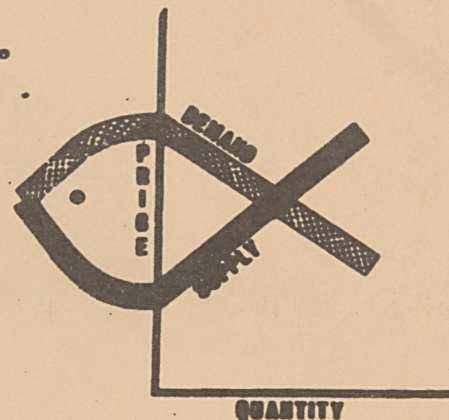
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The Demand for Non Urban

Outdoor Recreation in Texas:

1968-2000

Volume I

by

Robert R. Wilson

June 1, 1972

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U.S. NATIONAL MARINE FISHERIES SERVICE
ECONOMIC RESEARCH DIVISION



THE DEMAND FOR NON URBAN
OUTDOOR RECREATION IN TEXAS:
1968-2000

VOLUME I

ECONOMETRIC MODEL FOR NON URBAN TRIPS
AND PARTICIPATION IN TEXAS: A REPORT
ON PARAMETER ESTIMATION WITH POLICY SIMULATIONS

by

Robert R. Wilson
Texas Agricultural Experiment Station
Texas A&M University

Submitted in Partial Fulfillment
of
Interagency Cooperation Contract IAC(70-71)-388
to the
Texas Parks and Wildlife Department

June 1, 1972

This is exploratory work. The development of an econometric forecasting system for recreational demands that is logically consistent with behavioral theory has never before been accomplished. The magnitudes of each model are perhaps larger and the degrees of sophistication greater than was originally understood by personnel both at Texas A&M University and Texas Parks and Wildlife Department. Few tasks of such magnitude have ever been attempted in the field of econometrics. The Texas A&M University staff agreed to undertake the implementation of a gravity model to be used as a substitute if the econometric model could not be estimated.

Completion of the work was affected by extensive editing of the data resulting from the sheer magnitude of the data base and the persistence of errors in the data. The requirement for analysis based on 37 regions, as opposed to the three in the original survey design, further affected the work.

It is important to keep modelling results in perspective when endeavoring to utilize them as an aid to policy decision-making. Models are tools which can be employed to make vast amounts of information for policy decision-making more readily available and applicable to decisions. Decisions cannot be made by models operating on computers. They must be made by planning personnel who can, at their option, use modelling results as a guide.

A word of caution is appropriate for the interpretation of the modelling results. First, since the econometric model incorporates much more information than the gravity model, its results are similarly more highly subject to biases from errors in the original and projected data. Second, with respect to long term projections, the hazards associated with reliance upon forecasts based on data projected beyond the range of the original data can be extreme with both models. Thus, both the models and their forecasts should be updated at frequent intervals using new survey data.

FOREWORD

Texas Parks and Wildlife Department has responsibility for development of the Texas Outdoor Recreation Plan. Texas A&M University has a continuing comprehensive research program on outdoor recreation in both the Department of Agricultural Economics and the Department of Recreation and Parks.

Because of mutual interest in data generated during preparation of the outdoor recreation plan, there has been a working relationship between Texas A&M University and Texas Parks and Wildlife Department for several years. This cooperative effort has been carried out under a series of short-term agreements. Responsibilities have been allocated by Texas Parks and Wildlife Department to Texas A&M University and to University of Texas consultants, private consultants and a private research firm. However, overall research management was retained by Texas Parks and Wildlife Department staff.

All data were collected and supplied by Texas Parks and Wildlife Department. Under the final contract, Interagency Contract (70-71)-388, Texas A&M University agreed to provide an econometric model to be used in preparation of a statewide comprehensive outdoor recreation plan. The limit on funding to Texas A&M University under the contract was established by Texas Parks and Wildlife Department. The limit on time was the fiscal year ending August 31, 1971. It was recognized by both parties (including the Texas Parks and Wildlife Department consultants) that neither limit was an adequate reflection of the magnitude of the task under the prescribed operating conditions.

THE DEMAND FOR NON URBAN
OUTDOOR RECREATION IN TEXAS:

1968-2000

VOLUME I

ECONOMETRIC MODEL FOR NON URBAN OUTDOOR
RECREATION TRIPS AND PARTICIPATION IN TEXAS:

A REPORT ON PARAMETER ESTIMATION WITH POLICY SIMULATIONS

AND

VOLUME II

GRAVITY MODEL ESTIMATION FOR
TEXAS OUTDOOR RECREATION

by

Texas Agricultural Experiment Station

Texas A&M University

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CONTENTS

I. Introduction	1
II. Economic Theory and Recreation	1
III. The Data Base and Its Relation to Modelling	7
IV. The Econometric Model	11
IV. A. Endogenous Variables	15
IV. B. Exogenous Variables	26
IV. C. The Structural Equation System	33
IV. D. The Reduced Form Equation System	58
IV. D. 1. The System	58
IV. D. 2. The Calibration Procedure	60
V. The Policy Simulations	85
VI. Use of the Model in Planning	158

The human race, to which so many of my readers belong, has been playing at children's games from the beginning...And one of the games to which it is most attached is called, "Keep to-morrow dark," and which is also named (by the rustics in Shropshire, I have no doubt) "Cheat the Prophet." The players listen very carefully and respectfully to all that the clever men have to say about what is to happen in the next generation. The players then wait until all the clever men are dead, and bury them nicely. They then go and do something else. That is all. For a race of simple tastes, however, it is great fun.

G. K. CHESTERTON,
The Napoleon of Notting Hill

ECONOMETRIC MODEL FOR NON URBAN
OUTDOOR RECREATION TRIPS AND PARTICIPATION IN TEXAS:
A REPORT ON PARAMETER ESTIMATION WITH POLICY SIMULATIONS

by

Robert R. Wilson

I. Introduction

The development of an econometric model that can be useful in the planning of public recreational facilities must incorporate a great many things. Among these must be a consideration of (1) the basis in economic theory, (2) the quantity and quality of data available, (3) the statistical methods applicable for parameter estimation and (4) the ultimate planning uses for the model. A model was conceived, estimated, and made operational which seems to be consistent with the above considerations and limitations. This report contains a discussion of the manner in which the model relates to each of these categories. This report does not contain a complete discussion of assumptions and adjustments related to the model. It would not be possible to write all of these down. However, additional information on assumptions and adjustments are contained in appendices to this report. Furthermore, any refinements on further adjustments in the reduced form model and/or policy simulations will be treated as supplements to this report.

II. Economic Theory and Recreation

Most discussions of economic theory related to outdoor recreation center on the market aspects external to the consumer. Generally, economists have been concerned with obtaining the traditional market demand and supply relationships for recreation such as might be applicable to a completely exchangeable commodity such as, for example, potatoes. In economic studies of recreation, great pains have been taken to find some variable that would behave similarly to a market price in order to be able to apply conventional forms of economic theory.

In the case of recreation, a majority of the transactions seems to be internal to the consumer, rather than between the consumer and some other individual. That is, there are a great many commodities that are simultaneously created and consumed through the use of the consumer's time and talent, and his use of other commodities. Recreation would seem to be such a commodity. It would also seem that the interpersonal pure exchange models of conventional economic theory would not strictly apply to recreation. An effort was made to develop a consumer behavior theory that would incorporate both interpersonal and intrapersonal transactions. Essential to this theory is the recognition that participatory activities are conceptually a different class of commodities than the ones usually considered in economic theory. A participatory activity is not just a good, but is a combination of goods and time for consumption as a unit. A mathematical statement of this theory is as follows.^{1/}

$$\text{Maximize } U = U(x_1, \dots, x_n)$$

$$\text{Subject to } F(z_1, \dots, z_n, y_1, \dots, y_m, v_1, \dots, v_n, s_1, \dots, s_r, Y_1 \dots Y_m) = 0$$

$$x_i = w_i + z_i, \quad i = 1, \dots, n$$

$$\sum_{i=1}^n q_i w_i + \sum_{i=1}^m p_i y_i = I$$

$$\sum_{i=1}^n t_i w_i + \sum_{i=1}^n v_i = \tau$$

^{1/}This presentation follows closely that in "Demand Theory: Time Allocation and Outdoor Recreation." R. R. Wilson, Southern Journal of Agricultural Economics, Dec. 1971.

where x_1, \dots, x_n are work and consumption activities with w_1, \dots, w_n purchased and z_1, \dots, z_n produced; y_1, \dots, y_m are goods; q_1, \dots, q_n and p_1, \dots, p_m are exogenous prices of purchased activities and input goods respectively; s_1, \dots, s_r and Y_1, \dots, Y_m are exogenous production parameters; t_1, \dots, t_n are exogenous time coefficients for purchased activities; v_1, \dots, v_n are variable non-negative endogenous time inputs for the produced activities; I is a residual wealth parameter; and τ is the length of planning period.

Under appropriate conditions, the equations representing the first-order Lagrange conditions for this problem may be solved for each of the variables, z_1, \dots, z_n , w_1, \dots, w_n , y_1, \dots, y_m , v_1, \dots, v_n , to obtain locally differentiable generalized demand and supply functions dependent on the parameters, s_1, \dots, s_r , Y_1, \dots, Y_m , q_1, \dots, q_n , p_1, \dots, p_m , I , t_1, \dots, t_n and τ . The $3n+m$ generalized demand and supply functions are all homogeneous of degree zero in the money parameters q_1, \dots, q_n , p_1, \dots, p_m , and I . However, all of them cannot be homogeneous of degree zero in the time parameters.

Certain points should be noted about the functions obtained from the first-order Lagrange conditions. The produced activities do not possess market prices, but their generalized demand functions are well defined and depend on the other prices and parameters. Furthermore, the prices in the system are all attached to either inputs or purchased activities. Time, as a variable factor input in the production of an activity, behaves as a good in that a generalized derived demand function for its use in each activity is deduced. However, the different time demands do not have associated market prices.

The production parameters, s_1, \dots, s_r , have an interesting interpretation in the case of outdoor recreation. Amongst these parameters are included

such items as the minimum distance that must be traveled if a particular recreation site is to be visited (an activity). The actual travel distance is an activity jointly demanded with the site visit. Also included as parameters would be the minimum required values of travel time, total travel expenditure, total time expenditure, total expenditure, outfitting expenditure, etc. Such production parameters are obviously exogenous, but the actual levels chosen in the allocation process for these items are either endogenous activities or activity total costs, as the case may be. Neither the production parameters nor the values of related activities nor their total costs in money or time would appear to be surrogates for prices for produced activities on theoretical grounds. The prices are simply supposed to be in the model also.

Another set of parameters arising from the production relationships, Y_1, \dots, Y_m , have found their place in recreation demand analysis. An attempt will be made to rationalize such procedures and demonstrate their consistency with time allocation demand theory. In a period sufficiently short to have relevance in a consumer's time allocation process, it would seem reasonable to regard the existing stocks of recreational facilities, environmental attributes (crowding, quality, etc.) and the degree and diversity of recreational development as parameters. These facility input supply parameters would then represent constraint parameters for the aggregated production of recreation by all consumers recreating in a given geographic region. As the consumer performs his utility calculus, these parameters could enter his computations as parameters in his recreation production function that reflect his knowledge of aggregate behavior. That is, they might be viewed as micro-surrogates for macro-constraints on aggregate recreation production, thus

they logically would appear as parameters in the generalized demand functions.

It should be mentioned that with produced activities such as recreation, the activity quantities may be measured in amounts of time spent. In such circumstances, the fixed time parameters will be equal to 1 and the variable time for such an activity will be identical to the quantity of activity. For activities measured in time units, demand functions for associated time inputs will be redundant.

For example, suppose that the typical consumer has available to him three activities; working x_1 , dining x_2 , and recreation x_3 . He may obtain recreation in either of two ways; by the purchase of a fixed recreation package w_3 , or by production of recreation, utilizing variable amounts of a services recreation facility y and time v . The production parameter d might represent distance to the facility, while Y might represent the size of the facility and e a positive constant. The consumer's choice problem is characterized as follows:

$$\begin{aligned} \text{Maximize} \quad & U = U(x_1, x_2, x_3) \\ \text{Subject to} \quad & x_3 = w_3 + z_3 \\ & z_3 = av^2 + by^2 - cvy - d + eY \\ & x_1p_1 + x_2p_2 + w_3p_3 + yp_y = 0 \\ & x_1t_1 + x_2t_2 + w_3t_3 + v = \tau \end{aligned}$$

where it is assumed that $p_y = 0$.

The Lagrangean function

$$\begin{aligned} L = & U(x_1, x_2, w_3 + z_3) + \lambda(av^2 + by^2 - cvy - d - z_3 + eY) \\ & + \gamma(p_1x_1 + p_2x_2 + p_3w_3 + p_yy) \\ & + \delta(t_1x_1 + t_2x_2 + t_3z_3 + v - \tau) \end{aligned}$$

yields first order conditions for a relative constrained maximum of U which, under certain conditions, may be solved for $x_1, x_2, w_3, z_3, y, v, \lambda, \gamma, \delta$, in terms of the parameters, $a, b, c, d, e, Y, p_1, p_2, p_3, p_y, t_1, t_2, t_3$ and τ . The solutions (generalized demand or supply functions) may be expressed as:

$$v_i = h^i(a, b, c, d, e, Y, p_1, p_2, p_3, p_y, t_1, t_2, t_3, \tau), \text{ for } i = 1, \dots, 9.$$

The demand (supply) functions h^i are each differentiable, unique and homogeneous of degree zero in the prices, p_1, p_2, p_3 , and p_y , provided that U is strictly quasi-concave. They are not homogeneous in a, b, c, d, e and Y nor t_1, t_2, t_3 and τ .

The demand function for x_3 is $h^3 + h^4$. Its rate of change cannot be deduced for compensated changes in p_3 or p_y .

The sign and magnitude of certain of the compensated and uncompensated rates of change in demand can be deduced.

It should be noted that public and private policy makers could control Y , the quantity (stock) of a facility on hand and manipulate it at their will. Similarly, p_y could be manipulated.

Moving back from the example to the general theory discussed previously, another aspect should be considered before moving into empirical considerations. It would seem that more than one of the recreation participatory activities might be desired at nearly the same time or in approximately the same environment. This would suggest the possibility of defining a trip as a participatory activity closely related to more specific and closely linked recreational activities such as fishing, boating, or camping in the consumer's decision making.

The decision linkages should be explicit in the first order conditions for the consumer's optimization of utility. However, for participatory activities a lack of observable interpersonal prices would likely allow these linkages to become attached in complex and possibly indistinguishable ways to nonprice parameters in the solved demand relationships. Because the recreation activities are commodities of this type it seems likely that the decision structure may be more completely captured by the examination of either first order conditions or partially reduced equations intermediately between the first order conditions and the ultimate demand relationships. The empirical modelling of consumer decision processes in recreation incorporated this aspect.

III. The Data Base And Its Relation to Modelling

Perhaps the largest quantity of high quality data in history was assembled for the Texas recreation planning effort. The data covered so wide a scope that only a tiny fraction of it could possibly be incorporated into an empirical model of behavior. Furthermore the nature of many responses indicates that it is possible that the tedium imposed by the questionnaire on the person surveyed may have seriously biased responses in some

cases.

For this reason it was suggested by the outside consultants, Dr. Johnson and Dr. Ellis that a sophisticated econometric model should be applied only to the data for trips of more than one day in length. The survey data indicated what appeared to be serious understatement of one day trips in relation to longer trips, suggesting a tendency not to mention short trips on the part of the persons surveyed.

Other problems are in evidence as well. There were 15,100 households in the original sample, stratified according to population density and with inferences to be made for three regions of the state. The needs of the state planners had changed between the sample design stage and the model development stage so that forecasts and other inferences were now required for a minimum of some thirty-seven regions.

Data from a sample of 15,000 households may be incredibly thin for many purposes. From the sample, the proportion of households that took at least one overnight or longer recreation trip ranged from 0.07 to 0.39 over the 37 regions finally decided upon. Similarly, the proportion of households sampled that took at least one vacation ranged from a low of 0.046 to a high of 0.50 over different regions. The proportion of sampled households that participated in recreational boating on an overnight trip ranged from a low of 0.0 in two regions to a high of only 0.076. The proportion of sampled households that participated in boating on a vacation ranged from a low of 0.0 to a high of 0.109. It should be recognized that the trip figures represent a six-month period while the vacation figures represent twelve months. To avoid unpleasant statistical difficulties, it often is necessary to deal only with that portion of the sample in the participating group. If the sample contained only 100 households and there were 0.02 of the total

participating then there might be an effective sample for that region of size 2. It goes without saying that such a sample is too small to be useful.

Over time the type of models needed by the planners changed. As I understand it the type of model originally needed should be able to forecast participating in the important recreational activities according to the places of residence of the households. Over time, the emphasis shifted to the type of model that could forecast participation by region of origin and also forecast the breakdown of this origin participation by region of destination. An econometric model was first designed to estimate the household decision structure and forecast participation at the origins. As planning requirements evolved the econometric model was replicated in order to allocate from any number of origin regions to several destination regions. Upon attempting to estimate the model for one of the more active destination areas, it was discovered that the household survey contained far fewer observations in many cases than there were variables in the equations. In such instances the sample does not contain enough information for parameter estimation. Upon the discovery that the data was only sufficiently rich to support a constructive model with two or three rather gross destination replications it was decided to pursue a statewide econometric model oriented to origins and ignoring destinations. A scheme for translating origin demands into destination participation was to be developed at a later time. At that time work on a gravity type model as a self contained alternative to the econometric model was commissioned and commenced. It now appears that the gravity model may be the best possible approach to the allocation to destinations of demand at origins as forecast by the econometric model.

Finally, the survey data itself is suspect in many cases. The types and numbers of errors that almost invariably result on extensive surveys of this type, especially those employing a long and complicated questionnaire, have been documented a great many times by statisticians. The influence of the interviewer on the respondent is known to have pronounced effects on survey results. A great many puzzling aspects are borne out by a cursory examination of the survey data. Among these, for example, is the higher percentage of participation and general interest in water oriented recreational activities and camping by West Texas and Panhandle residents shown by the survey data. If such findings represent scientific truths they are significant. If they are spurious, they may have significant effects on any analyses or modelling efforts based on the survey data. Errors in variables resulting from survey data can seriously bias parameter estimation in any modelling effort. In the case of an econometric model, errors in variables can render badly biased structural parameters or even the entire model underidentified. Since the gravity model uses aggregated data, the opportunities for difficulties to arise from the survey data are not quite as great. As we of the Texas A&M University Task Force did not manage the collection of the survey data, it is not possible for us to determine the extent to which the data create biases.

In retrospect, it appears that modelling capabilities might have been considerably enhanced if the data base had been more carefully designed. It would have helped substantially in the design of the data base if thought had been given to (1) the type of planning devised that would ultimately be utilized and (2) to the type of models that could be formulated and implemented given the current state of economic and statistical science and the

requirements of planning. If these considerations had been more carefully scrutinized, it is suspected that a much shorter questionnaire would have been devised and a much larger sample taken.

IV. The Econometric Model

The model ultimately devised is a revision of those evolved during this study. In particular, it is a sub-model of the model given in a report to Texas Parks and Wildlife Department, dated March 25, 1971.^{2/} The March 1971 model evolved as was discussed in section III above. One day trips were eliminated from the econometric model because the one day trip data appeared to have a large fraction of unreported trips. If one day trips were considered in the econometric model not only is it likely that the one day portion of the model would be biased by incomplete data, but that the more than one day trip and vacation sub-models would be biased as well through the interdependencies. The March 1971 version had a rather incomplete set of probability identities linking the system together. In this report, the model will be discussed as it was finally estimated.

The decisions on the part of a household were assumed to be logically ordered as (1) whether or not to take any kind of a trip, (2) if a trip is to be taken, whether or not it is to be a 1-day trip, an overnight trip, or a vacation, (3) how many trips of the decided upon varieties are to be taken, (4) which of the six recreational activities are to receive attention on each type of trip decided upon, (5) how much of the decided upon activities are

^{2/} This report was also published as Department Information Report DIR-71-6 of the Department of Agricultural Economics and Rural Sociology, Texas A&M University.

to be enjoyed on each of the trip types chosen, and (6) which destinations are to be visited. It is recognized that the behavior of the typical household may not be as coolly calculating as the abstraction presented here, but it is felt that the abstraction contains the essentials of reality. This simple logical hierarchy represents the central idea of the econometric model presented with all its complexities. Because of problems associated with the application of the data base to such a conceptual structure part (1), the 1-day trip aspects of parts (2), (3), (4), and (5), and part (6) could not be implemented with the econometric model, but are treated in a different fashion by the gravity model.

The estimation of models using survey data in which the variables have zero or positive values has presented difficulties for many years. A number of statistical formulations have been proposed to avoid difficulties with statistical distributions and constraints on the ranges of variables for simple single equation situations, including the twin linear probability model, the tobit model and the poisson regression model. Of these, the twin linear probability model appeared to be easily generalized for a complex interdependent equation system.

The basic idea in the twin linear probability model employs an indicator variable that is 0 if the quantity variable has a value of zero and is 1 if the quantity variable is positive. The quantity variable is redefined conditionally on the indicator variable to be defined only when the indicator has a value of 1. For example, in the model we have an indicator variable as the probability of an overnight trip. The quantity variable companion to this indicator variable is the number of overnight trips given

that at least 1 was taken. The indicator variables are estimated jointly with other indicator variables by means of a fitted equation.

The equational estimates of the indicator variables correspond to estimates of the probability that a given household elected a positive quantity. Conditional quantities are estimated by means of a fitted equation as well. An estimate of the expected quantity per household is obtained as the product of the probability estimate and the conditional quantity estimate, which gives rise to the probability identity.

In single equation situations it has been shown that the covariance matrix of the probability equation is heteroskedastic, but parameter estimates and statistically more desirable estimates of standard errors may be obtained using weighted least squares. The heteroskedasticity result can be shown to hold for a simultaneous equation system of probability equations. The method of generalized two stage least squares would appear to provide adequate compensation for the heteroskedasticity in a simultaneous equation system such as this. The method of least squares, which is known to be biased in the absence of the heteroskedasticity problem was employed in this study. Ways of constraining probability estimates to lie between 0 and 1 have not been considered.

The estimation of equations involving the logarithms of dependent variables valued at 0.0 and 1.0 has further difficulties. In addition to the difficulties with properties of estimators, the logarithm of 0.0 is an undefinable quantity, being larger and more negative than any negative number. Thus the logarithm of 0.0 is impossible to approximate. The approach used in the report dated January 3, 1972 attempted an approximation of the

logarithm of 0.0. As explained in correspondence with Dr. Johnson dated May 10, 1972 (Appendix A) such an approximation caused considerable difficulty in the earlier forecasting system. Steps have been taken to adjust the approximation to the logarithms of probabilities to hold at the sample means instead. As will be seen in the forecasting system, a considerable degree of responsiveness to the policy variables has resulted.

The benefits to be derived, however, from employing the generalized twin linear probability approach are significant despite the estimation difficulties. As indicated earlier, the variables have non-negative values with a high proportion of zeros. Their distributions appear highly skewed. However, if one can employ only positive values and take logarithms, then the distributions appear to be similar to normal distributions. With estimation procedures that at least have desirable asymptotic properties, as opposed to the (biased) least squares, one might have little more than the usual difficulties, experienced with a simultaneous equation system. The model is stated in structural form in which forces operating jointly on endogenous variables (variables generated within the system) are characterized. The direct joint effects of exogenous variables (variables generated outside the system) upon the jointly determine endogenous variables are specified and estimated by the structural form.

The structural form of the model may under reasonable mathematical restrictions be solved or reduced to eliminate the joint effects of exogenous variables on endogenous variables. The resultant form of the model expresses the total effects of each exogenous variable on each endogenous variable whether or not they were related by the structural form and is usually the form used in forecasting. The reduced form contains fewer

restrictions than the structural form usually and never more restrictions. The additional restrictions on the structural form provide additional pieces of a-priori information to be used. Reduced form equations may be estimated directly, but it always provides at least as much information and usually more to estimate the structural equations and then solve them for the reduced form equations. This derived reduced form procedure was employed in this study.

A. Endogenous Variables

Complete documentation of the way in which endogenous and exogenous variables were computed is contained on the computer program decks that have been provided for Texas Parks and Wildlife Department. Probabilities refer to (0.0-1.0 valued) indicator variables classifying the households in terms of whether or not they engaged in particular types of activities and trips. Equations fitted for these indicator variables give estimates of the probabilities that households fall into the respective classes, given the exogenous variables. For all endogenous variables, the same notation will be used for numbers in arithmetic units and in logarithmic units. The base of the numbers will be clear from the context as the model is presented. Similarly as projections are made and then expanded to regional and state totals, the units of the quantity variables will change from household averages to regional and state totals without the basic labels changing.

Endogenous variables employed in the model were as follows:

1. PROBTRIP - Probability that a household took one or more overnight or longer trips; an indicator variable in the original data, but a continuously varying proportion in equations.

2. NTRP/TRP - Number of overnight or longer trips taken given that the household took at least one.
3. PROBVACN - Probability that a household took one or more vacation trips; dually viewed as an indicator or a proportion of vacationers.
4. NVAC/VAC - Number of vacation trips taken given that the household took at least one.
5. PRB/TRIP - Probability that a household engaged in boating on overnight or longer trips given that at least one such trip was taken; dually viewed as an indicator or a proportion.
6. PRC/TRIP - Probability that a household engaged in outdoor camping on overnight or longer trips given that at least one such trip was taken; dually viewed as an indicator or a proportion.
7. PRF/TRIP - Probability that a household engaged in freshwater fishing on overnight or longer trips given that at least one was taken; dually viewed as an indicator or a proportion.
8. PRH/TRIP - Probability that a household engaged in hunting on overnight trips given that at least one such trip was taken; dually viewed as an indicator or a proportion.
9. PRP/TRIP - Probability that a household engaged in picnicking on overnight trips given that at least one such trip was taken; dually viewed as an indicator or a proportion.

10. PRS/TRIP - Probability that a household engaged in swimming on overnight trips given that at least one such trip was taken: dually viewed as an indicator or as a proportion.
11. QB/B*TRP - Average number of person-days per trip in boating by a household on overnight or longer trips, given that boating occurred on at least one such trip.
12. QC/C*TRP - Average number of person-days per trip in outdoor camping by a household on overnight or longer trips, given that outdoor camping occurred on at least one such trip.
13. QF/F*TRP - Average number of person-days per trip in freshwater fishing by a household on overnight or longer trips, given that freshwater fishing occurred on at least one such trip.
14. QH/H*TRP - Average number of person-days per trip in hunting by a household on overnight or longer trips, given that hunting occurred on at least one such a trip.
15. QP/P*TRP - Average number of person-days per trip in picnicking by a household on overnight or longer trips, given that picnicking occurred on at least one such trip.
16. QS/S*TRP - Average number of person-days per trip in swimming by a household on overnight or longer trips, given that swimming occurred on at least one such trip.
17. NTRP/B*T - Number of overnight trips taken by a household given that boating occurred on at least one such trip.
18. NTRP/C*T - Number of overnight trips taken by a household given that camping occurred on at least one such trip.
19. NTRP/F*T - Number of overnight trips taken by a household given that freshwater fishing occurred on at least one such trip.

20. NTRP/H*T - Number of overnight trips taken by a household given that hunting occurred on at least one such trip.
21. NTRP/P*T - Number of overnight trips taken by a household given that picnicking occurred on at least one such trip.
22. NTRP/S*T - Number of overnight trips taken by a household given that swimming occurred on at least one such trip.
23. QB/TRP*P - Average number of person-days per trip in boating by a household on overnight or longer trips.
24. QC/TRP*P - Average number of person-days per trip in outdoor camping by a household on overnight or longer trips.
25. QF/TRP*P - Average number of person-days per trip in freshwater fishing by a household on overnight or longer trips.
26. QH/TRP*P - Average number of person-days per trip in hunting by a household on overnight or longer trips.
27. QP/TRP*P - Average number of person-days per trip in picnicking by a household on overnight or longer trips.
28. QS/TRP*P - Average number of person-days per trip in swimming by a household on overnight or longer trips.
29. QC/B*TRP - Average number of person-days per trip in outdoor camping by a household on overnight or longer trips, given that boating occurred on at least one such trip.
30. QF/B*TRP - Average number of person-days per trip in fishing by a household on overnight or longer trips, given that boating occurred at least one such trip.
31. QP/B*TRP - Average number of person-days per trip in picnicking by a household on overnight or longer trips, given that boating occurred on at least one such trip.

32. QS/B*TRP - Average number of person-days per trip in swimming by a household on overnight or longer trips, given that boating occurred on at least one such trip.
33. QB/C*TRP - Average number of person-days per trip in boating by a household on overnight or longer trips, given that outdoor camping occurred on at least one such trip.
34. QF/C*TRP - Average number of person-days per trip in freshwater fishing by a household on overnight or longer trips, given that outdoor camping occurred on at least one such trip.
35. QS/C*TRP - Average number of person-days per trip in swimming by a household on overnight or longer trips, given that outdoor camping occurred on at least one such trip.
36. QB/F*TRP - Average number of person-days per trip in boating by a household on overnight or longer trips, given that freshwater fishing occurred on at least one such trip.
37. QC/F*TRP - Average number of person-days per trip in outdoor camping by a household on overnight or longer trips, given that freshwater fishing occurred on at least one such trip.
38. QS/F*TRP - Average number of person-days per trip in swimming by a household on overnight or longer trips, given that freshwater fishing occurred on at least one such trip.
39. QC/H*TRP - Average number of person-days per trip in outdoor camping by a household on overnight or longer trips, given that hunting occurred on at least one such trip.
40. QB/P*TRP - Average number of person-days per trip in boating by a household on overnight or longer trips, given that picnicking occurred on at least one such trip.

41. QF/P*TRP - Average number of person-days per trip in freshwater fishing by a household on overnight or longer trips, given that picnicking occurred on at least one such trip.
42. QS/P*TRP - Average number of person-days per trip in swimming by a household on overnight or longer trips, given that picnicking occurred on at least one such trip.
43. QB/S*TRP - Average number of person-days per trip in boating by a household on overnight or longer trips, given that swimming occurred on at least one such trip.
44. QC/S*TRP - Average number of person-days per trip in outdoor camping by a household on overnight or longer trips, given that swimming occurred on at least one such trip.
45. QF/S*TRP - Average number of person-days per trip, in freshwater fishing by a household on overnight or longer trips, given that swimming occurred on at least one such trip.
46. QP/S*TRP - Average number of person-days per trip in picnicking by a household on overnight or longer trips, given that swimming occurred on at least one such trip.
47. PRB/VACN - Probability that a household engaged in boating on vacation trips given that at least one such trip was taken.
48. PRC/VACN - Probability that a household engaged in outdoor camping on vacation trips given that at least one such trip was taken.
49. PRF/VACN - Probability that a household engaged in freshwater fishing on vacation trips given that at least one such trip was taken.
50. PRH/VACN - Probability that a household engaged in hunting on vacation trips given that at least one such trip was taken.

51. PRP/VACN - Probability that a household engaged in picnicking on vacation trips given that at least one such trip was taken.
52. PRS/VACN - Probability that a household engaged in swimming on vacation trips given that at least one such trip was taken.
53. QB/B*VAC - Average number of person-days per trip in boating by a household on vacation trips, given that boating occurred on at least one such trip.
54. QC/C*VAC - Average number of person-days per trip in outdoor camping by a household on vacation trips, given that outdoor camping occurred on at least one such trip.
55. QF/F*VAC - Average number of person-days trip in freshwater fishing by a household on vacation trips, given that fishing occurred on at least one such trip.
56. QH/H*VAC - Average number of person-days per trip in hunting by a household on vacation trips, given that hunting occurred on at least one such trip.
57. QP/P*VAC - Average number of person-days per trip in picnicking by a household on vacation trips, given that picnicking occurred on at least one such trip.
58. QS/S*VAC - Average number of person-days per trip in swimming by a household on vacation trips, given that swimming occurred on at least one such trip.
59. NVAC/B*V - Number of vacation trips taken by a household given that boating occurred on at least one vacation.
60. NVAC/C*V - Number of vacation trips taken by a household given that outdoor camping occurred on at least one vacation.

61. NVAC/F*V - Number of vacation trips taken by a household given that freshwater fishing occurred on at least one vacation.
62. NVAC/H*V - Number of vacation trips taken by a household given that hunting occurred on at least one vacation.
63. NVAC/P*V - Number of vacation trips taken by a household given that picnicking occurred on at least one vacation.
64. NVAC/S*V - Number of vacation trips taken by a household given that swimming occurred on at least one vacation.
65. QB/VAC*P - Average number of person-days per vacation in boating by a household on vacation trips.
66. QC/VAC*P - Average number of person-days per vacation in outdoor camping by a household on vacation trips.
67. QF/VAC*P - Average number of person days per vacation in freshwater fishing by a household on vacation trips.
68. QH/VAC*P - Average number of person-days per vacation in hunting by a household on vacation trips.
69. QP/VAC*P - Average number of person-days per vacation in picnicking by a household on vacation trips.
70. QS/VAC*P - Average number of person-days per vacation in swimming by a household on vacation trips.
71. QC/B*VAC - Average number of person-days per vacation in outdoor camping by a household on vacation trips, given that boating occurred on at least one vacation trip.
72. QF/B*VAC - Average number of person-days per vacation in fishing by a household on vacation trips, given that boating occurred on at least one vacation trip.
73. QP/B*VAC - Average number of person-days per vacation in picnicking by a household on vacation trips, given that boating occurred

- on at least one vacation trip.
74. QS/B*VAC - Average number of person-days per vacation in swimming by a household on vacation trips, given that boating occurred on at least one vacation trip.
75. QB/CV*VAC - Average number of person-days per vacation in boating by a household on vacation trips, given that outdoor camping occurred on at least one vacation trip.
76. QF/C*VAC - Average number of person-days per vacation in freshwater fishing by a household on vacation trips, given that outdoor camping occurred on at least one vacation trip.
77. QS/C*VAC - Average number of person-days per vacation in swimming by a household on vacation trips, given that outdoor camping occurred on at least one vacation trip.
78. QB/F*VAC - Average number of person-days per vacation in boating by a household on vacation trips, given that freshwater fishing occurred on at least one vacation trip.
79. QC/F*VAC - Average number of person-days per vacation in outdoor camping by a household on vacation trips, given that freshwater fishing occurred on at least one vacation trip.
80. QP/F*VAC - Average number of person-days per vacation in picnicking by a household on vacation trips, given that freshwater fishing occurred on at least one vacation trip.
81. QC/H*VAC - Average number of person-days per vacation in outdoor camping by a household on vacation trips, given that hunting occurred on at least one vacation trip.
82. QB/P*VAC - Average number of person-days per vacation in boating by a household on vacation trips, given that picnicking occurred on at least one vacation trip.

83. QC/P*VAC - Average number of person-days per vacation in outdoor camping by a household on vacation trips, given that picnicking occurred on at least one vacation trip.
84. QF/P*VAC - Average number of person-days per vacation in freshwater fishing by a household on vacation trips, given that picnicking occurred on at least one vacation trip.
85. QS/P*VAC - Average number of person-days per vacation in swimming by a household on vacation trips, given that picnicking occurred on at least one vacation trip.
86. QB/S*VAC - Average number of person-days per vacation in boating by a household on vacation trips, given that swimming occurred on at least one vacation trip.
87. QC/S*VAC - Average number of person-days per vacation in outdoor camping by a household on vacation trips, given that swimming occurred on at least one vacation trip.
88. QF/S*VAC - Average number of person-days per vacation in freshwater fishing by a household on vacation trips, given that swimming occurred on at least one vacation trip.
89. QP/S*VAC - Average number of person-days per vacation in picnicking by a household on vacation trips, given that swimming occurred on at least one vacation trip.
90. NOTRIPON - Average number of overnight or longer trips taken by a household.
91. NOVACATN - Average number of vacation trips taken by a household.
92. QBTRIPON - Average number of person-days in boating on overnight or longer trips by a household.
93. QCTRIPON - Average number of person-days in camping on overnight or longer trips by a household.

94. QFTRIPON - Average number of person-days in fishing on overnight or longer trips by a household.
95. QHTRIPON - Average number of person-days in hunting on overnight or longer trips by a household.
96. QPTRIPON - Average number of person-days in picnicking on overnight or longer trips by a household.
97. QSTRIPON - Average number of person-days in swimming on overnight or longer trips by a household.
98. QBVACATN - Average number of person-days in boating on vacation trips by a household.
99. QCVACATN - Average number of person-days in camping on vacation trips by a household.
100. QFVACATN - Average number of person-days in fishing on vacation trips by a household.
101. QHVACATN - Average number of person-days in hunting on vacation trips by a household.
102. QPVACATN - Average number of person-days in picnicking on vacation trips by a household.
103. QSVACATN - Average number of person-days in swimming on vacation trips by a household.

As the household data for estimation of the model was prepared, a logical error was made in the specification of the identities that convert the conditioned participation quantities to unconditioned quantities. This error was evidenced in the mathematical formula used to compute the variables QB/TRIP, QC/TRIP, QF/TRIP, QH/TRIP, QP/TRIP, and QS/TRIP. The numbers of trips on which the activity in question occurred was used as a divisor for these variables rather than the correct quantity, the numbers of overnight

trips taken by the household. A correction was applied to the least squares structural estimates of the intercept parameters for the six trip quantity equations and their conditional probability equations to compensate for this problem. These corrections were based on the assumption that participation trips for a particular activity are proportional to total trips taken. They were computed by comparing participation totals for the gravity data to data for the econometric model and adjusting by the ratios of gravity data totals to econometric model data totals. The structural equations presented later contain these adjustments.

B. Exogenous Variables

The household variables below are on a per household basis. Policy variables are on a region of origin basis. Discrete household variables are indicator variables in arithmetic units. Continuous household variables are converted to natural logarithms after adding the constant 1.0. Policy variables are scaled by a table of scaling factors (below) and then their natural logarithms are produced.

1. CONSTANT - A value of 1.0 for all households.
2. OTHERTRP - Number of overnight or longer trips with nonrecreation purpose by a household, calculated as follows:

$$\text{OTHERTRP} = \sum_j O_{Tj}$$

$$O_{Tj} = \begin{cases} 1 & \text{if trip had other than recreational purpose} \\ 0 & \text{otherwise} \end{cases}$$

where $j = 1, \dots, \text{NOTRIPON}$.

If $\text{NOTRIPON} = 0$, $\text{OTHERTRP} = 0$.

3. HHINCOME - household income in thousands of dollars.

ADJUSTED FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1980 MEDIUM

STATEWIDE TOTAL QBTRIPON = 0.13150D 08

STATEWIDE TOTAL QCTRIPON = 0.22761D 08

STATEWIDE TOTAL QFTRIPON = 0.26556D 08

STATEWIDE TOTAL QHTRIPON = 0.78681D 07

STATEWIDE TOTAL QPTRIPON = 0.15260D 08

STATEWIDE TOTAL QSTRIPON = 0.14482D 08

STATEWIDE TOTAL QBVACATN = 0.15994D 07

STATEWIDE TOTAL QCVACATN = 0.71730D 07

STATEWIDE TOTAL QFVACATN = 0.42703D 07

STATEWIDE TOTAL QHVACATN = 0.45698D 06

STATEWIDE TOTAL QPVACATN = 0.18109D 07

STATEWIDE TOTAL QSVACATN = 0.35365D 07

FORECASTED VALUES OF ENDOGENOUS VARIABLES FOR BY REGION FOR 1980 HIGH

NOTRIPON	0.207330 C5	0.162610 C5	0.895790 C5	0.237070 C6	0.168800 C6	0.203910 C6	0.140720 C6	0.172680 C6	0.752210 C4	0.213930 C7
	0.137420 C7	0.156630 C6	0.140290 C6	0.324980 C6	0.906070 C5	0.230960 C7	0.110100 C6	0.254050 C6	0.258520 C6	0.109520 C5
	0.392510 C6	0.287640 C5	0.461800 C6	0.226140 C6	0.214690 C7	0.329640 C5	0.141950 C6	0.253090 C6	0.196740 C6	0.861510 C5
	0.976780 C5	0.162210 C6	0.106880 C7	0.186800 C6	0.269560 C6	0.482710 C5	0.142150 C6			
NOVACATN	0.331190 C5	0.127610 C5	0.120850 C5	0.300720 C5	0.287010 C5	0.950000 C4	0.210890 C5	0.109790 C5	0.263810 C5	0.118860 C6
	0.250950 C6	0.568330 C5	0.313270 C5	0.677910 C5	0.271750 C5	0.144770 C6	0.145960 C5	0.266810 C5	0.302430 C5	0.316560 C5
	0.187220 C5	0.154270 C5	0.656280 C5	0.430010 C5	0.376740 C6	0.195620 C5	0.549160 C5	0.621450 C5	0.555180 C5	0.259560 C4
	0.235930 C5	0.132270 C5	0.537080 C5	0.410940 C5	0.145770 C5	0.119870 C5	0.182310 C5			
QBTRIPON	0.179890 C5	0.161240 C5	0.959040 C5	0.305820 C6	0.183340 C6	0.214510 C6	0.147090 C6	0.188200 C6	0.649210 C4	0.223100 C7
	0.142820 C7	0.150170 C6	0.152200 C6	0.359790 C6	0.949610 C5	0.244760 C7	0.1117850 C6	0.254030 C6	0.283810 C6	0.121580 C5
	0.423970 C6	0.288470 C5	0.482660 C6	0.244050 C6	0.212960 C7	0.314720 C5	0.133330 C6	0.243980 C6	0.193230 C6	0.955340 C5
	0.999150 C5	0.167140 C6	0.105140 C7	0.187400 C6	0.282390 C6	0.478010 C5	0.151580 C6			
QCTRIPON	0.390100 C5	0.307130 C5	0.164760 C6	0.545680 C6	0.318060 C6	0.376820 C6	0.263720 C6	0.327410 C6	0.160310 C5	0.400400 C7
	0.258990 C7	0.304500 C6	0.265960 C6	0.623250 C6	0.175610 C6	0.435390 C7	0.206780 C5	0.467360 C6	0.488670 C5	0.211610 C5
	0.747390 C6	0.572710 C5	0.874540 C6	0.441840 C6	0.411900 C7	0.654640 C5	0.287810 C6	0.490470 C6	0.358940 C6	0.188270 C6
	0.186140 C6	0.310530 C6	0.203200 C7	0.353400 C6	0.500480 C6	0.886870 C5	0.271170 C6			
QFTRIPON	0.466730 C5	0.360230 C5	0.188220 C6	0.620390 C6	0.361650 C6	0.430300 C6	0.301230 C6	0.371580 C6	0.213660 C5	0.458720 C7
	0.296580 C7	0.344670 C6	0.307700 C6	0.712980 C6	0.200430 C6	0.488650 C7	0.234810 C6	0.524230 C6	0.554480 C6	0.241710 C6
	0.853430 C6	0.653660 C5	0.981330 C6	0.490290 C6	0.454940 C7	0.727360 C5	0.310200 C6	0.531560 C6	0.399120 C6	0.160360 C5
	0.211990 C6	0.341490 C6	0.223060 C7	0.385890 C6	0.556820 C6	0.991660 C5	0.302780 C6			
QHTRIPON	0.139920 C5	0.903870 C4	0.548370 C5	0.188040 C6	0.110400 C6	0.132300 C6	0.888090 C5	0.105310 C6	0.726050 C4	0.133770 C7
	0.865020 C6	0.876370 C5	0.958020 C5	0.225120 C6	0.564120 C5	0.152350 C7	0.694570 C5	0.170000 C6	0.169540 C6	0.690890 C5
	0.245920 C6	0.172070 C5	0.294250 C6	0.135330 C6	0.128520 C7	0.195850 C5	0.799490 C5	0.142940 C6	0.143530 C6	0.681880 C5
	0.588050 C5	0.102840 C6	0.670880 C6	0.129180 C6	0.199250 C6	0.354770 C5	0.888530 C5			
QPTRIPON	0.233910 C5	0.191510 C5	0.112500 C6	0.374040 C6	0.212580 C6	0.259570 C6	0.176500 C6	0.222170 C6	0.621620 C4	0.280340 C7
	0.174980 C7	0.193020 C6	0.176490 C5	0.415240 C6	0.113450 C6	0.300550 C7	0.136000 C6	0.213400 C6	0.330120 C6	0.138300 C5
	0.502120 C6	0.357510 C5	0.572560 C6	0.282820 C6	0.268490 C7	0.400480 C5	0.182590 C6	0.310610 C6	0.242980 C6	0.115290 C6
	0.123750 C6	0.206950 C6	0.134190 C7	0.235540 C6	0.360200 C6	0.608900 C5	0.181820 C6			
QSTRIPON	0.329540 C5	0.234680 C5	0.119420 C6	0.392300 C6	0.230140 C6	0.262790 C6	0.188480 C6	0.230040 C6	0.158310 C5	0.280720 C7
	0.183850 C7	0.212250 C6	0.191600 C6	0.448190 C6	0.124820 C6	0.305300 C7	0.146600 C6	0.332060 C6	0.353350 C6	0.152500 C6
	0.527870 C6	0.400030 C5	0.625900 C6	0.314140 C6	0.289710 C6	0.467470 C5	0.197200 C6	0.355820 C6	0.264420 C6	0.116890 C6
	0.133200 C6	0.216610 C6	0.142050 C7	0.259020 C6	0.358850 C6	0.661310 C5	0.194690 C6			
QBVACATN	0.536350 C5	0.225510 C5	0.277850 C5	0.617000 C5	0.469330 C5	0.182150 C5	0.434910 C5	0.232570 C5	0.803230 C5	0.177780 C6
	0.325490 C6	0.794810 C5	0.389210 C5	0.922000 C5	0.240610 C5	0.114580 C6	0.191160 C5	0.346960 C5	0.444530 C5	0.459130 C5
	0.242610 C5	0.129040 C5	0.591540 C5	0.345330 C5	0.223140 C6	0.152370 C5	0.330530 C5	0.283050 C5	0.463490 C5	0.268100 C4
	0.166580 C5	0.682670 C4	0.309510 C5	0.214300 C5	0.973870 C4	0.779330 C4	0.156290 C5			
QCVACATN	0.151900 C6	0.571810 C5	0.521370 C5	0.121640 C6	0.135130 C6	0.398280 C5	0.881790 C5	0.495060 C5	0.107480 C6	0.552610 C6
	0.124800 C7	0.269070 C6	0.171470 C6	0.373570 C6	0.163490 C6	0.865310 C6	0.752480 C5	0.128320 C6	0.151910 C6	0.170130 C6
	0.974090 C5	0.967060 C5	0.375610 C6	0.275810 C6	0.233200 C7	0.118180 C6	0.336280 C6	0.414130 C6	0.313980 C6	0.152160 C5
	0.150800 C6	0.918650 C5	0.329720 C6	0.278420 C6	0.944890 C5	0.744500 C5	0.109340 C6			
QFVACATN	0.158550 C6	0.640690 C5	0.653130 C5	0.156820 C6	0.137080 C6	0.480420 C5	0.117120 C6	0.595090 C5	0.165530 C6	0.509010 C6
	0.971260 C6	0.254660 C6	0.154240 C6	0.237050 C6	0.809380 C6	0.350110 C6	0.120810 C6	0.324060 C6	0.170410 C6	0.123630 C6

110

4. HRWRK/WK - hours worked per week by household head (discrete; 3 main effects: 1=35 or less, 2=36-51, 3=52+).
5. ERNDVACN - No. of days of vacation earned per year by head of household
-Check Employment Status; if not employed by others (Code \neq 1) recorded as actual days taken; if employed by other (Code = 1) recorded at reported value.
6. EMPLSTAT - Employee status of head of household (discrete:

$$E = \begin{cases} 1, & \text{if employed by others} \\ 0, & \text{otherwise).} \end{cases}$$
7. HHRACE - Race of household (discrete; 1=white, 0=other).
8. FAMLYSZE - Number living together in household.
9. HR/WKIND - Hours per week spent in indoor recreation, by a household.
10. HR/WKOUT - Hours per week spent in outdoor recreation by a household.
11. RECINVST - Total of valuation of boating, camping and hunting equipment owned by a household.
12. NACTNOW - Number of activities a household indicated that it participates in currently (computed by adding up the participation indicator variables over all classes, range 1-64).
13. NACTPAST - Number of activities the household indicated that it participated in five years ago (computed by adding up the participation indicator variables over all classes, range 1-64).
14. ONBOATED - Ownership of boating equipment (discrete: 1 = own eq; 0 = otherwise).
15. ONCAMPEQ - Ownership of camping equipment (discrete: 1 = ownequip; 0 = otherwise).
16. ONHUNTEQ - Ownership of hunting equipment (discrete: 1 = ownequip; 0 = otherwise).

17. PREFBOAT - Household preference ranking for boating.
18. PREFCAMP - Household preference ranking for all camping.
19. PREFFISH - Household preference ranking for all fishing.
20. PREFHUNT - Household preference ranking for hunting.
21. PREFPICC - Household preference ranking for picnicking.
22. PREFSWIM - Household preference ranking for swimming.
23. BOATNOW - Participation now in boating by a household (discrete: 1 = participant).
24. CAMPNOW - Participation now in all camping by a household (discrete: 1 = participant).
25. FISHNOW - Participation now in hunting by a household (discrete: 1 = participation).
26. HUNTNOW - Participation now in hunting by a household (discrete: 1 = participation).
27. PICNCNOW - Participation in picnicking by a household (discrete: 1 = participation).
28. SWIMNOW - Participation now in swimming by a household (discrete: 1 = participation).
29. AGEOHEAD - Age of head of household (range 1-15 as class indices).
30. QSTPHASE - Phase of survey (discrete: 0 = cool months, 1 = warm months).
31. OTHERVAC - Number of vacation trips with a nonrecreational purpose by a household, calculated as for OTHERTRP.
32. AVMIRIV1 - Availability of miles of rivers for overnight trips.
33. AVRELIF1 - Availability of divergent elevations (relief) for overnight trips.
34. AVRAINF1 - Availability of rainfall for overnight trips.
35. AVACHLC1 - Availability of acreage in the hill country for overnight trips.

36. AVACPWD1 - Availability of acreage in pine woods region for overnight trips.
37. AVACFWL1 - Availability of surface acres of freshwater lakes for overnight trips.
38. AVMABAY1 - Availability of miles of accessible bay frontage for overnight trips.
39. AVINCMP1 - Availability of inland camping facilities for overnight trips.
40. AVFSHQL1 - Availability of freshwater fishing quality for overnight trips.
41. AVYDFWF1 - Availability of freshwater fishing facilities for overnight trips.
42. AVACLSH1 - Availability of acreage leased for hunting for overnight trips.
43. AVACWMA1 - Availability of acreage in wildlife management areas for overnight trips.
44. AVINPIC1 - Availability of inland picnicking facilities for overnight trips.
45. AVSPOOL1 - Availability of area of swimming pools for overnight trips.
46. AVYDFWS1 - Availability of designated freshwater swimming areas for overnight trips.
47. AVPOPLN1 - Availability of population per unit land area for overnight trips.
48. AVNDEER1 - Availability of deer population for overnight trips.
49. AVWFOWL1 - Availability of waterfowl acre rating (region size multiplied by rating) for overnight trips.
50. AVSQURL1 - Availability of squirrel acre rating (region size multiplied by rating) for overnight trips.
51. AVJAVLA1 - Availability of javelina acre rating (region size multiplied by rating) for overnight trips.
52. AVMISHR1 - Availability of miles of Gulf shoreline for overnight trips.

53. AVFWBOT1 - Availability of freshwater boating facilities (ramps, slips, and stalls) for overnight trips.
54. AVSWBOT1 - Availability of saltwater boating facilities (ramps, slips, and stalls) for overnight trips.
55. AVMASHR1 - Availability of miles of accessible Gulf shoreline for overnight trips.
56. AVSWCMP1 - Availability of saltwater camping facilities for overnight trips.
57. AVSWPIC1 - Availability of saltwater picnicking facilities for overnight trips.
58. AVUBIRD1 - Availability of upland bird (dove, quail, turkey) acre rating region size multiplied by ratings for overnight trips.
59. - 85. - Identical with variables 32-58, except that availabilities are distance decayed for vacation trips.

Availability variables were computed by the following formula:

$$A_{ik}^s = \sum_{j=1}^{37} ((d_{ij})^{C_k}) X_j^s$$

for $i = 1, 37$, $k = 1, 2$, and $s = 1, 27$, where A_{iK}^S denotes the availability of the s^{th} type of recreational facility for the i^{th} origin region and k^{th} type of trip; C_k denotes the distance decay parameter for the k^{th} type of trip ($C_1 = 0.8$, $C_2 = 0.5$); d_{ij} denotes the map distance from origin region i to destination region j ; and X_j^S denotes the level of s^{th} type of recreational facility in the j^{th} destination region.

Scaling Factors for Policy Variables

<u>Policy Variable</u>	<u>Scale Divisor</u>
AVMIRIV	100
AVRELIF	1,000
AVRAINF	100
AVACHLC	1,000,000
AVACPWD	1,000,000
AVACFWL	10,000
AVMABAY	10
AVINCOMP	1,000
AVFSHQL	1
AVYDFWF	100
AVACLSH	1,000,000
AVACWMA	10,000
AVINPIC	1,000
AVSPOOL	1,000

AVYDFWS	10,000
AVPOPLN	100
AVNDEER	100,000,000
AVWFOWL	10,000,000
AVSQURL	10,000,000
AVJAVLA	10,000,000
AVMISHR	10
AVFWBOT	10
AVSWBOT	100
AVMASHR	10
AVSWCMP	10
AVSWPIC	10
AVUBIRD	100,000,000

Data on recreational facilities were obtained by Texas Parks and Wildlife Department staff from the 1969 statewide survey of recreational facilities.

The household variables (nos. 2. - 31.) were computed from data obtained in the 1968 household survey. The endogenous variables were also computed from the household survey data. A constant 1.0 was added to each continuous household variable before just prior to computing its natural logarithm. Constants were not added to availability variables. Complete documentation of the formulas used in the computation of all variables is spelled out on the computer programs employed in the computations.

C. The Structural Equation System

The structural model consists of a system of 28 stochastic equations and 75 probability identities. Among the stochastic equations, there are equations describing a decision process determining the probability that the household takes an overnight trip, a vacation, and the conditional probabilities that the household participates in each of the 6 activities given that it takes an overnight trip or a vacation. Companion to those 14 structural equations for probabilities, there are equations for the numbers of overnight trips and vacations, conditional that trips and vacations, respectively, will be taken; and there are equations for the quantities of each of the 6 activities per trip, conditional that the relevant type of trip was taken and the appropriate participation occurred on that type of trip. The 75 nonstochastic equations are either linear approximations to nonlinear relationships or exact linear relationships implied by the definitions of the data bases for the 28 structural equations. Without these identities, the model could not be stated consistently. The

last 14 of the identities, equations 90 - 103, are exact and allow the conversion of the highly conditioned quantities estimated by the stochastic equations to unconditioned quantities representing averages over all Texas households to be expanded into regional and state totals. Thus, the last 14 equations may be regarded as the most important identities in the system.

The trip probabilities were assumed to be jointly determined with each other and with the relevant trip quantities. The trip quantities are logically strongly related to the probabilities for each trip type from the definitions of the variables and data sets. Other variables specified to effect the trip and vacation probabilities include the economic variables RHINCOME, RECINVST; time allocation variables such as OTHERTRP, HRWRK/WK, ERNDVACN, OTHERVAC; recreation propensity variables NACTNOW and NACTPAST; and general environmental availability variables. Availability variables with strong policy capabilities were omitted in order to limit the number of parameters in each equation.

The conditional numbers of trips and vacations were assumed to be jointly determined with the activity probabilities conditional on the trip, or vacation in question, and depend on economic variables, time allocation variables, recreation propensity variables, social variables and selected availability policy variables representing diverse recreational types. The equation for numbers of vacations is stated similarly to the equation for numbers of trips.

The conditional probabilities of activities were jointly determined with the most closely related conditional probabilities and with the paired

conditional quantity. Important variables were assumed to be HHINCOME, and specific recreational activity propensity variables. Time allocation variables were assumed to be relatively unimportant to the probabilities. Availability variables are specific to the recreation activity and are chosen to be more environmental than policy in nature.

Conditional activity quantities per trip are jointly determined with conditional trip numbers and closely related quantities. Economic variables, time allocation variables, specific recreational propensity and preference variables, social variables and availability policy variables specific to the activity are included in the structural equations. Environmental availability variables and other availabilities not specific to the activity in question are omitted.

In order to reduce multicollinearity in the system, several rules were established. As there was no appreciable degree of multicollinearity amongst the household variables, no adjustments were required. Many of the related availability variables, such as freshwater boat ramps and freshwater ships and stalls are highly correlated. Those related directly to the same activity were pooled or added together. This would constrain their coefficients to be equal. All of the saltwater availability variables were highly correlated. Logically related saltwater variables, for example, miles of bay frontage and miles of ocean frontage were pooled. Structural equations were permitted to contain at most one saltwater variable in each equation. In cases in which more than one saltwater variable seemed appropriate to a quantity equation, a saltwater variable was then put in the companion probability equation if possible.

The above general rules employed in the specification of the equations to be statistically estimated have assured that the usual counting rules or necessary conditions for overidentification of each equation in the system are met. Counting rules, however, were developed for models that did not assume a possibility for widespread errors in the data.

As discussed earlier, the structural equations reflect either first order conditions for utility optimization or partially reduced equations between the first order conditions and the fully reduced demand equations. From that point of view, it is not possible to state strong hypotheses about the algebraic signs or range of the coefficients. However, one would generally expect `HHINCOME` to have a positive effect on any recreation-related decision.

Increases in variables reflecting time substituted in other areas should register decreases in recreation. Increases in recreational facilities availability in the region of origin might increase or decrease participation on longer trips. It is expected that increased availability will increase participation on overnight trips, however. Increased facilities availability would be expected to significantly increase recreation on very short trips, but these could not be treated in the final model.

The 103 structural equations are listed below. The constant is the first coefficient presented, followed by the jointly endogenous variable coefficients and their exogenous variable coefficients. Under each coefficient is an estimate of its standard error in parenthesis. The coefficient of determination of R^2 indicating that fraction of the variation in the left-hand variable explained by the ordinary least squares estimation of the equation

$$(1) \text{ PROBTRIP} = -0.1744\text{D } 01 + 0.6377\text{D-}02 \text{ PROBACN} + 0.9755\text{D } 00 \text{ NOTRIPON}$$

$$(0.3598\text{D-}02) \qquad\qquad\qquad (0.6177\text{D-}02)$$

$$+ 0.5609\text{D } 00 \text{ OTHERTRP} + 0.7895\text{D-}02 \text{ HHINCOME} + 0.6156\text{D-}03 \text{ HRWRK/WK}$$

$$(0.1443\text{D-}01) \qquad\qquad\qquad (0.5537\text{D-}02) \qquad\qquad\qquad (0.4621\text{D-}01)$$

$$+ 0.2400\text{D-}02 \text{ RECINVST} + 0.4191\text{D-}01 \text{ NACTNOW} + 0.2119\text{D-}01 \text{ NACTPAST}$$

$$(0.1363\text{D-}02) \qquad\qquad\qquad (0.8339\text{D-}02) \qquad\qquad\qquad (0.7431\text{D-}02)$$

$$- 0.1344\text{D-}01 \text{ AGEOHEAD} + 0.4826\text{D-}01 \text{ QSTPHASE} + 0.1186\text{D-}01 \text{ AVRELIF1}$$

$$(0.9943\text{D-}02) \qquad\qquad\qquad (0.6796\text{D-}02) \qquad\qquad\qquad (0.1418\text{D-}01)$$

$$+ 0.4630\text{D-}01 \text{ AVRAINFL1} + 0.7961\text{D-}03 \text{ AVACHLC1} - 0.9719\text{D-}02 \text{ AVACPWD1}$$

$$(0.2970\text{D-}01) \qquad\qquad\qquad (0.8026\text{D-}02) \qquad\qquad\qquad (0.1153\text{D-}01)$$

$$- 0.3420\text{D-}01 \text{ AVPOPLN1} - 0.3131\text{D-}01 \text{ AVMISHR1}$$

$$(0.1624\text{D-}01) \qquad\qquad\qquad (0.7211\text{D-}02)$$

$$R^2 = 0.750$$

$$(2) \text{ NTRP/TRP} = 0.1970\text{D } 01 + 0.5047\text{D-}01 \text{ PRB/TRIP} + 0.3722\text{D-}01 \text{ PRC/TRIP}$$

$$(0.1444\text{D-}01) \qquad\qquad\qquad (0.1435\text{D-}01)$$

$$+ 0.2269\text{D } 00 \text{ PRF/TRIP} + 0.1428\text{D } 00 \text{ PRH/TRIP} + 0.4863\text{D-}01 \text{ PRP/TRIP}$$

$$(0.1528\text{D-}01) \qquad\qquad\qquad (0.1476\text{D-}01) \qquad\qquad\qquad (0.1380\text{D-}01)$$

$$+ 0.3267\text{D-}01 \text{ PRS/TRIP} + 0.6436\text{D-}01 \text{ OTHERTRP} + 0.8212\text{D-}01 \text{ HHINCOME}$$

$$(0.1444\text{D-}01) \qquad\qquad\qquad (0.2087\text{D-}01) \qquad\qquad\qquad (0.2151\text{D-}01)$$

$$+ 0.9234\text{D-}01 \text{ HRWRK/WK} + 0.2085\text{D-}01 \text{ EMPLSTAT} - 0.2512\text{D-}02 \text{ HHRACE}$$

$$(0.2661\text{D-}01) \qquad\qquad\qquad (0.2530\text{D-}01) \qquad\qquad\qquad (0.3497\text{D-}01)$$

$$- 0.1662\text{D } 00 \text{ FAMLYSZE} - 0.3768\text{D-}01 \text{ HR/WKIND} + 0.6169\text{D-}01 \text{ HR/WKOUT}$$

$$(0.3548\text{D-}01) \qquad\qquad\qquad (0.1273\text{D-}01) \qquad\qquad\qquad (0.1246\text{D-}01)$$

$$+ 0.2926\text{D-}01 \text{ RECINVST} + 0.4980\text{D-}01 \text{ QSTPHASE} - 0.3788\text{D } 00 \text{ AVMIRIV1}$$

$$(0.4065\text{D-}02) \qquad\qquad\qquad (0.2457\text{D-}01) \qquad\qquad\qquad (0.1532\text{D } 00)$$

$$+ 0.5247\text{D-}01 \text{ AVACFWL1} + 0.1932\text{D } 00 \text{ AVFSHQL1} + 0.1040\text{D } 00 \text{ AVNDEER1}$$

$$(0.7350\text{D-}01) \qquad\qquad\qquad (0.7360\text{D-}01) \qquad\qquad\qquad (0.5862\text{D-}01)$$

$$+ 0.1517\text{D } 00 \text{ AVMASHR1}$$

$$(0.2770\text{D-}01)$$

$$R^2 = 0.175$$

$$(3) \text{ PROB VACN} = -0.1611\text{D } 01 + 0.4599\text{D-}02 \text{ PROBTRIP} + 0.1779\text{D } 01 \text{ NOVACATN}$$

$$(0.2792\text{D-}02) \qquad \qquad \qquad (0.6923\text{D-}02)$$

$$-0.2526\text{D-}02 \text{ HHINCOME} + 0.1529\text{D-}01 \text{ ERNDVACN} + 0.6155\text{D-}03 \text{ RECINVEST}$$

$$(0.3635\text{D-}02) \qquad \qquad (0.1954\text{D-}02) \qquad \qquad (0.8674\text{D-}03)$$

$$+ 0.1305\text{D-}01 \text{ NACTNOW} - 0.2613\text{D-}02 \text{ NACTPAST} - 0.3789\text{D-}01 \text{ AGEHEAD}$$

$$(0.5345\text{D-}02) \qquad \qquad (0.4644\text{D-}02) \qquad \qquad (0.6336\text{D-}02)$$

$$+ 0.4826\text{D-}01 \text{ OTHERVAC} - 0.3535\text{D-}02 \text{ AVRELIF2} - 0.8140\text{D-}02 \text{ AVRA1NF2}$$

$$(0.6954\text{D-}02) \qquad \qquad (0.1951\text{D-}01) \qquad \qquad (0.4330\text{D-}01)$$

$$- 0.3671\text{D-}02 \text{ AVACHLG2} + 0.8707\text{D-}02 \text{ AVACPWD2} - 0.1267\text{D-}03 \text{ AVPOPLN2}$$

$$(0.1026\text{D-}01) \qquad \qquad (0.1413\text{D-}01) \qquad \qquad (0.2210\text{D-}01)$$

$$- 0.1023\text{D-}02 \text{ AVMISHR2}$$

$$(0.8405\text{D-}02)$$

$$R^2 = 0.893$$

$$(4) \text{ NVAC/VAC} = 0.9745\text{D } 00 + 0.1471\text{D-}01 \text{ PRB/VACN} + 0.2227\text{D-}01 \text{ PRC/VACN}$$

$$(0.4447\text{D-}02) \qquad \qquad \qquad (0.4492\text{D-}02)$$

$$+ 0.2580\text{D-}01 \text{ PRF/VACN} + 0.5032\text{D-}01 \text{ PRH/VACN} - 0.1737\text{D-}02$$

$$(0.4653\text{D-}02) \qquad \qquad (0.4386\text{D-}02) \qquad \qquad (0.4241\text{D-}02)$$

$$+ 0.1172\text{D-}01 \text{ PRS/VACN} + 0.6738\text{D-}01 \text{ HHINCOME} + 0.5747\text{D-}01 \text{ ERNDVACN}$$

$$(0.4490\text{D-}02) \qquad \qquad (0.6638\text{D-}02) \qquad \qquad (0.4000\text{D-}02)$$

$$- 0.6516\text{D-}01 \text{ EMPLSTAT} - 0.1304\text{D-}02 \text{ HHIRACE} - 0.8533\text{D-}01 \text{ FAMLYSZE}$$

$$(0.7359\text{D-}02) \qquad \qquad (0.1121\text{D-}01) \qquad \qquad (0.1130\text{D-}01)$$

$$- 0.3576\text{D-}02 \text{ HR/WKIND} + 0.1016\text{D-}01 \text{ HR/WKOUT} + 0.2604\text{D-}02 \text{ RECINVEST}$$

$$(0.3951\text{D-}02) \qquad \qquad (0.3749\text{D-}02) \qquad \qquad (0.1245\text{D-}02)$$

$$+ 0.7248\text{D-}01 \text{ OTHERVAC} - 0.3239\text{D-}01 \text{ AVMERIV2} - 0.1805\text{D-}01 \text{ AVACFWL2}$$

$$(0.6132\text{D-}02) \qquad \qquad (0.1253\text{D-}01) \qquad \qquad (0.5093\text{D-}01)$$

$$+ 0.4590\text{D-}01 \text{ AVFSHQ12} - 0.1445\text{D-}01 \text{ AVNFEER2} - 0.3862\text{D-}01 \text{ AVMASHR2}$$

$$(0.6040\text{D-}01) \qquad \qquad (0.4410\text{D-}01) \qquad \qquad (0.1706\text{D-}01)$$

$$R^2 = 0.190$$

$$\begin{aligned}
 (5) \quad \text{PRB/TRIP} &= -0.2317\text{D } 01 + 0.8959\text{D-}02 \text{ NTRP/TRP} + 0.1135\text{D-}02 \text{ PRC/TRIP} \\
 &\quad (0.7099\text{D-}02) \quad (0.6165\text{D-}04) \\
 &+ 0.2588\text{D-}01 \text{ PRF/TRIP} + 0.1003\text{D } 01 \text{ QB/TRP*P} + 0.2374\text{D-}01 \text{ OTHERTRP} \\
 &\quad (0.6740\text{D-}02) \quad (0.7114\text{D-}02) \quad (0.8147\text{D-}02) \\
 &- 0.2027\text{D-}01 \text{ HHINCOME} + 0.2297\text{D-}01 \text{ HRWRK/WK} - 0.8203\text{D-}02 \text{ ONBOATEQ} \\
 &\quad (0.8766\text{D-}02) \quad (0.1032\text{D-}01) \quad (0.1195\text{D-}01) \\
 &+ 0.8294\text{D-}01 \text{ BOATNOW} + 0.2174\text{D-}01 \text{ QSTPHASE} + 0.2605\text{D-}01 \text{ AVMIRIV1} \\
 &\quad (0.1064\text{D-}01) \quad (0.9713\text{D-}02) \quad (0.3676\text{D-}01) \\
 &- 0.1287\text{D-}01 \text{ AVACFWL1} + 0.7910\text{D-}02 \text{ AVMABAY1} \\
 &\quad (0.2108\text{D-}01) \quad (0.9555\text{D-}02)
 \end{aligned}$$

$$R^2 = 0.888$$

$$\begin{aligned}
 (6) \quad \text{PRC/TRIP} &= -0.1550\text{D } 01 + 0.6276\text{D-}02 \text{ NTRP/TRP} - 0.7149\text{D-}02 \text{ PRB/TRIP} \\
 &\quad (0.6896\text{D-}02) \quad (0.6003\text{D-}02) \\
 &+ 0.9815\text{D-}02 \text{ PRF/TRIP} - 0.1530\text{D-}01 \text{ PRS/TRIP} + 0.8010\text{D } 00 \text{ QC/TRP*P} \\
 &\quad (0.6550\text{D-}02) \quad (0.6017\text{D-}02) \quad (0.6022\text{D-}02) \\
 &- 0.1128\text{D-}01 \text{ OTHERTRP} - 0.1079\text{D-}01 \text{ HHINCOME} - 0.1626\text{D-}01 \text{ HRWRK/WK} \\
 &\quad (0.8202\text{D-}02) \quad (0.8466\text{D-}02) \quad (0.1067\text{D-}01) \\
 &- 0.1492\text{D } 00 \text{ FAMLYSZE} - 0.1778\text{D-}01 \text{ ONCAMPEQ} + 0.1275\text{D } 00 \text{ CAMPNOW} \\
 &\quad (0.1366\text{D-}01) \quad (0.1111\text{D-}01) \quad (0.1073\text{D-}01) \\
 &- 0.1463\text{D-}01 \text{ AGEOHEAD} + 0.3398\text{D-}01 \text{ OSTPHASE} - 0.3997\text{D-}01 \text{ AVMIRIV1} \\
 &\quad (0.1369\text{D-}01) \quad (0.9604\text{D-}02) \quad (0.3556\text{D-}01) \\
 &+ 0.2548\text{D-}01 \text{ AVACFWL1} + 0.2350\text{D-}02 \text{ AVMASHR1} \\
 &\quad (0.2040\text{D-}01) \quad (0.9090\text{D-}02)
 \end{aligned}$$

$$R^2 = 0.892$$

$$\begin{aligned}
 (7) \text{ PRF/TRIP} &= - 0.1428\text{D } 01 + 0.4939\text{D-}01 \text{ NTRP/TRP} + 0.1178\text{D-}01 \text{ PRB/TRIP} \\
 &\quad (0.7615\text{D-}02) \quad (0.6686\text{D-}02) \\
 &+ 0.7768\text{D-}02 \text{ PRC/TRIP} - 0.7482\text{D-}02 \text{ PRP/TRIP} - 0.3596\text{D-}01 \text{ PRS/TRIP} \\
 &\quad (0.6746\text{D-}02) \quad (0.6391\text{D-}02) \quad (0.6658\text{D-}02) \\
 &+ 0.7286\text{D } 00 \text{ QF/TRP*P} + 0.1690\text{D-}01 \text{ OTHERTRP} - 0.2040\text{D-}01 \text{ HHINCOME} \\
 &\quad (0.6447\text{D-}02) \quad (0.8886\text{D-}02) \quad (0.9762\text{D-}01) \\
 &+ 0.2849\text{D-}01 \text{ HRWRK/WK} + 0.3559\text{D-}01 \text{ HHRACE} - 0.9769\text{D-}02 \text{ RECINVST} \\
 &\quad (0.1126\text{D-}01) \quad (0.1535\text{D-}01) \quad (0.1888\text{D-}02) \\
 &- 0.7244\text{D-}01 \text{ PREFFISH} + 0.1251\text{D } 00 \text{ FISHNOW} + 0.5654\text{D-}01 \text{ QSTPHASE} \\
 &\quad (0.1803\text{D-}01) \quad (0.1298\text{D-}01) \quad (0.1070\text{D-}01) \\
 &- 0.1110\text{D } 00 \text{ AVMIRIV1} + 0.9336\text{D-}01 \text{ AVACFWL1} - 0.4425\text{D-}01 \text{ AVFSHQL1} \\
 &\quad (0.3104\text{D-}01) \quad (0.2304\text{D-}01) \quad (0.2790\text{D-}01)
 \end{aligned}$$

$$R^2 = 0.852$$

$$\begin{aligned}
 (8) \text{ PRH/TRIP} &= -0.1905\text{D } 01 + 0.2836\text{D-}01 \text{ NTRP/TRP} - 0.3078\text{D-}01 \text{ PRC/TRIP} \\
 &\quad (0.7633\text{D-}02) \quad (0.6688\text{D-}02) \\
 &+ 0.1163\text{D } 01 \text{ QH/TRP*P} - 0.1063\text{D-}01 \text{ OTHERTRP} - 0.2140\text{D-}01 \text{ HHINCOME} \\
 &\quad (0.9763\text{D-}02) \quad (0.9311\text{D-}02) \quad (0.9675\text{D-}02) \\
 &- 0.1194\text{D-}01 \text{ HRWRK/WK} + 0.8046\text{D-}02 \text{ ONHUNTEQ} + 0.1122\text{D } 00 \text{ HUNTNOW} \\
 &\quad (0.1205\text{D-}01) \quad (0.1284\text{D-}01) \quad (0.1267\text{D-}01) \\
 &- 0.7333\text{D-}01 \text{ AGEHEAD} - 0.7589\text{D-}01 \text{ QSTPHASE} - 0.3184\text{D-}01 \text{ AVMIRIVI} \\
 &\quad (0.1513\text{D-}01) \quad (0.1122\text{D-}01) \quad (0.7447\text{D-}01) \\
 &+ 0.1289\text{D-}01 \text{ AVACFWL1} + 0.3709\text{D-}01 \text{ AVMABAY1} + 0.1647\text{D-}01 \text{ AVACLSH1} \\
 &\quad (0.3549\text{D-}02) \quad (0.1779\text{D-}01) \quad (0.3295\text{D-}01) \\
 &- 0.5463\text{D-}01 \text{ AVACEMAL} + 0.1818\text{D-}01 \text{ AVPOPINI} \\
 &\quad (0.3271\text{D-}01) \quad (0.1671\text{D-}01)
 \end{aligned}$$

$$R^2 = 0.865$$

(9) PRP/TRIP = -0.1867D 01 + 0.1325D-01 NTRP/TRP + 0.8696D-02 PRB/TRIP
 (0.7392D-02) (0.6415D-02)

- 0.9815D-02 PRF/TRIP - 0.1312D-01 PRS/TRIP + 0.9862D 00 QP/TRP*P
 (0.6865D-02) (0.6378D-02) (0.6740D-02)

+ 0.4459D-01 OTHERTRP - 0.1891D-01 HHINCOME + 0.5755D-01 HRWRK/WK
 (0.8375D-02) (0.9163D-02) (0.1064D-01)

- 0.9578D-02 RECINVST - 0.8665D-01 PREFPICC + 0.5888D-01 PICNCNOW
 (0.1758D-02) (0.3344D-02) (0.1059D-01)

+ 0.1180D-01 QSTPHASE - 0.5930D-01 AVMIRIV1 + 0.2171D-01 AVACFWL1
 (0.1022D-01) (0.3787D-01) (0.2165D-01)

+ 0.5130D-02 AVMASHR1
 (0.9682D-02)

$R^2 = 0.883$

(10) PRS/TRIP = -0.1969D 01 + 0.1923D-01 NTRP/TRP + 0.2547D-01 PRB/TRIP
 (0.7107D-02) (0.6157D-02)

+ 0.1028D-01 PRC/TRIP - 0.2482D-02 PRF/TRIP + 0.1388D-01 PRP/TRIP
 (0.6215D-02) (0.6693D-02) (0.5899D-02)

+ 0.9661D 00 QS/TRP*P - 0.7915D-02 OTHERTRP - 0.2037D-02 HHINCOME
 (0.6591D-02) (0.8394D-02) (0.8965D-02)

- 0.1600D-01 HRWRK/WK - 0.1257D 00 FAMLYSZE - 0.5262D-02 RECINVST
 (0.1093D-01) (0.1466D-01) (0.1702D-02)

+ 0.8858D-01 SWIMNOW - 0.1861D-01 AGEHEAD + 0.3465D-01 QSTPHASE
 (0.1111D-01) (0.1426D-01) (0.9857D-02)

+ 0.1690D-01 AVMIRIV1 - 0.5279D-02 AVACFWL1 - 0.2834D-02 AVMASHR1
 (0.3640D-01) (0.2082D-01) (0.9296D-02)

$$R^2 = 0.891$$

(11) QB/B*TRP= 0.8229D 00 - 0.5786D-01 NTRP/B*T + 0.5239D-01 QC/B*TRP
 (0.3018D-01) (0.2298D-01)

+ 0.1286D 01 QF/B*TRP + 0.5684D-01 QP/B*TRP + 0.1417D 00 QS/B*TRP
 (0.2608D 00) (0.2439D-01) (0.2381D-01)

+ 0.1129D 00 HHINCOME + 0.5258D-01 HRWRK/WK + 0.5486D 00 FAMLYSZE
 (0.4702D-01) (0.2585D-01) (0.8133D-01)

+ 0.1136D-01 HR/WKIND + 0.7933D-02 HR/WKOUT + 0.9175D-01 ONBOATEQ
 (0.2765D-01) (0.2878D-01) (0.4973D-01)

- 0.3106D 00 PREFBOAT - 0.2010D-01 QSTPHASE - 0.6855D-01 AVFWBOT1
 (0.8669D-01) (0.6018D-01) (0.4917D-01)

- 0.6507D-01 AVSWBOT1
 (0.3575D-01)

$$R^2 = 0.364$$

(12) QC/C*TRP= 0.9131D 00 - 0.6289D-01 NTRP/C*T + 0.5353D-01 QB/C*TRP
 (0.2141D-01) (0.1739D-01)

+ 0.1566D 00 QF/C*TRP + 0.8547D-01 QS/C*TRP - 0.3772D-01 HHINCOME
 (0.1638D-01) (0.1754D-01) (0.3006D-01)

- 0.6200D-02 HRWRK/WK + 0.6261D 00 FAMLYSZE - 0.1273D-01 HR/WKIND
 (0.1793D-03) (0.5005D-01) (0.1855D-01)

+ 0.3738D-01 HR/WKOUT + 0.1145D 00 ONCAMPEQ - 0.2499D 00 PREFCAMP
 (0.1793D-01) (0.3081D-01) (0.5902D-01)

+ 0.1636D-01 AGEOHEAD - 0.1546D-02 QSTPHASE + 0.5924D-02 AVINCMP1
 (0.4820D-01) (0.3554D-1) (0.4378D-02)

+ 0.3369D-01 AVSWCMP1
 (0.2424D-01)

$$R^2 = 0.346$$

(13) QF/F*TRP = 0.1042D 01 - 0.3324D-01 NTRP/F*T + 0.8876D-01 QB/F*TRP
 (0.1736D-01) (0.1560D-01)

+ 0.1116D 00 QC/F*TRP + 0.1041D 00 QS/F*TRP + 0.2282D-01 HHINCOME
 (0.1372D-01) (0.1659D-01) (0.2696D-01)

- 0.4907D-03 HRWRK/WK - 0.3337D-01 HHRACE + 0.4785D 00 FAMLYSZE
 (0.1561D-02) (0.4657D-01) (0.4518D-01)

- 0.3145D-04 HR/WKIND + 0.2017D-01 HR/WKOUT + 0.1636D-01 RECINVST
 (0.1584D-02) (0.1553D-01) (0.5011D-02)

- 0.2563D 00 PREFFISH - 0.1186D 00 QSTPHASE + 0.8612D-01 AVFSHQL1
 (0.4578D-01) (0.2952D-01) (0.7225D-01)

- 0.8563D-02 AVYDFWF1
 (0.4301D-01)

$$R^2 = 0.275$$

(14) QH/H*TRP = 0.7850D 00 - 0.4626D-01 NTRP/H*T + 0.1323D 00 QC/H*TRP
 (0.2680D-01) (0.2778D-01)

+ 0.4252D-01 HHINCOME + 0.3685D-01 HRWRK/WK + 0.3766D 00 FAMLYSZE
 (0.3549D-01) (0.2285D-01) (0.6574D-01)

- 0.2633D-01 HR/WKIND + 0.4930D-02 HR/WKOUT + 0.2888D-01 ONHUNTEQ
 (0.2111D-01) (0.2091D-01) (0.6790D 00)

- 0.3931D 00 PREFHUNT + 0.3073D 00 AGEOHEAD - 0.1421D 00 QSTPHASE
 (0.9221D-01) (0.5863D-01) (0.4618D-01)

+ 0.1357D 00 AVNDEER1 + 0.3567D 00 AVWFOWL1 - 0.4189D 00 AVSQURL1
 (0.1198D 00) (0.2519D 00) (0.2137D 00)

- 0.1765D 00 AVJAVLAI + 0.1462D 00 AVUBIRD1
 (0.1867D 00) (0.2117D 00)

$$R^2 = 0.135$$

(15) QP/P*TRP = 0.2781D 00 - 0.5955D-01 NTRP/P*T + 0.3842D-01 QB/P*TRP
 (0.2460D-01) (0.1869D-01)

+ 0.1374D 00 QF/P*TRP + 0.9011D-01 QS/P*TRP + 0.3671D-01 HHINCOME
 (0.1846D-01) (0.1818D-01) (0.3343D-01)

+ 0.1251D-01 HRWRK/WK + 0.9053D-01 EMPLSTAT + 0.7050D 00 FAMLYSZE
 (0.1886D-01) (0.3615D-01) (0.5199D-01)

- 0.2457D-01 HR/WKIND + 0.6340D-01 HR/WKOUT + 0.2021D-01 RECINVST
 (0.2072D-01) (0.2054D-01) (0.6044D-02)

- 0.1184D 00 PREFPICC + 0.1131D 00 QSTPHASE - 0.7806D-02 AVINPIC1
 (0.9801D-01) (0.4047D-01) (0.4833D-01)

+ 0.7252D-02 AVSWPIC1
 (0.2648D-01)

$$R^2 = 0.489$$

$$\begin{aligned}
(16) \quad & \text{QS/S*TRP} = 0.8421\text{D } 00 - 0.1367\text{D } 01 \text{ NTRP/S*T} + 0.7635\text{D-}01 \text{ QB/S*TRP} \\
& \quad \quad \quad (0.3298\text{D } 00) \quad \quad \quad (0.2139\text{D-}01) \\
& + 0.3394\text{D-}01 \text{ QC/S*TRP} + 0.7804\text{D-}01 \text{ QF/S*TRP} + 0.4936\text{D-}01 \text{ QP/S*TRP} \\
& \quad \quad \quad (0.2158\text{D-}01) \quad \quad \quad (0.2379\text{D-}01) \quad \quad \quad (0.2227\text{D-}01) \\
& - 0.1178\text{D-}01 \text{ HHINCOME} + 0.3081\text{D-}01 \text{ HRWRK/WK} + 0.7635\text{D } 00 \text{ FAMLYSZE} \\
& \quad \quad \quad (0.4754\text{D-}01) \quad \quad \quad (0.2731\text{D-}01) \quad \quad \quad (0.7899\text{D-}01) \\
& - 0.5310\text{D-}01 \text{ HR/WKIND} + 0.5856\text{D-}01 \text{ HR/WKOUT} + 0.1890\text{D-}01 \text{ RECINVEST} \\
& \quad \quad \quad (0.2875\text{D-}01) \quad \quad \quad (0.2878\text{D-}01) \quad \quad \quad (0.8919\text{D-}02) \\
& - 0.3644\text{D } 00 \text{ PREFSWIM} - 0.1582\text{D-}02 \text{ AGEOHEAD} + 0.1406\text{D } 00 \text{ QSTPHASE} \\
& \quad \quad \quad (0.1008\text{D-}01) \quad \quad \quad (0.7476\text{D-}01) \quad \quad \quad (0.6673\text{D-}01) \\
& - 0.5890\text{D-}01 \text{ AVSPOOL1} - 0.2962\text{D-}01 \text{ AVYDFWS1} + 0.5386\text{D-}01 \text{ AVMASHR1} \\
& \quad \quad \quad (0.1045\text{D } 00) \quad \quad \quad (0.5917\text{D-}01) \quad \quad \quad (0.2959\text{D-}01)
\end{aligned}$$

$$R^2 = 0.298$$

$$(17) \quad \text{NTRP/B*T} - 5.1130 \text{ NTRP/TRP} + 0.2577 \text{ PRB/TRIP} = - 5.3297$$

$$(18) \quad \text{NTRP/C*T} - 2.9856 \text{ NTRP/TRP} + 0.1802 \text{ PRC/TRIP} = - 2.5434$$

$$(19) \quad \text{NTRP/F*T} - 1.9525 \text{ NTRP/TRP} + 0.3422 \text{ PRF/TRIP} = - 1.2594$$

$$(20) \quad \text{NTRP/H*T} - 4.1356 \text{ NTRP/TRP} + 0.2058 \text{ PRH/TRIP} = - 4.0316$$

$$(21) \quad \text{NTRP/P*T} - 4.3402 \text{ NTRP/TRP} + 0.1286 \text{ PRP/TRIP} = - 4.2302$$

$$(22) \quad \text{NTRP/S*T} - 4.8759 \text{ NTRP/TRP} + 0.1722 \text{ PRS/TRIP} = - 4.9445$$

$$(23) \quad -\text{PRB/TRIP} - \text{QB/B*TRP} + \text{QB/TRP*P} = 0$$

$$(24) \quad -\text{PRC/TRIP} - \text{QC/C*TRP} + \text{QC/TRP*P} = 0$$

- (25) $-PRF/TRIP - QF/F*TRIP + QF/TRP*P = 0$
- (26) $-PRH/TRIP - QH/H*TRIP + QH/TRP*P = 0$
- (27) $-PRP/TRIP - QP/P*TRIP + QP/TRP*P = 0$
- (28) $-PRS/TRIP - QS/S*TRIP + QS/TRP*P = 0$
- (29) $QC/B*TRIP - 4.4725 QC/TRP*P + 0.3733 PRB/TRIP = -2.2001$
- (30) $QF/B*TRIP - 3.7620 QF/TRP*P + 0.5014 PRB/TRIP = -2.2645$
- (31) $QP/B*TRIP - 4.7743 QP/TRP*P + 0.3188 PRB/TRIP = -1.6504$
- (32) $QS/B*TRIP - 3.9365 QS/TRP*P + 0.4699 PRB/TRIP = -1.3518$
- (33) $QB/C*TRIP - 2.8200 QB/TRP*P + 0.2487 PRC/TRIP = -0.6421$
- (34) $QF/C*TRIP - 2.2978 QF/TRP*P + 0.4642 PRC/TRIP = -1.0542$
- (35) $QS/C*TRIP - 2.8394 QS/TRP*P + 0.2406 PRC/TRIP = -0.7212$
- (36) $QB/F*TRIP - 1.9943 QB/TRP*P + 0.3134 PRF/TRIP = -0.3649$
- (37) $QC/F*TRIP - 1.8309 QC/TRP*P + 0.4262 PRF/TRIP = -0.5407$
- (38) $QS/F*TRIP - 2.1707 QS/TRP*P + 0.1914 PRF/TRIP = -0.4407$
- (39) $QC/H*TRIP - 6.3555 QC/TRP*P - 0.3566 PRH/TRIP = -2.5779$
- (40) $QB/P*TRIP - 3.8431 QB/TRP*P + 0.2583 PRP/TRIP = -1.0051$
- (41) $QF/P*TRIP - 3.7975 QF/TRP*P + 0.2701 PRP/TRIP = -2.0843$
- (42) $QS/P*TRIP - 3.6683 QS/TRP*P + 0.3038 PRP/TRIP = -1.0906$
- (43) $QB/S*TRIP - 3.4730 QB/TRP*P + 0.4717 PRS/TRIP = -1.0467$

$$(44) \quad QC/S*TRP - 3.9141 \quad QC/TRP*P + 0.3775 \quad PRS/TRIP = -1.8599$$

$$(45) \quad QF/S*TRP - 3.9959 \quad QF/TRP*P + 0.3600 \quad PRS/TRIP = -2.3082$$

$$(46) \quad QP/S*TRP - 3.9059 \quad QP/TRP*P + 0.3794 \quad PRS/TRIP = -1.3364$$

$$(47) \quad PRB/VACN = -0.2124D \ 01 + 0.7603D-01 \ NVAC/VAC - 0.1147D-01 \ PRC/VACN \\ (0.1962D-01) \quad \quad \quad (0.5887D-02)$$

$$+ 0.3556D-02 \ PRF/VACN + 0.7683D \ 00 \ QB/VAC*P - 0.2900D-01 \ HHINCOME \\ (0.6331D-02) \quad \quad \quad (0.4902D-02) \quad \quad \quad (0.8395D-02)$$

$$- 0.1509D-01 \ ERNDVACN - 0.6655D-01 \ ONBOATEQ + 0.8303D-01 \ BOATNOW \\ (0.5531D-02) \quad \quad \quad (0.1228D-01) \quad \quad \quad (0.1029D-01)$$

$$+ 0.1500D-01 \ OTHERVAC - 0.6770D-01 \ AVMIRIV2 + 0.4479D-01 \ AVACFWL2 \\ (0.8414D-02) \quad \quad \quad (0.6657D-01) \quad \quad \quad (0.3870D-01)$$

$$+ 0.2628D-01 \ AVMABAY2 \\ (0.1627D-01)$$

$$R^2 = 0.860$$

$$(48) \quad PRC/VACN = -0.1566D \ 01 + 0.9579D-01 \ NVAC/VAC - 0.9137D-02 \ PRB/VACN \\ (0.1552D-01) \quad \quad \quad (0.4732D-02)$$

$$+ 0.1137D-01 \ PRF/VACN - 0.1600D-02 \ PRS/VACN + 0.6077D \ 00 \ QC/VAC*P \\ (0.4937D-02) \quad \quad \quad (0.4642D-02) \quad \quad \quad (0.3467D-02)$$

$$- 0.6726D-02 \ HHINCOME - 0.3091D-01 \ ERNDVACN - 0.1118D \ 00 \ FAMLYSZE \\ (0.6747D-02) \quad \quad \quad (0.4358D-02) \quad \quad \quad (0.1126D-01)$$

$$+ 0.1095D-02 \ ONCAMPEQ + 0.7989D-01 \ CAMPNOW - 0.4691D-01 \ AGEOHEAD \\ (0.9379D-02) \quad \quad \quad (0.8385D-02) \quad \quad \quad (0.1120D-01)$$

+ 0.3251D-03 OTHERVAC - 0.1201D 00 AVMIRIV2 + 0.8574D-01 AVACFWL2
 (0.6611D-02) (0.5124D-01) (0.3000D-01)

+ 0.5716D-02 AVMASHR2
 (0.1238D-01)

$$R^2 = 0.916$$

(49) PRF/VACN = - 0.1328D 01 + 0.1207D 00 NVAC/VAC + 0.5537D-02 PRB/VACN
 (0.2038D-01) (0.1404D-01)

- 0.2462D-03 PRC/VACN + 0.1061D-01 PRP/VACN - 0.2289D-01 PRS/VACN
 (0.6384D-03) (0.6003D-02) (0.6277D-02)

+ 0.5324D 00 QF/VAC*P - 0.1977D-01 HHINCOME - 0.2050D-01 ERNDVACN
 (0.4353D-02) (0.9060D-02) (0.5781D-02)

- 0.3503D-02 HHRACE - 0.6644D-02 RECINVST - 0.5899D-01 PREFFISH
 (0.1511D-01) (0.1780D-02) (0.1767D-01)

+ 0.1243D 00 FISHNOW + 0.3758D-01 OTHERVAC - 0.2096D 00 AVMIRIV2
 (0.1209D-01) (0.8829D-02) (0.6281D-01)

+ 0.5408D-01 AVACFWL2 + 0.1334D 00 AVFSHQL2
 (0.4170D-01) (0.6705D-01)

$$R^2 = 0.831$$

(50) PRH/VACN = - 0.2550D 01 + 0.7875D-01 NVAC/VAC - 0.8081D-02 PRC/VACN
 (0.1905D-01) (0.5498D-02)

+ 0.1154D 01 QH/VAC*P - 0.2612D-01 HHINCOME - 0.7635D-02 ERNDVACN
 (0.7614D-02) (0.8206D-02) (0.5325D-02)

+ 0.3352D-02 ONHUNTEQ + 0.7754D-01 HUNTNOW - 0.3483D-01 AGEOHEAD
 (0.1061D-01) (0.1065D-01) (0.1286D-01)

+ 0.2891D-01 OTHERVAC - 0.4475D-01 AVMIRIV2 - 0.4915D-02 AVACFWL2
 (0.8093D-02) (0.1665D 00) (0.8061D-01)

- 0.1746D-01 AVMBAY2 - 0.2802D-01 AVACLSH2 - 0.3034D-01 AVACWMA2
 (0.3594D-02) (0.7514D-01) (0.7751D-01)

+ 0.7488D-01 AVPOPLN2
 (0.3436D-01)

$$R^2 = 0.857$$

(51) PRP/VACN = -0.1368D 01 + 0.3792D-01 NVAC/VAC - 0.7733D-02 PRB/VACN
 (0.2076D-01) (0.6415D-02)

- 0.2520D-01 PRF/VACN - 0.2962D-02 PRS/VACN + 0.7140D 00 QP/VAC*P
 (0.6639D-02) (0.6328D-02) (0.4927D-02)

- 0.2423D-01 HHINCOME - 0.1219D-01 ERNDVACN - 0.5683D-02 RECINVST
 (0.9052D-02) (0.5864D-02) (0.1711D-02)

- 0.1016D 00 PREFPICC + 0.6260D-01 PICNCNOW + 0.5843D-01 OTHERVAC
 (0.3249D-01) (0.1074D-01) (0.8832D-02)

- 0.1310D 00 AVMIRIV2 - 0.1316D-01 AVACFWL2 + 0.9691D-02 AVMASHR2
 (0.6950D-01) (0.4061D-02) (0.1679D-01)

$$R^2 = 0.844$$

(52) PRS/VACN = -0.1602D 01 + 0.5015D-01 NVAC/VAC + 0.5474D-02 PRB/VACN
 (0.1921D-01) (0.5892D-02)

+ 0.5177D-02 PRC/VACN - 0.8804D-02 PRF/VACN + 0.4239D-01 PRP/VACN
 (0.5926D-02) (0.6132D-02) (0.5549D-02)

+ 0.6479D 00 QS/VAC*P + 0.6957D-02 HHINCOME - 0.1880D-01 ERNDVACN
 (0.4294D-02) (0.8634D-02) (0.5386D-02)

- 0.1182D 00 FAMLYSZE - 0.2569D-02 RECINVST + 0.9630D-01 SWIMNOW
 (0.1475D-01) (0.1607D-2) (0.1097D 01)

- 0.2948D-01 AGEHEAD + 0.2810D-01 OTHERVAC - 0.2544D-01 AVMIRIV2
 (0.1423D-01) (0.8217D-02) (0.6344D-01)

+ 0.1851D-01 AVACFWL2 - 0.7917D-03 AVMASHR2
 (0.3709D-03) (0.1531D-01)

$$R^2 = 0.871$$

(53) QB/B*VAC = 0.2022D 01 - 0.1418D 00 NVAC/B*V + 0.3125D-01 QC/B*VAC
 (0.9450D-01) (0.1889D-01)

+ 0.2212D 00 QEB*VAC + 0.6289D-01 QPB*VAC + 0.1447D 00 QS/B*VAC
 (0.1996D-01) (0.2058D-01) (0.1875D-01)

+ 0.1463D 00 HHINCOME + 0.7995D-01 ERNDVACN + 0.4723D 00 FAMLYSZE
 (0.5473D-01) (0.3366D-01) (0.9559D-01)

- 0.5604D-02 HR/WKIND - 0.1759D-02 HR/WKOUT + 0.2041D 00 ONBOATEQ
 (0.3086D-03) (0.3129D-01) (0.5998D-01)

- 0.7308D 00 PREFBOAT - 0.1043D 00 OTHERVAC - 0.9680D-01 AVFWBOT2
 (0.9944D-01) (0.5300D-01) (0.1080D 00)

- 0.3589D-01 AVSWBOT2
 (0.7139D-01)

$$R^2 = 0.499$$

(54) QC/C*VAC = 0.8045D 00 - 0.4805D 00 NVAC/C*V + 0.3570D-01 QB/C*VAC
 (0.8262D-01) (0.1821D-01)

+ 0.1085D 00 QFC*VAC + 0.6283D-01 QS/C*VAC + 0.2509D-01 HHINCOME
 (0.1544D-01) (0.1671D-01) (0.4767D-01)

+ 0.1811D 00 ERNDVACN + 0.9092D 00 FAMLYSZE - 0.3838D-01 HR/WKIND
 (0.2643D-01) (0.7906D-01) (0.2567D-01)

+ 0.5482D-01 HR/WKOUT + 0.2012D 00 ONCAMPEQ - 0.2949D 00 PREFCAMP
 (0.2483D-01) (0.4618D-01) (0.7644D-01)

+ 0.1950D 00 AGEOHEAD - 0.1817D 00 OTHERVAC - 0.1548D 00 AVINCMP2
 (0.7420D-01) (0.4749D-01) (0.1186D 00)

+ 0.1053D 00 AVSWCMP2
 (0.6136D-01)

$$R^2 = 0.365$$

(55) QF/F*VAC = 0.1695D 01 - 0.2057D 00 NVAC/F*V + 0.1365D 00 QB/F*VAC
 (0.7269D-01) (0.1512D-01)

+ 0.8281D-01 QC/F*VAC + 0.3887D-01 QP/F*VAC - 0.1811D-01 HHINCOME
 (0.1397D-01) (0.1592D-01) (0.3960D-01)

+ 0.9434D-01 ERNDVACN + 0.2372D 00 HHRACE + 0.5857D 00 FAMLYSZE
 (0.2340D-01) (0.7085D-01) (0.6750D-01)

- 0.5297D-01 HR/WKIND + 0.1115D 00 HR/WKOUT + 0.8993D-02 RECINVST
 (0.2171D-01) (0.2134D-01) (0.7126D-02)

- 0.4470D 00 PREFFISH - 0.2588D 00 OTHERVAC - 0.2683D 00 AVFSHQL2
 (0.6769D-01) (0.3690D-01) (0.2370D 00)

+ 0.1297D 00 AVYDFWF2
 (0.1226D 00)

$$R^2 = 0.258$$

(56) QH/H*VAC = 0.6843D 00 - 0.6214D-01 NVAC/H*V + 0.1045D 00 QC/H*VAC
 (0.1405D 00) (0.2857D-01)

+ 0.2290D 00 HHINCOME + 0.5813D-01 ERNDVACN + 0.2300D 00 FAMLYSZE
 (0.8029D-01) (0.4632D-01) (0.1402D 00)

- 0.9280D-02 HR/WKIND - 0.2692D-01 HR/WKOUT + 0.1895D 00 ONHUNTEQ
 (0.4134D-02) (0.4074D-01) (0.1301D 00)

- 0.4777D 00 PREFHUNT + 0.1092D 00 AGEOHEAD - 0.2288D 00 OTHERVAC
 (0.1565D 00) (0.1185D 00) (0.6919D-01)

+ 0.5141D 00 AVNDEER2 + 0.4112D 00 AVWFOWL2 - 0.2713D 00 AVSQURL2
 (0.5552D 00) (0.1122D 01) (0.8651D 00)

+ 0.1080D 00 AVJAVLA2 - 0.1069D 01 AVUBIRD2
 (0.7119D 00) (0.3938D 00)

$$R^2 = 0.165$$

(57) QP/P*VAC = 0.4139D 00 - 0.1401D 00 NVAC/P*V + 0.7275D-01 QB/P*VAC
 (0.8280D-01) (0.1959D-01)

+ 0.1530D 00 QC/P*VAC + 0.1307D 00 QF/P*VAC + 0.6152D-01 QS/P*VAC
 (0.1567D-01) (0.1677D-01) (0.1735D-01)

+ 0.5050D-01 HHINCOME + 0.7563D-01 ERNDVACN + 0.3368D-01 EMPLSTAT
 (0.3986D-01) (0.2405D-01) (0.4561D-01)

+ 0.7902D 00 FAMLYSZE - 0.2890D-01 HR/WKIND + 0.1884D-01 HR/WKOUT
 (0.6652D-01) (0.2455D-01) (0.2327D-01)

+ 0.1068D-02 RECINVST - 0.9125D-01 PREFPICC - 0.1066D 00 OTHERVAC
 (0.7532D-02) (0.1229D-00) (0.3228D-01)

+ 0.1530D 00 AVINPICS + 0.6434D-01 AVSWPIC2
 (0.1151D 00) (0.5865D-01)

$$R^2 = 0.435$$

$$\begin{aligned}
 (58) \quad QS/S*VAC &= 0.1189D 01 - 0.1911D 00 NVAC/S*V + 0.1292D 00 QB/S*VAC \\
 &\quad (0.9676D-01) \quad\quad\quad (0.1776D-01) \\
 &+ 0.5557D-01 QC/S*VAC + 0.1135D 00 QF/S*VAC - 0.4100D-02 QP/S*VAC \\
 &\quad (0.1713D 01) \quad\quad\quad (0.1789D-01) \quad\quad\quad (0.1860D-01) \\
 &- 0.4062D-01 HHINCOME + 0.9246D-01 ERNDVACN + 0.1025D 01 FAMLYSZE \\
 &\quad (0.5173D-01) \quad\quad\quad (0.2952D-01) \quad\quad\quad (0.8492D 00) \\
 &- 0.6773D-01 HR/WKIND + 0.4980D-01 HR/WKOUT - 0.5397D-03 RECINVST \\
 &\quad (0.2950D-01) \quad\quad\quad (0.2887D-01) \quad\quad\quad (0.8983D-02) \\
 &- 0.4497D 00 PREFSWIM - 0.4135D-01 AGEOHEAD - 0.2480D 00 OTHERVAC \\
 &\quad (0.1019D 00) \quad\quad\quad (0.8154D-01) \quad\quad\quad (0.4461D-01) \\
 &- 0.4912D-01 AVSPOOL2 + 0.1005D 00 AVYDFWS2 + 0.1769D 00 AVMASHR2 \\
 &\quad (0.2111D 00) \quad\quad\quad (0.1170D 00) \quad\quad\quad (0.5705D-01)
 \end{aligned}$$

$$R^2 = 0.334$$

$$(59) \quad NVAC/B*V - 6.1637 NVAC/VAC + 0.0637 PRB/VACN = -4.3736$$

$$(60) \quad NVAC/C*V - 4.4037 NVAC/VAC + 0.0528 PRC/VACN = -2.8789$$

$$(61) \quad NVAC/F*V - 2.5425 NVAC/VAC + 0.0626 PRF/VACN = -1.3086$$

$$(62) \quad NVAC/H*V - 9.5522 NVAC/VAC + 0.1364 PRH/VACN = -7.3311$$

$$(63) \quad NVAC/P*V - 4.1417 NVAC/VAC + 0.0122 PRP/VACN = -2.6301$$

$$(64) \quad NVAC/S*V - 4.3620 NVAC/VAC + 0.0218 PRS/VACN = -2.8215$$

$$(65) \quad -PRB/VACN - QB/B*VAC + QB/VAC*P = 0$$

$$(66) \quad -PRC/VACN - QC/C*VAC + QC/VAC*P = 0$$

$$(67) \quad -PRF/VACN - QF/F*VAC + QF/VAC*P = 0$$

- (68) $-PRH/VACN - QH/H*VAC + QH/VAC*P = 0$
- (69) $-PRP/VACN - QP/P*VAC + QP/VAC*P = 0$
- (70) $-PRS/VACN - QS/S*VAC + QS/VAC*P = 0$
- (71) $QC/B*VAC - 4.2483 QC/VAC*P + 0.4110 PRB/VACN = -2.3663$
- (72) $QF/B*VAC - 2.8314 QF/VAC*P + 0.6679 PRB/VACN = -2.0252$
- (73) $QP/B*VAC - 4.6982 QP/VAC*P + 0.3293 PRB/VACN = -2.2226$
- (74) $QS/B*VAC - 2.6890 QS/VAC*P + 0.6937 PRB/VACN = -1.3819$
- (75) $QB/C*VAC - 3.4315 QB/VAC*P + 0.3234 PRC/VACN = -1.1149$
- (76) $QF/C*VAC - 2.2882 QF/VAC*P + 0.6415 PRC/VACN = -1.4241$
- (77) $QS/C*VAC - 3.1778 QS/VAC*P + 0.3939 PRC/VACN = -1.4786$
- (78) $QB/F*VAC - 1.8941 QB/VAC*P + 0.4566 PRF/VACN = -0.4460$
- (79) $QC/F*VAC - 1.7617 QC/VAC*P + 0.5371 PRF/VACN = -0.5904$
- (80) $QP/F*VAC - 2.1735 QP/VAC*P + 0.2868 PRF/VACN = -0.6956$
- (81) $QC/H*VAC - 8.8960 QC/VAC*P + 0.2028 PRH/VACN = -5.2001$
- (82) $QB/P*VAC - 3.4511 QB/VAC*P + 0.2294 PRP/VACN = -1.0571$
- (83) $QC/P*VAC - 3.1662 QC/VAC*P + 0.3189 PRP/VACN = -1.5278$
- (84) $QF/P*VAC - 3.2952 QF/VAC*P + 0.2783 PRP/VACN = -2.1965$
- (85) $QS/P*VAC - 3.1620 QS/VAC*P + 0.3202 PRP/VACN = -1.4163$

- (86) $QB/S*VAC - 2.4413 QB/VAC*P + 0.5807 PRS/VACN = -0.8093$
- (87) $QC/S*VAC - 2.9734 QC/VAC*P + 0.4258 PRS/VACN = -1.4636$
- (88) $QF/S*VAC - 2.7413 QF/VAC*P + 0.4933 PRS/VACN = -1.7984$
- (89) $QP/S*VAC - 3.0338 QP/VAC*P + 0.4082 PRS/VACN = -1.2908$
- (90) $-PROBTRIP - NTRP/TRP + NOTRIPON = 0$
- (91) $-PROBVACN - NVAC/VAC + NOVACATN = 0$
- (92) $-PROBTRIP - NTRP/TRP - PRB/TRIP - QB/B*TRP + QBTRIPON = 0$
- (93) $-PROBTRIP - NTRP/TRP - PRC/TRIP - QC/C*TRP + QCTRIPON = 0$
- (94) $-PROBTRIP - NTRP/TRP - PRF/TRIP - QF/F*TRP + QFTRIPON = 0$
- (95) $-PROBTRIP - NTRP/TRP - PRH/TRIP - QH/H*TRP + QHTRIPON = 0$
- (96) $-PROBTRIP - NTRP/TRP - PRP/TRIP - QP/P*TRP + QPTRIPON = 0$
- (97) $-PROBTRIP - NTRP/TRP - PRS/TRIP - QS/S*TRP + QSTRIPON = 0$
- (98) $-PROBVACN - NVAC/VAC - PRB/VACN - QB/B*VAC + QBVACATN = 0$

- (99) -PROBVACN - NVAC/VAC - PRC/VACN
- QC/C*VAC + QCVACATN = 0
- (100) -PROBVACN - NVAC/VAC - PRF/VACN
- QF/F*VAC + QFVACATN = 0
- (101) -PROBVACN - NVAC/VAC - PRH/VACN
- QH/H*VAC + QHVACATN = 0
- (102) -PROBVACN - NVAC/VAC - PRP/VACN
- QP/P*VAC + QPVACATN = 0
- (103) -PROBVACN - NVAC/VAC - PRS/VACN
- QS/S*VAC + QSVACATN = 0

appears beneath each equation.

Parameter estimates were obtained using the method of ordinary least squares. Such least squares estimates for parameters in a system of simultaneous equations are expected to be biased. In the probability equations standard errors are also expected to be biased because of the heteroskedasticity mentioned earlier.

Structural parameters in 49 of the identities and 16 of the stochastic equations have been adjusted in accordance with methods agreed to by Dr. Stanley Johnson and myself (Appendix A). These changes have been incorporated into the equations in this report.

As an example, an interpretation of the structural parameters in equation (2) for NTRP/TRP will be given. The parameter estimates in each of the other stochastic equations can be interpreted accordingly. The interpretations of the identities depend upon whether they are linear approximations to exact linear relations or themselves exact linear relations. The normalization rule commonly employed in econometric investigations is applied to obtain a coefficient of 1.0 for NTRP/TRP. The coefficients 1.0, .050, .037, .227, .143, .049, and .033 represent estimates of the joint degree of influence among the endogenous variables NTRP/TRP, PRC/TRIP, PRF/TRIP, PRH/TRIP, PRP/TRIP, and PRS/TRIP, respectively. The constant, 1.97, represents the estimated value of the logarithm of NTRP/TRP if all other variables were set to 0.0. The parameter estimates for OTHERTRP, HHINCOME, HRWRK/WK, EMPLSTAT, HR/WKOUT, RECINVST, QSTPHASE, AVACFWL1, AVFSHQL1, AVNDEER1, and AVMASHR1 indicate that a 1.0 unit increase of these variables would result in an increase in NTRP/TRP of .064, .082, .092, .021,

.062, .029, .050, .052, .193, .104, and .152, respectively. Similarly an increase of 1.0 unit in HHRACE, FAMLYSEE, HR/WKIND and AVM/RIV1 would reduce NTRP/TRP by .003, .166, .038, and .379 units respectively if the model is correct. It should be noted that in the case of discrete exogenous variables, the influences indicated cover the maximum range of the variable. The algebraic signs on HRWRK/WK, EMPLSTAT, HHRACE and AVMIRIV1 may be questionable in terms of a priori expectations. The estimated parameters for EMPLSTAT and AVACFWL are smaller than their standard errors, which makes them suspect according to the views of some econometricians.

D. The Reduced Form Equation System

1. The System. The reduced form system represents a system of demand relationships as derived from the utility theory described earlier. It was obtained from the structural system by solving for the endogenous variables as linear functions of the exogenous variables. The algebraic process can be expressed by writing the structural form in compact notation as $\hat{\beta}Y + \hat{\Gamma}X = 0$, where Y is the matrix of logarithms of observations on each of the endogenous for each of the households, $\hat{\beta}$ is the estimated coefficient matrix for the logarithms of endogenous variables, X is the matrix of logs of observations on the exogenous variables, and $\hat{\Gamma}$ is the estimated coefficient matrix for the logs of exogenous variables. If the structural model is specified correctly, then matrix $\hat{\beta}$ will be nonsingular, or its inverse will exist. In that event, the system of equations may be solved as follows:

$$Y + \hat{\beta}^{-1} \hat{\Gamma}X = 0$$

$$\text{or } Y = -\hat{\beta}^{-1} \hat{\Gamma}X$$

$$\text{or } Y = \hat{P}X.$$

This equation says that each of the logged endogenous variables may be obtained as a linear function of the logarithm of all of the exogenous variables.

In the interest of saving space, the entire reduced form system will not be presented. They are in an accompanying folder of computer printouts. It would not be possible to discuss or attempt to explain the signs of all coefficients in 103 equations. One finds a great many coefficients with signs other than that expected and at the same time finds a great many that appear logical. Most reduced form coefficients are quite large, being larger than 0.01 in absolute value. This would imply a forecasting system that is extremely responsive to the data. It appears that the economic variables, HHINCOME and RECINVST usually exert a positive influence, from a cursory inspection. Time substitution variables appear to usually depress activity, while time expanding variables tend to increase it. The social variables such as race, size of family, etc., tend to move in the proper directions. Availability of recreational facilities appears to have a stimulating effect on overnight trip recreation and a depressing effect on vacations to some extent. For some activities, of course, these relationships do not hold.

The reduced form equations for probability variables would appear to be the least useful for planning. From them it would be possible to forecast the proportion of households participating in a particular trip or activity.

Another list of equations of dubious utility in the reduced form are those created by the extra identities required to adjust the endogenous variables for disparities in data. Many of these quantities are conditioned

in unusual ways, such as the number of overnight trips given that swimming occurred on an overnight trip. Many such quantities could be aggregated to meaningful planning figures, however.

Equations for the variables originally conditioned for estimation of the 14 structural equations would appear to make little sense if aggregated to regional or state levels. Thus, they, by themselves would appear to have limited use for planning.

Finally, we are left with the set of reduced form relationships for unconditioned quantities. These 14 equations give the numbers of overnight trips and vacations and the person days of participation in each of the 6 recreation activities on both types of trips. Forecasts from these equations can be converted from logarithmic units to decimal units and aggregated to regional and state totals. These equations represent logged demand relationships for average consumers prior to exponentiation and aggregation. The regional and state totals to be obtained from them represent aggregated recreational demands. It should be noted that the signs of estimated reduced form parameters for the unconditioned equations (90 to 103) appear to fit most closely a priori expectations.

The calibrated reduced form equations for the unconditional quantities are presented below. The 14 equation system subject to its calibration, is performing extremely well as will be presented later.

2. The Calibration Procedure. It is well known that the log-linear form of estimating a multiplicative model introduces biases in addition to the biases from errors already mentioned. These biases will be registered in

the forecasts obtained from the model and might be expressed largely in terms of scale. If the scale turns out to be biased relatively more than the parameters, themselves, then the bias adjustments might be regarded as a simple scale adjustment. A procedure adopted by Dr. Freund for the gravity model and continued for the econometric model is to compute the ratio of the expanded statewide totals from the sample data to the expanded statewide forecasts, using the sample data employed in estimation and adjust each equation by that ratio. Statisticians usually term this type of estimator as a ratio estimator. Under this method the bias is assumed to be expressed as a factor of proportionality in the exponentiated, aggregated forecast. An adjustment of this type was accomplished by an alteration of the constant in each reduced form equation. An adjustment of the simple ratio type did not appear to account for all the sources of bias in the reduced form system, however.

The nature of the performance of the model suggests three distinct bias effects within the system. There appears to be the usual type of bias (type 1) correctable using the ratio estimator. There also appears to be a bias (type 2) such that all response parameters seem too large. That is, the model appears to be overly responsive from an overall viewpoint to changes in the data. Errors in data can thus produce responses of unusual types. The third type of bias (type 3) that appears to be present is a disproportionality between the intercept parameter and other parameters in an equation.

The question of identifiability of the structural parameters (and

reduced forms in this case) is so complicated that there does not appear to be much in the literature as yet that could be directly applied to our econometric problem. For this reason, we have assumed that the econometric model, including both the structural and reduced form systems, is identifiable and is a usable but, prior to calibration, a biased representation of reality.

We have assumed that the types of bias indicated by the performance of the uncalibrated model are actually present. Adjustments for these biases are now described. Since the model appeared to be overly responsive to changes in the exogenous variables after a ratio calibration an adjustment for scale (type 2) in the logarithmic units of the variables was implemented. I experimented with factors of 0.2 and 0.1 with which to multiply all parameters in the 14 equation system. Of the two, 0.2 tended to perform the poorest on the 1968 data but worked best for projections. The 0.1 bias adjustment factor tended to damp the system more than seemed desirable over the 30 years of projections. The results using the 0.1 bias adjustment are not included in this report, but are provided in Appendix B and on an accompanying computer printout.

Disproportionalities among the coefficients in several of the equations seemed to persist after adjustments for biases of types 1 and 2 were made. In the type 3 bias adjustment, I assumed that a disproportionality bias lay between the intercept and the other parameters taken as a group. With that assumption I added a constant (1.0) to the intercept of the five equations exhibiting this difficulty. This adjustment seems to work well. After adjustments of type 2 and type 3 were made, the ratio adjustment was recalculated to align the forecasted statewide totals with statewide totals from the sample survey. Exact formulas applied in this calibration are

contained in the accompanying computer program printouts.

The calibrated reduced form equations for the 14 relevant planning variables are presented below. Next are listed regional totals from the expanded sample survey for 1967-68. Next is given the forecasted regional totals calibrated with the type 2 bias adjustment at 0.2. The statewide totals from the expanded sample and the forecasted statewide totals using the type 2 bias adjustment are presented last.

A comparison of the forecasted regional totals with the sample expansions for 1967-68 indicates that the forecasting model is performing rather well on the original data. Most of the forecasted regional totals appear to lie between the gravity forecasts and the original sample expansions. Furthermore, most of the very low and very high values in the original data seem to be picked up a bit better with the econometric forecast than the gravity. The econometric forecasts, while predicting 200 to 400 percent increases to the year 2000 in certain types of recreation and declines in others is quite conservative, however, as compared to the gravity model projections. It would appear that the econometric model as it now stands is a highly refined and highly useful mechanism for statewide recreation planning.

However, I would expect and wish to continue to make small refinements in the model over the next several years. During the next two to three weeks we will re-examine the structural model for sources of bias, hoping to find ways of correcting some biases at their origins, rather than at the symptoms. In this investigation we are confident that we can find ways to reduce the number of assumptions and ad hoc judgments made in the bias adjustments, replacing them with more desirable statistical procedures, such

as ratio estimators. Such refinements may not contribute materially to the forecasting accuracy of the model as it is calibrated, but will enhance the image of the model under the scrutiny of experts. These later investigations will be forwarded as supplements to this report.

REDUCED FORM COEFFICIENT MATRIX

NOTRIPON	CONSTANT	OTHERTRP	HHINCOME	HRWRK/WK	ERNDVACN	EMPLSTAT
	-0.39509D 01	0.59186D 01	0.16681D 01	0.18788D 01	-0.11487D-01	0.10816D 01
NOTRIPON	HHRACE	FAMLYSZE	HR/WKIND	HR/WKOUT	RECINVST	NACTNOW
	0.98096D-02	-0.42612D 01	-0.21406D 00	0.58062D 00	0.40398D 00	0.34072D 00
NOTRIPON	NACTPAST	OWNBOATE	OWNCAMPE	OWNHUNTE	PREFBOAT	PREFCAMP
	0.17289D 00	0.30194D-01	-0.16385D 01	-0.20358D 00	-0.10989D 00	0.41906D 01
NOTRIPON	PREFFISH	PREFHUNT	PREFPICC	PREFSWIM	BOATNOW	CAMPNOW
	-0.75018D 00	0.26176D 01	-0.18887D 01	-0.22112D 00	0.98400D-01	-0.18775D 01
NOTRIPON	FFISHNOW	HUNTNOW	PICNCNOW	SWIMNOW	AGEOHEAD	QSTPHASE
	0.47088D 00	-0.65412D 00	0.53590D 00	0.75134D-01	-0.18212D 01	0.31088D 01
NOTRIPON	OTHERVAC	AVMIRIV1	AVRELIF1	AVRAINF1	AVACHLC1	AVACPWD1
	-0.77276D-01	-0.37720D 01	0.96658D-01	0.37738D 00	0.64888D-02	-0.79218D-01
NOTRIPON	AVACFWL1	AVMABAY1	AVINCMPI	AVFSHQL1	AVYDFWF1	AVACLSH1
	0.58974D 00	-0.21122D 00	-0.10113D 00	0.18587D 01	-0.18142D-01	-0.98324D-01
NOTRIPON	AVACWMA1	AVINPIC1	AVSPOOL1	AVYDFWS1	AVPOPLN1	AVNDEER1
	0.32614D 00	-0.73202D-01	-0.39008D-01	-0.19617D-01	-0.38728D 00	0.53228D-01
NOTRIPON	AVWFOWL1	AVSQURL1	AVJAVLA1	AVMISHR1	AVFWBOT1	AVSWBOT1
	-0.24766D C1	0.29084D 01	0.12254D 01	-0.25520D 00	-0.44626D-01	-0.42360D-01
NOTRIPON	AVMASHR1	AVSWCMP1	AVSWPIC1	AVUBIRD1	AVMIRIV2	AVRELIF2
	0.14973D 01	-0.57514D 00	0.68006D-01	-0.10151D 01	0.32800D-01	0.23586D-03
NOTRIPON	AVRAINF2	AVACHLC2	AVACPWD2	AVACFWL2	AVMABAY2	AVINCMPI2
	0.54312D-03	0.24494D-03	-0.58096D-03	0.16274D-01	-0.62292D-02	-0.39710D-01
NOTRIPON	AVFSHQL2	AVYDFWF2	AVACLSH2	AVACWMA2	AVINPIC2	AVSPOOL2
	-0.45752D-02	-0.19549D-01	-0.56754D-02	-0.61454D-02	-0.15775D-01	0.22072D-02
NOTRIPON	AVYDFWS2	AVPOPLN2	AVNDEER2	AVWFOWL2	AVSQURL2	AVJAVLA2
	-0.45160D-02	0.15175D-01	0.12827D 00	0.96114D-01	-0.63414D-01	0.25244D-01
NOTRIPON	AVMISHR2	AVFWBOT2	AVSWBOT2	AVMASHR2	AVSWCMP2	AVSWPIC2
	0.69258D-04	0.12228D-01	0.45336D-02	0.14115D-01	0.27012D-01	-0.66336D-02
NOTRIPON	AVUBIRD2				J	E
	-0.24986D 00	0.11520D 05	0.65778D 04	0.95366D 05	0.38351D 06	0.17293D 06
NOVACATN	CONSTANT	OTHERTRP	HHINCOME	HRWRK/WK	ERNDVACN	EMPLSTAT
	-0.14942D 01	-0.34748D-01	-0.22040D-03	-0.10821D-01	-0.26496D-01	0.65294D-01
NOVACATN	HHRACE	FAMLYSZE	HR/WKIND	HR/WKOUT	RECINVST	NACTNOW
	-0.74774D-01	0.10972D 00	0.11411D-01	-0.43770D-01	-0.53138D-02	-0.53620D-02
NOVACATN	NACTPAST	OWNBOATE	OWNCAMPE	OWNHUNTE	PREFBOAT	PREFCAMP
	-0.34982D-03	-0.41114D-01	0.12153D 00	0.98438D-01	0.20028D 00	-0.18774D 00

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NOVACATN	PREFFISH	PREFHUNT	PREFPICC	PREFSWIM	BOATNOW	CAMPNOW
	C.16847D C1	C.25656D 00	0.51640D-01	C.44978D-C1	0.18967D-01	C.49296D-01
NOVACATN	FFISHNOW	HUNTNOW	PICNCNOW	SWIMNOW	AGEOHEAD	QSTPHASE
	-0.41554D-C1	C.37734D-01	0.15666D-01	0.90956D-C2	0.15243D 00	0.17960D-01
NOVACATN	OTHERVAC	AVMIRIV1	AVRELIF1	AVRAINF1	AVACHLC1	AVACPWD1
	-C.17211D 00	0.21722D-01	0.57070D-03	0.22280D-02	0.38308D-04	0.46768D-03
NOVACATN	AVACFWL1	AVMABAY1	AVINCMP1	AVFSHQL1	AVYDFWF1	AVACLSH1
	-0.33962D-02	0.12164D-02	0.58240D-03	0.10704D-01	0.10448D-03	0.56624D-03
NOVACATN	AVACWMA1	AVINPIC1	AVSPOOL1	AVYDFWS1	AVPOPLN1	AVNDEER1
	-0.18782D-02	C.42156D-03	0.22464D-03	C.11297D-03	0.22708D-02	0.30654D-03
NOVACATN	AVWFOWL1	AVSQURL1	AVJAVLA1	AVMISHR1	AVFWBOT1	AVSWBOT1
	C.14262D-C1	0.16749D-01	0.70572D-02	C.15066D-02	0.25700D-03	0.24394D-03
NOVACATN	AVMASHR1	AVSWCMP1	AVSWPIC1	AVUBIRD1	AVMIRIV2	AVRELIF2-
	-C.86230D-C2	0.33122D-02	0.39164D-03	0.58456D-02	0.70752D-01	0.90618D-03
NOVACATN	AVRAINF2	AVACHLC2	AVACPWD2	AVACFWL2	AVMABAY2	AVINCMP2
	C.20866D-C2	0.94104D-03	0.22320D-02	C.35104D-01	0.13437D-01	0.85654D-01
NOVACATN	AVFSHQL2	AVYDFWF2	AVACLSH2	AVACWMA2	AVINPIC2	AVSPOOL2
	-0.98688D-02	0.42168D-01	0.12242D-01	0.13256D-01	0.34026D-01	0.47610D-02
NOVACATN	AVYDFWS2	AVPOPLN2	AVNDEER2	AVWFOWL2	AVSQURL2	AVJAVLA2
	-0.97410D-02	0.32748D-01	0.27668D 00	0.20732D 00	0.13678D 00	0.54452D-01
NOVACATN	AVMISHR2	AVFWBOT2	AVSWBOT2	AVMASHR2	AVSWCMP2	AVSWPIC2
	C.26224D-03	0.26376D-01	0.97790D-02	0.30446D-01	0.58264D-01	0.14309D-01
NOVACATN	AVUBIRD?				J & J O B	
	-C.53898D 00	0.55462D 05	0.12986D 05	0.15984D 05	0.55413D 05	0.33399D 05
QBTRIPON	CONSTANT	OTHERTRP	HHINCOME	HRWRK/WK	ERNDVACN	EMPLSTAT
	-C.36758D C1	C.59490D C1	0.17321D C1	0.19216D C1	C.11487D-01	0.10999D 01
QBTRIPON	HHRACE	FAMLYSZE	HR/WKIND	HR/WKOUT	RECINVS	NACTNOW
	C.11123D-C1	C.47224D 01	0.19869D 00	0.56204D 00	0.40582D 00	0.34072D 00
QBTRIPON	NACTPAST	OWNBOATE	OWNCAMPE	OWNHUNTE	PREFBOAT	PREFCAMP
	C.17289D 00	0.46346D-01	0.16972D 01	0.20908D 00	0.16929D 00	0.43390D 01
QBTRIPON	PREFFISH	PREFHUNT	PREFPICC	PREFSWIM	BOATNOW	CAMPNOW
	-0.67028D 00	0.26780D 01	0.19199D C1	0.12976D 00	0.11250D 00	0.19449D 01
QBTRIPON	FFISHNOW	HUNTNOW	PICNCNOW	SWIMNOW	AGEOHEAD	QSTPHASE
	C.44703D C1	C.66894D C1	0.54482D 00	0.56284D-C1	0.18563D 01	0.31302D 01
QBTRIPON	OTHERVAC	AVMIRIV1	AVRELIF1	AVRAINF1	AVACHLC1	AVACPWD1
	-0.77276D-C1	0.39138D C1	0.96668D-01	0.37738D 00	0.64888D-02	0.79218D-01
QBTRIPON	AVACFWL1	AVMABAY1	AVINCMP1	AVFSHQL1	AVYDFWF1	AVACLSH1
	C.57014D 00	0.21478D 00	0.10465D 00	C.18858D C1	0.15933D-01	0.12050D 00
QBTRIPON	AVACWMA1	AVINPIC1	AVSPOOL1	AVYDFWS1	AVPOPLN1	AVNDEER1
	C.33334D C1	0.74398D-01	0.24240D-C1	0.12190D-C1	0.38968D C1	0.54466D-01
QBTRIPON	AVWFOWL1	AVSQURL1	AVJAVLA1	AVMISHR1	AVFWBOT1	AVSWBOT1
	C.14262D-C1	0.16749D-01	0.70572D-02	C.15066D-02	0.25700D-03	0.24394D-03

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QBTRIPON	-0.253140 01	0.297280 01	0.125250 01	-0.255760 00	-0.577360-01	-0.548060-01
QBTRIPON	AVMASHR1	AVSWCMP1	AVSWPIC1	AVUBIRD1	AVMIRIV2	AVRELIF2
	0.151610 01	-0.595160 00	0.691180-01	-0.103750 01	0.328000-01	0.235860-03
QBTRIPON	AVRAINF2	AVACHLC2	AVACPWD2	AVACFWL2	AVMABAY2	AVINCMPI2
	0.543120-03	0.244940-03	-0.580960-03	0.162740-01	-0.622920-02	-0.397100-01
QBTRIPON	AVFSHQL2	AVYDFWF2	AVACLSH2	AVACWMA2	AVINPIC2	AVSPOOL2
	-0.457520-02	-0.195490-01	-0.567540-02	-0.614540-02	-0.157750-01	0.220720-02
QBTRIPON	AVYDFWS2	AVPOPLN2	AVNDEER2	AVWFOWL2	AVSQURL2	AVJAVLA2
	-0.451600-02	0.151750-01	0.128270 00	0.961140-01	-0.634140-01	0.252440-01
QBTRIPON	AVMISHR2	AVFWBOT2	AVSWBOT2	AVMASHR2	AVSWCMP2	AVSWPIC2
	0.682580-04	0.122280-01	0.453360-02	0.141150-01	0.270120-01	-0.663360-02
QBTRIPON	AVUBIRD2				J	E
	-0.249860 00	0.556740 04	0.469270 04	0.928660 05	0.380580 06	0.166770 06
QCTRIPO	CONSTANT	OTHERTRP	HHINCOME	HRWRK/WK	ERNOVACN	EMPLSTAT
	-0.305030 01	0.590500 01	0.164000 01	0.184830 01	-0.114870-01	0.105490 01
QCTRIPO	HHRACE	FAMLYSZE	HR/WKIND	HR/WKOUT	RECINVST	NACTNOW
	0.104180-01	-0.435580 01	-0.209600 00	0.577060 00	0.400600 00	0.340720 00
QCTRIPO	NACTPAST	OWNBOATE	OWNCAMPE	OWNHUNTE	PREFBOAT	PREFCAMP
	0.172890 00	0.273140-01	-0.158970 01	-0.205200 00	-0.991940-01	0.406620 01
QCTRIPO	PREFFISH	PREFHUNT	PREFPICC	PREFSWIM	BOATNOW	CAMPNOW
	-0.740440 00	0.263540 01	-0.182730 01	-0.188640 00	0.955820-01	-0.181980 01
QCTRIPO	FFISHNOW	HUNTNOW	PICNCNOW	SWIMNOW	AGEOHEAD	QSTPHASE
	0.469480 00	-0.658500 00	0.519040 00	0.677420-01	-0.182910 01	0.308560 01
QCTRIPO	OTHERVAC	AVMIRIV1	AVRELIF1	AVRAINF1	AVACHLC1	AVACPWD1
	-0.772760-01	-0.379660 01	0.966680-01	0.377380 00	0.648880-02	-0.792180-01
QCTRIPO	AVACFWL1	AVMABAY1	AVINCMPI1	AVFSHQL1	AVYDFWF1	AVACLSH1
	0.597660 00	-0.212940 00	-0.981860-01	0.186830 01	-0.178440-01	-0.989660-01
QCTRIPO	AVACWMA1	AVINPIC1	AVSPOOL1	AVYDFWS1	AVPOPLN1	AVNDEER1
	0.328260 00	-0.707900-01	-0.337560-01	-0.169760-01	-0.388000 00	0.535760-01
QCTRIPO	AVWFOWL1	AVSQURL1	AVJAVLA1	AVMISHR1	AVFWBOT1	AVSWBOT1
	-0.249280 01	0.292740 01	0.123340 01	-0.255260 00	-0.422660-01	-0.401200-01
QCTRIPO	AVMASHR1	AVSWCMP1	AVSWPIC1	AVUBIRD1	AVMIRIV2	AVRELIF2
	0.150190 01	-0.558380 00	0.657660-01	-0.102170 01	0.328000-01	0.235860-03
QCTRIPO	AVRAINF2	AVACHLC2	AVACPWD2	AVACFWL2	AVMABAY2	AVINCMPI2
	0.543120-03	0.244940-03	-0.580960-03	0.162740-01	-0.622920-02	-0.397100-01
QCTRIPO	AVFSHQL2	AVYDFWF2	AVACLSH2	AVACWMA2	AVINPIC2	AVSPOOL2
	-0.457520-02	-0.195490-01	-0.567540-02	-0.614540-02	-0.157750-01	0.220720-02
QCTRIPO	AVYDFWS2	AVPOPLN2	AVNDEER2	AVWFOWL2	AVSQURL2	AVJAVLA2
	-0.451600-02	0.151750-01	0.128270 00	0.961140-01	-0.634140-01	0.252440-01

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QFTRIPON	-0.30474D	01	0.59260D	01	0.16766D	01	0.18844D	01	0.11487D	01	0.10694D	01
QFTRIPON	HHRACE	FAMLYSZE	HR/WKIND	HR/WKOUT	RECINVS	NACTNOW						
QFTRIPON	0.10269D	01	0.43732D	01	0.20716D	00	0.57552D	00	0.40606D	00	0.34072D	00
QFTRIPON	NACTPAST	QWNBOATE	QWNCAMPE	QWNHUNTE	PREFBOAT	PREFCAMP						
QFTRIPON	0.17289D	00	0.31293D	01	0.16445D	01	0.20646D	00	0.11044D	00	0.42054D	01
QFTRIPON	PREFFISH	PREFHUNT	PREFPICC	PREFSWIM	BOATNOW	CAMPNOW						
QFTRIPON	-0.83988D	00	0.26494D	01	0.18570D	01	0.19193D	00	0.99016D	01	0.18833D	01
QFTRIPON	FFISHNOW	HUNTNOW	PICNCNOW	SWIMNOW	AGEDHEAD	QSTPHASE						
QFTRIPON	0.50530D	00	0.66190D	00	0.52724D	00	0.66224D	01	0.18396D	01	0.30792D	01
QFTRIPON	OTHERVAC	AVMIRIV1	AVRELIF1	AVRAINF1	AVACHLC1	AVACPWD1						
QFTRIPON	-0.77276D	01	0.38330D	01	0.96688D	01	0.37738D	00	0.64888D	02	0.79218D	01
QFTRIPON	AVACFWL1	AVMABAY1	AVINCMP1	AVFSHQL1	AVYDFWF1	AVACLSH1						
QFTRIPON	0.61636D	00	0.21374D	00	0.10148D	00	0.18914D	01	0.20472D	01	0.99466D	01
QFTRIPON	AVACWMA1	AVINPIC1	AVSPOOL1	AVYDFWS1	AVPOPLN1	AVNDEER1						
QFTRIPON	0.32992D	00	0.71954D	01	0.34288D	01	0.17243D	01	0.38854D	00	0.53846D	01
QFTRIPON	AVWFOWL1	AVSQURL1	AVJAVLA1	AVMISHR1	AVFWBOT1	AVSWBOT1						
QFTRIPON	-0.25054D	01	0.29422D	01	0.12397D	01	0.25520D	00	0.44750D	01	0.42478D	01
QFTRIPON	AVMASHR1	AVSWCMP1	AVSWPIC1	AVUBIRD1	AVMIRIV2	AVRELIF2						
QFTRIPON	0.15092D	01	0.57714D	00	0.66846D	01	0.10269D	01	0.32800D	01	0.23586D	03
QFTRIPON	AVRAINF2	AVACHLC2	AVACPWD2	AVACFWL2	AVMABAY2	AVINCMP2						
QFTRIPON	0.54312D	03	0.24494D	03	0.58096D	03	0.16274D	01	0.62292D	02	0.39710D	01
QFTRIPON	AVFSHQL2	AVYDFWF2	AVACLSH2	AVACWMA2	AVINPIC2	AVSPOOL2						
QFTRIPON	-0.45752D	02	0.19549D	01	0.56754D	02	0.61454D	02	0.15775D	01	0.22072D	02
QFTRIPON	AVYDFWS2	AVPOPLN2	AVNDEER2	AVWFOWL2	AVSQURL2	AVJAVLA2						
QFTRIPON	-0.45160D	02	0.15175D	01	0.12827D	00	0.96114D	01	0.63414D	01	0.25244D	01
QFTRIPON	AVMISHR2	AVFWBOT2	AVSWBOT2	AVMASHR2	AVSWCMP2	AVSWPIC2						
QFTRIPON	0.68258D	04	0.12228D	01	0.45336D	02	0.14115D	01	0.27012D	01	0.66336D	02
QFTRIPON	AVUBIRD2								J	E	J	O'B
QFTRIPON	-0.24986D	00	0.20562D	05	0.11571D	05	0.18105D	06	0.73171D	06	0.30413D	06
QHTRIPON	CONSTANT	OTHERTRP	HHINCOME	HRWRK/WK	ERNDVACN	EMPLSTAT						
QHTRIPON	-0.50041D	01	0.60006D	01	0.17779D	01	0.19983D	01	0.11487D	01	0.11946D	01
QHTRIPON	HHRACE	FAMLYSZE	HR/WKIND	HR/WKOUT	RECINVS	NACTNOW						
QHTRIPON	0.44206D	02	0.43314D	01	0.21064D	00	0.59940D	00	0.42268D	00	0.34072D	00
QHTRIPON	NACTPAST	QWNBOATE	QWNCAMPE	QWNHUNTE	PREFBOAT	PREFCAMP						
QHTRIPON	0.17289D	00	0.41310D	01	0.18422D	01	0.23476D	00	0.15150D	00	0.47064D	01
QHTRIPON	PREFFISH	PREFHUNT	PREFPICC	PREFSWIM	BOATNOW	CAMPNOW						
QHTRIPON	-0.79958D	00	0.29448D	01	0.21402D	01	0.34388D	00	0.11027D	00	0.21118D	01
QHTRIPON	FFISHNOW	HUNTNOW	PICNCNOW	SWIMNOW	AGEDHEAD	QSTPHASE						

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QHTRIPON C.48445 C. .75372D 00 0.65526D 00 C.10276D 00-0.20252D G1 0.34332D 01
 J THERVAC AVNIRIV1 AVRELIF1 AVRAINF1 AVACHLC1 AVACPWD1
 QHTRIPON -C.77276D-01- .37214D 01 C.94668D-01 C.37738D 00 0.64888D-02-C.79218D-01
 AVACFWL1 AVMABAY1 AVINCMP1 AVFSQL1 AVYDFWF1 AVACLSH1
 QHTRIPON C.56772D 00-0.24302D 00-0.11336D 00 0.18569D 01-0.19529D-01-0.11295D 00
 AVACWMA1 AVINPIC1 AVSPOOL1 AVYDFWS1 AVPOPLN1 AVNDEER1
 QHTRIPON C.37464D 00-0.93543D-01-0.54364D-01-0.29350D-01-0.40342D 00-C.65632D-01
 AVWFOWL1 AVSOURL1 AVJAVLA1 AVMISHR1 AVFWBOT1 AVSWBOT1
 QHTRIPON -C.27736D 01 0.32572D 01 C.13724D 01-0.25520D 00-0.53810D-01-0.51078D-01
 AVMASHR1 AVSWCMP1 AVSWPIC1 AVUBIRD1 AVMIRIV2 AVRELIF2
 QHTRIPON 0.15073D 01-0.64468D 00 0.77154D-01-C.11368D 01 0.32800D-01 0.23586D-03
 AVRAINF2 AVACHLC2 AVACPWD2 AVACFWL2 AVMABAY2 AVINCMP2
 QHTRIPON 0.54312D-03 0.24494D-03-0.58096D-03 0.16274D-01-0.62292D-02-0.39710D-01
 AVFSQL2 AVYDFWF2 AVACLSH2 AVACWMA2 AVINPIC2 AVSPOOL2
 QHTRIPON -0.45752D-02-0.19549D-01-0.56754D-02-0.61454D-02-0.15775D-01 0.22072D-02
 AVYDFWS2 AVPOPLN2 AVNDEER2 AVWFOWL2 AVSOURL2 AVJAVLA2
 QHTRIPON -0.45160D-02 0.15175D-01 0.12827D 00 0.96114D-01-0.63414D-01 C.25244D-01
 AVMISHR2 AVFWBOT2 AVSWBOT2 AVMASHR2 AVSWCMP2 AVSWPIC2
 QHTRIPON 0.68258D-04 C.12228D-01 C.45336D-02 0.14115D-01 0.27012D-01-0.66336D-02
 AVUBIRD2 J E J O B
 QHTRIPON -C.24986D 00 0.55887D 04 C.26308D 04 0.39493D 05 0.18734D 06 C.84720D 05
 CONSTANT OTHERTRP HHINCOME HRWRK/HK ERNDVACN EMPLSTAT
 QPTRIPON -0.42203D 01 0.59798D 01 0.17146D 01 0.19507D 01-0.11487D-01 C.11719D 01
 HHRACE FAMLYSZE HR/WKIND HR/WKOUT RECINVT NACTNOW
 QPTRIPON C.10227D-01-0.44200D 01-0.21864D 00 0.60352D 00 0.41636D 00 0.34072D 00
 NACTPAST OWNBOATE OWNCAMPE OWNHUNTE PREFBOAT PREFCAMP
 QPTRIPON 0.17299D 00 0.67698D-02-C.17182D 01-0.20898D 00-0.24610D-01 0.43924D 01
 PREFFISH PREFHUNT PREFPICC PREFSWIM BOATNOW CAMPNOW
 QPTRIPON -0.75258D 00 0.26770D 01-0.20784D 01-0.11519D 00 0.80542D-01-0.19695D 01
 FFISHNOW HUNTNOW PICNCNOW SWIMNOW AGEUHEAD QSTPHASE
 QPTRIPON C.47436D 00-0.65868D 00 0.58844D 00 0.51694D-01-0.18553D 01 C.31972D 01
 J THERVAC AVMIRIV1 AVRELIF1 AVRAINF1 AVACHLC1 AVACPWD1
 QPTRIPON -C.77276D-01-0.38838D 01 C.96668D-01 C.37738D 00 0.64888D-02-C.79218D-01
 AVACFWL1 AVMABAY1 AVINCMP1 AVFSQL1 AVYDFWF1 AVACLSH1
 QPTRIPON C.61672D 00-0.21774D 00-0.10592D 00 C.18978D 01-0.18155D-01-C.10046D 00
 AVACWMA1 AVINPIC1 AVSPOOL1 AVYDFWS1 AVPOPLN1 AVNDEER1
 QPTRIPON C.23322D 00-0.90612D-01-0.21886D-01-0.11006D-01-0.38964D 00 C.54386D-01
 AVWFOWL1 AVSOURL1 AVJAVLA1 AVMISHR1 AVFWBOT1 AVSWBOT1
 QPTRIPON -C.25540 01 0.29716D 01 0.12521D 01-0.25520D 00-0.25806D-01-0.24496D-01
 AVACFWL1 AVSWCMP1 AVSWPIC1 AVUBIRD1 AVMIRIV2 AVRELIF2
 QPTRIPON .15175D 01-0.64468D 00 0.77154D-01-0.11368D 01 0.32800D-01 0.23586D-03

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	QPTRIPON	-0.457520-02-0.151750-01-0.567540-02-0.614540-02-0.157750-01 0.220720-02
	QPTRIPON	AVYDFWS2 AVPOPLN2 AVNDEER2 AVWFOWL2 AVSQURL2 AVJAVLA2 -0.451600-02 0.151750-01 0.128270 00 0.961140-01-0.634140-01 0.252440-01
	QPTRIPON	AVMISHR2 AVFWBOT2 AVSWBOT2 AVMASHR2 AVSWCMP2 AVSWPIC2 0.682580-04 0.122280-01 0.453360-02 0.141150-01 0.270120-01-0.663360-02
	QPTRIPON	AVUBIRD2 -0.249860 00 0.918640 04 0.616640 04 0.944930 05 0.418570 06 0.155470 06 J E J O B
	QSTRIPON	CONSTANT OTHERTRP HHINCOME HRWRK/WK ERNDVACN EMPLSTAT -0.347260 01 0.590660 01 0.165300 01 0.186100 01-0.114870-01 0.107800 01
	QSTRIPON	HHRACE FAMLYSZE HR/WKIND HR/WKOUT RECINVST NACTNOW 0.957460-02-0.441980 01-0.222560 00 0.575240 00 0.402960 00 0.340720 00
	QSTRIPON	NACTPAST OWNBOATE OWNCAMPE OWNHUNTE PREFBOAT PREFCAMP 0.172890 00 0.172750-01-0.165230 01-0.202300 00-0.625740-01 0.422560 01
	QSTRIPON	PREFFISH PREFHUNT PREFPICC PREFSWIM BOATNOW CAMPNOW -0.660880 00 0.260380 01-0.188330 01-0.290880 00 0.877020-01-0.189410 01
	QSTRIPON	FFISHNOW HUNTNOW PICCNOW SWIMNOW AGEHEAD QSTPHASE 0.437590 00-0.650700 00 0.534480 00 0.917800-01-0.181670 01 0.314240 01
	QSTRIPON	OTHERVAC AVMIRIV1 AVRELIF1 AVRAINF1 AVACHLC1 AVACPWD1 -0.772760-01-0.371840 01 0.966680-01 0.377380 00 0.648880-02-0.792180-01
	QSTRIPON	AVACFWL1 AVMABAY1 AVINCMP1 AVFSHQL1 AVYDFWF1 AVACLSH1 0.559540 00-0.211120 00-0.101960 00 0.183750 01-0.158030-01-0.978220-01
	QSTRIPON	AVACWMA1 AVINPIC1 AVSPODL1 AVYDFWS1 AVPOPLN1 AVNDEER1 0.324480 00-0.729820-01-0.502840-01-0.252880-01-0.386740 00 0.529580-01
	QSTRIPON	AVWFOWL1 AVSQURL1 AVJAVLA1 AVMISHR1 AVFWBOT1 AVSWBOT1 -0.246400 01 0.289360 01 0.121920 01-0.255200 00-0.341840-01-0.324480-01
	QSTRIPON	AVMASHR1 AVSWCMP1 AVSWPIC1 AVUBIRD1 AVMIRIV2 AVRELIF2 0.149930 01-0.579880 00 0.678040-01-0.100990 01 0.328000-01 0.235860-03
20	QSTRIPON	AVRAINF2 AVACHLC2 AVACPWD2 AVACFWL2 AVMABAY2 AVINCMP2 0.543120-03 0.244940-03-0.580960-03 0.162740-01-0.622920-02-0.397100-01
19	QSTRIPON	AVFSHQL2 AVYDFWF2 AVACLSH2 AVACWMA2 AVINPIC2 AVSPODL2 -0.457520-02-0.195400-01-0.567540-02-0.614540-02-0.157750-01 0.220720-02
18	QSTRIPON	AVYDFWS2 AVPOPLN2 AVNDEER2 AVWFOWL2 AVSQURL2 AVJAVLA2 -0.451600-02 0.151750-01 0.128270 00 0.961140-01-0.634140-01 0.252440-01
17	QSTRIPON	AVMISHR2 AVFWBOT2 AVSWBOT2 AVMASHR2 AVSWCMP2 AVSWPIC2 0.682580-04 0.122280-01 0.453360-02 0.141150-01 0.270120-01-0.663360-02
16	QSTRIPON	AVUBIRD2 -0.249860 00 0.918640 04 0.616640 04 0.944930 05 0.418570 06 0.155470 06 J E J O B
15	QSTRIPON	CONSTANT OTHERTRP HHINCOME HRWRK/WK ERNDVACN EMPLSTAT -0.347260 01 0.590660 01 0.165300 01 0.186100 01-0.114870-01 0.107800 01
14	QSTRIPON	HHRACE FAMLYSZE HR/WKIND HR/WKOUT RECINVST NACTNOW 0.957460-02-0.441980 01-0.222560 00 0.575240 00 0.402960 00 0.340720 00
13	QSTRIPON	NACTPAST OWNBOATE OWNCAMPE OWNHUNTE PREFBOAT PREFCAMP 0.172890 00 0.172750-01-0.165230 01-0.202300 00-0.625740-01 0.422560 01
12	QSTRIPON	PREFFISH PREFHUNT PREFPICC PREFSWIM BOATNOW CAMPNOW -0.660880 00 0.260380 01-0.188330 01-0.290880 00 0.877020-01-0.189410 01
11	QSTRIPON	FFISHNOW HUNTNOW PICCNOW SWIMNOW AGEHEAD QSTPHASE 0.437590 00-0.650700 00 0.534480 00 0.917800-01-0.181670 01 0.314240 01
10	QSTRIPON	OTHERVAC AVMIRIV1 AVRELIF1 AVRAINF1 AVACHLC1 AVACPWD1 -0.772760-01-0.371840 01 0.966680-01 0.377380 00 0.648880-02-0.792180-01
9	QSTRIPON	AVACFWL1 AVMABAY1 AVINCMP1 AVFSHQL1 AVYDFWF1 AVACLSH1 0.559540 00-0.211120 00-0.101960 00 0.183750 01-0.158030-01-0.978220-01
8	QSTRIPON	AVACWMA1 AVINPIC1 AVSPODL1 AVYDFWS1 AVPOPLN1 AVNDEER1 0.324480 00-0.729820-01-0.502840-01-0.252880-01-0.386740 00 0.529580-01
7	QSTRIPON	AVWFOWL1 AVSQURL1 AVJAVLA1 AVMISHR1 AVFWBOT1 AVSWBOT1 -0.246400 01 0.289360 01 0.121920 01-0.255200 00-0.341840-01-0.324480-01
6	QSTRIPON	AVMASHR1 AVSWCMP1 AVSWPIC1 AVUBIRD1 AVMIRIV2 AVRELIF2 0.149930 01-0.579880 00 0.678040-01-0.100990 01 0.328000-01 0.235860-03
5	QSTRIPON	AVRAINF2 AVACHLC2 AVACPWD2 AVACFWL2 AVMABAY2 AVINCMP2 0.543120-03 0.244940-03-0.580960-03 0.162740-01-0.622920-02-0.397100-01
4	QSTRIPON	AVFSHQL2 AVYDFWF2 AVACLSH2 AVACWMA2 AVINPIC2 AVSPODL2 -0.457520-02-0.195400-01-0.567540-02-0.614540-02-0.157750-01 0.220720-02
3	QSTRIPON	AVYDFWS2 AVPOPLN2 AVNDEER2 AVWFOWL2 AVSQURL2 AVJAVLA2 -0.451600-02 0.151750-01 0.128270 00 0.961140-01-0.634140-01 0.252440-01
2	QSTRIPON	AVMISHR2 AVFWBOT2 AVSWBOT2 AVMASHR2 AVSWCMP2 AVSWPIC2 0.682580-04 0.122280-01 0.453360-02 0.141150-01 0.270120-01-0.663360-02
1	QSTRIPON	AVUBIRD2 -0.249860 00 0.918640 04 0.616640 04 0.944930 05 0.418570 06 0.155470 06 J E J O B
	QSTRIPON	CONSTANT OTHERTRP HHINCOME HRWRK/WK ERNDVACN EMPLSTAT -0.347260 01 0.590660 01 0.165300 01 0.186100 01-0.114870-01 0.107800 01

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QBACATN 0.353730 C1-0.347480-01-0.255780-C1-C.108210-01-C.498320-01-0.194610 00

QBACATN HHRACE FAMLYSZE HR/WKIND HR/WKOUT RECINVST NACTNOW
0.972400-C1-C.977940 G0 0.256100-01 0.266360-01 0.449800-02-C.536200-02

QBACATN NACTPAST OWNBOATE OWNCAMPE OWNHUNTE PREFBOAT PREFCAMP
-0.349820-03 0.958760-01-0.345660 00-0.251900 00-0.468860 00 0.493880 00

QBACATN PREFFISH PREFHUNT PREFPICC PREFSWIM BOATNOW CAMPNOW
-0.215800 00 0.613240 00-0.817820-01-0.157640-01 0.431940-01-0.112330 00

QBACATN FFISHNOW HUNTNOW PICNCNOW SWIMNOW AGEDHEAD QSTPHASE
0.522660-01-C.846120-01 C.252120-01 0.536900-02-C.357260 00-0.179600-01

QBACATN UOTHERVAC AVMIRIV1 AVRELIF1 AVRAINF1 AVACHLC1 AVACPWD1
0.612740 00 0.217220-01-0.570700-03-0.222800-02-0.383080-04 0.467680-03

QBACATN AVACFWL1 AVMABAY1 AVINCMP1 AVFSQL1 AVYDFW1 AVACLSH1
-0.339620-02 0.121640-02 0.582400-03-0.107040-01 0.104480-03 0.566240-03

QBACATN AVACWMA1 AVINPIC1 AVSPOOL1 AVYDFS1 AVPOPLN1 AVNDEER1
-0.187820-02 0.421560-03 0.224640-03 0.112970-03 0.227080-02-0.306540-03

QBACATN AVWFOWL1 AVSQURL1 AVJAVLA1 AVMISHR1 AVFWBOT1 AVSWBOT1
0.142620-01-0.167490-01-0.705720-02 0.150660-02 0.257000-03 0.243940-03

QBACATN AVMASHR1 AVSWCMP1 AVSWPIC1 AVUBIRD1 AVMIRIV2 AVRELIF2
-0.862300-02 0.331220-02-0.391640-03 0.584560-02-0.554120-01 0.906180-03

QBACATN AVRAINF2 AVACHLC2 AVACPWD2 AVACFWL2 AVMABAY2 AVINCMP2
0.208660-02 0.941040-03-0.223200-02-0.140930 00 0.337880-01 0.272140 00

QBACATN AVFSQL2 AVYDFW2 AVACLSH2 AVACWMA2 AVINPIC2 AVSPOOL2
0.874200-01 0.564100-01 0.319700-01 0.346160-01 0.784440-01-0.187370-02

QBACATN AVYDFS2 AVPOPLN2 AVNDEER2 AVWFOWL2 AVSQURL2 AVJAVLA2
0.383360-02-C.254320-01-0.722540 00-0.541400 00 0.357200 00-0.142200 00

QBACATN AVMISHR2 AVFWBOT2 AVSWBOT2 AVMASHR2 AVSWCMP2 AVSWPIC2
0.262240-03-0.622600-01-0.230840-01-0.119730 00-0.185120 00 0.329880-01

QBACATN AVUBIRD2 J G J O B
0.140750 01 0.348190 05 0.672680 04 0.187150 05 0.603410 05 0.243760 05

QBACATN CONSTANT OTHERTRP HHINCOME HRWRK/WK ERNOVACN EMLSTAT
-0.107190 C1-C.347480-01 0.101190-02-0.108210-01-C.453100-01 0.132090 00

QBACATN HHRACE FAMLYSZE HR/WKIND HR/WKOUT RECINVST NACTNOW
-0.184770 00 C.956720-01 0.281000-01-0.926900-01-0.804040-02-0.536200-02

QBACATN NACTPAST OWNBOATE OWNCAMPE OWNHUNTE PREFBOAT PREFCAMP
-0.349820-03-C.101310 00 0.278280 00 0.194120 00 0.490220 00-0.416300 00

QBACATN PREFFISH PREFHUNT PREFPICC PREFSWIM BOATNOW CAMPNOW
0.407840 00-0.494120 00 0.111150 00 0.110650 00-0.449760-01 0.104070 00

QBACATN FFISHNOW HUNTNOW PICNCNOW SWIMNOW AGEDHEAD QSTPHASE
-0.995600-01 0.711430-01-C.340540-01-0.214600-01 0.320520 00-0.179600-01

QCVACATN	-C.339620-02	0.121640-02	0.582400-03	0.107040-01	0.104480-03	0.566240-03
QCVACATN	AVACWMA1	AVINPIC1	AVSPOOL1	AVYDFWS1	AVPOPLN1	AVNDEER1
	-0.187820-02	0.421560-03	0.224640-03	0.112970-03	0.227080-02	0.306540-03
QCVACATN	AVWFOWL1	AVSQURL1	AVJAVLA1	AVMISHR1	AVFWBOT1	AVSWBOT1
	0.142620-01	0.167490-01	0.705720-02	0.150660-02	0.257000-03	0.243940-03
QCVACATN	AVMASHR1	AVSWCMP1	AVSWPIC1	AVUBIRD1	AVMIRIV2	AVRELIF2
	-0.862300-02	0.331220-02	0.391640-03	0.584560-02	0.163480-00	0.906180-03
QCVACATN	AVRAINF2	AVACHLC2	AVACPWD2	AVACFWL2	AVMABAY2	AVINCMP2
	0.208660-02	0.941040-03	0.223200-02	0.768320-01	0.291920-01	0.205640-00
QCVACATN	AVFSHQL2	AVYDFWF2	AVACLSH2	AVACWMA2	AVINPIC2	AVSPOOL2
	0.433760-02	0.104050-00	0.243160-01	0.263300-01	0.837720-01	0.119350-01
QCVACATN	AVYDFWS2	AVPOPLN2	AVNDEER2	AVWFOWL2	AVSQURL2	AVJAVLA2
	-0.244180-01	0.650160-01	0.549580-00	0.411800-00	0.271700-00	0.108160-00
QCVACATN	AVMISHR2	AVFWBOT2	AVSWBOT2	AVMASHR2	AVSWCMP2	AVSWPIC2
	0.262240-03	0.647800-01	0.240180-01	0.518660-01	0.139880-00	0.352280-01
QCVACATN	AVUBIRD2				J 8 J 0 B	
	-0.107060-01	0.147680-06	0.220630-05	0.418750-05	0.891830-05	0.709430-05
QFVACATN	CONSTANT	OTHERTRP	HHINCOME	HRWRK/WK	ERNDVACN	EMPLSTAT
	0.232840-01	0.347480-01	0.249660-01	0.108210-01	0.164120-01	0.376200-01
QFVACATN	HRRACE	FAMLYSZE	HR/WKIND	HR/WKOUT	RECINVST	NACTNOW
	0.618380-01	0.202060-00	0.420860-02	0.158710-01	0.319600-03	0.536200-02
QFVACATN	NACTPAST	OWNBOATE	OWNCAMPE	OWNHUNTE	PREFBOAT	PREFCAMP
	-0.349820-03	0.570000-02	0.547260-01	0.388560-01	0.305480-01	0.694620-01
QFVACATN	PREFFISH	PREFHUNT	PREFPICC	PREFSWIM	BOATNOW	CAMPNOW
	-0.129880-00	0.843060-01	0.496620-02	0.412660-01	0.289440-02	0.115710-01
QFVACATN	FISHNOW	HUNTNOW	PICCNOW	SWIMNOW	AGEHEAD	QSTPHASE
	0.282490-01	0.102120-01	0.133710-02	0.767280-02	0.390600-01	0.179600-01
QFVACATN	OTHERVAC	AVMIRIV1	AVRELIF1	AVRAINF1	AVACHLC1	AVACPWD1
	0.785290-01	0.217200-01	0.570700-03	0.222800-02	0.393080-04	0.467680-03
QFVACATN	AVACFWL1	AVMABAY1	AVINCMP1	AVFSHQL1	AVYDFWF1	AVACLSH1
	-0.339620-02	0.121640-02	0.582400-03	0.107040-01	0.104480-03	0.566240-03
QFVACATN	AVACWMA1	AVINPIC1	AVSPOOL1	AVYDFWS1	AVPOPLN1	AVNDEER1
	-0.137320-02	0.421560-03	0.224640-03	0.112970-03	0.227080-02	0.306540-03
QFVACATN	AVWFOWL1	AVSQURL1	AVJAVLA1	AVMISHR1	AVFWBOT1	AVSWBOT1
	0.142620-01	0.167490-01	0.705720-02	0.150660-02	0.257000-03	0.243940-03
QFVACATN	AVMASHR1	AVSWCMP1	AVSWPIC1	AVUBIRD1	AVMIRIV2	AVRELIF2
	-0.862300-02	0.331220-02	0.391640-03	0.584560-02	0.163480-01	0.906180-03
QFVACATN	AVRAINF2	AVACHLC2	AVACPWD2	AVACFWL2	AVMABAY2	AVINCMP2
	0.208660-02	0.941040-03	0.223200-02	0.768320-01	0.291920-01	0.205640-00
QFVACATN	AVFSHQL2	AVYDFWF2	AVACLSH2	AVACWMA2	AVINPIC2	AVSPOOL2
	0.433760-02	0.104050-00	0.243160-01	0.263300-01	0.837720-01	0.119350-01

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QFVACATN -0.155700-01 -0.347700-01 0.508420-02 0.550500-02 0.524100-02 0.435560-02
AVYDFWS2 AVPOPLN2 AVNDEER2 AVWFOWL2 AVSQURL2 AVJAVLA2
QFVACATN -0.391180-02-0.135540-01-0.114910 00-0.861000-01 0.568060-01-0.226140-01
AVMISHR2 AVFWBOT2 AVSWBOT2 AVMASHR2 AVSWCMP2 AVSWPIC2
QFVACATN 0.262240-03-0.420040-02-0.155740-02-0.363620-01-0.335760-01 0.220400-02
AVUBIRD2 J E J O B
QFVACATN 0.223840 00 0.719380 05 0.160430 05 0.407520 05 0.102740 06 0.568100 05
CONSTANT OTHERTRP HHINCOME HRWRK/WK ERNDVACN EMPLSTAT
QHVACATN 0.103340 02-0.347480-01-0.325440 00-0.108210-01 0.908000-01-0.584580 00
HHRACE FAMLYSZE HR/WKIND HR/WKOUT RECINYST NACTNOW
QHVACATN 0.871440 00-0.374160 00-0.115450 00 0.436340 00 0.209460-01-0.536200-02
NACTPAST OWNBOATE OWNCAMPE OWNHUNTE PREFBOAT PREFCAMP
QHVACATN -0.349820-03 0.476340 00-0.124230 01-0.109430 01-0.230060 01 0.180170 01
PREFFISH PREFHUNT PREFPICC PREFSWIM BOATNOW CAMPNOW
QHVACATN -0.189450 01 0.270320 01-0.461080 00-0.517160 00 0.206780 00-0.424480 00
FFISHNOW HUNTNOW PICNCNOW SWIMNOW AGEHEAD QSTPHASE
QHVACATN 0.435760 00-0.392020 00 0.142710 00 0.979820-01-0.145290 01-0.179600-01
OTHERVAC AVMIRIV1 AVRELIF1 AVRINF1 AVACHLC1 AVACPWD1
QHVACATN 0.147230 01 0.217220-01-0.570700-03-0.222800-02-0.383080-04 0.467680-03
AVACFWL1 AVMABAY1 AVINCMP1 AVFSQL1 AVYDFW1 AVACLSH1
QHVACATN -0.339620-02 0.121640-02 0.582400-03-0.107040-01 0.104480-03 0.566240-03
AVACWMA1 AVINPIC1 AVSPOOL1 AVYDFWS1 AVPOPLN1 AVNDEER1
QHVACATN -0.187820-02 0.421560-03 0.224640-03 0.112970-03 0.227080-02-0.306540-03
AVWFOWL1 AVSQURL1 AVJAVLA1 AVMISHR1 AVFWBOT1 AVSWBOT1
QHVACATN 0.142620-01-0.167490-01-0.705720-02 0.150660-02 0.257000-03 0.243940-03
AVMASHR1 AVSWCMP1 AVSWPIC1 AVUBIRD1 AVMIRIV2 AVRELIF2
QHVACATN -0.862300-02 0.331220-02-0.391640-03 0.584560-02-0.687620 00 0.906180-03
AVRAINF2 AVACHLC2 AVACPWD2 AVACFWL2 AVMABAY2 AVINCMP2
QHVACATN 0.208660-02 0.941040-03-0.223200-02-0.335540 00 0.154790 00 0.958680 00
AVFSQL2 AVYDFW2 AVACLSH2 AVACWMA2 AVINPIC2 AVSPOOL2
QHVACATN -0.756100-01 0.490680 00 0.143060 00 0.154900 00 0.394680 00-0.566400-01
AVYDFWS2 AVPOPLN2 AVNDEER2 AVWFOWL2 AVSQURL2 AVJAVLA2
QHVACATN 0.115890 00-0.382280 00-0.307380 01-0.234040 01 0.154420 01-0.614720 00
AVMISHR2 AVFWBOT2 AVSWBOT2 AVMASHR2 AVSWCMP2 AVSWPIC2
QHVACATN 0.262240-03-0.304980 00-0.113050 00-0.199800 00-0.652120 00 0.165970 00
AVUBIRD2 J E J O B
QHVACATN 0.608460 01 0.131230 04 0.549250 03 0.330240 04 0.166300 05 0.112880 04
CONSTANT OTHERTRP HHINCOME HRWRK/WK ERNDVACN EMPLSTAT
QFVACATN 0.185740 01-0.347480-01-0.376260-01-0.108210-01 0.535700-01-0.105960 00
HHRACE FAMLYSZE HR/WKIND HR/WKOUT RECINYST NACTNOW
QHVACATN 0.103340 02-0.347480-01-0.325440 00-0.108210-01 0.908000-01-0.584580 00

QP	NACTPAST	OWNBOATE	OWNCAMPE	OWNHUNTE	PREFBOAT	PREFCAMP
	-0.349820-03	0.388540-02	0.181780-00	0.144880-00	0.279060-01	0.254800-00
QP	PREFFISH	PREFHUNT	PREFPICC	PREFSWIM	BOATNOW	CAMPNOW
	-0.663800-02	0.347540-00	0.899840-01	0.527200-01	0.431300-02	0.550900-01
QP	FFISHNOW	HUNTNOW	PICNCNOW	SWIMNOW	AGEOHEAD	QSTPHASE
	0.263900-02	0.472360-01	0.274820-01	0.786140-02	0.178490-00	0.179600-01
QP	OTHEPVAC	AVMIRIV1	AVRELIF1	AVRAINFI1	AVACHLC1	AVACPWD1
	0.434740-00	0.217220-01	0.570700-03	0.222800-02	0.383080-04	0.467680-03
QP	AVACFWL1	AVMABAY1	AVINCMP1	AVFSHQL1	AVYDFWF1	AVACLSH1
	-0.339620-02	0.121640-02	0.582400-03	0.107040-01	0.104480-03	0.566240-03
QP	AVACWMA1	AVINPIC1	AVSPOOL1	AVYDFWS1	AVPOPLN1	AVNDEER1
	-0.187800-02	0.421560-03	0.224640-03	0.112970-03	0.227080-02	0.306540-03
QP	AVWFOWL1	AVSQURL1	AVJAVLA1	AVMISHR1	AVFWBOT1	AVSWBOT1
	0.142620-01	0.167490-01	0.705720-02	0.150660-02	0.257000-03	0.243940-03
QP	AVMASHR1	AVSWCMP1	AVSWPIC1	AVUBIRD1	AVMIRIV2	AVRELIF2
	-0.862300-02	0.331220-02	0.391640-03	0.584560-02	0.567840-02	0.906180-03
QP	AVRAINFI2	AVACHLC2	AVACPWD2	AVACFWL2	AVMABAY2	AVINCMP2
	0.208660-02	0.941040-03	0.223200-02	0.103360-00	0.130650-01	0.146650-00
QP	AVFSHQL2	AVYDFWF2	AVACLSH2	AVACWMA2	AVINPIC2	AVSPOOL2
	0.843100-01	0.255540-02	0.184630-01	0.199920-01	0.860180-01	0.560680-02
QP	AVYDFWS2	AVPOPLN2	AVNDEER2	AVWFOWL2	AVSQURL2	AVJAVLA2
	-0.114710-01	0.493080-01	0.417300-00	0.312680-00	0.206300-00	0.821240-01
QP	AVMISHR2	AVFWBOT2	AVSWBOT2	AVMASHR2	AVSWCMP2	AVSWPIC2
	0.262240-03	0.385060-02	0.142760-02	0.905760-01	0.997560-01	0.361720-01
QP	AVUBIRD2				J	R
	0.812880-00	0.342610-05	0.793600-04	0.176250-05	0.552760-05	0.179710-05
OS	CONSTANT	OTHERTRP	HHINCOME	HRWRK/WK	ERNVACN	EMPLSTAT
	0.264620-01	0.347480-01	0.396620-01	0.108210-01	0.411920-01	0.716980-01
OS	HHRACE	FAMLYSZE	HR/WKIND	HR/WKOUT	RECINVST	NACTNOW
	-0.489040-03	0.376900-00	0.708380-02	0.350500-02	0.943800-03	0.536200-02
OS	NACTPAST	OWNBOATE	OWNCAMPE	OWNHUNTE	PREFBOAT	PREFCAMP
	-0.349820-03	0.388540-02	0.181780-00	0.144880-00	0.279060-01	0.254800-00
OS	PREFFISH	PREFHUNT	PREFPICC	PREFSWIM	BOATNOW	CAMPNOW
	0.124660-02	0.192220-00	0.269660-02	0.116500-00	0.601980-02	0.368060-01
OS	FFISHNOW	HUNTNOW	PICNCNOW	SWIMNOW	AGEOHEAD	QSTPHASE
	-0.190900-03	0.253900-01	0.131900-02	0.222360-01	0.135900-00	0.179600-01
OS	OTHEPVAC	AVMIRIV1	AVRELIF1	AVRAINFI1	AVACHLC1	AVACPWD1
	0.205640-00	0.217220-01	0.570700-03	0.222800-02	0.383080-04	0.467680-03
OS	AVACFWL1	AVMABAY1	AVINCMP1	AVFSHQL1	AVYDFWF1	AVACLSH1
	-0.339620-02	0.121640-02	0.582400-03	0.107040-01	0.104480-03	0.566240-03
OS	AVACWMA1	AVINPIC1	AVSPOOL1	AVYDFWS1	AVPOPLN1	AVNDEER1
	-0.187800-02	0.421560-03	0.224640-03	0.112970-03	0.227080-02	0.306540-03

OSVACATN -0.18782D-02 0.42154D-03 C.22464D-03 C.11297D-03 C.22708D-02-C.30654D-03
 AVWFOWL1 AVSQJRL1 AVJAVLA1 AVMISHR1 AVFWBOT1 AVSWBOT1
 OSVACATN C.14262D-01-C.14749D-01-C.70572D-02 0.15066D-02 0.25700D-03 0.24394D-03
 AVMASHR1 AVSWCMP1 AVSWPIC1 AVUBIRD1 AVMIRIV2 AVRELIF2
 OSVACATN -C.86230D-02 C.33122D-02-C.39164D-03 0.58456D-02 0.29672D-01 0.90618D-03
 AVRAIN2 AVACHLC2 AVACPWD2 AVACFWL2 AVMABAY2 AVINCMP2
 OSVACATN 0.20866D-02 C.94104D-03-0.22320D-02-0.60062D-01 0.86862D-02 0.10504D 00
 AVFSHQL2 AVYDFWF2 AVACLSH2 AVACHMA2 AVINPIC2 AVSPOOL2
 OSVACATN 0.49394D-01 0.65728D-03 0.10569D-01 0.11444D-01 0.10867D-01-0.12876D-01
 AVYDFWS2 AVPOPLN2 AVNDEER2 AVWFOWL2 AVSQURL2 AVJAVLA2
 OSVACATN 0.26346D-01-0.28212D-01-0.238P8D 00-0.17899D 00 0.11809D 00-0.47012D-01
 AVMISHR2 AVFWBOT2 AVSWBOT2 AVMASHR2 AVSWCMP2 AVSWPIC2
 OSVACATN 0.26224D-03-0.77512D-02-0.28738D-02 C.31246D-02-0.71454D-01 0.45696D-02
 AVUBIRD2 J E J O B
 OSVACATN 0.46532D 00 0.48835D 05 0.10174D 05 0.30960D 05 0.11217D 06 0.37239D 05

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REGIONAL HOUSEHOLD QUANTITY TOTALS - 1968 SURVEY DATA

REGION=	1	2	3	4	5	6	7	8	9	10
	11	12	13	14	15	16	17	18	19	20
	21	22	23	24	25	26	27	28	29	30
	31	32	33	34	35	36	37			
NOTRIPON	0.14275E 06	0.70529E 05	0.44223E 05	0.91251E 05	0.10928E 06	0.47863E 05	0.97226E 05	0.68713E 05	0.70196E 05	0.38788E 06
	0.94430E 06	0.29675E 06	0.44267E 05	0.15156E 06	0.46758E 05	0.42161E 06	0.43334E 05	0.15323E 06	0.70139E 05	0.49856E 05
	0.46833E 05	0.37134E 05	0.20595E 06	0.97958E 05	0.10571E 07	0.41283E 05	0.33047E 06	0.13139E 06	0.12450E 06	0.82572E 04
	0.44186E 05	0.37101E 05	0.32155E 06	0.86382E 05	0.69128E 04	0.11068E 05	0.37097E 05			
QBTRIPON	0.24497E 06	0.98461E 05	0.55727E 05	0.11667E 06	0.11077E 06	0.94729E 05	0.66322E 05	0.84227E 05	0.12254E 06	0.55299E 06
	0.15336E 07	0.37003E 06	0.0	0.17325E 06	0.14690E 06	0.29768E 06	0.11145E 05	0.19637E 06	0.19820E 05	0.30420E 05
	0.14090E 06	0.23486E 05	0.11307E 05	0.18687E 06	0.98332E 06	0.46033E 05	0.23771E 06	0.97467E 05	0.81711E 05	0.74262E 04
	0.81542E 05	0.32561E 05	0.17974E 06	0.77365E 05	0.0	0.11440E 05	0.91137E 04			
QCTRIPON	0.36654E 06	0.17680E 06	0.11419E 06	0.23651E 06	0.21514E 06	0.16730E 06	0.17465E 06	0.17375E 06	0.30858E 06	0.11109E 07
	0.21039E 07	0.10055E 07	0.43348E 05	0.42138E 06	0.11969E 06	0.81306E 06	0.59396E 05	0.44719E 06	0.10438E 06	0.84214E 05
	0.17190E 05	0.93357E 05	0.35966E 06	0.20762E 06	0.24488E 07	0.12379E 06	0.13000E 07	0.21121E 06	0.59666E 06	0.24540E 05
	0.80174E 05	0.84169E 05	0.10575E 07	0.30961E 06	0.0	0.26550E 05	0.64592E 05			
QFTRIPON	0.31100E 06	0.15901E 06	0.82555E 05	0.21926E 06	0.24731E 06	0.14447E 06	0.25944E 06	0.13647E 06	0.23131E 06	0.11671E 07
	0.29397E 07	0.66720E 06	0.59096E 05	0.52622E 06	0.10865E 06	0.10605E 07	0.63129E 05	0.33805E 06	0.10114E 06	0.55112E 05
	0.21785E 06	0.71255E 05	0.39456E 06	0.23414E 06	0.25753E 07	0.12387E 06	0.67430E 05	0.23691E 06	0.30928E 06	0.25588E 05
	0.13328E 06	0.58679E 05	0.59382E 06	0.33170E 06	0.11769E 05	0.21013E 05	0.15180E 06			
QHTRIPON	0.39302E 05	0.46388E 05	0.18470E 05	0.40110E 05	0.10029E 06	0.16761E 05	0.71030E 05	0.21291E 05	0.68037E 05	0.37159E 06
	0.10009E 07	0.74602E 05	0.12815E 05	0.11107E 06	0.17062E 05	0.34619E 06	0.27314E 05	0.96213E 05	0.72906E 05	0.38471E 05
	0.12252E 05	0.13387E 05	0.24736E 06	0.23426E 05	0.96007E 06	0.39994E 05	0.31240E 06	0.20336E 06	0.42214E 05	0.79845E 04
	0.33186E 05	0.37222E 05	0.37391E 06	0.66871E 05	0.23144E 04	0.61363E 04	0.30974E 05			
QPTRIPON	0.18734E 06	0.61383E 05	0.84583E 05	0.16862E 06	0.12593E 06	0.10698E 06	0.10616E 06	0.11830E 06	0.61650E 05	0.56754E 06
	0.89942E 06	0.41687E 06	0.11285E 05	0.27221E 06	0.25601E 05	0.43239E 06	0.26068E 05	0.20771E 06	0.17842E 05	0.85450E 04
	0.55291E 05	0.34233E 05	0.53691E 05	0.14862E 06	0.11862E 07	0.46780E 05	0.25521E 06	0.10682E 06	0.30581E 06	0.64630E 04
	0.0	0.70118E 05	0.49527E 06	0.83133E 05	0.13404E 05	0.16204E 04	0.23158E 05			
QSTRIPON	0.17354E 06	0.82330E 05	0.41057E 05	0.71819E 05	0.11276E 06	0.67465E 05	0.86899E 05	0.27752E 05	0.57088E 05	0.61447E 06
	0.16142E 07	0.48091E 06	0.49994E 04	0.18595E 06	0.55643E 05	0.81176E 06	0.23614E 05	0.15083E 06	0.23087E 05	0.12743E 05
	0.12513E 06	0.29769E 04	0.11046E 06	0.10489E 06	0.13596E 07	0.75802E 05	0.82346E 06	0.13508E 06	0.53938E 05	0.41347E 04
	0.11847E 06	0.54327E 05	0.51620E 06	0.17817E 06	0.13348E 05	0.10393E 05	0.44801E 05			
QOTRIPON	0.94170E 06	0.55930E 06	0.87995E 05	0.35328E 06	0.43753E 06	0.31525E 06	0.19680E 06	0.74029E 05	0.16528E 06	0.25381E 07
	0.55564E 07	0.99816E 06	0.25799E 06	0.32572E 06	0.99440E 05	0.27098E 07	0.25251E 06	0.13459E 07	0.60482E 05	0.11374E 06
	0.13881E 06	0.75111E 05	0.37734E 06	0.15032E 06	0.54793E 07	0.17161E 06	0.12117E 07	0.42449E 06	0.18934E 07	0.31134E 05
	0.34546E 06	0.32965E 05	0.36636E 07	0.39643E 06	0.47351E 05	0.52498E 05	0.17854E 06			
QCOTRIPON	0.30450E 06	0.17255E 06	0.65775E 05	0.20120E 06	0.13006E 06	0.13687E 06	0.13769E 06	0.10942E 06	0.22363E 06	0.85144E 06
	0.13611E 07	0.96527E 06	0.30814E 05	0.38217E 06	0.10189E 06	0.55603E 06	0.47273E 05	0.27163E 06	0.95131E 05	0.64566E 05
	0.17190E 05	0.69762E 05	0.34735E 06	0.14659E 06	0.15656E 07	0.10739E 06	0.69807E 06	0.18483E 06	0.53428E 06	0.22028E 05
	0.80174E 05	0.65099E 05	0.86965E 06	0.23325E 06	0.0	0.26550E 05	0.51266E 05			
QFFTRIPON	0.30855E 06	0.15627E 06	0.81922E 05	0.21597E 06	0.24342E 06	0.14281E 06	0.25944E 06	0.13647E 06	0.23131E 06	0.10962E 07
	0.28488E 07	0.67451E 06	0.59096E 05	0.49754E 06	0.10336E 06	0.59299E 06	0.61939E 05	0.32808E 06	0.10114E 06	0.38496E 05
	0.18998E 06	0.65383E 05	0.27397E 06	0.17294E 06	0.19059E 07	0.11629E 06	0.51709E 06	0.15843E 06	0.30828E 06	0.25589E 05
	0.65225E 05	0.26427E 05	0.41529E 06	0.19727E 06	0.92365E 03	0.17062E 05	0.11928E 06			

QFSTRPON 0.24507E 04 0.92409E 04 0.25345E 04 0.32914E 04 0.38917E 04 0.95583E 04 0.0 0.0 0.33886E 04 0.10320E 06
0.11165E 06 0.73424E 04 0.0 0.28672E 05 0.52850E 04 0.54986E 06 0.11889E 04 0.20804E 05 0.36993E 04 0.16615E 05
0.52677E 05 0.58718E 04 0.13763E 06 0.61192E 05 0.94679E 06 0.15817E 05 0.24590E 06 0.89440E 05 0.33458E 05 0.0
0.11234E 06 0.35662E 05 0.19164E 06 0.15655E 06 0.10845E 05 0.39512E 04 0.38804E 05

NOVACATN 0.54611E 05 0.28237E 05 0.30288E 05 0.41618E 05 0.36959E 05 0.21080E 05 0.34332E 05 0.90971E 04 0.20998E 05 0.73307E 05
0.16464E 06 0.56031E 05 0.14935E 05 0.37219E 05 0.10118E 05 0.58123E 05 0.10375E 05 0.44113E 05 0.16199E 05 0.18195E 05
0.90776E 04 0.46225E 04 0.31211E 05 0.14545E 05 0.19303E 06 0.90904E 04 0.38052E 05 0.22300E 05 0.47160E 05 0.25482E 04
0.59227E 04 0.77982E 04 0.53290E 05 0.15714E 05 0.16327E 04 0.44832E 04 0.70405E 04

QBVCATN 0.14798E 06 0.13430E 06 0.66437E 05 0.14090E 06 0.14225E 06 0.10534E 06 0.97342E 05 0.10301E 05 0.37164E 05 0.15099E 06
0.36931E 06 0.42768E 05 0.30677E 05 0.97813E 05 0.68875E 04 0.14384E 06 0.31645E 05 0.14760E 06 0.84516E 04 0.19130E 05
0.36773E 05 0.45112E 04 0.59743E 05 0.72515E 04 0.49830E 06 0.20758E 05 0.12569E 06 0.66822E 05 0.62909E 05 0.20103E 04
0.43592E 05 0.13362E 05 0.11864E 06 0.0 0.0 0.41327E 04 0.21942E 04

QCVACATN 0.36665E 06 0.22658E 06 0.18964E 06 0.33188E 06 0.22484E 06 0.20226E 06 0.19366E 06 0.50458E 05 0.86644E 05 0.47233E 06
0.10635E 07 0.46107E 06 0.93350E 05 0.17845E 06 0.51571E 05 0.32101E 06 0.57693E 05 0.35557E 06 0.60257E 05 0.62081E 05
0.17918E 05 0.25245E 05 0.22178E 06 0.13918E 06 0.15119E 07 0.66059E 05 0.44500E 06 0.11637E 06 0.33787E 06 0.40017E 04
0.23777E 05 0.83834E 05 0.25053E 06 0.14454E 05 0.0 0.41572E 05 0.18392E 05

QFVACATN 0.35411E 06 0.25723E 06 0.16832E 06 0.31978E 06 0.26701E 06 0.20158E 06 0.23893E 06 0.54850E 05 0.75569E 05 0.42705E 06
0.95063E 06 0.34669E 06 0.23464E 05 0.16483E 06 0.57205E 05 0.31337E 06 0.43851E 05 0.32175E 06 0.45092E 05 0.63811E 05
0.40944E 05 0.19802E 05 0.21352E 06 0.83064E 05 0.14380E 07 0.50929E 05 0.29000E 06 0.15497E 06 0.30299E 06 0.79192E 04
0.35792E 05 0.20315E 05 0.19856E 06 0.79256E 05 0.21729E 04 0.18169E 05 0.26528E 05

QHVCATN 0.39088E 05 0.10567E 05 0.13163E 05 0.10214E 05 0.35685E 05 0.15956E 05 0.19498E 05 0.27329E 04 0.15838E 05 0.51177E 05
0.11819E 06 0.99237E 05 0.90356E 04 0.17303E 05 0.17993E 05 0.34858E 05 0.82175E 04 0.36274E 05 0.63412E 04 0.20411E 04
0.0 0.27435E 04 0.37995E 05 0.0 0.28581E 06 0.48749E 04 0.40752E 05 0.56762E 05 0.44170E 05 0.0
0.23413E 04 0.19979E 05 0.26906E 05 0.13415E 05 0.0 0.26470E 04 0.0

QPVCATN 0.18916E 06 0.90351E 05 0.91826E 05 0.15676E 06 0.12361E 06 0.10555E 06 0.67478E 05 0.14158E 05 0.18266E 05 0.24730E 06
0.38342E 06 0.43727E 05 0.23097E 05 0.10746E 06 0.0 0.20177E 06 0.12720E 05 0.20005E 06 0.16124E 05 0.80329E 04
0.39374E 05 0.90039E 04 0.18737E 05 0.0 0.65313E 06 0.19110E 05 0.61085E 05 0.10070E 06 0.14958E 06 0.24411E 04
0.12138E 05 0.51731E 05 0.13916E 06 0.11965E 05 0.10315E 06 0.16616E 05 0.43470E 04

QSVACATN 0.16110E 06 0.11160E 06 0.56929E 05 0.12025E 06 0.22734E 06 0.85786E 05 0.14243E 06 0.35746E 05 0.77757E 05 0.25753E 06
0.73188E 06 0.19351E 06 0.31942E 05 0.15889E 06 0.78305E 04 0.28978E 06 0.28153E 05 0.17926E 06 0.40909E 05 0.22376E 05
0.25203E 05 0.81617E 04 0.11563E 06 0.94314E 05 0.11175E 07 0.45710E 05 0.32566E 06 0.75002E 05 0.13607E 06 0.82768E 04
0.43985E 05 0.55861E 05 0.25689E 06 0.60287E 05 0.42690E 04 0.32125E 05 0.16653E 05

QQVCATN 0.10664E 07 0.68810E 06 0.23783E 06 0.46260E 06 0.86258E 06 0.34811E 06 0.37984E 06 0.73738E 05 0.21623E 06 0.12429E 07
0.22133E 07 0.86230E 06 0.21763E 06 0.40063E 06 0.78073E 05 0.93438E 06 0.12273E 06 0.12069E 07 0.15011E 06 0.17233E 06
0.14299E 06 0.25297E 05 0.44702E 06 0.30756E 06 0.27450E 07 0.86756E 05 0.54860E 06 0.42083E 06 0.85436E 06 0.25296E 05
0.66946E 05 0.12503E 06 0.86185E 06 0.25285E 06 0.92466E 04 0.11801E 06 0.14032E 06

QCOVACAN 0.27149E 06 0.16966E 06 0.96892E 05 0.26023E 06 0.15903E 06 0.12372E 06 0.13744E 06 0.18455E 05 0.50255E 05 0.36893E 06
0.70190E 06 0.44828E 06 0.79149E 05 0.15281E 06 0.33156E 05 0.26218E 06 0.47797E 05 0.24619E 06 0.39577E 05 0.41835E 05
0.86769E 04 0.25245E 05 0.21390E 06 0.10768E 06 0.12153E 07 0.52035E 05 0.28699E 06 0.83542E 05 0.30025E 06 0.24639E 04
0.23777E 05 0.67282E 05 0.12895E 06 0.99104E 04 0.0 0.41572E 05 0.17558E 05

QFFVACAN 0.33508E 06 0.24030E 06 0.16338E 06 0.31086E 06 0.22978E 06 0.17688E 06 0.23346E 06 0.51592E 05 0.63779E 05 0.36448E 06
0.84713E 06 0.33897E 06 0.17255E 05 0.13101E 06 0.44261E 05 0.17985E 06 0.37538E 05 0.28493E 06 0.37976E 05 0.44425E 05
0.37153E 05 0.15136E 05 0.17262E 06 0.74188E 05 0.10984E 07 0.40567E 05 0.17149E 06 0.15035E 06 0.28727E 06 0.72591E 04
0.24249E 05 0.17084E 05 0.18946E 06 0.49819E 05 0.71711E 03 0.17469E 05 0.19028E 05

QFSVACAN 0.24707E 05 0.25816E 05 0.98465E 04 0.10309E 05 0.40254E 05 0.24888E 05 0.54731E 04 0.32554E 04 0.11790E 05 0.64467E 05
0.12041E 06 0.28045E 05 0.62086E 04 0.34253E 05 0.12945E 05 0.15442E 06 0.65481E 04 0.44732E 05 0.71152E 04 0.19387E 05
0.37911E 04 0.46659E 04 0.53283E 05 0.20017E 05 0.35354E 06 0.11453E 05 0.13089E 06 0.46240E 04 0.27857E 05 0.66000E 03
0.17806E 05 0.33035E 04 0.90541E 04 0.29772E 05 0.14558E 04 0.70918E 03 0.67000E 04

FORECASTED VALUES OF ENDOGENOUS VARIABLES FOR BY REGION FOR 1968

NOTRIPON	0.85832D	05	0.56090D	05	0.10955D	06	0.21065D	06	0.91688D	05	0.14116D	06	0.12966D	06	0.14425D	06	0.14794D	05	0.62155D	06
	0.63963D	06	0.27162D	06	0.29233D	05	0.12051D	06	0.43083D	05	0.33708D	06	0.47367D	05	0.17017D	06	0.73656D	05	0.41244D	05
	0.25859D	06	0.14697D	05	0.17511D	06	0.58378D	05	0.10423D	07	0.23054D	05	0.18398D	06	0.94224D	05	0.12860D	06	0.48553D	05
	0.61562D	05	0.41347D	05	0.36452D	06	0.41193D	05	0.28306D	05	0.54547D	04	0.32194D	05						
NOVACATN	0.24121D	05	0.12779D	05	0.11800D	05	0.20195D	05	0.25324D	05	0.89433D	04	0.22282D	05	0.10064D	05	0.18450D	05	0.63476D	05
	0.13120D	06	0.38309D	05	0.24229D	05	0.49603D	05	0.18076D	05	0.91172D	05	0.10973D	05	0.23138D	05	0.20000D	05	0.28750D	05
	0.14045D	05	0.12223D	05	0.40023D	05	0.35822D	05	0.19884D	06	0.11304D	05	0.43442D	05	0.42773D	05	0.34283D	05	0.21220D	04
	0.23000D	05	0.13406D	05	0.54144D	05	0.40555D	05	0.10557D	05	0.93446D	04	0.14118D	05						
QBTRIPON	0.95267D	05	0.61712D	05	0.12700D	06	0.23427D	06	0.10645D	06	0.15845D	06	0.14636D	06	0.17109D	06	0.17238D	05	0.69138D	06
	0.70860D	06	0.29850D	06	0.32536D	05	0.14158D	06	0.48143D	05	0.36183D	06	0.54322D	05	0.18220D	06	0.85160D	05	0.48335D	05
	0.30362D	06	0.11242D	05	0.19516D	06	0.65830D	05	0.10962D	07	0.24590D	05	0.19299D	06	0.93130D	05	0.13428D	06	0.56509D	05
	0.67510D	05	0.43698D	05	0.36801D	06	0.40854D	05	0.29128D	05	0.49997D	04	0.36159D	05						
QCTRIPON	0.15774D	06	0.10260D	06	0.20251D	06	0.38663D	06	0.17348D	06	0.25985D	06	0.24208D	06	0.27623D	06	0.30130D	05	0.11635D	07
	0.11985D	07	0.51256D	06	0.56918D	05	0.23245D	06	0.83173D	05	0.63193D	06	0.88586D	05	0.31020D	06	0.14016D	06	0.81045D	05
	0.48112D	06	0.21153D	05	0.32989D	06	0.11379D	06	0.19764D	07	0.44199D	05	0.35122D	06	0.18263D	06	0.23110D	06	0.85868D	05
	0.11452D	06	0.78157D	05	0.68362D	06	0.78206D	05	0.52844D	05	0.10044D	05	0.60532D	05						
QFTRIPON	0.18161D	06	0.11948D	06	0.23159D	06	0.44204D	06	0.19883D	06	0.29828D	06	0.27905D	06	0.31590D	06	0.36808D	05	0.13343D	07
	0.13787D	07	0.58819D	06	0.67703D	05	0.27058D	06	0.97118D	05	0.70929D	06	0.10151D	06	0.35181D	06	0.15985D	06	0.94191D	05
	0.56001D	06	0.25038D	05	0.37474D	06	0.12912D	06	0.22076D	07	0.50205D	05	0.39057D	06	0.19969D	06	0.25936D	06	0.99015D	05
	0.13371D	06	0.86827D	05	0.75504D	06	0.87294D	05	0.58467D	05	0.11708D	05	0.68707D	05						
QHTRIPON	0.75457D	05	0.47321D	05	0.96111D	05	0.18968D	06	0.80985D	05	0.12293D	06	0.11223D	06	0.11168D	06	0.15725D	05	0.52023D	06
	0.55380D	06	0.21686D	06	0.28391D	05	0.17017D	06	0.35209D	05	0.28156D	06	0.40009D	05	0.15321D	06	0.64239D	05	0.36792D	05
	0.20735D	06	0.96077D	04	0.14195D	06	0.46887D	05	0.81226D	06	0.18536D	05	0.15303D	06	0.67934D	05	0.13052D	06	0.48101D	05
	0.49501D	05	0.33377D	05	0.28912D	06	0.42608D	05	0.26730D	05	0.65853D	04	0.26226D	05						
QPTRIPON	0.94529D	05	0.61597D	05	0.12616D	06	0.24233D	06	0.10397D	06	0.16412D	06	0.14873D	06	0.17648D	06	0.15628D	05	0.73002D	06
	0.73317D	06	0.31259D	06	0.31598D	05	0.13859D	06	0.48031D	05	0.38441D	06	0.53666D	05	0.19277D	06	0.84282D	05	0.45578D	05
	0.30249D	06	0.70892D	05	0.19928D	06	0.63731D	05	0.11746D	07	0.25035D	05	0.20598D	06	0.10476D	06	0.14344D	06	0.58450D	05
	0.70397D	05	0.46386D	05	0.40912D	06	0.44215D	05	0.32852D	05	0.54858D	04	0.36383D	05						
QSTRIPON	0.12104D	06	0.76915D	05	0.15121D	06	0.28841D	06	0.13309D	06	0.18872D	06	0.18142D	06	0.19661D	06	0.25193D	05	0.85606D	06
	0.90084D	06	0.37338D	06	0.45536D	05	0.17962D	06	0.62843D	05	0.48160D	06	0.66671D	05	0.22919D	06	0.10812D	06	0.64396D	05
	0.36339D	06	0.16846D	05	0.25113D	06	0.90606D	05	0.14606D	07	0.34058D	05	0.27059D	06	0.14217D	06	0.17957D	06	0.66373D	05
	0.89332D	05	0.59365D	05	0.51069D	06	0.64900D	05	0.41047D	05	0.92608D	04	0.48445D	05						
QBVACATN	0.94034D	05	0.45487D	05	0.64712D	05	0.91594D	05	0.90886D	05	0.35709D	05	0.95605D	05	0.47035D	05	0.10165D	06	0.20978D	06
	0.39744D	06	0.11076D	06	0.70542D	05	0.15703D	06	0.39113D	05	0.16190D	06	0.30567D	05	0.60569D	05	0.60950D	05	0.89952D	05
	0.37136D	05	0.24277D	05	0.82353D	05	0.66646D	05	0.29160D	06	0.18706D	05	0.63670D	05	0.45505D	05	0.67390D	05	0.47820D	04
	0.37175D	05	0.16645D	05	0.79455D	05	0.52376D	05	0.16952D	05	0.13011D	05	0.25945D	05						
QCVACATN	0.92773D	05	0.48907D	05	0.41321D	05	0.70499D	05	0.10663D	06	0.33330D	05	0.82733D	05	0.38914D	05	0.71553D	05	0.26065D	06
	0.57158D	06	0.16835D	06	0.11572D	06	0.23855D	06	0.95154D	05	0.50470D	06	0.51274D	05	0.10356D	06	0.91435D	05	0.14090D	06
	0.67929D	05	0.69960D	05	0.20480D	06	0.20936D	06	0.10961D	07	0.64029D	05	0.24893D	06	0.26524D	06	0.17202D	06	0.11204D	05
	0.13081D	06	0.84951D	05	0.29411D	06	0.24976D	06	0.61578D	05	0.54707D	05	0.79190D	05						
QFVACATN	0.17551D	06	0.39087D	05	0.10153D	06	0.15587D	06	0.18024D	06	0.65860D	05	0.17156D	06	0.82511D	05	0.15331D	06	0.40205D	06
	0.78181D	06	0.23697D	06	0.15256D	06	0.30971D	06	0.96569D	05	0.38280D	06	0.65444D	05	0.13044D	06	0.11932D	06	0.17701D	06
	0.79660D	05	0.59343D	05	0.19633D	06	0.16907D	06	0.78180D	06	0.49975D	05	0.17585D	06	0.14626D	06	0.16329D	06	0.10636D	05
	0.10664D	06	0.46632D	05	0.20461D	06	0.14423D	06	0.42685D	05	0.34551D	05	0.65174D	05						

QHVACATN 0.535500 05 0.262320 05 0.466560 05 0.741440 05 0.403610 05 0.232970 05 0.625570 05 0.273680 05 0.599260 05 0.101560 06
 0.163880 06 0.431110 05 0.212970 05 0.443290 05 0.784370 04 0.327530 05 0.981100 04 0.245800 05 0.215650 05 0.245470 05
 0.377970 04 0.370790 04 0.192290 05 0.160780 05 0.622380 05 0.301820 04 0.115430 05 0.721030 04 0.195440 05 0.878280 03
 0.560680 04 0.199040 04 0.204790 05 0.812120 04 0.364900 04 0.229430 04 0.407340 04

QPVACATN 0.932390 05 0.447260 05 0.611180 05 0.891010 05 0.931310 05 0.353930 05 0.943180 05 0.468170 05 0.100670 06 0.222300 06
 0.431760 06 0.118730 06 0.778060 05 0.172950 06 0.460210 05 0.213000 06 0.333190 05 0.670720 05 0.674730 05 0.100150 06
 0.405080 05 0.306420 05 0.983100 05 0.845430 05 0.385010 06 0.239810 05 0.831520 05 0.679670 05 0.813070 05 0.565270 04
 0.483860 05 0.241320 05 0.105020 06 0.761610 05 0.235900 05 0.181290 05 0.331060 05

QSVACATN 0.137130 06 0.551330 05 0.910920 05 0.137890 06 0.145330 06 0.533250 05 0.150860 06 0.741050 05 0.166370 06 0.355540 06
 0.700240 06 0.183220 06 0.127700 06 0.282750 06 0.725760 05 0.324520 06 0.513890 05 0.965830 05 0.110310 06 0.163640 06
 0.664150 05 0.493160 05 0.155400 06 0.135680 06 0.578150 06 0.367940 05 0.131280 06 0.101310 06 0.108830 06 0.792750 04
 0.728950 05 0.354390 05 0.160670 06 0.110450 06 0.351450 05 0.273980 05 0.513360 05

ADJUSTED FORECASTED VALUES OF ENDOGENOUS VARIABLES BY REGION FOR 1968

QBTRIPON	0.640830	05	0.484120	05	0.110770	06	0.216460	06	0.901970	05	0.146400	06	0.135240	06	0.158090	06	0.159280	05	0.633090	06
	0.654750	06	0.275820	06	0.300630	05	0.130820	06	0.444840	05	0.334330	06	0.501930	05	0.167680	06	0.786870	05	0.446620	05
	0.280540	06	0.103880	05	0.180330	06	0.608270	05	0.100080	07	0.227210	05	0.146940	06	0.860520	05	0.781680	04	0.522140	05
	0.623790	05	0.403770	05	0.340040	06	0.377490	05	0.269140	05	0.461970	04	0.334110	05						
QCTRIPO	0.139370	06	0.825190	05	0.146430	06	0.334400	06	0.152300	06	0.238320	06	0.225860	06	0.257720	06	0.281120	05	0.982440	06
	0.107790	07	0.471520	06	0.139660	05	0.216880	06	0.776010	05	0.589590	06	0.826510	05	0.281310	06	0.127760	06	0.756150	05
	0.448890	06	0.197360	05	0.304400	06	0.106170	06	0.183290	07	0.412370	05	0.327690	06	0.170390	06	0.187590	05	0.801150	05
	0.106840	06	0.729200	05	0.637820	06	0.729660	05	0.493030	05	0.937080	04	0.564770	05						
QFTRIPON	0.131810	06	0.942080	05	0.211960	06	0.407760	06	0.165280	06	0.283370	06	0.262450	06	0.282100	06	0.349670	05	0.122320	07
	0.130060	07	0.544250	06	0.443790	04	0.254990	06	0.922620	05	0.673830	06	0.964320	05	0.333880	06	0.151850	06	0.894820	05
	0.532010	06	0.237860	05	0.354580	06	0.122670	06	0.208050	07	0.470270	05	0.359910	06	0.188370	06	0.241460	05	0.940640	05
	0.127020	06	0.824860	05	0.717280	06	0.829290	05	0.555430	05	0.111220	05	0.652710	05						
QHTRIPON	0.460640	05	0.329750	05	0.719030	05	0.162180	06	0.671650	05	0.105110	06	0.959530	05	0.954890	05	0.134450	05	0.420730	06
	0.466400	06	0.158760	06	0.161910	05	0.941930	05	0.301040	05	0.240730	06	0.342070	05	0.130340	06	0.549240	05	0.314570	05
	0.177290	06	0.821460	04	0.121370	06	0.400890	05	0.691710	06	0.158490	05	0.130840	06	0.580830	05	0.278980	05	0.411260	05
	0.423240	05	0.285380	05	0.247200	06	0.364290	05	0.228540	05	0.563050	04	0.224230	05						
QPTRIPON	0.785500	05	0.532690	05	0.992570	05	0.210480	06	0.738860	05	0.153190	06	0.135190	06	0.157760	06	0.146910	05	0.605250	06
	0.667810	06	0.290310	06	0.148510	05	0.130280	06	0.451490	05	0.358460	06	0.504460	05	0.169610	06	0.792250	05	0.428430	05
	0.284340	06	0.102380	05	0.187320	06	0.599070	05	0.105440	07	0.235330	05	0.189940	06	0.932520	05	0.124050	05	0.366470	05
	0.661730	05	0.436020	05	0.384570	06	0.415620	05	0.308810	05	0.515660	04	0.342000	05						
QSTRIPON	0.918100	05	0.372690	05	0.737590	05	0.234480	06	0.974910	05	0.153430	06	0.143800	06	0.159850	06	0.204820	05	0.620810	06
	0.714800	06	0.293240	06	0.370210	05	0.146030	06	0.510910	05	0.391540	06	0.542030	05	0.180550	06	0.879040	05	0.523540	05
	0.295430	06	0.136950	05	0.198250	06	0.736630	05	0.116850	07	0.276890	05	0.220070	06	0.115580	06	0.138690	05	0.361010	05
	0.727890	05	0.462360	05	0.415190	06	0.527640	05	0.333710	05	0.752910	04	0.393860	05						
QBACATN	0.668800	05	0.295290	05	0.579960	05	0.886130	05	0.758150	05	0.372140	05	0.619560	05	0.540430	05	0.833950	05	0.178610	06
	0.322400	06	0.752150	05	0.405270	05	0.134780	06	0.449410	05	0.163890	06	0.221970	05	0.506640	05	0.110650	05	0.943730	05
	0.426690	05	0.278940	05	0.561120	05	0.382880	05	0.237220	06	0.214930	05	0.462350	05	0.505600	05	0.820770	04	0.457700	04
	0.392970	05	0.114750	05	0.311000	05	0.601800	05	0.194770	05	0.149500	05	0.298110	05						
QCVACATN	0.409370	05	0.137640	05	0.185880	05	0.202310	05	0.368620	05	0.275130	05	0.508760	05	0.265170	05	0.626320	05	0.117540	06
	0.310320	06	0.669650	05	0.371820	05	0.800860	05	0.568270	05	0.429470	06	0.426090	05	0.557670	05	0.537950	05	0.100230	06
	0.376330	05	0.775160	05	0.637640	05	0.103690	06	0.785740	06	0.668290	05	0.201070	06	0.250100	06	0.341180	05	0.124140	05
	0.144940	06	0.470630	05	0.279600	06	0.103770	06	0.682290	05	0.356420	05	0.548390	05						
QFVACATN	0.703810	05	0.364210	05	0.715630	05	0.849640	05	0.968390	05	0.625310	05	0.113250	06	0.602760	05	0.145390	06	0.247900	06
	0.572870	06	0.112760	06	0.393640	05	0.243550	06	0.856470	05	0.357890	06	0.467110	05	0.993680	05	0.948950	05	0.131830	05
	0.686040	05	0.546200	05	0.144520	06	0.137860	06	0.526590	06	0.520820	05	0.165390	06	0.795610	05	0.893750	04	0.118810	05
	0.118440	06	0.236850	05	0.163870	06	0.336720	05	0.476790	05	0.160930	05	0.597680	05						
QHVACATN	0.105120	05	0.105520	05	0.536000	05	0.106050	06	0.144170	05	0.144310	05	0.542530	05	0.440350	05	0.616130	05	0.129920	06
	0.180600	06	0.390530	05	0.190430	05	0.656190	05	0.661320	04	0.370480	05	0.105290	05	0.330240	05	0.221100	05	0.394950	06
	0.141270	05	0.596600	04	0.218130	05	0.162160	05	0.869230	05	0.485620	04	0.183500	05	0.112190	05	0.349050	04	0.141320	05
	0.902000	04	0.269660	04	0.329480	05	0.381550	04	0.587120	04	0.369160	04	0.655410	04						
QPVACATN	0.385350	05	0.202880	05	0.332470	05	0.497630	05	0.337050	05	0.309950	05	0.519390	05	0.224340	05	0.187790	05	0.809500	05
	0.329870	06	0.441620	05	0.564910	05	0.130790	06	0.514050	05	0.182250	06	0.338310	05	0.396320	05	0.942090	04	0.186820	05
	0.864220	04	0.342270	05	0.517210	05	0.944340	05	0.232660	06	0.267870	05	0.152320	05	0.244460	05	0.195260	05	0.631410	06
	0.540470	05	0.161730	05	0.885680	05	0.188860	05	0.263500	05	0.107930	05	0.184900	05						

80

00VACAIN 0.89823D 05 0.48602D 05 0.82570D 05 0.15089D 06 0.11772D 06 0.57349D 05 0.13712D 06 0.92780D 05 0.19934D 06 0.30581D 06
0.62684D 06 0.97783D 05 0.35493D 05 0.22833D 06 0.21626D 05 0.34210D 06 0.38025D 05 0.92989D 05 0.11629D 06 0.19504D 06
0.81489D 05 0.38596D 05 0.10370D 06 0.13080D 06 0.52985D 06 0.44039D 05 0.13494D 06 0.10096D 06 0.53823D 05 0.49626D 04
0.79583D 05 0.18103D 05 0.14645D 06 0.11699D 06 0.22001D 05 0.12692D 05 0.64273D 05

18 18

FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1982

82

STATEWIDE TOTAL NQTRIPON = 0.597670 07

STATEWIDE TOTAL NBVACATN = 0.125290 07

STATEWIDE TOTAL QBTRIPON = 0.653440 07

STATEWIDE TOTAL QCTRIPOB = 0.112260 08

STATEWIDE TOTAL QFTRIPON = 0.127540 08

STATEWIDE TOTAL QHTRIPON = 0.500270 07

STATEWIDE TOTAL QPTRIPON = 0.682170 07

STATEWIDE TOTAL QSTRIPON = 0.842980 07

STATEWIDE TOTAL QBVACATN = 0.299800 07

STATEWIDE TOTAL QCVACATN = 0.629420 07

STATEWIDE TOTAL QFVACATN = 0.650630 07

STATEWIDE TOTAL QHVACATN = 0.110180 07

STATEWIDE TOTAL QPVACATN = 0.343870 07

STATEWIDE TOTAL QSVACATN = 0.535420 07

FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1968

83

STATEWIDE TOTAL NOTRIPON = 0.597670 07

STATEWIDE TOTAL NOVACATN = 0.125290 07

STATEWIDE TOTAL QBTRIPON = 0.653440 07

STATEWIDE TOTAL QCTRIPON = 0.112260 08

STATEWIDE TOTAL QFTRIPON = 0.127540 08

STATEWIDE TOTAL QHTRIPON = 0.500270 07

STATEWIDE TOTAL QPTRIPON = 0.682170 07

STATEWIDE TOTAL QSTRIPON = 0.842980 07

STATEWIDE TOTAL QBVACATN = 0.299800 07

STATEWIDE TOTAL QCVACATN = 0.629420 07

STATEWIDE TOTAL QFVACATN = 0.650530 07

STATEWIDE TOTAL QHVACATN = 0.110180 07

STATEWIDE TOTAL QPVACATN = 0.343870 07

STATEWIDE TOTAL QSVACATN = 0.535420 07

ADJUSTED FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1968

84

STATEWIDE TOTAL QBTRIPON = 0.582420 07

STATEWIDE TOTAL QCTRIPOB = 0.995830 07

STATEWIDE TOTAL QFTRIPON = 0.116080 08

STATEWIDE TOTAL QHTRIPON = 0.408520 07

STATEWIDE TOTAL QPTRIPON = 0.598870 07

STATEWIDE TOTAL QSTRIPON = 0.547200 07

STATEWIDE TOTAL QBVACATN = 0.243360 07

STATEWIDE TOTAL QCVACATN = 0.401570 07

STATEWIDE TOTAL QFVACATN = 0.448680 07

STATEWIDE TOTAL QHVACATN = 0.120170 07

STATEWIDE TOTAL QPVACATN = 0.202450 07

STATEWIDE TOTAL QSVACATN = 0.476180 07

V. The Policy Simulations

As mentioned before, the most useful portion of the reduced form system consists in the last 14 equations, the unconditioned quantity forecasting relationships. These equations were calibrated as described in the last section.

Policy simulations for 1975, 1980, 1990, and 2000 were completed for the low, medium and high levels of recreational development using the data provided by Texas Parks and Wildlife Department. The original 1968 data were used instead of 1970 projections since 1970 is also in the past. The 1968 projections have already been presented. These simulations point out basic consistencies in the model. As income and population increase along with other household factors over time, the demand for recreation is expected to increase. The demand for all types of recreation, 2-3 day trips and overnight trips increases from 200 to 400 percent from 1968 to 2000 high. The demand for recreation on short trips increases substantially with increased availability of facilities. However, for given levels of household characteristics, increases in available recreational facilities have a tendency to reduce the demand for some types of recreation on more than 3-day trips and vacations.

Policy simulations for the demand for overnight trips, vacations, and boating, camping, freshwater fishing, hunting, picnicking, and swimming on overnight trips and vacations follow for regional and state totals for 1975, 1980, 1990 and 2000, and for low, medium and high levels of development. Along with these projections appear their values adjusted to be conformable for the cascade with the gravity model. The adjustments to allow cascading are discussed in the next section. Forecasts in logarithmic units and decimal

FORECAST VALUES OF ECONOMIC VARIABLES FOR BY REGION FOR 1975 LOW

NOTRIPON	0.399180	05	0.159440	05	0.003720	05	0.240320	06	0.186000	06	0.163310	06	0.138240	06	0.163570	06	0.212010	05	0.171090	07
	0.108620	07	0.136110	06	0.110570	06	0.262220	06	0.919430	05	0.184480	07	0.941540	05	0.227210	06	0.220810	06	0.101800	06
	0.374370	06	0.259650	05	0.428920	06	0.219590	06	0.221890	07	0.465230	05	0.263530	06	0.245780	06	0.176010	06	0.796960	05
	0.114800	06	0.129150	06	0.852300	06	0.998980	05	0.191840	06	0.385110	05	0.124530	06						
NOVACATN	0.298000	05	0.136110	05	0.115860	05	0.269070	05	0.290300	05	0.902700	04	0.223620	05	0.116400	05	0.261440	05	0.103690	06
	0.214160	06	0.360930	05	0.312700	05	0.675420	05	0.261070	05	0.128150	06	0.149810	05	0.261660	05	0.291110	05	0.335660	05
	0.189430	05	0.149950	05	0.612800	05	0.412850	05	0.320810	06	0.183970	05	0.521320	05	0.577840	05	0.497230	05	0.258830	04
	0.245780	05	0.129620	05	0.493330	05	0.443480	05	0.134910	05	0.113240	05	0.179560	05						
QBTRIPON	0.413860	05	0.160400	05	0.103150	06	0.262780	06	0.190370	06	0.180760	06	0.152600	06	0.187710	06	0.243200	05	0.187360	07
	0.119220	07	0.139450	06	0.125920	06	0.306900	06	0.101520	06	0.204770	07	0.106920	06	0.240740	06	0.254630	06	0.118880	06
	0.424190	06	0.273700	05	0.469710	06	0.250090	06	0.232790	07	0.480000	05	0.275730	06	0.246200	06	0.182290	06	0.912120	05
	0.124230	06	0.139730	06	0.877910	06	0.103140	06	0.209280	06	0.400450	05	0.139760	06						
QCTRIPON	0.699170	05	0.278770	05	0.159880	06	0.421340	06	0.298160	06	0.289110	06	0.247230	06	0.299900	06	0.385380	05	0.305040	07
	0.194140	07	0.249050	06	0.200580	06	0.477040	06	0.169400	06	0.331900	07	0.168830	06	0.400200	06	0.397700	06	0.187090	06
	0.679960	06	0.489950	05	0.779010	06	0.406510	06	0.405970	07	0.870550	05	0.487930	06	0.459040	06	0.304480	06	0.137070	06
	0.203460	06	0.235980	06	0.154800	07	0.180260	06	0.340780	06	0.673830	05	0.226500	06						
QFTRIPON	0.836120	05	0.339570	05	0.187150	06	0.491720	06	0.347430	06	0.337600	06	0.289580	06	0.348750	06	0.479890	05	0.357640	07
	0.228100	07	0.289900	06	0.238070	06	0.559470	06	0.198920	06	0.381380	07	0.196480	06	0.460500	06	0.462060	06	0.219320	06
	0.795210	06	0.576430	05	0.895970	06	0.464660	06	0.460460	07	0.992780	05	0.549510	06	0.508870	06	0.348130	06	0.160260	06
	0.243350	06	0.266110	06	0.174160	07	0.202180	06	0.388140	06	0.774720	05	0.259080	06						
QHTRIPON	0.321470	05	0.123280	05	0.699150	05	0.191640	06	0.136520	06	0.130320	06	0.109220	06	0.117580	06	0.223430	05	0.134100	07
	0.864680	06	0.990020	05	0.928740	05	0.229790	06	0.706030	05	0.151610	07	0.735020	05	0.186520	06	0.180820	06	0.809020	05
	0.291950	06	0.194400	05	0.333300	05	0.166100	06	0.162920	07	0.344480	05	0.197900	06	0.162870	06	0.162670	06	0.754710	05
	0.875460	05	0.102250	06	0.659070	06	0.891440	05	0.174160	06	0.352620	05	0.975950	05						
QPTRIPON	0.450320	05	0.175900	05	0.110910	06	0.291700	06	0.202600	06	0.201780	06	0.167960	06	0.208900	06	0.229310	05	0.215470	07
	0.132490	07	0.159860	06	0.133970	06	0.318270	06	0.109830	06	0.231870	07	0.114240	06	0.274370	06	0.271480	06	0.123160	06
	0.460780	06	0.303610	05	0.521180	06	0.265880	06	0.267110	07	0.545090	05	0.322020	06	0.295590	06	0.209380	06	0.101690	06
	0.141050	06	0.159360	06	0.104250	07	0.119310	06	0.247310	06	0.469530	05	0.153930	06						
QSTRIPON	0.580460	05	0.230110	05	0.121770	06	0.320810	06	0.228530	06	0.212240	06	0.187210	06	0.216670	06	0.355550	05	0.227980	07
	0.147740	07	0.189120	06	0.153300	06	0.369610	06	0.127200	06	0.247160	07	0.126980	06	0.297940	06	0.306730	06	0.144560	06
	0.510020	06	0.366590	05	0.585270	06	0.309030	06	0.300030	07	0.651700	05	0.370050	06	0.345900	06	0.239480	06	0.106080	06
	0.158050	06	0.174530	06	0.114420	07	0.143020	06	0.257650	06	0.534470	05	0.173000	06						
QBVACATN	0.595470	05	0.246040	05	0.324750	05	0.646940	05	0.559750	05	0.208540	05	0.547480	05	0.303240	05	0.913270	05	0.182710	06
	0.320750	06	0.836170	05	0.453190	05	0.103790	06	0.275910	05	0.129280	06	0.238420	05	0.431510	05	0.501560	05	0.567740	05
	0.277460	05	0.153400	05	0.590180	05	0.413980	05	0.230740	06	0.167620	05	0.387320	05	0.296120	05	0.502860	05	0.340930	04
	0.220450	05	0.874940	04	0.381410	05	0.270840	05	0.110370	05	0.919970	04	0.197550	05						
QCVACATN	0.140940	06	0.642350	05	0.513220	05	0.116390	06	0.143730	06	0.394450	05	0.979900	05	0.531350	05	0.118210	06	0.510860	06
	0.113800	07	0.295270	06	0.178160	05	0.396550	06	0.162860	06	0.779670	06	0.796340	05	0.127990	06	0.153710	06	0.189510	06
	0.105470	06	0.960490	05	0.356850	06	0.271150	06	0.205280	07	0.116430	06	0.334950	06	0.403070	06	0.292820	06	0.153750	05
	0.159920	06	0.920940	05	0.303970	06	0.318930	06	0.905630	05	0.724980	05	0.109240	06						
QFVACATN	0.152520	06	0.662540	05	0.676540	05	0.146240	06	0.145960	06	0.491270	05	0.126620	06	0.694000	05	0.166980	06	0.465910	06
	0.158520	06	0.246070	06	0.130920	06	0.274570	06	0.912750	05	0.384260	06	0.648860	05	0.116320	06	0.123200	06	0.143420	06
	0.766620	05	0.510520	05	0.208730	06	0.132020	06	0.830520	06	0.586550	05	0.144420	06	0.130390	06	0.164360	06	0.940780	04
	0.777270	05	0.299730	05	0.127040	06	0.997380	05	0.346270	05	0.299320	05	0.614440	05						

QWVACATN	0.179700	05	0.745970	04	0.115600	05	0.271660	05	0.138380	05	0.830180	04	0.216610	05	0.104730	05	0.366970	05	0.476290	05
	0.512460	05	0.129710	05	0.617510	04	0.132110	05	0.268620	04	0.155600	05	0.467670	04	0.128160	05	0.101390	05	0.836860	04
	0.446810	04	0.139770	04	0.100990	05	0.354890	04	0.255510	05	0.188280	04	0.421590	04	0.271350	04	0.763680	04	0.400490	03
	0.201250	04	0.576310	03	0.557530	04	0.191600	04	0.103100	04	0.997420	03	0.223920	04						
QPVACATN	0.710180	05	0.293720	05	0.366390	05	0.744090	05	0.683640	05	0.241200	05	0.632880	05	0.356530	05	0.101680	06	0.231520	06
	0.426270	06	0.110020	06	0.513130	05	0.140800	06	0.408680	05	0.202110	06	0.308630	05	0.548530	05	0.654140	05	0.754100	05
	0.366810	05	0.237340	05	0.190310	06	0.642530	05	0.387720	06	0.264340	05	0.633500	05	0.573160	05	0.746820	05	0.481170	04
	0.356720	05	0.159030	05	0.633150	05	0.512430	05	0.190940	05	0.153780	05	0.298790	05						
QSVACATN	0.964790	05	0.339540	05	0.520180	05	0.107520	06	0.960950	05	0.335820	05	0.947670	05	0.525700	05	0.163590	06	0.329730	06
	0.607420	06	0.152930	06	0.873760	05	0.207960	06	0.560260	05	0.264480	06	0.430650	05	0.716340	05	0.978400	05	0.113880	06
	0.563460	05	0.341970	05	0.141940	06	0.930400	05	0.473560	06	0.365000	05	0.853790	05	0.670500	05	0.810980	05	0.605730	04
	0.494190	05	0.199990	05	0.806420	05	0.603420	05	0.235700	05	0.197670	05	0.421460	05						

FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1975 LOW

88

STATEWIDE TOTAL ROTRIPON = 0.12556D 08

STATEWIDE TOTAL NOVACATN = 0.17228D 07

STATEWIDE TOTAL Q8TRIPON = 0.13643D 08

STATEWIDE TOTAL QCTRIPON = 0.22670D 08

STATEWIDE TOTAL QFTRIPON = 0.26126D 08

STATEWIDE TOTAL QHTRIPON = 0.98763D 07

STATEWIDE TOTAL QPTRIPON = 0.15416D 08

STATEWIDE TOTAL QSTRIPON = 0.17020D 08

STATEWIDE TOTAL Q8VACATN = 0.21606D 07

STATEWIDE TOTAL QCVACATN = 0.10030D 08

STATEWIDE TOTAL Q8VACATN = 0.61574D 07

STATEWIDE TOTAL QHVACATN = 0.43225D 06

STATEWIDE TOTAL QPVACATN = 0.39138D 07

STATEWIDE TOTAL Q8VACATN = 0.41390D 07

ADJUSTED FORECASTED VALUES OF ENDOGENOUS VARIABLES BY REGION FOR 1975 LOW

QBTRIPON	0.278390	05	0.125430	05	0.899720	05	0.242910	06	0.161300	06	0.167020	06	0.141000	06	0.173450	06	0.224720	05	0.171960	07
	0.110150	07	0.129850	06	0.116350	06	0.293570	06	0.938090	05	0.189210	07	0.979610	05	0.221550	06	0.205230	06	0.109540	07
	0.391950	06	0.252900	05	0.434020	06	0.231080	06	0.212510	07	0.443520	05	0.209940	06	0.227490	06	0.106110	05	0.942300	07
	0.114790	06	0.129110	06	0.811190	06	0.953020	05	0.193390	06	0.370010	05	0.129140	06						
QCTRIPO	0.617750	05	0.224200	05	0.115600	06	0.364410	06	0.261770	06	0.265150	06	0.230660	06	0.279810	06	0.359560	05	0.257560	07
	0.174610	07	0.229110	06	0.492180	05	0.445080	06	0.158050	06	0.309670	07	0.157520	06	0.362930	06	0.362520	06	0.174560	06
	0.634400	06	0.457130	05	0.718820	06	0.379270	06	0.376490	07	0.812220	05	0.455230	06	0.423290	06	0.247130	05	0.127090	06
	0.194500	06	0.220170	06	0.144430	07	0.168180	06	0.317950	06	0.628680	05	0.211330	06						
QFTRIPON	0.606860	05	0.267750	05	0.171220	06	0.453580	06	0.288800	06	0.320720	06	0.272350	06	0.311430	06	0.455800	05	0.327070	07
	0.215180	07	0.263240	06	0.156050	05	0.527250	06	0.188970	06	0.362310	07	0.186660	06	0.437040	06	0.438960	06	0.208360	06
	0.755450	06	0.547610	05	0.847770	06	0.441370	06	0.433940	07	0.929940	05	0.506380	06	0.480050	06	0.324110	05	0.152240	06
	0.231180	06	0.252810	06	0.165460	07	0.192070	06	0.368730	06	0.755980	05	0.246130	06						
QHTRIPON	0.196250	05	0.859060	04	0.523050	05	0.163860	06	0.113220	06	0.111420	06	0.933870	05	0.100530	06	0.191030	05	0.108470	07
	0.728210	06	0.725430	05	0.529650	05	0.196470	06	0.603660	05	0.129630	07	0.628440	05	0.158680	06	0.154600	06	0.597110	06
	0.249610	06	0.166210	05	0.294980	06	0.142010	06	0.138740	07	0.294530	05	0.169200	06	0.139250	06	0.347720	05	0.645260	06
	0.748520	05	0.874220	05	0.563500	06	0.762180	05	0.148900	06	0.301490	05	0.834430	05						
QPTRIPON	0.374200	05	0.152120	05	0.872610	05	0.253360	06	0.143980	06	0.188350	06	0.152670	06	0.188750	06	0.215550	05	0.178640	07
	0.120680	07	0.148460	06	0.629640	05	0.299180	06	0.103240	06	0.216210	07	0.107390	06	0.241400	06	0.255190	06	0.115770	06
	0.433140	06	0.285390	05	0.489910	06	0.249930	06	0.239790	06	0.512390	05	0.296950	06	0.263130	06	0.181070	05	0.637570	05
	0.132580	06	0.149800	06	0.979980	06	0.112150	06	0.232470	06	0.441360	05	0.144690	06						
QSTRIPON	0.440290	05	0.111500	05	0.594000	05	0.260820	06	0.167400	06	0.172550	06	0.148400	06	0.176150	06	0.239000	05	0.165330	07
	0.117230	07	0.148520	06	0.124630	06	0.300490	06	0.103410	06	0.200940	07	0.103230	06	0.234720	06	0.242370	06	0.117520	06
	0.414640	06	0.298040	05	0.462030	06	0.251240	06	0.240020	07	0.529340	05	0.300850	06	0.281210	06	0.184960	05	0.575250	05
	0.128490	06	0.135940	06	0.930220	06	0.116270	06	0.209470	06	0.434530	05	0.140650	06						
QBVCATN	0.423520	05	0.159720	05	0.291040	05	0.625890	05	0.466930	05	0.217330	05	0.354780	05	0.348420	05	0.749230	05	0.155560	06
	0.260190	06	0.567810	05	0.260360	05	0.890810	05	0.317020	05	0.130870	06	0.173130	05	0.360940	05	0.910540	04	0.595580	05
	0.318800	05	0.176250	05	0.470260	05	0.237830	05	0.187710	06	0.192600	05	0.281260	05	0.329020	05	0.612460	04	0.326310	04
	0.233040	05	0.603180	04	0.151190	05	0.311190	05	0.126820	05	0.105700	05	0.226980	05						
QCVACATN	0.615270	05	0.180780	05	0.230870	05	0.334000	05	0.496880	05	0.325610	05	0.602580	05	0.362080	05	0.103470	06	0.230370	06
	0.617830	06	0.117450	06	0.572460	05	0.133130	06	0.972600	05	0.663450	06	0.661760	05	0.689210	05	0.904360	05	0.134810	06
	0.584310	05	0.106420	06	0.111100	06	0.134290	06	0.147160	07	0.121520	06	0.270550	06	0.380060	06	0.580760	05	0.170360	05
	0.177190	06	0.510200	05	0.288970	06	0.132510	06	0.100340	06	0.472330	05	0.756480	05						
QFVCATN	0.611590	05	0.270860	05	0.476850	05	0.797130	05	0.784190	05	0.466430	05	0.835870	05	0.506980	05	0.158360	06	0.286230	06
	0.629080	06	0.117380	06	0.337810	05	0.215910	06	0.809510	05	0.359250	06	0.463130	05	0.886150	05	0.979340	05	0.106850	06
	0.660220	05	0.469890	05	0.153650	06	0.107650	06	0.559400	06	0.611280	05	0.135830	06	0.709310	05	0.899600	04	0.105090	05
	0.868210	05	0.152330	05	0.101740	06	0.232840	05	0.386780	05	0.139420	05	0.563480	05						
QHVCATN	0.352740	04	0.300070	04	0.126830	05	0.388580	05	0.494290	04	0.514270	04	0.187850	05	0.168510	05	0.377300	05	0.609250	05
	0.674960	05	0.171850	05	0.552430	04	0.195560	05	0.226470	04	0.176000	05	0.501910	04	0.172190	05	0.104900	05	0.134550	05
	0.702830	04	0.224890	04	0.113540	05	0.571610	04	0.356850	05	0.302940	04	0.670200	04	0.422200	04	0.136390	04	0.644390	03
	0.323810	04	0.781450	03	0.913240	04	0.900190	03	0.165890	04	0.160490	04	0.360290	04						
QPVCATN	0.293510	05	0.133200	05	0.199310	05	0.415570	05	0.247420	05	0.211230	05	0.348510	05	0.170850	05	0.189680	05	0.843070	05
	0.325690	06	0.409270	05	0.445160	05	0.106480	06	0.456490	05	0.172930	06	0.313360	05	0.324120	05	0.913340	04	0.140670	05
	0.782580	04	0.245110	05	0.527730	05	0.717700	05	0.234300	06	0.295260	05	0.116050	05	0.206150	05	0.179350	05	0.537470	04
	0.398460	05	0.106580	05	0.533960	05	0.127070	05	0.213280	05	0.915560	04	0.166890	05						

QSVACATN 0.631740 05 0.290670 05 0.471510 05 0.117650 06 0.778410 05 0.361170 05 0.861390 05 0.658180 05 0.196010 06 0.283610 06
0.543750 06 0.832880 05 0.242860 05 0.167940 06 0.166940 05 0.278810 06 0.318650 05 0.689680 05 0.103140 06 0.135730 06
0.691360 05 0.267590 05 0.947190 05 0.896940 05 0.434000 06 0.436870 05 0.877610 05 0.668210 05 0.401060 05 0.379180 04
0.539530 05 0.102160 05 0.735010 05 0.639140 05 0.147550 05 0.915690 04 0.527670 05

ADJUSTED FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1975 ⁹¹ LOW

(91)

STATEWIDE TOTAL QBTRIPON = 0.12329D 08

STATEWIDE TOTAL QCTRIPON = 0.20275D 08

STATEWIDE TOTAL QFTRIPON = 0.23998D 08

STATEWIDE TOTAL QHTRIPON = 0.82012D 07

STATEWIDE TOTAL QPTRIPON = 0.13664D 08

STATEWIDE TOTAL QSTRIPON = 0.13259D 08

STATEWIDE TOTAL QBVACATN = 0.17552D 07

STATEWIDE TOTAL QCVACATN = 0.62973D 07

STATEWIDE TOTAL QFVACATN = 0.42528D 07

STATEWIDE TOTAL QHVACATN = 0.47717D 06

STATEWIDE TOTAL QPVACATN = 0.17704D 07

STATEWIDE TOTAL QSVACATN = 0.36918D 07

FORECASTED VALUES OF ENDOGENOUS VARIABLES FOR BY REGION FOR 1975 MEDIUM

NOVTRIPON	0.351720	05	0.149010	05	0.842140	05	0.218130	06	0.148720	06	0.147870	06	0.123890	06	0.153620	06	0.172930	05	0.150300	07
	0.924440	06	0.115240	06	0.107020	06	0.232770	06	0.763470	05	0.173930	07	0.857980	05	0.202910	06	0.199510	06	0.897080	05
	0.328630	06	0.209990	05	0.394720	06	0.196440	06	0.187980	07	0.382610	05	0.137570	06	0.225700	06	0.159510	06	0.723190	05
	0.108110	06	0.128730	06	0.982590	06	0.107210	06	0.182230	06	0.346020	05	0.118660	06						
NOVACATN	0.268430	05	0.131950	05	0.110570	05	0.258710	05	0.281310	05	0.867280	04	0.217280	05	0.113040	05	0.255210	05	0.101280	06
	0.209490	06	0.546510	05	0.299650	05	0.657660	05	0.256500	05	0.125550	06	0.145790	05	0.250540	05	0.284580	05	0.329270	05
	0.184860	05	0.148370	05	0.599380	05	0.404460	05	0.313930	06	0.180490	05	0.518590	05	0.553860	05	0.480550	05	0.249200	04
	0.240430	05	0.125520	05	0.471150	05	0.428210	05	0.130430	05	0.110400	05	0.176850	05						
QBTRIPON	0.349980	05	0.134630	05	0.928950	05	0.232260	06	0.166350	06	0.159720	06	0.133260	06	0.171800	06	0.190090	05	0.161110	07
	0.987940	06	0.114680	06	0.117710	06	0.265020	06	0.821960	05	0.188580	07	0.941840	05	0.209290	06	0.224680	06	0.102170	06
	0.364120	06	0.214350	05	0.422310	06	0.217610	06	0.191980	07	0.382580	05	0.136850	06	0.220700	06	0.160530	06	0.807990	05
	0.113930	06	0.135750	06	0.984090	06	0.107870	06	0.194310	06	0.350380	05	0.129970	06						
QCTRIPO	0.632450	05	0.251380	05	0.151500	06	0.390570	06	0.272620	06	0.267030	06	0.226100	06	0.267240	06	0.325020	05	0.273100	07
	0.169830	07	0.215650	06	0.199110	06	0.433010	06	0.143660	06	0.319390	07	0.157040	06	0.365120	06	0.366780	06	0.168330	06
	0.609080	06	0.405770	05	0.732110	06	0.372620	06	0.351290	07	0.732990	05	0.263970	06	0.431090	06	0.281990	06	0.126890	06
	0.200750	06	0.240310	06	0.182610	07	0.197940	06	0.330140	06	0.618140	05	0.220200	06						
QFTRIPON	0.750860	05	0.304260	05	0.175890	06	0.451800	06	0.314860	06	0.309080	06	0.262510	06	0.331350	06	0.404280	05	0.317010	07
	0.196310	07	0.248820	06	0.234430	06	0.503200	06	0.167040	06	0.363950	07	0.181160	06	0.416320	06	0.422320	06	0.195620	06
	0.705010	06	0.473560	05	0.834810	06	0.421380	06	0.394250	07	0.827560	05	0.291240	06	0.474460	06	0.319600	06	0.147020	06
	0.232370	06	0.269220	06	0.205100	07	0.220220	06	0.373110	06	0.704380	05	0.249850	06						
QHTRIPON	0.265270	05	0.101620	05	0.596240	05	0.160810	06	0.113810	06	0.109250	06	0.910740	05	0.102340	06	0.177480	05	0.109550	07
	0.685050	06	0.787500	05	0.819620	05	0.189240	06	0.549250	05	0.132020	07	0.621390	05	0.153860	06	0.151500	06	0.666230	05
	0.236890	06	0.149220	05	0.283630	06	0.136020	06	0.127830	07	0.265300	05	0.944100	05	0.137840	06	0.136830	06	0.632970	05
	0.759250	05	0.937190	05	0.693310	06	0.872870	05	0.153250	06	0.295170	05	0.861810	05						
QPTRIPON	0.403210	05	0.156470	05	0.104580	06	0.268870	06	0.184350	06	0.185260	06	0.152480	06	0.198930	06	0.188590	05	0.191920	07
	0.114680	07	0.136800	06	0.132900	06	0.287560	06	0.926810	05	0.222390	07	0.105610	06	0.248420	06	0.249080	06	0.109990	06
	0.410450	06	0.249130	05	0.487720	06	0.241420	06	0.229920	07	0.454930	05	0.167250	06	0.276850	06	0.192810	06	0.936100	05
	0.135200	06	0.161950	06	0.123590	07	0.131290	06	0.239350	06	0.428190	05	0.149130	06						
QSTRIPON	0.513130	05	0.203030	05	0.111860	06	0.289080	06	0.203790	06	0.190690	06	0.166910	06	0.201820	06	0.298480	05	0.199160	07
	0.125670	07	0.160380	06	0.146720	06	0.326790	06	0.105800	06	0.230720	07	0.114950	06	0.264140	06	0.275200	06	0.127000	06
	0.444510	06	0.299400	05	0.533690	06	0.273980	06	0.253140	07	0.537770	05	0.195300	06	0.314180	06	0.215790	06	0.954840	05
	0.174730	06	0.171660	06	0.129090	07	0.151130	06	0.242570	06	0.477990	05	0.163420	06						
QBVCATN	0.590250	05	0.243290	05	0.328660	05	0.648000	05	0.555370	05	0.209920	05	0.540110	05	0.299200	05	0.894070	05	0.178470	06
	0.312910	06	0.823750	05	0.458590	05	0.102120	06	0.267090	05	0.124280	06	0.234650	05	0.438830	05	0.488100	05	0.550670	05
	0.271170	05	0.145930	05	0.669140	05	0.397730	05	0.224900	06	0.162480	05	0.364570	05	0.308210	05	0.502190	05	0.343910	04
	0.212610	05	0.862110	04	0.382480	05	0.268820	05	0.109780	05	0.901600	04	0.187770	05						
QCVACATN	0.126760	06	0.581010	05	0.440790	05	0.102070	06	0.130210	06	0.345470	05	0.887960	05	0.482110	05	0.108730	06	0.472780	06
	0.106040	07	0.272220	06	0.157900	06	0.366540	06	0.154260	06	0.732650	06	0.732300	05	0.112000	06	0.142980	06	0.178320	06
	0.978280	05	0.932390	05	0.333560	06	0.254970	06	0.192560	07	0.109870	06	0.325350	06	0.361050	06	0.265630	06	0.138170	05
	0.149970	06	0.845190	05	0.268480	06	0.290900	06	0.826470	05	0.674200	05	0.104030	06						
QFVACATN	0.155750	06	0.675620	05	0.695890	05	0.149850	06	0.149050	06	0.504020	05	0.128790	06	0.705820	05	0.168840	06	0.473200	06
	0.873070	06	0.251180	06	0.136370	06	0.280610	06	0.926820	05	0.389660	06	0.660300	05	0.120010	06	0.124650	06	0.144630	06
	0.779070	05	0.511490	05	0.210970	06	0.133370	06	0.846410	06	0.596610	05	0.146090	06	0.136310	06	0.169120	06	0.969690	04
	0.708170	05	0.211320	05	0.112220	06	0.122320	06	0.222320	06	0.222320	06	0.222320	06						

cb

AVACATN	0.27710	05	0.15840	04	0.15840	05	0.27167	05	0.18160	05	0.11412	05	0.27700	05	0.13442	05	0.45455	05	0.59267	05
	0.75970	05	0.24155	05	0.89177	04	0.17016	05	0.32634	04	0.19253	05	0.60060	04	0.18284	05	0.12589	05	0.10179	05
	0.55231	04	0.15744	04	0.12493	05	0.44465	04	0.32199	05	0.23187	04	0.48173	04	0.40645	04	0.10406	05	0.55992	03
	0.25399	04	0.72780	03	0.34537	04	0.27125	04	0.14235	04	0.12887	04	0.26607	04						
AVACATN	0.71610	05	0.24585	05	0.37380	05	0.75492	05	0.68957	05	0.24564	05	0.63639	05	0.35803	05	0.10159	06	0.23124	06
	0.47586	06	0.11050	06	0.62564	05	0.14148	06	0.40780	05	0.19976	06	0.30999	05	0.56261	05	0.65163	05	0.74983	05
	0.35041	05	0.23525	05	0.99684	05	0.63535	05	0.38924	06	0.26437	05	0.63262	05	0.59546	05	0.75688	05	0.49064	04
	0.25324	05	0.15912	05	0.63515	05	0.51416	05	0.19222	05	0.15413	05	0.29352	05						
SSVACATN	0.97218	05	0.39181	05	0.53319	05	0.10935	06	0.97001	05	0.34246	05	0.94813	05	0.52529	05	0.16347	06	0.32837	06
	0.60650	06	0.15287	06	0.89988	05	0.20828	06	0.55618	05	0.25960	06	0.43113	05	0.74011	05	0.97491	05	0.11321	06
	0.56321	05	0.33683	05	0.14146	06	0.91435	05	0.47515	06	0.36204	05	0.80757	05	0.72069	05	0.82861	05	0.62157	04
	0.48715	05	0.19930	05	0.80740	05	0.61161	05	0.23914	05	0.19770	05	0.40953	05						

FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1975 MEDIAN

- STATEWIDE TOTAL NQTRIPON = 0.11335D 08
- STATEWIDE TOTAL NOVACATN = 0.16795D 07
- STATEWIDE TOTAL QBTRIPON = 0.12002D 08
- STATEWIDE TOTAL QCTRIPOX = 0.20899D 08
- STATEWIDE TOTAL QFTRIPON = 0.23865D 08
- STATEWIDE TOTAL QHTRIPON = 0.82539D 07
- STATEWIDE TOTAL QPTRIPON = 0.14158D 08
- STATEWIDE TOTAL QSTRIPON = 0.15245D 08
- STATEWIDE TOTAL QBVACATN = 0.21191D 07
- STATEWIDE TOTAL QCVACATN = 0.92937D 07
- STATEWIDE TOTAL QFVACATN = 0.62739D 07
- STATEWIDE TOTAL QHVACATN = 0.55591D 06
- STATEWIDE TOTAL QPVACATN = 0.30213D 07
- STATEWIDE TOTAL QSVACATN = 0.41405D 07

ADJUSTED FORECASTED VALUES OF ENDOGENOUS VARIABLES BY REGION FOR 1975 MEDIUM

QRTIPON	0.23542D 05	0.10561D 05	0.81028D 05	0.21461D 06	0.14095D 06	0.14758D 06	0.12314D 06	0.15875D 06	0.17564D 05	0.14752D 07
	0.91286D 06	0.10596D 06	0.10377D 06	0.24488D 06	0.75943D 05	0.17425D 07	0.87026D 05	0.19261D 06	0.20760D 06	0.94403D 05
	0.33645D 06	0.19806D 05	0.39021D 06	0.20107D 06	0.17526D 07	0.35350D 05	0.10420D 06	0.20393D 06	0.93448D 04	0.74658D 05
	0.10527D 06	0.12544D 06	0.90930D 06	0.99670D 05	0.17954D 06	0.32376D 05	0.12009D 06			
QCTIPON	0.55880D 05	0.20217D 05	0.10955D 06	0.33780D 06	0.23935D 06	0.24490D 06	0.21095D 06	0.26799D 06	0.30324D 05	0.23060D 07
	0.15182D 07	0.19839D 06	0.48857D 05	0.40400D 06	0.13404D 06	0.29799D 07	0.14651D 06	0.33112D 06	0.33433D 06	0.15705D 06
	0.56327D 06	0.37859D 05	0.67554D 06	0.34765D 06	0.32579D 07	0.68388D 05	0.24628D 06	0.40221D 06	0.22890D 05	0.11938D 06
	0.12730D 06	0.22421D 06	0.17037D 07	0.18468D 06	0.30802D 06	0.57672D 05	0.20545D 06			
QFTIPON	0.54498D 05	0.23991D 05	0.16091D 06	0.41677D 06	0.26173D 06	0.29363D 06	0.24689D 06	0.29589D 06	0.38407D 05	0.29062D 07
	0.18519D 07	0.23023D 06	0.15367D 05	0.47422D 06	0.15869D 06	0.34576D 07	0.17210D 06	0.39511D 06	0.40120D 06	0.18584D 06
	0.66976D 06	0.44988D 05	0.78989D 06	0.40031D 06	0.37154D 07	0.77518D 05	0.26837D 06	0.44758D 06	0.29755D 05	0.13967D 06
	0.22075D 06	0.25576D 06	0.19485D 07	0.20921D 06	0.35446D 06	0.66916D 05	0.23736D 06			
QHTIPON	0.16194D 05	0.70815D 04	0.44606D 05	0.13749D 06	0.94386D 05	0.93407D 05	0.77869D 05	0.87499D 05	0.15175D 05	0.88605D 06
	0.57493D 06	0.57703D 05	0.46742D 05	0.16180D 06	0.46961D 05	0.11287D 07	0.53129D 05	0.13090D 06	0.12953D 06	0.56963D 05
	0.20254D 06	0.12758D 05	0.24250D 06	0.11630D 06	0.10886D 07	0.22683D 05	0.80720D 05	0.11785D 06	0.29248D 05	0.54119D 05
	0.64916D 05	0.80130D 05	0.59278D 06	0.74630D 05	0.13103D 06	0.25237D 05	0.73685D 05			
QPTIPON	0.33505D 05	0.13532D 05	0.82278D 05	0.23353D 06	0.13100D 06	0.17292D 06	0.13860D 06	0.17783D 06	0.17727D 05	0.15912D 07
	0.10445D 07	0.12705D 06	0.62463D 05	0.27031D 06	0.87120D 05	0.20738D 07	0.99275D 05	0.21857D 06	0.23413D 06	0.10339D 06
	0.38582D 06	0.23418D 05	0.45846D 06	0.22693D 06	0.20640D 07	0.42764D 05	0.15423D 06	0.24644D 06	0.16674D 05	0.58691D 05
	0.12709D 06	0.15223D 06	0.11618D 07	0.12341D 06	0.22499D 06	0.40250D 05	0.14019D 06			
QSTIPON	0.38922D 05	0.98376D 04	0.54567D 05	0.23503D 06	0.14928D 06	0.15503D 06	0.13231D 06	0.16408D 06	0.24266D 05	0.14443D 07
	0.99716D 06	0.12596D 06	0.11928D 06	0.26568D 06	0.86013D 05	0.18757D 07	0.93456D 05	0.20809D 06	0.22373D 06	0.10325D 06
	0.36139D 06	0.24341D 05	0.42130D 06	0.22274D 06	0.20251D 07	0.43721D 05	0.15878D 06	0.25543D 06	0.16666D 05	0.51778D 05
	0.11978D 06	0.13370D 06	0.10495D 07	0.12287D 06	0.19721D 06	0.38861D 05	0.13286D 06			
QBVACATN	0.41980D 05	0.15794D 05	0.29455D 05	0.62691D 05	0.46328D 05	0.21877D 05	0.35001D 05	0.34379D 05	0.73348D 05	0.15195D 06
	0.25383D 06	0.55937D 05	0.26346D 05	0.87647D 05	0.30689D 05	0.12580D 06	0.17040D 05	0.36707D 05	0.88611D 04	0.57767D 05
	0.31157D 05	0.16767D 05	0.45592D 05	0.22850D 05	0.18296D 06	0.18669D 05	0.26474D 05	0.34245D 05	0.61164D 04	0.32916D 04
	0.22475D 05	0.59434D 04	0.15162D 05	0.30887D 05	0.12614D 05	0.10359D 05	0.21574D 05			
QCVACATN	0.55339D 05	0.16352D 05	0.19829D 05	0.29292D 05	0.45013D 05	0.28517D 05	0.54604D 05	0.32852D 05	0.95174D 05	0.21320D 06
	0.57573D 06	0.10828D 06	0.50736D 05	0.12306D 06	0.92124D 05	0.62345D 06	0.60854D 05	0.60312D 05	0.84120D 05	0.12684D 06
	0.54197D 05	0.10331D 06	0.10385D 06	0.12626D 06	0.13804D 07	0.11468D 06	0.26279D 06	0.34044D 06	0.52683D 05	0.15309D 05
	0.16616D 06	0.46823D 05	0.25523D 06	0.12087D 06	0.91573D 05	0.43924D 05	0.72044D 05			
QFVACATN	0.62458D 05	0.27621D 05	0.49048D 05	0.81684D 05	0.80082D 05	0.47854D 05	0.85020D 05	0.51561D 05	0.16011D 06	0.29071D 06
	0.63974D 06	0.11952D 06	0.35188D 05	0.22067D 06	0.82199D 05	0.36431D 06	0.47130D 05	0.91425D 05	0.99132D 05	0.10775D 06
	0.67094D 05	0.47078D 05	0.15530D 06	0.10908D 06	0.57010D 06	0.62114D 05	0.13740D 06	0.74151D 05	0.92565D 04	0.10831D 05
	0.88037D 05	0.15768D 05	0.10722D 06	0.24121D 05	0.40038D 05	0.14252D 05	0.56730D 05			
QHVACATN	0.46681D 04	0.39243D 04	0.19201D 05	0.53164D 05	0.64866D 04	0.70691D 04	0.24023D 05	0.21629D 05	0.46735D 05	0.75812D 05
	0.83741D 05	0.21881D 05	0.79778D 04	0.25188D 05	0.27514D 04	0.21783D 05	0.64398D 04	0.24565D 05	0.13025D 05	0.16378D 05
	0.88947D 04	0.25332D 04	0.14177D 05	0.71545D 04	0.44970D 05	0.37308D 04	0.76581D 04	0.63240D 04	0.18585D 04	0.90091D 03
	0.40865D 04	0.10809D 04	0.13602D 05	0.12744D 04	0.22904D 04	0.20735D 04	0.42811D 04			
QPVACATN	0.29598D 05	0.13417D 05	0.20334D 05	0.42162D 05	0.24956D 05	0.21511D 05	0.35045D 05	0.17157D 05	0.18951D 05	0.84205D 05
	0.32613D 06	0.41100D 05	0.45425D 05	0.10699D 06	0.45551D 05	0.17092D 06	0.31475D 05	0.33244D 05	0.90985D 04	0.13987D 05
	0.78173D 04	0.36277D 05	0.52445D 05	0.70968D 05	0.23522D 06	0.29530D 05	0.11589D 05	0.21417D 05	0.18177D 05	0.54804D 04
	0.20757D 05	0.11111D 05	0.62111D 05	0.11111D 05	0.11111D 05	0.11111D 05	0.11111D 05	0.11111D 05	0.11111D 05	0.11111D 05

05V10ATV 0.014500 05 0.002500 05 0.483310 05 0.119650 06 0.785750 05 0.368300 05 0.861800 05 0.657660 05 0.195870 06 0.282440 06
0.542510 06 0.832500 05 0.247340 05 0.168190 06 0.165730 05 0.273670 06 0.319010 05 0.712570 05 0.102770 06 0.134930 06
0.591630 05 0.263570 05 0.943970 05 0.881470 05 0.435450 06 0.433330 05 0.830090 05 0.718230 05 0.409780 05 0.389100 04
0.531860 05 0.191810 05 0.735910 05 0.647810 05 0.149700 05 0.915840 04 0.512730 05

97
STED FORECASTED STATISTICAL TOTALS OF EMPLOYMENT VARIABLES FOR 1975 MEDIUM

97

TEWIDE TOTAL QSTRIPON = 0.108650 08

TEWIDE TOTAL QCTRIPOB = 0.186920 08

TEWIDE TOTAL QFTRIPON = 0.219170 08

TEWIDE TOTAL QHTRIPON = 0.685830 07

TEWIDE TOTAL QPTRIPON = 0.125600 08

TEWIDE TOTAL QSTRIPON = 0.118820 08

TEWIDE TOTAL QBVACATN = 0.172060 07

TEWIDE TOTAL QCVACATN = 0.584630 07

TEWIDE TOTAL QFVACATN = 0.433180 07

TEWIDE TOTAL QHVACATN = 0.612330 06

TEWIDE TOTAL QPVACATN = 0.177370 07

TEWIDE TOTAL QSVACATN = 0.369040 07

FORECASTED VALUES OF ENDOGENOUS VARIABLES FOR BY REGION FOR 1975 HIGH

NOTRIPON	0.417540	05	0.166520	05	0.973220	05	0.249400	06	0.169270	06	0.168340	06	0.139550	06	0.169080	06	0.203700	05	0.166080	07
	0.102180	07	0.130390	06	0.126810	06	0.260430	06	0.789450	05	0.208440	07	0.980320	05	0.233360	06	0.224640	06	0.100720	06
	0.360160	06	0.208300	05	0.448790	06	0.242350	06	0.199510	07	0.398850	05	0.111590	06	0.257370	06	0.189390	06	0.844790	05
	0.126900	06	0.180580	06	0.161940	07	0.172450	06	0.239660	06	0.410910	05	0.140200	06						
NOVACATN	0.285660	05	0.130800	05	0.108720	05	0.255300	05	0.278980	05	0.855120	04	0.215850	05	0.112490	05	0.253310	05	0.100550	06
	0.207450	06	0.543950	05	0.296590	05	0.653010	05	0.255230	05	0.125290	06	0.144770	05	0.246600	05	0.283070	05	0.327670	05
	0.182910	05	0.148260	05	0.597560	05	0.403390	05	0.311070	06	0.179060	05	0.518100	05	0.543330	05	0.475420	05	0.245990	04
	0.238730	05	0.124840	05	0.468320	05	0.422320	05	0.129310	05	0.109810	05	0.176870	05						
QSTRIPON	0.406750	05	0.156980	05	0.104810	06	0.259630	06	0.185290	06	0.177910	06	0.146900	06	0.185280	06	0.217780	05	0.174540	07
	0.107160	07	0.127070	06	0.136140	06	0.239680	06	0.831210	05	0.221140	07	0.105320	06	0.235370	06	0.247600	06	0.112180	06
	0.390460	06	0.207440	05	0.470480	06	0.261900	06	0.198900	07	0.389700	05	0.106950	06	0.247000	06	0.186600	06	0.923120	05
	0.130680	06	0.185590	06	0.157470	07	0.170860	06	0.249800	06	0.407620	05	0.150380	06						
QCTRIPON	0.769230	05	0.306370	05	0.178720	06	0.455540	06	0.315330	06	0.309900	06	0.259620	06	0.371570	06	0.392630	05	0.307340	07
	0.190170	07	0.249040	06	0.241120	06	0.494320	06	0.151450	06	0.390340	07	0.102900	06	0.428560	06	0.420800	06	0.192660	06
	0.680270	06	0.410720	05	0.847520	06	0.469910	06	0.379980	07	0.779880	05	0.220250	06	0.500960	06	0.342040	06	0.151170	06
	0.240240	06	0.344890	06	0.308990	07	0.324810	06	0.443230	06	0.749280	05	0.265100	06						
QSTRIPON	0.898830	05	0.364230	05	0.206000	06	0.523170	06	0.362490	06	0.356410	06	0.298960	06	0.368250	06	0.476640	05	0.354300	07
	0.219360	07	0.284400	06	0.281650	06	0.569660	06	0.174450	06	0.442390	07	0.209390	06	0.485260	06	0.481040	06	0.221870	06
	0.782190	06	0.474230	05	0.960090	06	0.528000	06	0.423650	07	0.872640	05	0.240270	06	0.549020	06	0.384550	06	0.174200	06
	0.276150	06	0.385520	06	0.347820	07	0.360080	06	0.499100	06	0.846770	05	0.298820	06						
QSTRIPON	0.290370	05	0.107380	05	0.630840	05	0.169850	06	0.119060	06	0.114650	06	0.943750	05	0.104710	06	0.182300	05	0.112050	07
	0.597180	05	0.211180	05	0.880350	05	0.193950	06	0.524910	05	0.145490	07	0.653180	05	0.162170	06	0.157310	06	0.685830	05
	0.239900	06	0.137450	05	0.297600	06	0.152040	06	0.125490	07	0.254410	05	0.705470	05	0.144670	06	0.147830	06	0.680800	05
	0.814630	05	0.118900	06	0.102020	07	0.125190	06	0.184330	06	0.319670	05	0.937400	05						
QSTRIPON	0.491770	05	0.191390	05	0.123060	06	0.312730	06	0.213570	06	0.214300	06	0.174460	06	0.221510	06	0.230480	05	0.215250	07
	0.128450	07	0.158020	06	0.161710	06	0.328410	06	0.977270	05	0.271090	07	0.122600	06	0.290630	06	0.284810	06	0.125610	06
	0.457240	06	0.251710	05	0.562610	06	0.303640	06	0.245910	07	0.483600	05	0.137940	06	0.322200	06	0.233450	06	0.111210	06
	0.161300	06	0.232100	06	0.209320	07	0.217560	06	0.320910	06	0.517310	05	0.178950	06						
QSTRIPON	0.591920	05	0.234390	05	0.127470	06	0.326250	06	0.228880	06	0.214570	06	0.185650	06	0.220270	06	0.336600	05	0.217700	07
	0.136880	07	0.178290	06	0.170520	06	0.360380	06	0.108500	06	0.272540	07	0.129640	06	0.299580	06	0.305940	06	0.140400	06
	0.481910	06	0.295690	05	0.599070	06	0.331010	06	0.265830	07	0.553890	05	0.158020	06	0.351670	06	0.251640	06	0.110150	06
	0.169860	06	0.235170	06	0.206070	07	0.234720	06	0.313480	06	0.557870	05	0.190400	06						
QSVACATN	0.555200	05	0.228240	05	0.313690	05	0.614230	05	0.521310	05	0.199390	05	0.506600	05	0.280990	05	0.843660	05	0.167030	06
	0.294020	06	0.766060	05	0.429290	05	0.955510	05	0.248870	05	0.113160	06	0.219470	05	0.417020	05	0.455500	05	0.514370	05
	0.255740	05	0.135510	05	0.617650	05	0.360750	05	0.209720	06	0.152300	05	0.335610	05	0.293510	05	0.468660	05	0.324080	04
	0.196500	05	0.769980	04	0.334650	05	0.245780	05	0.100370	05	0.827450	04	0.171000	05						
QCVACATN	0.121320	06	0.557600	05	0.411150	05	0.962490	05	0.125280	06	0.325040	05	0.855660	05	0.467510	05	0.104610	06	0.456450	06
	0.101840	07	0.264980	06	0.151630	06	0.355230	06	0.150490	06	0.719180	06	0.708450	05	0.105350	06	0.138940	06	0.173730	06
	0.938500	05	0.919790	05	0.326630	06	0.249990	06	0.186010	07	0.106430	06	0.320110	06	0.340950	06	0.254940	06	0.131840	05
	0.145550	06	0.823830	05	0.260610	06	0.278380	06	0.799000	05	0.657070	05	0.102710	06						
QFVACATN	0.154280	06	0.668310	05	0.693520	05	0.148830	06	0.147460	06	0.500740	05	0.127180	06	0.695740	05	0.167040	06	0.467410	06
	0.862940	06	0.247920	06	0.136000	06	0.278340	06	0.920350	05	0.380960	06	0.651680	05	0.119370	06	0.122820	06	0.142620	06
	0.774470	05	0.504770	05	0.206940	06	0.131010	06	0.841660	06	0.592200	05	0.145380	06	0.136840	06	0.167360	06	0.961720	04
	0.777900	05	0.303080	05	0.130400	06	0.101790	06	0.352360	05	0.300250	05	0.606310	05						

85

QHVACATN 0.269920 05 0.110140 05 0.187780 05 0.430840 05 0.204350 05 0.133010 05 0.307750 05 0.147620 05 0.507190 05 0.661970 05
0.806700 05 0.265560 05 0.102100 05 0.190610 05 0.361300 04 0.208710 05 0.670720 04 0.216640 05 0.138970 05 0.112130 05
0.634770 04 0.168640 04 0.136080 05 0.485840 04 0.368070 05 0.262470 04 0.523330 04 0.502920 04 0.119850 05 0.654880 03
0.286460 04 0.892800 03 0.945430 04 0.322050 04 0.162470 04 0.143220 04 0.283460 04

QPVACATN 0.696120 05 0.287070 05 0.366490 05 0.737010 05 0.669010 05 0.240040 05 0.617000 05 0.347280 05 0.987910 05 0.223940 06
0.414130 06 0.106880 06 0.606100 05 0.137230 06 0.395970 05 0.190530 06 0.300310 05 0.550670 05 0.630050 05 0.725590 05
0.356660 05 0.228730 05 0.959050 05 0.604550 05 0.379010 06 0.257970 05 0.618190 05 0.585620 05 0.733290 05 0.477730 04
0.339960 05 0.150010 05 0.586690 05 0.489640 05 0.183430 05 0.148130 05 0.280170 05

QSVACATN 0.927560 05 0.372140 05 0.516410 05 0.105290 06 0.927760 05 0.329730 05 0.907980 05 0.505590 05 0.158290 06 0.312220 06
0.577780 06 0.144230 06 0.846100 05 0.198760 06 0.526640 05 0.238760 06 0.409720 05 0.709480 05 0.928440 05 0.108200 06
0.539490 05 0.320950 05 0.132550 06 0.840630 05 0.443350 06 0.342890 05 0.733410 05 0.679950 05 0.771420 05 0.591090 04
0.454850 05 0.176440 05 0.682670 05 0.557650 05 0.219430 05 0.192920 05 0.379410 05

FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1975 HIGH

100

STATEWIDE TOTAL NOTRIPCN = 0.133620 08
STATEWIDE TOTAL NOVACATN = 0.156640 07
STATEWIDE TOTAL QBTRIPCN = 0.138100 08
STATEWIDE TOTAL QCTRIPCN = 0.251420 08
STATEWIDE TOTAL QFTRIPCN = 0.285290 08
STATEWIDE TOTAL QHTRIPCN = 0.893380 07
STATEWIDE TOTAL QPTRIPCN = 0.170150 08
STATEWIDE TOTAL QSTRIPCN = 0.176710 08
STATEWIDE TOTAL QBVACATN = 0.197690 07
STATEWIDE TOTAL QCVACATN = 0.898780 07
STATEWIDE TOTAL QFVACATN = 0.620810 07
STATEWIDE TOTAL QHVACATN = 0.627680 06
STATEWIDE TOTAL QPVACATN = 0.292440 07
STATEWIDE TOTAL QSVACATN = 0.390430 07

ADJUSTED FORECASTED VALUES OF ENDOGENOUS VARIABLES BY REGION FOR 1975 HIGH

QBTRIPON	0.273610	05	0.123140	05	0.214170	05	0.239900	06	0.157000	06	0.164390	06	0.135730	06	0.171200	06	0.201230	05	0.159830	07
	0.590130	06	0.117410	06	0.125790	06	0.267660	06	0.768040	05	0.204330	07	0.973180	05	0.216610	06	0.228780	06	0.103660	06
	0.360790	06	0.191670	05	0.434730	06	0.242060	06	0.181580	07	0.360080	05	0.814260	05	0.228220	06	0.108620	05	0.852970	05
	0.120750	06	0.171490	06	0.145500	07	0.157870	06	0.230810	06	0.376640	05	0.138950	06						
QCTRIPOB	0.579660	05	0.246390	05	0.129230	06	0.393990	06	0.277720	06	0.284220	06	0.242230	06	0.300020	06	0.366330	05	0.259510	07
	0.171040	07	0.229100	06	0.591650	05	0.461200	06	0.141300	06	0.364180	07	0.170640	06	0.388650	06	0.383570	06	0.179750	06
	0.634690	06	0.383200	05	0.782410	06	0.438430	06	0.352390	07	0.727630	05	0.205490	06	0.467390	06	0.277630	05	0.141040	06
	0.224140	06	0.321790	06	0.288290	07	0.303050	06	0.413530	06	0.699080	05	0.247340	06						
QFTRIPON	0.652410	05	0.237190	05	0.188460	06	0.482590	06	0.301320	06	0.338580	06	0.281170	06	0.328850	06	0.452810	05	0.324800	07
	0.206930	07	0.263160	06	0.184620	05	0.536850	06	0.165730	06	0.420270	07	0.198920	06	0.460540	06	0.456990	06	0.210770	06
	0.742080	06	0.450520	05	0.908440	06	0.501600	06	0.399250	07	0.817410	05	0.221410	06	0.517910	06	0.358010	05	0.165490	06
	0.262350	06	0.366240	06	0.330430	07	0.342070	06	0.474150	06	0.804430	05	0.283880	06						
QHTRIPON	0.171160	05	0.748270	04	0.471950	05	0.144370	06	0.987460	05	0.980240	05	0.906910	05	0.895280	05	0.155870	05	0.906310	06
	0.587140	06	0.594380	05	0.502050	05	0.165830	06	0.448800	05	0.124390	07	0.558470	05	0.137960	06	0.134500	06	0.586390	05
	0.205110	06	0.117520	05	0.254450	06	0.129990	06	0.106860	07	0.217520	05	0.603170	05	0.123690	06	0.315990	05	0.582080	05
	0.696590	05	0.101660	06	0.872280	06	0.107030	06	0.157600	06	0.273320	05	0.801470	05						
QPTRIPON	0.408640	05	0.165520	05	0.968200	05	0.271620	06	0.151770	06	0.200030	06	0.158590	06	0.198010	06	0.216650	05	0.178460	07
	0.117000	07	0.146760	06	0.760020	05	0.308710	06	0.918640	05	0.252780	07	0.115240	06	0.255710	06	0.267720	06	0.118080	06
	0.429800	06	0.236600	05	0.528860	06	0.285420	06	0.223440	07	0.454580	05	0.127200	06	0.286810	06	0.201890	05	0.697240	05
	0.151620	06	0.218170	06	0.196760	07	0.204510	06	0.301650	06	0.486270	05	0.168210	06						
QSTRIPON	0.448990	05	0.113570	05	0.621790	05	0.265240	06	0.167660	06	0.174440	06	0.147160	06	0.179080	06	0.273660	05	0.157870	07
	0.105610	07	0.140020	06	0.138630	06	0.292990	06	0.882100	05	0.221590	07	0.105400	06	0.236010	06	0.248730	06	0.114150	06
	0.391710	06	0.240390	05	0.472920	06	0.269110	06	0.212660	07	0.450310	05	0.128470	06	0.285910	06	0.194350	05	0.597320	05
	0.138100	06	0.183160	06	0.167540	07	0.190830	06	0.254260	06	0.453550	05	0.154790	06						
QEVACATN	0.394880	05	0.148170	05	0.281130	05	0.594240	05	0.434870	05	0.207790	05	0.328290	05	0.322860	05	0.692120	05	0.142210	06
	0.238500	06	0.520200	05	0.246630	05	0.820120	05	0.285950	05	0.114550	06	0.159370	05	0.348820	05	0.826920	04	0.539590	05
	0.293840	05	0.155710	05	0.420840	05	0.207250	05	0.170610	06	0.175000	05	0.243710	05	0.326110	05	0.570800	04	0.310180	04
	0.207710	05	0.530820	04	0.132660	05	0.282400	05	0.115330	05	0.950740	04	0.196480	05						
QEVACATN	0.529650	05	0.156950	05	0.184960	05	0.276210	05	0.433100	05	0.269310	05	0.526180	05	0.318570	05	0.915680	05	0.205840	06
	0.552920	06	0.105400	06	0.487220	05	0.119260	06	0.898720	05	0.611980	06	0.588720	05	0.567290	05	0.817480	05	0.123580	06
	0.519930	05	0.101910	06	0.101700	06	0.123810	06	0.133350	07	0.111080	06	0.258560	06	0.321490	06	0.505640	05	0.146070	05
	0.161270	06	0.456400	05	0.247750	06	0.115670	06	0.885290	05	0.428080	05	0.711300	05						
QEVACATN	0.618650	05	0.273220	05	0.488810	05	0.811250	05	0.792270	05	0.475430	05	0.839550	05	0.508250	05	0.158410	06	0.287150	06
	0.632320	06	0.117970	06	0.350920	05	0.210880	06	0.816250	05	0.356170	06	0.465150	05	0.909370	05	0.976790	05	0.106260	06
	0.666920	05	0.464600	05	0.152330	06	0.106830	06	0.566900	06	0.617170	05	0.136740	06	0.744380	05	0.915990	04	0.107420	05
	0.863920	05	0.154040	05	0.104440	06	0.237640	05	0.393580	05	0.139850	05	0.554190	05						
QHVACATN	0.525950	04	0.443050	04	0.215720	05	0.616270	05	0.729950	04	0.823940	04	0.266890	05	0.237530	05	0.521470	05	0.846760	05
	0.955240	05	0.240560	05	0.913400	04	0.282160	05	0.304620	04	0.236380	05	0.719820	04	0.291060	05	0.143770	05	0.180410	05
	0.102130	05	0.271340	04	0.154370	05	0.781710	04	0.514050	05	0.422320	04	0.831930	04	0.782500	04	0.214040	04	0.105370	04
	0.460910	04	0.120950	04	0.152120	05	0.151310	04	0.261410	04	0.230450	04	0.456080	04						
QEVACATN	0.237700	05	0.130180	05	0.199360	05	0.411620	05	0.242120	05	0.210210	05	0.339770	05	0.166420	05	0.184280	05	0.815470	05
	0.316410	05	0.397570	05	0.440060	05	0.103770	06	0.442300	05	0.163020	06	0.304920	05	0.325390	05	0.879710	04	0.135350	05
	0.760930	04	0.255490	05	0.504560	05	0.675290	05	0.229030	06	0.288160	05	0.113240	05	0.210630	05	0.176100	05	0.533630	04

QSVACATN 0.60736D 05 0.27769D 05 0.46810D 05 0.11521D 06 0.75152D 05 0.35462D 05 0.82531D 05 0.63299D 05 0.18966D 06 0.26855D 06
0.51722D 06 0.78550D 05 0.23517D 05 0.16051D 06 0.15693D 05 0.25169D 06 0.30317D 05 0.68307D 05 0.97875D 05 0.12896D 05
0.66193D 05 0.25114D 05 0.88452D 05 0.81040D 05 0.40631D 06 0.41041D 05 0.75387D 05 0.67764D 05 0.38150D 05 0.37002D 04
0.49658D 05 0.90130D 04 0.62223D 05 0.59066D 05 0.13736D 05 0.84736D 04 0.7503D 05

ADJUSTED FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1975 HIGH

STATEWIDE TOTAL QBTRIPON = 0.12512D 08

STATEWIDE TOTAL QCTRIPOB = 0.22512D 08

STATEWIDE TOTAL QFTRIPON = 0.26218D 08

STATEWIDE TOTAL QHTRIPON = 0.74246D 07

STATEWIDE TOTAL QPTRIPON = 0.15130D 08

STATEWIDE TOTAL QSTRIPON = 0.13790D 08

STATEWIDE TOTAL QBVACATN = 0.16060D 07

STATEWIDE TOTAL QCVACATN = 0.56579D 07

STATEWIDE TOTAL QFVACATN = 0.42910D 07

STATEWIDE TOTAL QHVACATN = 0.69121D 06

STATEWIDE TOTAL QPVACATN = 0.17142D 07

STATEWIDE TOTAL QSVACATN = 0.34806D 07

FORECASTED VALUES OF ENDOGENOUS VARIABLES FOR BY REGION FOR 1980 10W

NOTRIPON	0.162640	05	0.132720	05	0.796060	05	0.271100	06	0.147900	06	0.178100	06	0.124110	06	0.148810	06	0.657530	04	0.188550	07
	0.122110	07	0.127580	06	0.122810	06	0.300230	06	0.920510	05	0.201240	07	0.939580	05	0.220290	06	0.232190	06	0.970340	05
	0.365590	06	0.282140	05	0.412430	06	0.207970	06	0.212710	07	0.336840	05	0.164980	06	0.243890	06	0.167570	06	0.754850	05
	0.897130	05	0.141530	06	0.944700	06	0.105370	06	0.227900	06	0.419850	05	0.121300	06						
NOVACATN	0.354990	05	0.138180	05	0.129900	05	0.323390	05	0.308560	05	0.102330	05	0.227930	05	0.118140	05	0.275950	05	0.127810	06
	0.270190	06	0.627540	05	0.337260	05	0.716380	05	0.286410	05	0.152770	06	0.156270	05	0.285770	05	0.319980	05	0.335500	05
	0.200230	05	0.162030	05	0.696420	05	0.455300	05	0.401550	06	0.208940	05	0.600690	05	0.667430	05	0.590480	05	0.276060	04
	0.250250	05	0.139840	05	0.564360	05	0.438960	05	0.154390	05	0.127220	05	0.192320	05						
QBTRIPON	0.147760	05	0.138050	05	0.887060	05	0.290020	06	0.167210	06	0.194880	06	0.135210	06	0.168740	06	0.619580	04	0.203990	07
	0.132470	07	0.128100	06	0.138680	06	0.344930	06	0.100270	06	0.221610	07	0.104730	06	0.229170	06	0.264840	06	0.112260	06
	0.410320	06	0.295520	05	0.448240	06	0.234200	06	0.219970	07	0.336870	05	0.166230	06	0.243950	06	0.170540	06	0.849720	05
	0.955930	05	0.151800	06	0.966910	06	0.107960	06	0.247670	06	0.432700	05	0.134570	06						
QCTRIPON	0.286480	05	0.237090	05	0.140530	06	0.478360	06	0.267350	06	0.316300	05	0.222830	06	0.270920	06	0.129790	05	0.338910	07
	0.220550	07	0.236040	06	0.223050	06	0.554000	06	0.171530	06	0.364680	07	0.169210	06	0.388980	06	0.422460	06	0.180050	06
	0.670190	06	0.537990	05	0.750590	06	0.389320	06	0.393790	07	0.639760	05	0.314440	06	0.455480	06	0.292390	06	0.130310	06
	0.164170	06	0.259830	06	0.172130	07	0.192060	06	0.407350	06	0.739800	05	0.222420	06						
QFTRIPON	0.361250	05	0.287160	05	0.163520	06	0.553980	06	0.309570	06	0.367110	06	0.259190	06	0.312360	06	0.186350	05	0.394360	07
	0.257090	07	0.272520	06	0.262670	06	0.645290	06	0.199660	06	0.416200	07	0.195490	06	0.443920	06	0.487520	06	0.209600	06
	0.777860	06	0.626730	05	0.857180	06	0.440680	06	0.441850	07	0.725100	05	0.345630	06	0.501090	06	0.331580	06	0.151100	06
	0.190520	06	0.291060	06	0.192680	07	0.213540	06	0.461400	06	0.843580	05	0.252670	06						
QHTRIPON	0.145660	05	0.931950	04	0.577630	05	0.202520	06	0.114970	06	0.136380	06	0.935110	05	0.107510	06	0.832070	04	0.139400	07
	0.915890	06	0.885940	05	0.100150	06	0.243710	06	0.668310	05	0.156520	07	0.706150	05	0.174780	06	0.178740	06	0.725340	05
	0.267980	06	0.199530	05	0.310010	06	0.148400	06	0.146850	07	0.235940	05	0.115600	06	0.160040	06	0.146870	06	0.687850	05
	0.638020	05	0.106910	06	0.709000	06	0.884420	05	0.197930	06	0.366980	05	0.895920	05						
QPTRIPON	0.166950	05	0.146230	05	0.960600	05	0.328350	06	0.178700	06	0.218300	06	0.149370	06	0.183900	06	0.636130	04	0.237360	07
	0.149000	07	0.148620	06	0.147740	06	0.369680	06	0.110480	06	0.252640	07	0.112960	06	0.261260	06	0.285430	06	0.117940	06
	0.450780	06	0.332680	05	0.492850	06	0.250900	06	0.254990	07	0.390910	05	0.197030	06	0.287400	06	0.197190	06	0.950360	05
	0.109760	06	0.174840	06	0.115190	07	0.126210	06	0.295360	06	0.510560	05	0.149800	06						
QSTRIPON	0.279170	05	0.201030	05	0.108270	06	0.364270	06	0.206150	06	0.233950	06	0.170220	06	0.202580	06	0.148500	05	0.253050	07
	0.167140	07	0.180280	06	0.172090	06	0.422030	06	0.128340	06	0.271090	07	0.128050	06	0.293950	06	0.323250	06	0.138070	06
	0.500070	06	0.399110	05	0.570010	06	0.294700	06	0.290410	07	0.485450	05	0.235740	06	0.349240	06	0.231400	06	0.101970	06
	0.124750	06	0.192680	06	0.127970	07	0.151170	06	0.307810	06	0.587540	05	0.169510	06						
QBACATN	0.536320	05	0.221900	05	0.276990	05	0.614650	05	0.464770	05	0.180830	05	0.428780	05	0.231050	05	0.833730	05	0.176190	06
	0.320500	06	0.745030	05	0.381420	05	0.937510	05	0.244720	05	0.117930	06	0.190690	05	0.346740	05	0.454440	05	0.465170	05
	0.240900	05	0.132470	05	0.597880	05	0.350600	05	0.218280	06	0.148690	05	0.304900	05	0.269040	05	0.472050	05	0.270930	04
	0.167360	05	0.697360	04	0.325100	05	0.216660	05	0.989020	04	0.785830	04	0.160940	05						
QCVACATN	0.188050	06	0.729070	05	0.655510	05	0.154300	06	0.168110	06	0.505020	05	0.112850	06	0.620530	05	0.126110	06	0.688950	06
	0.154960	07	0.358040	06	0.210970	06	0.439000	06	0.189820	06	0.100900	07	0.918460	05	0.157820	06	0.180360	06	0.201700	06
	0.118400	06	0.111090	06	0.444910	06	0.323160	06	0.277280	07	0.141570	06	0.428660	06	0.498850	06	0.372820	06	0.181020	05
	0.177270	06	0.106870	06	0.380730	06	0.331230	06	0.110670	06	0.877940	05	0.127350	06						
QFVACATN	0.154790	06	0.621830	05	0.637050	05	0.152780	06	0.133430	06	0.467020	05	0.108830	06	0.579850	05	0.165920	06	0.493190	06
	0.939240	06	0.240990	06	0.120900	06	0.265790	06	0.887230	05	0.382510	06	0.568380	05	0.103950	06	0.118730	06	0.126730	06
	0.717590	05	0.485040	05	0.196550	06	0.123280	06	0.872310	06	0.577230	05	0.133550	06	0.125980	06	0.166760	06	0.822610	04
	0.660220	05	0.266800	05	0.110000	05	0.255550	05												

101

QHVACATN 0.114440 05 0.432700 04 0.631770 04 0.198470 05 0.827170 04 0.495370 04 0.116630 05 0.507210 04 0.309620 05 0.339640 05
0.465000 05 0.129670 05 0.354070 04 0.101240 05 0.187930 04 0.101480 05 0.258350 04 0.683160 04 0.730090 04 0.536660 04
0.302940 04 0.921070 03 0.602790 04 0.218280 04 0.177950 05 0.127120 04 0.220920 04 0.178040 04 0.543770 04 0.212460 03
0.103960 04 0.329250 03 0.342860 04 0.123530 04 0.688070 03 0.624260 03 0.128470 04

QPVACATN 0.706500 05 0.281400 05 0.343400 05 0.767360 05 0.618460 05 0.228820 05 0.541840 05 0.297160 05 0.988710 05 0.244460 06
0.466150 06 0.107100 06 0.567000 05 0.137070 06 0.397860 05 0.205460 06 0.271670 05 0.490900 05 0.640290 05 0.668610 05
0.344100 05 0.226340 05 0.962270 05 0.606890 05 0.416090 06 0.261360 05 0.594450 05 0.586700 05 0.773510 05 0.427760 04
0.305360 05 0.144190 05 0.609880 05 0.454280 05 0.189800 05 0.147180 05 0.271260 05

QSVACATN 0.387040 05 0.358650 05 0.457450 05 0.103880 06 0.812810 05 0.297370 05 0.769640 05 0.423600 05 0.154080 06 0.323200 06
0.613580 06 0.137570 06 0.736310 05 0.190130 06 0.499240 05 0.241450 06 0.351030 05 0.583210 05 0.907000 05 0.957180 05
0.499020 05 0.297640 05 0.124590 06 0.807780 05 0.433340 06 0.327880 05 0.638710 05 0.598590 05 0.748000 05 0.491410 04
0.383210 05 0.157690 05 0.675950 05 0.475590 05 0.210600 05 0.168240 05 0.350240 05

FORECASTED STATEWIDE TOTALS OF ENDEGENOUS VARIABLES FOR 1980 LOW

106

STATEWIDE TOTAL NTRIPON = 0.128900 08

STATEWIDE TOTAL NOVACATN = 0.200440 07

STATEWIDE TOTAL QSTRIPON = 0.138530 08

STATEWIDE TOTAL QCTRIPON = 0.234480 08

STATEWIDE TOTAL QFTRIPON = 0.268220 08

STATEWIDE TOTAL QHTRIPON = 0.963790 07

STATEWIDE TOTAL QPTRIPON = 0.157890 08

STATEWIDE TOTAL QSTRIPON = 0.176070 08

STATEWIDE TOTAL QBVACATN = 0.195450 07

STATEWIDE TOTAL QCVACATN = 0.126300 08

STATEWIDE TOTAL QFVACATN = 0.610360 07

STATEWIDE TOTAL QHVACATN = 0.293560 06

STATEWIDE TOTAL QPVACATN = 0.300940 07

STATEWIDE TOTAL QSVACATN = 0.376470 07

ADJUSTED FORECASTED VALUES OF ENDOGENOUS VARIABLES BY REGION FOR 1980 LOW

QBTRIPON	0.993970	04	0.108300	05	0.773750	05	0.267980	06	0.141680	06	0.180070	06	0.124930	06	0.155920	06	0.572490	04	0.186790	07
	0.122400	07	0.118370	06	0.128330	06	0.318720	06	0.926480	05	0.204770	07	0.967680	05	0.210900	06	0.244710	06	0.103730	06
	0.379130	06	0.273060	05	0.414180	06	0.216400	06	0.200810	07	0.311270	05	0.126560	06	0.225410	06	0.992770	04	0.785140	05
	0.883280	05	0.140260	06	0.893430	06	0.997580	05	0.228850	06	0.399820	05	0.124340	06						
QCTRIPOB	0.253120	05	0.190680	05	0.101610	06	0.413730	06	0.234720	06	0.290090	06	0.207900	06	0.252770	06	0.121090	05	0.286160	07
	0.198360	07	0.217140	06	0.547310	05	0.516880	06	0.160040	06	0.340250	07	0.157880	06	0.352760	06	0.385090	06	0.167990	06
	0.625290	06	0.501940	05	0.692600	06	0.363230	06	0.365200	07	0.596900	05	0.293370	06	0.424960	06	0.237340	05	0.121580	06
	0.153170	06	0.242420	06	0.160590	07	0.179190	06	0.380050	06	0.690230	05	0.207520	06						
QFTRIPON	0.262190	05	0.226430	05	0.149590	06	0.511020	06	0.257330	06	0.348760	06	0.243770	06	0.278940	06	0.177030	05	0.361530	07
	0.242520	07	0.252160	06	0.172180	05	0.608120	06	0.189680	06	0.395390	07	0.185720	06	0.421300	06	0.463150	06	0.199120	06
	0.738960	06	0.595390	05	0.811670	06	0.418640	06	0.416400	07	0.679200	05	0.318500	06	0.472700	06	0.308700	05	0.143550	06
	0.181000	06	0.276510	06	0.183050	07	0.202870	06	0.438330	06	0.801410	05	0.240040	06						
QHTRIPON	0.869210	04	0.649400	04	0.432140	05	0.173160	06	0.953520	05	0.116610	06	0.799520	05	0.919180	05	0.711420	04	0.112750	07
	0.771340	06	0.649160	05	0.571150	05	0.208370	06	0.571400	05	0.133830	07	0.603760	05	0.148690	06	0.152830	06	0.618450	05
	0.229120	06	0.170600	05	0.265050	06	0.126880	06	0.125060	07	0.201730	05	0.988410	05	0.136840	06	0.313920	05	0.588110	05
	0.545500	05	0.914050	05	0.606190	06	0.755840	05	0.169230	06	0.313770	05	0.766010	05						
QPTRIPON	0.138730	05	0.126460	05	0.755780	05	0.285190	06	0.126990	06	0.203770	06	0.135770	06	0.164390	06	0.597960	04	0.196790	07
	0.135720	07	0.138020	06	0.694380	05	0.347500	06	0.103850	06	0.235580	07	0.106180	06	0.229870	06	0.268300	06	0.110870	06
	0.423740	06	0.312720	05	0.463270	06	0.235840	06	0.228900	07	0.367450	05	0.181690	06	0.255840	06	0.170530	05	0.595860	05
	0.103180	06	0.164350	06	0.108280	07	0.118640	06	0.277640	06	0.479920	05	0.140810	06						
QSTRIPON	0.211760	05	0.974080	04	0.528140	05	0.296150	06	0.151010	06	0.190200	06	0.134930	06	0.164700	06	0.120730	05	0.183510	07
	0.132620	07	0.141580	06	0.139910	06	0.343110	06	0.104340	06	0.220390	07	0.104100	06	0.231580	06	0.262810	06	0.112250	06
	0.406550	06	0.324480	05	0.449980	06	0.239590	06	0.232320	07	0.394670	05	0.191650	06	0.283930	06	0.178720	05	0.552970	05
	0.101420	06	0.150070	06	0.104040	07	0.122900	06	0.250250	06	0.477670	05	0.137810	06						
QBVACATN	0.381440	05	0.144060	05	0.248240	05	0.594650	05	0.387700	05	0.188460	05	0.277860	05	0.265480	05	0.683980	05	0.150010	06
	0.259980	06	0.505920	05	0.219120	05	0.804670	05	0.281180	05	0.119380	06	0.138470	05	0.290040	05	0.825000	04	0.487980	05
	0.276800	05	0.152210	05	0.407370	05	0.201420	05	0.177570	06	0.170840	05	0.221410	05	0.298920	05	0.574930	04	0.259310	04
	0.176920	05	0.480760	04	0.128870	05	0.248940	05	0.113640	05	0.902920	04	0.184920	05						
QCVACATN	0.820960	05	0.205180	05	0.294880	05	0.442800	05	0.581160	05	0.416870	05	0.603970	05	0.422840	05	0.110390	06	0.310660	06
	0.841310	06	0.142420	06	0.677880	05	0.147380	06	0.113360	06	0.858620	06	0.763240	05	0.849820	05	0.106120	06	0.143480	06
	0.655950	05	0.123090	06	0.138520	06	0.160060	06	0.198780	07	0.147760	06	0.346240	06	0.470370	06	0.739420	05	0.200570	05
	0.196410	06	0.592050	05	0.361950	06	0.137630	06	0.122620	06	0.571980	05	0.881910	05						
QFVACATN	0.620710	05	0.254220	05	0.449010	05	0.832770	05	0.716880	05	0.443410	05	0.718420	05	0.423590	05	0.157350	06	0.302990	06
	0.688230	06	0.114670	06	0.311960	05	0.209010	06	0.786880	05	0.357620	06	0.405690	05	0.791910	05	0.944290	05	0.944220	05
	0.617990	05	0.446440	05	0.144680	06	0.100530	06	0.587550	06	0.601570	05	0.125600	06	0.685330	05	0.912720	04	0.919980	04
	0.737470	05	0.135640	05	0.954850	05	0.200430	05	0.375880	05	0.131210	05	0.508360	05						
QHVCATN	0.224640	04	0.174060	04	0.725800	04	0.283890	05	0.295460	04	0.306860	04	0.101150	05	0.816100	04	0.318330	05	0.434450	05
	0.512500	05	0.117460	05	0.316760	04	0.149860	05	0.158450	04	0.114790	05	0.277260	04	0.917840	04	0.755340	04	0.863480	04
	0.487490	04	0.148200	04	0.683770	04	0.351220	04	0.248530	05	0.204540	04	0.351200	04	0.277010	04	0.971170	03	0.341850	03
	0.167260	04	0.446070	03	0.551690	04	0.580370	03	0.110710	04	0.100440	04	0.206720	04						
QPVCATN	0.291990	05	0.127620	05	0.186800	05	0.428570	05	0.223830	05	0.200380	05	0.298380	05	0.142400	05	0.184430	05	0.890180	05
	0.356160	06	0.398380	05	0.411670	05	0.103650	06	0.444410	05	0.175800	06	0.275840	05	0.290070	05	0.894010	04	0.124720	05
	0.734130	04	0.252820	05	0.506260	05	0.677890	05	0.251440	06	0.291940	05	0.108900	05	0.211020	05	0.185760	05	0.477810	04
	0.321000	05	0.044300	04	0.514330	05	0.117450	05	0.315770	05	0.315770	05	0.315770	05						

05 MAIN 0.1800 05 08 0.267620 05 0.416800 05 0.111340 05 0.748410 05 0.319820 05 0.699570 05 0.530340 05 0.184810 04 0.277190 05
0.500220 06 0.750230 05 0.204650 05 0.153540 08 0.148740 05 0.254540 06 0.259740 05 0.561510 05 0.956150 05 0.114090 06
0.412290 05 0.232910 05 0.431410 05 0.778730 05 0.397140 06 0.392450 05 0.656530 05 0.596550 05 0.369920 05 0.307630 04
0.419370 05 0.805490 04 0.616100 05 0.503740 05 0.131840 05 0.779370 04 0.438500 05

ADJUSTED FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1980 LOW

STATEWIDE TOTAL ORTRIPON = 0.125600 08

STATEWIDE TOTAL OCTRIPON = 0.209620 08

STATEWIDE TOTAL QFTRIPON = 0.246620 08

STATEWIDE TOTAL QUTRIPON = 0.801030 07

STATEWIDE TOTAL QPTRIPON = 0.140090 08

STATEWIDE TOTAL QSTRIPON = 0.137230 08

STATEWIDE TOTAL ORVACATN = 0.158550 07

STATEWIDE TOTAL QCVACATN = 0.794730 07

STATEWIDE TOTAL QFVACATN = 0.421050 07

STATEWIDE TOTAL QHVACATN = 0.325160 06

STATEWIDE TOTAL QPVACATN = 0.177510 07

STATEWIDE TOTAL QSVACATN = 0.335680 07

FORECASTED VALUES OF ENDOGENOUS VARIABLES FOR BY REGION FOR 1980 MEDIUM

NOTRIPON	0.186000	05	0.146980	05	0.840530	05	0.278360	06	0.159880	06	0.191420	06	0.134300	06	0.162080	06	0.733410	04	0.203580	07
	0.130470	07	0.143920	06	0.132580	06	0.314020	06	0.918020	05	0.216510	07	0.102440	06	0.237390	06	0.247160	06	0.104490	06
	0.381110	06	0.287470	05	0.439520	06	0.215000	06	0.218190	07	0.341440	05	0.162490	06	0.242680	06	0.183320	06	0.823280	05
	0.939810	05	0.152010	06	0.103410	07	0.145430	06	0.250440	06	0.452660	05	0.131850	06						
NOVACATN	0.341440	05	0.132040	05	0.124600	05	0.310020	05	0.296290	05	0.979360	04	0.217850	05	0.113280	05	0.269170	05	0.122650	06
	0.259210	06	0.593670	05	0.323580	05	0.694560	05	0.277570	05	0.148710	06	0.150160	05	0.274680	05	0.310070	05	0.324830	05
	0.192750	05	0.156810	05	0.674550	05	0.440800	05	0.386520	06	0.201540	05	0.562200	05	0.641550	05	0.571390	05	0.266420	04
	0.242300	05	0.135130	05	0.547240	05	0.423420	05	0.149210	05	0.123110	05	0.188000	05						
QBTRIPON	0.166140	05	0.149860	05	0.920610	05	0.292990	06	0.177590	06	0.205820	06	0.143620	06	0.180530	06	0.670000	04	0.216620	07
	0.138870	07	0.141600	06	0.147260	06	0.355260	06	0.983510	05	0.234500	07	0.112100	06	0.242630	06	0.277060	06	0.118650	06
	0.420200	06	0.295680	05	0.469400	06	0.237220	06	0.221540	07	0.334850	05	0.159460	06	0.238500	06	0.183810	06	0.911360	05
	0.983000	05	0.160080	06	0.104020	07	0.147970	06	0.267930	06	0.458490	05	0.143910	06						
QCTRIPON	0.339180	05	0.270280	05	0.151430	06	0.500980	06	0.295090	06	0.346770	06	0.246490	06	0.301160	06	0.150130	05	0.373280	07
	0.240750	07	0.273190	06	0.246050	06	0.590580	06	0.174460	06	0.399940	07	0.188430	06	0.427840	06	0.458360	06	0.197740	06
	0.712020	06	0.560890	05	0.815720	06	0.411350	06	0.410870	07	0.662620	05	0.319730	06	0.461860	06	0.327120	06	0.144930	06
	0.175430	06	0.284900	06	0.192400	07	0.270180	06	0.456070	06	0.814190	05	0.246350	06						
QFTRIPON	0.415370	05	0.321820	05	0.174520	06	0.574410	06	0.338560	06	0.399160	06	0.284130	06	0.344510	06	0.206020	05	0.431060	07
	0.278140	07	0.312240	06	0.287210	06	0.681730	06	0.201080	06	0.452500	07	0.215790	06	0.483960	06	0.524340	06	0.228000	06
	0.819710	06	0.646760	05	0.923250	06	0.460660	06	0.457660	07	0.743770	05	0.349030	06	0.504180	06	0.367190	06	0.166720	06
	0.201630	06	0.316050	06	0.213270	07	0.297370	06	0.511810	06	0.919010	05	0.277370	06						
QHTRIPON	0.143900	05	0.916420	04	0.560850	05	0.191770	06	0.113920	06	0.134930	06	0.923640	05	0.107530	06	0.794980	04	0.138570	07
	0.895950	06	0.891500	05	0.988350	05	0.235690	06	0.617190	05	0.155410	07	0.704730	05	0.173000	06	0.175720	06	0.716440	05
	0.258320	06	0.186000	05	0.304440	06	0.140330	06	0.140650	07	0.220200	05	0.101200	06	0.147810	06	0.146510	06	0.691400	05
	0.615790	05	0.105250	06	0.710020	06	0.110120	06	0.200850	06	0.363190	05	0.899020	05						
QPTRIPON	0.201900	05	0.168300	05	0.103710	06	0.344390	06	0.197860	06	0.239630	06	0.165610	06	0.204890	06	0.766580	04	0.261880	07
	0.163010	07	0.173220	06	0.163640	06	0.394990	06	0.113100	06	0.277120	07	0.126050	06	0.287780	06	0.310470	06	0.129740	06
	0.479820	06	0.351230	05	0.536090	06	0.264310	06	0.268540	07	0.407450	05	0.203790	06	0.292800	06	0.221760	06	0.105880	06
	0.117170	06	0.190920	06	0.128210	07	0.179230	06	0.330100	06	0.561470	05	0.165840	06						
QSTRIPON	0.306200	05	0.217110	05	0.113310	06	0.371510	06	0.220350	06	0.249150	06	0.181840	06	0.218250	06	0.157330	05	0.270230	07
	0.176490	07	0.198470	06	0.183260	06	0.437150	06	0.127240	06	0.289220	07	0.137990	06	0.313650	06	0.341110	06	0.146980	06
	0.516990	06	0.402300	05	0.601830	06	0.301900	06	0.296360	07	0.487370	05	0.227240	06	0.344690	06	0.249750	06	0.110230	06
	0.129490	06	0.205200	06	0.138840	07	0.204710	06	0.336120	06	0.627220	05	0.182600	06						
QBVCATN	0.539230	05	0.225400	05	0.279690	05	0.621680	05	0.469080	05	0.183430	05	0.434980	05	0.233370	05	0.818450	05	0.177710	06
	0.324430	06	0.774070	05	0.397200	05	0.932820	05	0.244670	05	0.115920	06	0.192730	05	0.349870	05	0.450950	05	0.493710	05
	0.243360	05	0.132680	05	0.596060	05	0.350570	05	0.223960	06	0.151110	05	0.336990	05	0.278670	05	0.469520	05	0.271600	04
	0.167960	05	0.703220	04	0.321590	05	0.216290	05	0.994270	04	0.787170	04	0.156560	05						
QCVACATN	0.167420	06	0.637370	05	0.577120	05	0.135070	06	0.149260	06	0.441300	05	0.982610	05	0.547440	05	0.115770	06	0.610150	06
	0.137650	07	0.306450	06	0.188320	06	0.401960	06	0.174140	06	0.935030	06	0.820370	05	0.140600	06	0.164330	06	0.183910	06
	0.106340	06	0.101690	06	0.406950	06	0.296020	06	0.250810	07	0.128530	06	0.362680	06	0.450780	06	0.340000	06	0.164220	05
	0.162540	06	0.976720	05	0.349450	06	0.301710	06	0.101040	06	0.803110	05	0.119240	06						
QFVCATN	0.156290	06	0.629730	05	0.644560	05	0.154760	06	0.134940	06	0.473780	05	0.110340	06	0.588570	05	0.165050	06	0.499370	06
	0.952350	06	0.247230	06	0.122800	06	0.267110	06	0.879590	05	0.382370	06	0.575990	05	0.105280	06	0.119380	06	0.127300	05
	0.729060	05	0.490640	05	0.192030	06	0.124370	06	0.894920	06	0.588800	05	0.144080	06	0.130050	06	0.168110	06	0.832000	04
	0.667370	05	0.269920	05	0.119530	06	0.861750	05	0.339590	05	0.284290	05	0.550370	05						

QPVACATN 0.159900 05 0.632370 04 0.892430 04 0.280360 05 0.117160 05 0.708430 04 0.168750 05 0.720850 04 0.387450 05 0.483180 05
0.670030 05 0.206400 05 0.515710 04 0.135400 05 0.256300 04 0.133760 05 0.368150 04 0.963490 04 0.971680 04 0.723900 04
0.425910 04 0.127530 04 0.820800 04 0.304490 04 0.257700 05 0.180150 04 0.407220 04 0.267280 04 0.744150 04 0.297520 03
0.145000 04 0.479560 03 0.469440 04 0.179840 04 0.972340 03 0.870590 03 0.163900 04

QPVACATN 0.720080 05 0.288560 05 0.350510 05 0.784360 05 0.631240 05 0.234110 05 0.554370 05 0.303010 05 0.991620 05 0.249170 06
0.477040 06 0.111410 06 0.580700 05 0.138540 06 0.404210 05 0.206390 06 0.277280 05 0.500910 05 0.645480 05 0.676240 05
0.350930 05 0.229940 05 0.974420 05 0.616710 05 0.429650 06 0.268500 05 0.646410 05 0.607830 05 0.783550 05 0.434460 04
0.310330 05 0.147080 05 0.614860 05 0.457240 05 0.192880 05 0.149680 05 0.271130 05

QSVACATN 0.927850 05 0.379260 05 0.477280 05 0.109080 06 0.852490 05 0.312830 05 0.805750 05 0.440800 05 0.156710 06 0.337250 06
0.645130 06 0.147570 06 0.773640 05 0.195920 06 0.522600 05 0.250200 06 0.369450 05 0.615820 05 0.936260 05 0.988270 05
0.521230 05 0.315870 05 0.130100 06 0.844410 05 0.475790 06 0.347120 05 0.720510 05 0.662210 05 0.787780 05 0.516710 04
0.402210 05 0.169240 05 0.715040 05 0.512570 05 0.224710 05 0.177860 05 0.357360 05

FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1980 MEDIUM

STATEWIDE TOTAL NTRIPON = 0.137340 08

STATEWIDE TOTAL NOVACATN = 0.192990 07

STATEWIDE TOTAL QBTRIPON = 0.145060 08

STATEWIDE TOTAL QCTRIPOB = 0.254760 08

STATEWIDE TOTAL QFTRIPON = 0.288960 08

STATEWIDE TOTAL QHTRIPON = 0.946910 07

STATEWIDE TOTAL QPTRIPON = 0.172070 08

STATEWIDE TOTAL QSTRIPON = 0.185820 08

STATEWIDE TOTAL QBVACATN = 0.197190 07

STATEWIDE TOTAL QCVACATN = 0.113790 08

STATEWIDE TOTAL QFVACATN = 0.619150 07

STATEWIDE TOTAL QHVACATN = 0.412500 06

STATEWIDE TOTAL QPVACATN = 0.307300 07

STATEWIDE TOTAL QSVACATN = 0.396900 07

ADJUSTED FORECASTED VALUES OF ENDOGENOUS VARIABLES BY REGION FOR 1980 MEDIUM

QBTRIPON	0.11175D 05	0.11756D 05	0.87301D 05	0.27072D 06	0.15047D 06	0.19018D 06	0.13271D 06	0.16681D 06	0.61908D 04	0.19836D 07
	0.12832D 07	0.13083D 05	0.13607D 06	0.32826D 06	0.90877D 05	0.21667D 07	0.10358D 06	0.22334D 06	0.25600D 06	0.10964D 06
	0.39827D 06	0.27321D 05	0.43373D 06	0.21919D 06	0.20224D 07	0.30940D 05	0.12141D 06	0.22038D 06	0.10700D 05	0.84209D 05
	0.90829D 05	0.14792D 06	0.96113D 06	0.13673D 06	0.24757D 06	0.42365D 05	0.13297D 06			
QCTRIPO	0.29968D 05	0.21737D 05	0.10950D 06	0.43329D 06	0.25907D 06	0.31804D 06	0.22998D 06	0.28098D 06	0.14007D 05	0.31518D 07
	0.21653D 07	0.25131D 06	0.60375D 05	0.55101D 06	0.16278D 06	0.37315D 07	0.17581D 06	0.38800D 06	0.41781D 06	0.18449D 06
	0.66432D 06	0.52331D 05	0.75270D 06	0.38379D 06	0.38104D 07	0.61823D 05	0.29831D 06	0.43092D 06	0.26552D 05	0.13522D 06
	0.16368D 06	0.26582D 06	0.17951D 07	0.25208D 06	0.42551D 06	0.75964D 05	0.22984D 06			
QFTRIPON	0.30147D 05	0.25376D 05	0.15966D 06	0.52986D 06	0.28143D 06	0.37921D 06	0.26723D 06	0.30764D 06	0.19572D 05	0.39517D 07
	0.26239D 07	0.28892D 06	0.18826D 05	0.64246D 06	0.19103D 06	0.42987D 07	0.20500D 06	0.45930D 06	0.49812D 06	0.21660D 06
	0.77873D 06	0.61442D 05	0.87358D 06	0.43763D 06	0.43130D 07	0.69669D 05	0.32163D 06	0.47562D 06	0.34185D 05	0.15839D 06
	0.19155D 06	0.30024D 06	0.20261D 07	0.28250D 06	0.48622D 06	0.87306D 05	0.26350D 06			
QHTRIPON	0.87847D 04	0.63858D 04	0.41959D 05	0.16396D 06	0.94476D 05	0.11537D 06	0.78971D 05	0.91939D 05	0.67970D 04	0.11208D 07
	0.75455D 06	0.65323D 05	0.56364D 05	0.20151D 06	0.52770D 05	0.13288D 07	0.60254D 05	0.14718D 06	0.15024D 06	0.61256D 05
	0.22086D 06	0.15903D 05	0.26030D 06	0.11999D 06	0.11977D 07	0.18827D 05	0.86522D 05	0.12638D 06	0.31317D 05	0.59115D 05
	0.52650D 05	0.89993D 05	0.60707D 06	0.94150D 05	0.17173D 06	0.31052D 05	0.76866D 05			
QPTRIPON	0.16777D 05	0.14555D 05	0.81593D 05	0.29912D 06	0.14061D 06	0.22368D 06	0.15953D 06	0.18316D 06	0.72059D 04	0.21712D 07
	0.14843D 07	0.16087D 06	0.76911D 05	0.37129D 06	0.10631D 06	0.25841D 07	0.11843D 06	0.25320D 06	0.29184D 06	0.12196D 06
	0.45103D 06	0.33015D 05	0.50392D 06	0.24845D 06	0.24107D 07	0.38300D 05	0.18793D 06	0.26065D 06	0.19177D 05	0.66382D 05
	0.11014D 06	0.17946D 06	0.12052D 07	0.16848D 06	0.31030D 06	0.52778D 05	0.15589D 06			
QSTRIPON	0.23226D 05	0.10520D 05	0.55270D 05	0.30203D 06	0.16141D 06	0.20256D 06	0.14414D 06	0.17744D 06	0.12791D 05	0.19597D 07
	0.14004D 07	0.15587D 06	0.14899D 06	0.35540D 06	0.10345D 06	0.23514D 07	0.11219D 06	0.24709D 06	0.27732D 06	0.11949D 06
	0.42031D 06	0.32707D 05	0.47510D 06	0.24544D 06	0.23708D 07	0.39623D 05	0.18475D 06	0.28023D 06	0.19289D 05	0.59775D 05
	0.10527D 06	0.15982D 06	0.11287D 07	0.16643D 06	0.27327D 06	0.50993D 05	0.14846D 06			
QBVCATN	0.38351D 05	0.14633D 05	0.25066D 05	0.60145D 05	0.39129D 05	0.19116D 05	0.28189D 05	0.26814D 05	0.67144D 05	0.15131D 06
	0.26318D 06	0.52564D 05	0.22245D 05	0.80064D 05	0.28113D 05	0.11734D 06	0.13995D 05	0.29266D 05	0.81866D 04	0.48645D 05
	0.27962D 05	0.15245D 05	0.40613D 05	0.20140D 05	0.18219D 06	0.17363D 05	0.24471D 05	0.30963D 05	0.57185D 04	0.25996D 04
	0.17755D 05	0.48480D 04	0.12748D 05	0.24852D 05	0.11424D 05	0.90446D 04	0.17989D 05			
QCVCATN	0.73089D 05	0.17938D 05	0.25962D 05	0.38760D 05	0.51599D 05	0.36427D 05	0.60424D 05	0.37304D 05	0.10134D 06	0.27515D 06
	0.74733D 06	0.12190D 06	0.60511D 05	0.13495D 06	0.10400D 06	0.79566D 06	0.68173D 05	0.75710D 05	0.96684D 05	0.13082D 06
	0.58911D 05	0.11268D 06	0.12670D 06	0.14661D 06	0.17980D 07	0.13415D 06	0.29294D 06	0.42505D 06	0.67434D 05	0.18196D 05
	0.18009D 06	0.54110D 05	0.33221D 06	0.12536D 06	0.11195D 06	0.52323D 05	0.82571D 05			
QFVCATN	0.62672D 05	0.25745D 05	0.45430D 05	0.84360D 05	0.72502D 05	0.44983D 05	0.72840D 05	0.42850D 05	0.15652D 06	0.30697D 06
	0.69784D 06	0.11764D 06	0.31685D 05	0.21005D 06	0.79784D 05	0.35749D 06	0.41105D 05	0.80204D 05	0.94941D 05	0.94877D 05
	0.62787D 05	0.45159D 05	0.14577D 06	0.10141D 06	0.60277D 06	0.61362D 05	0.13551D 06	0.70743D 05	0.92014D 04	0.92355D 04
	0.74545D 05	0.13718D 05	0.95730D 05	0.20118D 05	0.37932D 05	0.13242D 05	0.50472D 05			
QHVCATN	0.31387D 04	0.25461D 04	0.10229D 05	0.40102D 05	0.41850D 04	0.43885D 04	0.14635D 05	0.11599D 05	0.39836D 05	0.61806D 06
	0.73843D 05	0.18697D 05	0.46135D 04	0.20044D 05	0.21609D 04	0.15130D 05	0.39510D 04	0.12945D 05	0.10053D 05	0.11647D 05
	0.68528D 04	0.20520D 04	0.93107D 04	0.48992D 04	0.35991D 05	0.28986D 04	0.64735D 04	0.41586D 04	0.13290D 04	0.47871D 03
	0.23331D 04	0.64970D 03	0.75533D 04	0.84494D 03	0.15645D 04	0.14008D 04	0.26372D 04			
QPVCATN	0.29760D 05	0.13086D 05	0.19067D 05	0.43806D 05	0.22845D 05	0.20502D 05	0.30528D 05	0.14520D 05	0.18498D 05	0.90734D 05
	0.34470D 06	0.41441D 05	0.42161D 05	0.10477D 06	0.45151D 05	0.17659D 06	0.28154D 05	0.29599D 05	0.90125D 04	0.12615D 05
	0.74871D 04	0.25694D 05	0.51265D 05	0.68886D 05	0.25963D 06	0.29991D 05	0.11841D 05	0.21862D 05	0.18817D 05	0.46530D 05
	0.34664D 05	0.98570D 04	0.51853D 05	0.11339D 05	0.21544D 05	0.89114D 04	0.15143D 05			

OSVACATN 0.60755D 05 0.28310D 05 0.43263D 05 0.11936D 06 0.69056D 05 0.33644D 05 0.73239D 05 0.55189D 05 0.18777D 06 0.29008D 06
0.57751D 06 0.30367D 05 0.21503D 05 0.19821D 06 0.15572D 05 0.26376D 06 0.27337D 05 0.59290D 05 0.98699D 05 0.11779D 06
0.63952D 05 0.24717D 05 0.36322D 05 0.81404D 05 0.43665D 06 0.41547D 05 0.74061D 05 0.65995D 05 0.38959D 05 0.32346D 04
0.43911D 05 0.36452D 04 0.65173D 05 0.54291D 05 0.14067D 05 0.82392D 04 0.44741D 05

ADJUSTED FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1980 MEDIUM

STATEWIDE TOTAL QBTRIPON = 0.13150D 08

STATEWIDE TOTAL QCTRIPOB = 0.22761D 08

STATEWIDE TOTAL QFTRIPON = 0.26556D 08

STATEWIDE TOTAL QHTRIPON = 0.73681D 07

STATEWIDE TOTAL QPTRIPON = 0.15260D 08

STATEWIDE TOTAL QSTRIPON = 0.14482D 08

STATEWIDE TOTAL QBVACATN = 0.15994D 07

STATEWIDE TOTAL QCVACATN = 0.71730D 07

STATEWIDE TOTAL QFVACATN = 0.42703D 07

STATEWIDE TOTAL QHVACATN = 0.45698D 06

STATEWIDE TOTAL QPVACATN = 0.18109D 07

STATEWIDE TOTAL QSVACATN = 0.35365D 07

FORECASTED VALUES OF ENDOGENOUS VARIABLES FOR BY REGION FOR 1980 HIGH

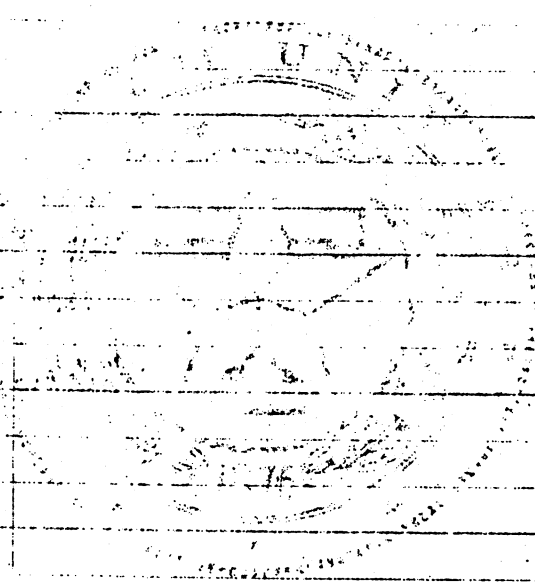
NOTRIPON	0.207330	05	0.162610	05	0.895700	05	0.297070	06	0.168800	05	0.203910	06	0.140720	06	0.172680	06	0.752210	04	0.213930	07
	0.137420	07	0.156630	06	0.140290	06	0.324980	06	0.906070	05	0.230960	07	0.110100	06	0.254050	06	0.258520	06	0.109500	05
	0.392510	06	0.287640	05	0.461800	06	0.226140	06	0.214690	07	0.329640	05	0.141950	06	0.253090	06	0.196740	06	0.881510	05
	0.976780	05	0.162210	06	0.106880	07	0.186800	06	0.269560	06	0.482710	05	0.142150	06						
NOVACATN	0.331190	05	0.127610	05	0.120850	05	0.300720	05	0.287010	05	0.950000	04	0.210890	05	0.109790	05	0.263810	05	0.118860	06
	0.250950	06	0.568330	05	0.313270	05	0.677910	05	0.271750	05	0.144770	06	0.145960	05	0.266810	05	0.302430	05	0.316560	05
	0.187220	05	0.154270	05	0.656280	05	0.430010	05	0.376740	06	0.195620	05	0.549160	05	0.621450	05	0.556180	05	0.259560	04
	0.235930	05	0.132270	05	0.537080	05	0.410940	05	0.145770	05	0.119870	05	0.182310	05						
QBTRIPON	0.179890	05	0.161240	05	0.959040	05	0.305820	06	0.183340	05	0.214510	06	0.147090	06	0.188200	06	0.649210	04	0.223100	07
	0.142820	07	0.150170	06	0.152200	06	0.359790	06	0.949610	05	0.244760	07	0.117850	06	0.254030	06	0.283810	06	0.121580	05
	0.423970	06	0.288470	05	0.482660	06	0.244050	06	0.187400	06	0.212960	07	0.314720	05	0.133330	06	0.243980	06	0.193230	06
	0.999150	05	0.167140	06	0.105140	07	0.184700	06	0.282390	06	0.478010	05	0.151580	06						
QCTRIPON	0.390100	05	0.307130	05	0.164760	06	0.545680	06	0.318060	06	0.376820	06	0.263720	06	0.327410	06	0.160310	05	0.400400	07
	0.258990	07	0.304500	06	0.265960	06	0.623250	06	0.175610	06	0.435390	07	0.206780	05	0.467360	06	0.483670	05	0.211610	05
	0.747390	06	0.572710	05	0.874540	06	0.441840	06	0.411900	07	0.654640	05	0.287810	06	0.490470	06	0.358940	06	0.188270	05
	0.186140	06	0.310530	06	0.203200	07	0.353400	06	0.500480	06	0.886870	05	0.271170	06						
QFTRIPON	0.466730	05	0.360230	05	0.186220	06	0.620390	06	0.361650	06	0.430300	06	0.301230	06	0.371580	06	0.213660	05	0.458720	07
	0.296580	07	0.344670	06	0.307700	06	0.712980	06	0.200430	06	0.488650	07	0.234810	06	0.524230	06	0.554480	06	0.241710	05
	0.853430	06	0.653660	05	0.981330	06	0.490290	06	0.454940	07	0.727360	05	0.310200	06	0.531560	06	0.399110	06	0.160360	05
	0.211990	06	0.341490	06	0.223060	07	0.385890	06	0.556820	06	0.991660	05	0.302780	06						
QHTRIPON	0.139920	05	0.903870	04	0.548370	05	0.188040	06	0.110400	06	0.132300	06	0.888020	05	0.105310	06	0.726050	04	0.133770	07
	0.865020	06	0.876370	05	0.958020	05	0.225120	06	0.564120	05	0.152350	07	0.694570	05	0.170000	06	0.169540	06	0.690390	05
	0.245920	06	0.172070	05	0.294250	06	0.135330	06	0.128520	07	0.195850	05	0.799490	05	0.142940	06	0.143530	06	0.681880	05
	0.588050	05	0.102840	06	0.670880	06	0.129180	06	0.199250	06	0.354770	05	0.888530	05						
QPTRIPON	0.233910	05	0.191510	05	0.112500	06	0.374040	06	0.212580	06	0.259570	06	0.176500	06	0.222170	06	0.621520	04	0.280340	07
	0.174980	07	0.193220	06	0.176490	05	0.415240	06	0.113450	06	0.300550	07	0.136000	06	0.213450	06	0.330120	06	0.138300	05
	0.502120	06	0.357510	05	0.572560	06	0.282820	06	0.268490	07	0.400480	05	0.182590	06	0.310610	05	0.242980	06	0.115290	05
	0.123750	06	0.206950	06	0.134190	07	0.235540	06	0.360200	06	0.608900	05	0.101020	06						
QSTRIPON	0.329540	05	0.234680	05	0.119420	06	0.392300	06	0.230140	06	0.262790	06	0.188480	06	0.230040	06	0.158310	05	0.280720	07
	0.183850	07	0.212250	06	0.191600	06	0.448190	06	0.124820	06	0.305300	07	0.145600	06	0.332060	06	0.353350	06	0.152500	06
	0.527870	06	0.400030	05	0.625900	06	0.314140	06	0.289710	07	0.467470	05	0.197200	05	0.355820	06	0.264420	06	0.116890	06
	0.133200	06	0.216610	06	0.142050	07	0.259020	06	0.358850	06	0.661310	05	0.194690	06						
QBVACATN	0.536350	05	0.225510	05	0.277850	05	0.617000	05	0.469330	05	0.182150	05	0.434910	05	0.232570	05	0.803230	05	0.177780	06
	0.325490	06	0.794810	05	0.389210	05	0.922000	05	0.240610	05	0.114580	06	0.191160	05	0.346960	05	0.444530	05	0.459130	05
	0.242610	05	0.129040	05	0.591540	05	0.345330	05	0.223140	06	0.152370	05	0.330530	05	0.283050	05	0.463490	05	0.268100	04
	0.166580	05	0.682670	04	0.309510	05	0.214300	05	0.973870	04	0.779330	04	0.156290	05						
QCVACATN	0.151900	06	0.571810	05	0.521370	05	0.121640	06	0.135130	06	0.398280	05	0.881790	05	0.495060	05	0.107440	06	0.552610	06
	0.124800	07	0.269070	06	0.171470	06	0.373570	06	0.163490	06	0.865310	06	0.752480	05	0.128320	06	0.151910	06	0.170100	05
	0.974090	05	0.967060	05	0.375610	06	0.275810	06	0.233200	07	0.118180	06	0.338280	06	0.414130	06	0.313980	06	0.152160	05
	0.150800	06	0.918650	05	0.329720	06	0.278420	06	0.944890	05	0.744500	05	0.109340	06						
QFVACATN	0.158550	06	0.640690	05	0.653130	05	0.156820	06	0.137080	06	0.480420	05	0.112120	06	0.595090	05	0.165530	06	0.509010	06
	0.971260	05	0.143460	06	0.142240	06	0.270050	06	0.999490	05	0.370110	06	0.100110	06	0.100110	06	0.100110	06	0.100110	06

116

QHVACATN 0.20959D 05 0.84974D 04 0.11591D 05 0.36383D 05 0.15515D 05 0.92104D 04 0.22268D 05 0.94660D 04 0.46899D 05 0.63771D 05
0.87637D 05 0.29809D 05 0.69623D 04 0.17163D 05 0.32122D 04 0.17525D 05 0.47964D 04 0.12550D 05 0.12305D 05 0.92683D 04
0.55818D 04 0.15407D 04 0.10744D 05 0.39537D 04 0.33562D 05 0.24172D 04 0.52647D 04 0.36948D 04 0.96875D 04 0.38510D 03
0.19157D 04 0.61619D 03 0.58149D 04 0.24493D 04 0.12493D 04 0.11457D 04 0.221.2D 04

QPVACATN 0.73000D 05 0.29365D 05 0.35447D 05 0.79278D 05 0.64132D 05 0.23667D 05 0.56277D 05 0.30685D 05 0.99517D 05 0.25316D 06
0.48595D 06 0.11485D 06 0.59144D 05 0.13975D 06 0.40791D 05 0.20853D 06 0.28027D 05 0.50652D 05 0.65014D 05 0.68282D 05
0.35610D 05 0.23098D 05 0.98712D 05 0.62281D 05 0.43766D 06 0.27562D 05 0.66247D 05 0.62380D 05 0.79129D 05 0.43822D 04
0.31485D 05 0.14760D 05 0.61356D 05 0.46091D 05 0.19411D 05 0.15144D 05 0.27504D 05

QSVACATN 0.92723D 05 0.38002D 05 0.47679D 05 0.10893D 06 0.85856D 05 0.31250D 05 0.80948D 05 0.44150D 05 0.15609D 06 0.33913D 06
0.65171D 06 0.15223D 06 0.78138D 05 0.19497D 06 0.51616D 05 0.24873D 06 0.36834D 05 0.61393D 05 0.92991D 05 0.98641D 05
0.52168D 05 0.30913D 05 0.12973D 06 0.83540D 05 0.47679D 06 0.35054D 05 0.68423D 05 0.67408D 05 0.78306D 05 0.51304D 04
0.39966D 05 0.16422D 05 0.68863D 05 0.51384D 05 0.22020D 05 0.17700D 05 0.35922D 05



FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1980 HIGH

118

STATEWIDE TOTAL NOTRIPCN = 0.14329D 08

STATEWIDE TOTAL NOVACATN = 0.18763D 07

STATEWIDE TOTAL QBTRIPON = 0.14811D 08

STATEWIDE TOTAL QCTRIPON = 0.27117D 08

STATEWIDE TOTAL QFTRIPON = 0.30501D 08

STATEWIDE TOTAL QHTRIPON = 0.90967D 07

STATEWIDE TOTAL QPTRIPON = 0.18269D 08

STATEWIDE TOTAL QSTRIPON = 0.19191D 08

STATEWIDE TOTAL QBVACATN = 0.19632D 07

STATEWIDE TOTAL QCVACATN = 0.10479D 08

STATEWIDE TOTAL QFVACATN = 0.62977D 07

STATEWIDE TOTAL QHVACATN = 0.54008D 06

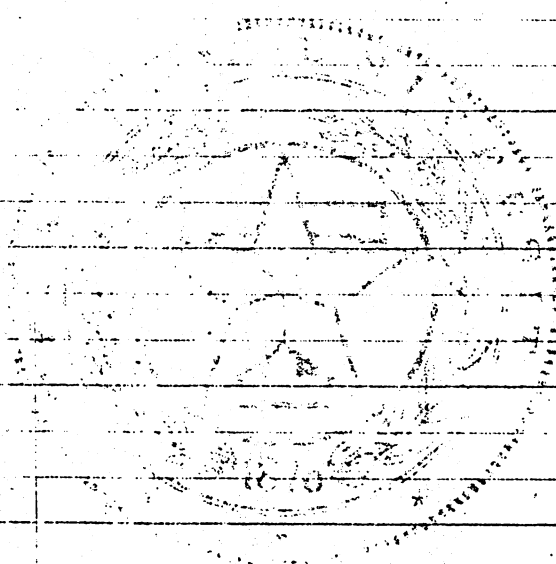
STATEWIDE TOTAL QPVACATN = 0.31183D 07

STATEWIDE TOTAL QSVACATN = 0.39717D 07

ADJUSTED FORECASTED VALUES OF ENDOGENOUS VARIABLES BY REGION FOR 1980 HIGH

QBTRIPON	0.12101D 05	0.12649D 05	0.83653D 05	0.28258D 06	0.15535D 06	0.19820D 06	0.13592D 06	0.17390D 06	0.59987D 04	0.20429D 07
	0.13197D 07	0.13875D 06	0.14064D 06	0.33245D 06	0.87744D 05	0.22616D 07	0.10889D 06	0.23378D 06	0.26224D 06	0.11234D 06
	0.39165D 06	0.26654D 05	0.44598D 06	0.22550D 06	0.19441D 07	0.29080D 05	0.10152D 06	0.22544D 06	0.11248D 05	0.88274D 05
	0.92321D 05	0.15444D 06	0.97145D 06	0.17315D 06	0.26093D 06	0.44168D 05	0.14006D 06			
QCTRIPO	0.34467D 05	0.24701D 05	0.11913D 06	0.47195D 06	0.27924D 06	0.34559D 06	0.24605D 06	0.30547D 06	0.14957D 05	0.33808D 07
	0.23293D 07	0.28012D 06	0.65260D 05	0.58149D 06	0.16384D 06	0.40621D 07	0.19293D 06	0.42384D 06	0.44563D 06	0.19743D 06
	0.69732D 06	0.53434D 05	0.80697D 06	0.41224D 06	0.38200D 07	0.61078D 05	0.26853D 06	0.45761D 06	0.29135D 05	0.14767D 06
	0.17367D 06	0.28972D 06	0.18959D 07	0.32972D 06	0.46695D 06	0.82745D 05	0.25300D 06			
QFTRIPON	0.33875D 05	0.28404D 05	0.17219D 06	0.57228D 06	0.30062D 06	0.40879D 06	0.28331D 06	0.33182D 06	0.20298D 05	0.42053D 07
	0.27978D 07	0.31892D 06	0.20170D 05	0.67191D 06	0.19041D 06	0.46421D 07	0.22307D 06	0.49756D 06	0.52675D 06	0.22963D 06
	0.91076D 06	0.62098D 05	0.92854D 06	0.46578D 06	0.42873D 07	0.68132D 05	0.28640D 06	0.50144D 06	0.37159D 05	0.17163D 06
	0.20140D 06	0.32442D 06	0.21191D 07	0.36660D 06	0.52898D 06	0.94208D 05	0.28764D 06			
QHTRIPON	0.85415D 04	0.62984D 04	0.41025D 05	0.16078D 06	0.91564D 05	0.11312D 06	0.75932D 05	0.90043D 05	0.62076D 04	0.10820D 07
	0.72850D 06	0.64214D 05	0.54635D 05	0.19248D 06	0.48232D 05	0.13026D 07	0.59386D 05	0.14462D 06	0.14496D 06	0.59071D 05
	0.21026D 06	0.14712D 05	0.25159D 06	0.11570D 06	0.10945D 07	0.16745D 05	0.68357D 05	0.12221D 06	0.30680D 05	0.58301D 05
	0.50279D 05	0.87925D 05	0.57360D 06	0.11045D 06	0.17036D 06	0.30333D 05	0.75969D 05			
QPTRIPON	0.19437D 05	0.16562D 05	0.88516D 05	0.32488D 06	0.15107D 06	0.24229D 06	0.16043D 06	0.19861D 06	0.77233D 04	0.23267D 07
	0.15938D 07	0.17927D 06	0.82952D 05	0.39061D 06	0.10664D 06	0.28025D 07	0.12972D 06	0.27581D 06	0.31031D 06	0.13000D 06
	0.47199D 06	0.33606D 05	0.53820D 06	0.26585D 06	0.24102D 07	0.37645D 05	0.16837D 06	0.27650D 06	0.21013D 05	0.72276D 05
	0.11633D 06	0.19453D 06	0.12614D 07	0.22141D 06	0.33859D 06	0.57236D 05	0.17091D 06			
QSTRIPON	0.24997D 05	0.11371D 05	0.58255D 05	0.31894D 06	0.16858D 06	0.21365D 06	0.14941D 06	0.18702D 06	0.12870D 05	0.20358D 07
	0.14588D 07	0.16669D 06	0.15577D 06	0.36438D 06	0.10148D 06	0.24821D 07	0.11919D 06	0.26160D 06	0.28728D 06	0.12398D 06
	0.42916D 06	0.32523D 05	0.49410D 06	0.25539D 06	0.23176D 07	0.38006D 05	0.16032D 06	0.28929D 06	0.20423D 05	0.63388D 05
	0.10829D 06	0.16871D 06	0.11549D 07	0.21058D 06	0.29175D 06	0.53765D 05	0.15828D 06			
QBVCATN	0.38147D 05	0.14640D 05	0.24901D 05	0.59692D 05	0.39151D 05	0.18982D 05	0.28184D 05	0.26723D 05	0.65896D 05	0.15136D 06
	0.26403D 06	0.53972D 05	0.22360D 05	0.79135D 05	0.27646D 05	0.11599D 06	0.13881D 05	0.29022D 05	0.80701D 04	0.48164D 05
	0.27875D 05	0.14826D 05	0.40305D 05	0.19839D 05	0.18152D 06	0.17507D 05	0.24002D 05	0.31447D 05	0.56450D 04	0.25660D 04
	0.17609D 05	0.47064D 04	0.12269D 05	0.24623D 05	0.11190D 05	0.89545D 04	0.17958D 05			
QCVACATN	0.66313D 05	0.16092D 05	0.23454D 05	0.34908D 05	0.46713D 05	0.32877D 05	0.54225D 05	0.33735D 05	0.94076D 05	0.24920D 06
	0.67755D 06	0.10703D 06	0.55096D 05	0.12542D 06	0.97641D 05	0.73633D 06	0.62531D 05	0.69099D 05	0.39376D 05	0.12102D 06
	0.53964D 05	0.10715D 06	0.11694D 06	0.13660D 06	0.16718D 07	0.12335D 06	0.27324D 06	0.39049D 06	0.62273D 05	0.16859D 05
	0.16709D 06	0.50893D 05	0.31346D 06	0.11568D 06	0.10469D 06	0.48504D 05	0.75719D 05			
QFVACATN	0.63581D 05	0.26193D 05	0.46034D 05	0.85483D 05	0.73651D 05	0.45614D 05	0.74014D 05	0.43472D 05	0.15698D 06	0.31271D 06
	0.71154D 06	0.12118D 06	0.32316D 05	0.21236D 06	0.80671D 05	0.36304D 06	0.41709D 05	0.81408D 05	0.95923D 05	0.95363D 05
	0.63807D 05	0.45407D 05	0.14804D 06	0.10266D 06	0.61526D 06	0.62639D 05	0.13902D 06	0.72871D 05	0.93241D 04	0.94181D 04
	0.75660D 05	0.13863D 05	0.96345D 05	0.20425D 05	0.38427D 05	0.13477D 05	0.51403D 05			
QHVACATN	0.41143D 04	0.34181D 04	0.13317D 05	0.52042D 05	0.55418D 04	0.57055D 04	0.19312D 05	0.15231D 05	0.48219D 05	0.81573D 05
	0.98850D 05	0.27003D 05	0.62285D 04	0.25413D 05	0.27083D 04	0.19823D 05	0.51475D 04	0.16861D 05	0.12731D 05	0.14913D 04
	0.89812D 04	0.24789D 04	0.12188D 05	0.63615D 04	0.46873D 05	0.38893D 04	0.83693D 04	0.57487D 04	0.17302D 04	0.61963D 03
	0.30823D 04	0.83480D 03	0.93562D 04	0.11508D 04	0.20102D 04	0.18434D 04	0.35642D 04			
QPVCATN	0.30176D 05	0.13317D 05	0.19283D 05	0.44277D 05	0.23210D 05	0.20726D 05	0.30991D 05	0.14704D 05	0.18564D 05	0.92186D 05
	0.37128D 06	0.42720D 05	0.42941D 05	0.10568D 06	0.45563D 05	0.17842D 06	0.28457D 05	0.29930D 05	0.90775D 04	0.12737D 05
	0.75973D 04	0.25801D 05	0.51933D 05	0.69567D 05	0.26448D 06	0.30787D 05	0.12136D 05	0.22436D 05	0.19003D 05	0.48947D 04
	0.35168D 05	0.98919D 04	0.51744D 05	0.11429D 05	0.21682D 05	0.90163D 04	0.15361D 05			

QSVACATN 0.60715D 05 0.28357D C5 0.43218D 05 0.11920D 06 0.69547D 05 0.33608D 05 0.73578D 05 0.55276D 05 0.18702D 06 0.29169D 06
0.58340D 06 0.82908D 05 0.21718D 05 0.15745D 06 0.15380D 05 0.26220D 06 0.27255D 05 0.59108D 05 0.98030D 05 0.11757D 06
0.64008D 05 0.24189D 05 0.86571D 05 0.80536D 05 0.43696D 06 0.41951D 05 0.70332D 05 0.67178D 05 0.38726D 05 0.32116D 04
0.43633D C5 0.83888D 04 0.62765D 05 0.54426D 05 0.13785D 05 0.81993D 04 0.44075D 05



D FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1980 HIGH

STATEWIDE TOTAL QBTRIPON = 0.13427D 08
STATEWIDE TOTAL QCTRIPOB = 0.24210D 08
STATEWIDE TOTAL QFTRIPON = 0.28017D 08
STATEWIDE TOTAL QHTRIPON = 0.75561D 07
STATEWIDE TOTAL QPTRIPCN = 0.16194D 08
STATEWIDE TOTAL QSTRIPCN = 0.14949D 08
STATEWIDE TOTAL QBVACATN = 0.15928D 07
STATEWIDE TOTAL QCVACATN = 0.66214D 07
STATEWIDE TOTAL QFVACATN = 0.43418D 07
STATEWIDE TOTAL QHVACATN = 0.59723D 06
STATEWIDE TOTAL QPVACATN = 0.18372D 07
STATEWIDE TOTAL QSVACATN = 0.35371D 07

FORECASTER VALUES OF ENDOGENOUS VARIABLES FOR BY REGION FOR 1990 LOW

NOTRIPON	0.369100	04	0.288100	04	0.547680	05	0.191230	06	0.910980	05	0.159890	06	0.903580	05	0.116580	06	0.842320	04	0.150610	07
	0.953490	06	0.432290	05	0.721120	05	0.182440	06	0.553130	05	0.239160	07	0.650720	05	0.175260	06	0.146190	06	0.470090	05
	0.364430	06	0.113200	05	0.454310	06	0.165560	06	0.230670	07	0.294570	05	0.106760	06	0.283610	06	0.187600	06	0.579910	05
	0.907990	05	0.148120	06	0.891010	06	0.168980	06	0.319630	06	0.496640	05	0.136100	06						
NOVACATN	0.478940	05	0.145530	05	0.153920	05	0.468830	05	0.345200	05	0.122370	05	0.241450	05	0.112690	05	0.313960	05	0.188680	06
	0.421310	06	0.791830	05	0.375020	05	0.847730	05	0.345950	05	0.209870	06	0.158360	05	0.337450	05	0.391550	05	0.320700	05
	0.208710	05	0.195040	05	0.647840	05	0.536990	05	0.589360	06	0.262770	05	0.707870	05	0.840360	05	0.807320	05	0.293590	04
	0.237830	05	0.159780	05	0.693800	05	0.367050	05	0.196280	05	0.158120	05	0.220580	05						
QBTRIPON	0.898490	03	0.207870	04	0.614120	05	0.206140	06	0.103580	06	0.178120	06	0.998650	05	0.135050	06	0.855900	04	0.164020	07
	0.103620	07	0.410470	05	0.921660	05	0.210240	06	0.595930	05	0.265010	07	0.737040	05	0.185180	06	0.166460	06	0.544150	05
	0.414190	06	0.113960	05	0.498300	06	0.180600	06	0.239210	07	0.293870	05	0.106400	06	0.284530	06	0.194390	06	0.663170	05
	0.982210	05	0.161170	06	0.904830	06	0.114400	06	0.352790	06	0.521480	05	0.153360	06						
QCTRIPON	0.647560	04	0.493700	04	0.970920	05	0.338950	06	0.165090	06	0.284540	06	0.162430	06	0.215340	06	0.167420	05	0.271540	07
	0.172600	07	0.903570	05	0.131260	06	0.338060	06	0.103620	06	0.433590	07	0.117540	06	0.312040	06	0.267290	06	0.876960	05
	0.670520	06	0.216160	05	0.835390	06	0.303720	06	0.428610	07	0.563680	05	0.201820	06	0.533820	06	0.331200	06	0.100980	06
	0.167540	06	0.274730	06	0.163090	07	0.200510	06	0.576730	06	0.880960	05	0.250030	06						
QFTRIPON	0.112430	05	0.693890	04	0.112060	06	0.389160	06	0.190250	06	0.327510	06	0.187340	06	0.246490	06	0.228250	05	0.312750	07
	0.200350	07	0.946130	05	0.154800	06	0.393210	06	0.120470	06	0.490150	07	0.134570	06	0.352380	06	0.306760	06	0.102220	06
	0.772930	06	0.256370	05	0.945980	06	0.339940	06	0.478230	07	0.635510	05	0.220280	06	0.584890	06	0.371020	06	0.115690	06
	0.192630	06	0.304010	06	0.179320	07	0.220290	06	0.647000	06	0.993000	05	0.280910	06						
QHTRIPON	0.661800	04	0.286720	04	0.359080	05	0.129290	06	0.637800	05	0.110870	06	0.627420	05	0.735390	05	0.850720	04	0.992290	06
	0.654150	06	0.323270	05	0.526420	05	0.133310	06	0.367870	05	0.169770	07	0.445700	05	0.124560	06	0.984350	05	0.319170	05
	0.247990	06	0.832450	04	0.308550	06	0.103480	06	0.146440	07	0.195030	05	0.754530	05	0.169230	06	0.150150	06	0.474870	05
	0.596430	05	0.103460	06	0.593700	06	0.819390	05	0.255910	06	0.401370	05	0.953880	05						
QPTRIPON	0.142720	04	0.229110	04	0.658750	05	0.229310	06	0.109610	06	0.197620	06	0.108450	06	0.148730	06	0.886600	04	0.189100	07
	0.115030	07	0.457880	05	0.864160	05	0.224030	06	0.659150	05	0.300220	07	0.783230	05	0.209610	06	0.180090	06	0.567410	05
	0.453520	06	0.124850	05	0.352830	06	0.170370	06	0.279050	07	0.341040	05	0.123370	06	0.342960	06	0.223250	06	0.736580	05
	0.112890	06	0.183070	06	0.106840	07	0.132890	06	0.419170	06	0.608340	05	0.168230	06						
QSTRIPON	0.130760	05	0.620610	04	0.765540	05	0.265450	06	0.130990	06	0.212730	06	0.127010	06	0.157830	06	0.177950	05	0.206430	07
	0.135630	07	0.716360	05	0.104170	06	0.265230	06	0.807200	05	0.325460	07	0.904680	05	0.236940	06	0.209680	06	0.700000	05
	0.504550	06	0.183050	05	0.632630	06	0.232780	06	0.321590	07	0.440800	05	0.162970	06	0.409380	06	0.262550	06	0.790580	05
	0.126900	06	0.203950	06	0.120840	07	0.156390	06	0.435300	06	0.703260	05	0.193510	06						
QBVACATN	0.483670	05	0.129150	05	0.220940	05	0.587090	05	0.332920	05	0.143260	05	0.299460	05	0.158290	05	0.705470	05	0.167460	06
	0.315960	06	0.584050	05	0.278370	05	0.705390	05	0.189560	05	0.978880	05	0.123680	05	0.269530	05	0.356520	05	0.233990	05
	0.217090	05	0.954600	04	0.490830	05	0.266510	05	0.213580	06	0.120010	05	0.241710	05	0.220730	05	0.421860	05	0.184060	04
	0.102650	05	0.476760	04	0.242880	05	0.118640	05	0.773510	04	0.563310	04	0.996670	04						
QCVACATN	0.298620	06	0.913780	05	0.926480	05	0.272390	06	0.222570	06	0.725580	05	0.144550	06	0.681210	05	0.165700	06	0.119370	07
	0.283730	07	0.542080	06	0.268250	06	0.603870	06	0.261390	06	0.160070	07	0.109370	06	0.218660	06	0.257570	06	0.224410	06
	0.131850	06	0.157260	06	0.607740	06	0.431190	06	0.450070	07	0.201500	06	0.566010	06	0.684000	06	0.583140	06	0.223150	05
	0.190690	06	0.138650	06	0.531610	06	0.304440	06	0.159220	06	0.126660	06	0.176590	06						
QFVACATN	0.144800	06	0.460200	05	0.587800	05	0.168720	06	0.114300	06	0.429590	05	0.886120	05	0.454380	05	0.155610	06	0.553430	06
	0.110030	07	0.224370	06	0.104060	06	0.239900	06	0.939270	05	0.390380	06	0.437120	05	0.952200	05	0.111360	06	0.926330	05
	0.574660	05	0.427470	05	0.191860	06	0.113270	06	0.102690	07	0.568630	05	0.126530	06	0.131190	06	0.174380	06	0.661490	04
	0.485250	05	0.225470	05	0.108820	06	0.562100	05	0.319170	05	0.252220	05	0.439420	05						

11

OHVACATN	0.56813D	04	0.13995D	04	0.26053D	04	0.93203D	04	0.29149D	04	0.20020D	04	0.40403D	04	0.20112D	04	0.15692D	05	0.16234D	05
	0.22209D	05	0.45984D	04	0.12756D	04	0.35539D	04	0.72193D	03	0.42199D	04	0.81546D	03	0.28474D	04	0.29049D	04	0.15661D	04
	0.21787D	04	0.25248D	03	0.29131D	04	0.86960D	03	0.10337D	05	0.53692D	03	0.90897D	03	0.92951D	03	0.26688D	04	0.70320D	02
	0.32240D	03	0.99335D	02	0.14883D	04	0.40390D	03	0.27730D	03	0.20966D	03	0.30911D	03						
QPVACATN	0.73564D	05	0.19775D	05	0.31347D	05	0.84807D	05	0.51698D	05	0.20895D	05	0.43626D	05	0.22985D	05	0.92583D	05	0.27216D	06
	0.54307D	06	0.99760D	05	0.48264D	05	0.12151D	06	0.36829D	05	0.20861D	06	0.20754D	05	0.44585D	05	0.58852D	05	0.47859D	05
	0.33122D	05	0.20138D	05	0.92562D	05	0.55409D	05	0.48985D	06	0.25403D	05	0.56925D	05	0.59259D	05	0.82587D	05	0.34739D	04
	0.22689D	05	0.12514D	05	0.57073D	05	0.30157D	05	0.18287D	05	0.13349D	05	0.21393D	05						
QSVACATN	0.77124D	05	0.18703D	05	0.36521D	05	0.98846D	05	0.55847D	05	0.22181D	05	0.52860D	05	0.28548D	05	0.13608D	06	0.29576D	06
	0.58151D	06	0.10449D	06	0.51910D	05	0.14316D	06	0.36549D	05	0.17299D	06	0.21228D	05	0.40264D	05	0.70981D	05	0.59235D	05
	0.43744D	05	0.21185D	05	0.93083D	05	0.59160D	05	0.34593D	06	0.24410D	05	0.40678D	05	0.37349D	05	0.53825D	05	0.30094D	04
	0.21837D	05	0.87734D	04	0.41026D	05	0.22288D	05	0.14091D	05	0.99249D	04	0.20179D	05						

FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1990 LOW

124

STATEWIDE TOTAL NOTRIPON = 0.120440 08

STATEWIDE TOTAL NOVACATN = 0.265130 07

STATEWIDE TOTAL OBTRIPON = 0.130100 08

STATEWIDE TOTAL OCTRIPON = 0.220370 08

STATEWIDE TOTAL QFTRIPON = 0.249450 08

STATEWIDE TOTAL QHTRIPON = 0.821760 07

STATEWIDE TOTAL QPTRIPON = 0.148140 08

STATEWIDE TOTAL QSTRIPON = 0.167590 08

STATEWIDE TOTAL QBVACATN = 0.156380 07

STATEWIDE TOTAL QCVACATN = 0.190660 08

STATEWIDE TOTAL QFVACATN = 0.619950 07

STATEWIDE TOTAL QHVACATN = 0.131390 06

STATEWIDE TOTAL QPVACATN = 0.303770 07

STATEWIDE TOTAL QSVACATN = 0.296530 07

ADJUSTED FORECASTED VALUES OF ENDOGENOUS VARIABLES BY REGION FOR 1990: LUH

QBTRIPON	0.60439D	03	0.16307D	04	0.53559D	05	0.19048D	06	0.87765D	05	0.16458D	06	0.92275D	05	0.12479D	06	0.79085D	04	0.15019D	07
	0.95746D	06	0.37927D	05	0.75921D	05	0.19426D	06	0.55064D	05	0.24487D	07	0.68102D	05	0.17043D	06	0.15381D	06	0.50279D	05
	0.38271D	06	0.10525D	05	0.46043D	06	0.16687D	06	0.21838D	07	0.27153D	05	0.81009D	05	0.26291D	06	0.11316D	05	0.61277D	05
	0.90756D	05	0.14892D	06	0.83606D	06	0.10571D	06	0.32597D	06	0.48184D	05	0.14170D	06						
QCTRIPON	0.57215D	04	0.39706D	04	0.70205D	05	0.29315D	06	0.14494D	06	0.26097D	06	0.15154D	06	0.20092D	06	0.15620D	05	0.22928D	07
	0.15524D	07	0.73923D	05	0.32209D	05	0.31541D	06	0.96680D	05	0.40454D	07	0.10967D	06	0.28298D	06	0.24364D	06	0.81820D	05
	0.62560D	06	0.20168D	05	0.77085D	06	0.28337D	06	0.39749D	07	0.52591D	05	0.18830D	06	0.49805D	06	0.26884D	05	0.94214D	05
	0.15631D	06	0.25633D	06	0.15216D	07	0.18707D	06	0.53809D	06	0.82194D	05	0.23327D	06						
QFTRIPON	0.81601D	04	0.54713D	04	0.10251D	06	0.35898D	06	0.15814D	06	0.31094D	06	0.17619D	06	0.22012D	06	0.21684D	05	0.28671D	07
	0.18903D	07	0.87545D	05	0.10147D	05	0.37056D	06	0.11445D	06	0.46564D	07	0.12784D	06	0.33442D	06	0.29142D	06	0.97109D	05
	0.73428D	06	0.24355D	05	0.89508D	05	0.32294D	06	0.45068D	07	0.59528D	05	0.20299D	06	0.55175D	06	0.34542D	05	0.10991D	06
	0.18300D	06	0.28881D	06	0.17036D	07	0.20927D	06	0.61465D	06	0.94335D	05	0.26686D	06						
QHTRIPON	0.40401D	04	0.19980D	04	0.26863D	05	0.11054D	06	0.52896D	05	0.94791D	05	0.53644D	05	0.62876D	05	0.72737D	04	0.80259D	05
	0.55091D	06	0.23687D	05	0.30021D	05	0.11398D	06	0.31453D	05	0.14515D	07	0.38107D	05	0.10597D	06	0.84162D	05	0.27289D	05
	0.21204D	06	0.71174D	04	0.26381D	06	0.88478D	05	0.12471D	07	0.16675D	05	0.64512D	05	0.14469D	06	0.32095D	05	0.40601D	05
	0.50995D	05	0.88457D	05	0.50762D	06	0.70058D	05	0.21881D	06	0.34317D	05	0.81557D	05						
QPTRIPON	0.11859D	04	0.19813D	04	0.51829D	05	0.19917D	06	0.77894D	05	0.18446D	06	0.98582D	05	0.13296D	06	0.83340D	04	0.15678D	07
	0.10477D	07	0.42525D	05	0.40615D	05	0.21059D	06	0.61960D	05	0.27995D	07	0.73624D	05	0.18443D	06	0.16929D	06	0.53337D	05
	0.42631D	06	0.11736D	05	0.51966D	06	0.18177D	06	0.25105D	07	0.32058D	05	0.11395D	06	0.30530D	06	0.19306D	05	0.46182D	05
	0.10612D	06	0.17209D	06	0.10043D	07	0.12492D	06	0.39402D	06	0.57184D	05	0.15814D	06						
QSTRIPON	0.99187D	04	0.30072D	04	0.37343D	05	0.21581D	06	0.95951D	05	0.17295D	06	0.10068D	06	0.12832D	06	0.14467D	05	0.14970D	07
	0.10762D	07	0.56260D	05	0.84687D	05	0.21564D	06	0.65625D	05	0.26460D	07	0.73550D	05	0.18666D	06	0.16965D	06	0.56910D	05
	0.41020D	06	0.14882D	05	0.49942D	06	0.18925D	06	0.25727D	07	0.35837D	05	0.13249D	06	0.33323D	06	0.20278D	05	0.42671D	05
	0.10317D	06	0.15885D	06	0.98245D	06	0.12714D	06	0.35390D	06	0.57175D	05	0.15732D	06						
QBYACATN	0.34400D	05	0.83842D	04	0.19801D	05	0.56798D	05	0.27771D	05	0.14930D	05	0.19406D	05	0.18187D	05	0.57876D	05	0.14258D	06
	0.25631D	06	0.39661D	05	0.15992D	05	0.60543D	05	0.21780D	05	0.99089D	05	0.89816D	04	0.22545D	05	0.64734D	04	0.29792D	05
	0.24943D	05	0.10968D	05	0.33443D	05	0.15311D	05	0.17374D	06	0.13789D	05	0.17552D	05	0.24525D	05	0.51380D	04	0.17417D	04
	0.10851D	05	0.32868D	04	0.96278D	04	0.13632D	05	0.88876D	04	0.64725D	04	0.11452D	05						
QCVACATN	0.13036D	06	0.25717D	05	0.41678D	05	0.78169D	05	0.76942D	05	0.59894D	05	0.88887D	05	0.46419D	05	0.14504D	06	0.54102D	06
	0.15404D	07	0.21562D	06	0.86194D	05	0.20273D	06	0.15610D	06	0.13621D	07	0.91301D	05	0.11774D	06	0.15154D	06	0.15963D	06
	0.73047D	05	0.17425D	06	0.18922D	06	0.21356D	06	0.32264D	07	0.21031D	06	0.45718D	06	0.64495D	06	0.11566D	06	0.24725D	05
	0.21128D	06	0.76815D	05	0.50539D	06	0.12649D	06	0.17641D	06	0.82518D	05	0.12229D	06						
QFVACATN	0.66085D	05	0.18814D	05	0.41430D	05	0.91970D	05	0.61412D	05	0.40787D	05	0.58497D	05	0.33193D	05	0.14757D	06	0.34000D	06
	0.80621D	06	0.10677D	06	0.26850D	05	0.18865D	06	0.74435D	05	0.36498D	06	0.31200D	05	0.72538D	05	0.88567D	05	0.69015D	05
	0.58102D	05	0.39345D	05	0.14123D	06	0.92363D	05	0.69164D	06	0.59260D	05	0.11900D	06	0.71363D	05	0.95442D	04	0.73889D	04
	0.54270D	05	0.11459D	05	0.87152D	05	0.13122D	05	0.35651D	05	0.11748D	05	0.40297D	05						
QHVACATN	0.11152D	04	0.56297D	03	0.29931D	04	0.13332D	05	0.10412D	04	0.12402D	04	0.35040D	04	0.32361D	04	0.16134D	05	0.20765D	05
	0.24477D	05	0.41656D	04	0.11412D	04	0.52607D	04	0.60867D	03	0.47732D	04	0.87515D	03	0.38255D	04	0.30054D	04	0.25199D	04
	0.35056D	04	0.40624D	03	0.33044D	04	0.13992D	04	0.14437D	05	0.86390D	03	0.14450D	04	0.14462D	04	0.47665D	03	0.11315D	03
	0.51874D	03	0.13458D	03	0.23947D	04	0.18976D	03	0.44617D	03	0.33735D	03	0.49736D	03						
QPVACATN	0.30403D	05	0.89682D	04	0.17052D	05	0.47365D	05	0.18710D	05	0.18298D	05	0.24024D	05	0.11014D	05	0.17270D	05	0.99106D	05
	0.41492D	06	0.37107D	05	0.35042D	05	0.91889D	05	0.41138D	05	0.17849D	06	0.21073D	05	0.26345D	05	0.82172D	04	0.89270D	04
	0.70664D	04	0.22495D	05	0.48697D	05	0.61892D	05	0.29601D	06	0.28376D	05	0.10428D	05	0.21314D	05	0.19834D	05	0.38803D	04
	0.25343D	05	0.83870D	04	0.48132D	05	0.74782D	04	0.20427D	05	0.79475D	04	0.11948D	05						

135

QSVACATN 0.505010 05 0.139500 05 0.331040 05 0.108160 06 0.452380 05 0.238550 05 0.480470 05 0.357430 05 0.163050 06 0.254390 06
0.520560 06 0.569070 05 0.144280 05 0.115600 06 0.108910 05 0.182360 06 0.157070 05 0.387660 05 0.748270 05 0.706030 05
0.536730 05 0.165770 05 0.621160 05 0.570330 05 0.317040 06 0.292170 05 0.413120 05 0.372220 05 0.266190 05 0.188390 04
0.238400 05 0.448160 04 0.373930 05 0.236080 05 0.882100 04 0.459760 04 0.292040 05

ADJUSTED FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1990 LOW

STATEWIDE TOTAL QBTRIPON = 0.11783D 08

STATEWIDE TOTAL QCTRIPOB = 0.19734D 08

STATEWIDE TOTAL QFTRIPON = 0.23012D 08

STATEWIDE TOTAL QHTRIPON = 0.68435D 07

STATEWIDE TOTAL QPTRIPON = 0.13191D 08

STATEWIDE TOTAL QSTRIPON = 0.13098D 08

STATEWIDE TOTAL QBVACATN = 0.13467D 07

STATEWIDE TOTAL QCVACATN = 0.11948D 08

STATEWIDE TOTAL QFVACATN = 0.42719D 07

STATEWIDE TOTAL QHVACATN = 0.14649D 06

STATEWIDE TOTAL QPVACATN = 0.18050D 07

STATEWIDE TOTAL QSVACATN = 0.26479D 07

FORECASTED VALUES OF ENDOGENOUS VARIABLES FOR BY REGION FOR 1990 MEDIUM

NOTRIPON	0.756360	0.393820	0.637300	0.220290	0.998880	0.184700	0.100200	0.129440	0.912490	0.159620
	0.995920	0.470930	0.750930	0.191190	0.537500	0.264890	0.732090	0.200200	0.157370	0.502090
	0.376940	0.103260	0.484900	0.176260	0.213180	0.284160	0.853690	0.248490	0.217230	0.664110
	0.946870	0.175740	0.112080	0.140200	0.377900	0.575990	0.151040			
NOVACATN	0.441550	0.134480	0.141800	0.432820	0.322490	0.112420	0.223440	0.105360	0.297530	0.176830
	0.393710	0.739150	0.353330	0.798460	0.323460	0.193150	0.146980	0.311540	0.362600	0.297830
	0.185610	0.192130	0.780010	0.493180	0.545310	0.234440	0.666800	0.783260	0.752030	0.272850
	0.214130	0.147100	0.636520	0.340250	0.181320	0.146570	0.202790			
QBTRIPON	0.444260	0.300940	0.700920	0.233240	0.111650	0.201800	0.108750	0.147310	0.900880	0.171460
	0.106260	0.438830	0.840690	0.216480	0.567860	0.290580	0.814630	0.207530	0.176220	0.569830
	0.419330	0.105690	0.523960	0.195290	0.215810	0.274130	0.815580	0.244200	0.221770	0.746110
	0.100770	0.188920	0.113980	0.145710	0.411830	0.594710	0.167690			
QCTRIPON	0.143460	0.711460	0.115380	0.398340	0.184360	0.335090	0.183400	0.242770	0.186640	0.292950
	0.183760	0.897900	0.139290	0.360960	0.102850	0.491240	0.134670	0.363210	0.293150	0.955570
	0.709730	0.212500	0.908790	0.339880	0.404660	0.561860	0.166390	0.478070	0.391290	0.117650
	0.178860	0.331400	0.210540	0.262480	0.692940	0.104100	0.282800			
QFTRIPON	0.197480	0.928800	0.132140	0.453950	0.210550	0.383310	0.209810	0.276050	0.246330	0.334810
	0.211250	0.103930	0.162600	0.415870	0.118240	0.551900	0.153050	0.407370	0.333730	0.110230
	0.811980	0.249020	0.102140	0.377460	0.447220	0.626940	0.179120	0.518340	0.434810	0.134050
	0.204040	0.364990	0.230880	0.286250	0.773450	0.116500	0.315660			
QHTRIPON	0.752950	0.304730	0.381650	0.136670	0.646240	0.118100	0.642790	0.764700	0.815280	0.976780
	0.631010	0.316080	0.508210	0.129340	0.331070	0.174820	0.463470	0.131260	0.979490	0.313230
	0.233520	0.733780	0.304370	0.104610	0.124960	0.168180	0.558460	0.136970	0.159210	0.505830
	0.565830	0.114290	0.708360	0.966350	0.282410	0.428980	0.976960			
QPTRIPON	0.669770	0.372480	0.788350	0.271110	0.122800	0.233910	0.122840	0.167750	0.101090	0.204750
	0.122690	0.518010	0.918980	0.239390	0.653310	0.341820	0.900650	0.245050	0.197870	0.518690
	0.479830	0.122280	0.601970	0.217370	0.262750	0.338450	0.100440	0.303460	0.265720	0.861640
	0.120730	0.222520	0.139580	0.175540	0.506740	0.722620	0.190990			
QSTRIPON	0.178510	0.749240	0.876100	0.301340	0.142030	0.242830	0.139230	0.174180	0.186400	0.216790
	0.140320	0.761940	0.107640	0.275240	0.780300	0.358030	0.100630	0.267600	0.222110	0.737820
	0.514650	0.174610	0.667580	0.252210	0.295330	0.419000	0.131580	0.356980	0.299170	0.897750
	0.130210	0.239420	0.152180	0.198130	0.510330	0.805170	0.212160			
QBVACATN	0.541240	0.145390	0.245460	0.652640	0.367200	0.161130	0.333740	0.172370	0.746730	0.184310
	0.352590	0.653660	0.304830	0.771240	0.215000	0.116590	0.139340	0.305440	0.403590	0.320740
	0.266920	0.109360	0.579720	0.319300	0.257760	0.156880	0.275160	0.268670	0.476300	0.207920
	0.131720	0.587470	0.298030	0.140140	0.918020	0.665120	0.119420			
QCVACATN	0.241340	0.743580	0.744620	0.219400	0.186560	0.578220	0.117540	0.569480	0.141980	0.101260
	0.238640	0.455230	0.230920	0.519380	0.221470	0.130820	0.910820	0.177970	0.211540	0.186390
	0.972190	0.133220	0.494210	0.351650	0.372100	0.152780	0.488180	0.576840	0.488810	0.186580
	0.148360	0.114200	0.431980	0.254100	0.131750	0.105530	0.144320			
QFVACATN	0.174830	0.488960	0.621560	0.178570	0.119980	0.456670	0.935550	0.473650	0.159800	0.583140
	0.116570	0.237460	0.109300	0.251560	0.894390	0.427150	0.464040	0.191540	0.118750	0.982860
	0.749350	0.458030	0.207610	0.620810	0.113160	0.648560	0.135890	0.142980	0.185890	0.705140
	0.543580	0.250060	0.120620	0.611050	0.349620	0.275710	0.478650			

0.401410 05 0.335710 04 0.221750 04 0.612120 04 0.139140 04 0.924530 04 0.155260 04 0.549630 04 0.551980 04 0.298940 04
0.547730 04 0.518370 03 0.611640 04 0.199470 04 0.221780 05 0.153630 04 0.174740 04 0.199020 04 0.507480 04 0.139320 03
0.901490 03 0.261420 03 0.329980 04 0.899110 03 0.612930 03 0.454680 03 0.715620 03

QPVACATN 0.791460 05 0.213540 05 0.335770 05 0.908770 05 0.552300 05 0.225070 05 0.468620 05 0.243570 05 0.967950 05 0.290290 06
0.583890 06 0.107370 06 0.513190 05 0.129070 06 0.398810 05 0.230530 06 0.223720 05 0.491890 05 0.637310 05 0.517740 05
0.376320 05 0.218970 05 0.102480 06 0.615630 05 0.545660 06 0.297900 05 0.621160 05 0.658200 05 0.888860 05 0.373860 04
0.261180 05 0.139220 05 0.634580 05 0.327540 05 0.200700 05 0.145950 05 0.237510 05

QSVACATN 0.908990 05 0.227100 05 0.418000 05 0.114000 06 0.644730 05 0.263970 05 0.606980 05 0.317340 05 0.145330 06 0.340100 06
0.682230 06 0.123030 06 0.591120 05 0.160310 06 0.436320 05 0.228940 06 0.254010 05 0.499620 05 0.824890 05 0.681930 05
0.541140 05 0.251480 05 0.117500 06 0.742890 05 0.484990 06 0.333040 05 0.517590 05 0.545080 05 0.706910 05 0.370650 04
0.298880 05 0.125320 05 0.595910 05 0.300870 05 0.186730 05 0.133640 05 0.259790 05

621

FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1990 MEDIUM

130

- STATEWIDE TOTAL NOTRIPON = 0.12853D 08
- STATEWIDE TOTAL NOVACATN = 0.24609D 07
- STATEWIDE TOTAL QBTRIRON = 0.13667D 08
- STATEWIDE TOTAL QCTRIPON = 0.23952D 08
- STATEWIDE TOTAL QFTRIPON = 0.26911D 08
- STATEWIDE TOTAL QHTP IPON = 0.81425D 07
- STATEWIDE TOTAL QPTRIPON = 0.16167D 08
- STATEWIDE TOTAL QSTRIPON = 0.17701D 08
- STATEWIDE TOTAL QBVACATN = 0.18972D 07
- STATEWIDE TOTAL QCVACATN = 0.15824D 08
- STATEWIDE TOTAL QFVACATN = 0.66510D 07
- STATEWIDE TOTAL QHVACATN = 0.24463D 06
- STATEWIDE TOTAL QPVACATN = 0.33034D 07
- STATEWIDE TOTAL QSVACATN = 0.36216D 07

ADJUSTED DEFECATED VALUES OF ENDogenous VARIABLES BY REGION FOR 1990 MEDIAN

QBTRIPON	0.249840	04	0.236380	04	0.611380	05	0.215510	06	0.946150	05	0.186640	06	0.100480	06	0.136110	06	0.832410	04	0.157000	07
	0.381930	04	0.405480	05	0.774930	05	0.250120	06	0.524700	05	0.268500	07	0.752720	05	0.190990	06	0.162830	06	0.526520	05
	0.387460	06	0.975570	04	0.424130	06	0.130440	06	0.197010	07	0.253250	05	0.620960	05	0.225650	06	0.129100	05	0.689410	05
	0.931780	05	0.174360	06	0.105320	07	0.134630	06	0.380530	06	0.549510	05	0.154940	06						
QCTRIPON	0.126750	05	0.572190	04	0.834270	05	0.344520	06	0.161860	06	0.307330	06	0.171110	06	0.226510	06	0.174140	05	0.247360	07
	0.165280	07	0.826010	05	0.341780	05	0.336770	06	0.959580	05	0.458330	07	0.125650	06	0.329390	06	0.267220	06	0.891550	05
	0.662130	06	0.198270	05	0.838490	06	0.317110	06	0.375280	07	0.524210	05	0.155250	06	0.446040	06	0.317610	05	0.109770	06
	0.166880	06	0.309200	06	0.196430	07	0.244890	06	0.646510	06	0.971260	05	0.263860	06						
QFTRIPON	0.143330	05	0.732360	04	0.120890	06	0.418750	06	0.175020	06	0.364140	06	0.197330	06	0.246510	06	0.234010	05	0.306940	07
	0.199280	07	0.961700	05	0.106580	05	0.391920	06	0.112420	06	0.524300	07	0.145400	06	0.386610	06	0.317040	06	0.104720	06
	0.771380	06	0.236570	05	0.966490	06	0.358590	06	0.421460	07	0.587250	05	0.165060	06	0.488970	06	0.404810	05	0.127350	06
	0.193840	06	0.346750	06	0.219330	07	0.271940	06	0.734780	06	0.110680	06	0.299880	06						
QHTRIPON	0.459660	04	0.212340	04	0.285530	05	0.116860	06	0.535960	05	0.100970	06	0.549580	05	0.653820	05	0.697060	04	0.790050	06
	0.531420	06	0.231610	05	0.289830	05	0.110590	06	0.283060	05	0.149470	07	0.396270	05	0.111660	06	0.837460	05	0.267810	05
	0.199660	06	0.627380	04	0.260230	06	0.894380	05	0.106410	07	0.143790	05	0.477480	05	0.117110	06	0.340310	05	0.432480	05
	0.483790	05	0.977210	05	0.605650	06	0.826230	05	0.241460	06	0.366780	05	0.835300	05						
QPTRIPON	0.556560	04	0.322120	04	0.620260	05	0.235480	06	0.872680	05	0.218330	06	0.111660	06	0.149960	06	0.950220	04	0.169760	07
	0.111750	07	0.481080	05	0.431920	05	0.225030	06	0.614110	05	0.318740	07	0.846610	05	0.215600	06	0.185990	06	0.581570	05
	0.451040	06	0.114940	05	0.565850	06	0.204320	06	0.235870	07	0.318140	05	0.926240	05	0.270130	06	0.229800	05	0.540230	05
	0.113490	06	0.209170	06	0.131200	07	0.165000	06	0.476340	06	0.679260	05	0.179530	06						
QSTRIPON	0.135400	05	0.363040	04	0.427360	05	0.244990	06	0.104040	06	0.197420	06	0.110360	06	0.141610	06	0.151550	05	0.157210	07
	0.111340	07	0.598390	05	0.875140	05	0.223770	06	0.634380	05	0.291080	07	0.818130	05	0.210810	06	0.180570	06	0.599850	05
	0.418410	06	0.141960	05	0.527000	06	0.205050	06	0.236260	07	0.340650	05	0.106970	06	0.290220	06	0.231070	05	0.486820	05
	0.105860	06	0.186480	06	0.123720	07	0.161080	06	0.414900	06	0.654610	05	0.172490	06						
QBVACATN	0.384940	05	0.943840	04	0.219990	05	0.631400	05	0.306310	05	0.167930	05	0.216270	05	0.198050	05	0.612610	05	0.156920	06
	0.286020	06	0.443870	05	0.175130	05	0.661960	05	0.247030	05	0.118030	06	0.101180	05	0.255490	05	0.732680	04	0.336470	05
	0.306690	05	0.125650	05	0.395000	05	0.183440	05	0.209690	06	0.180260	05	0.199810	05	0.298510	05	0.580100	04	0.199000	04
	0.139240	05	0.405100	04	0.118140	05	0.161020	05	0.105480	05	0.764220	04	0.137210	05						
QCVACATN	0.105360	06	0.209270	05	0.334960	05	0.629620	05	0.644930	05	0.477300	05	0.722790	05	0.388050	05	0.124280	06	0.456640	06
	0.129560	07	0.181080	06	0.741980	05	0.174370	06	0.132270	06	0.111320	07	0.756890	05	0.958320	05	0.124460	06	0.132580	06
	0.538600	05	0.147610	06	0.153870	06	0.174160	06	0.266750	07	0.159460	06	0.394320	06	0.543900	06	0.969460	05	0.206740	05
	0.164380	06	0.632650	05	0.410660	06	0.105580	06	0.145980	06	0.687530	05	0.999410	05						
QFVACATN	0.701070	05	0.199900	05	0.438090	05	0.973360	05	0.644650	05	0.433580	05	0.617600	05	0.346010	05	0.151550	06	0.358250	06
	0.854190	06	0.113000	06	0.282040	05	0.197820	06	0.793240	05	0.399350	06	0.331220	05	0.773510	05	0.944390	05	0.732280	05
	0.645350	05	0.421570	05	0.152820	06	0.100550	06	0.762160	06	0.675900	05	0.127810	06	0.777790	05	0.101740	05	0.788760	04
	0.607180	05	0.127090	05	0.966060	05	0.142650	05	0.390520	05	0.128420	05	0.438950	05						
QHVACATN	0.214780	04	0.107430	04	0.567400	04	0.248130	05	0.183970	04	0.239650	04	0.645810	04	0.553720	04	0.245690	05	0.357910	05
	0.442420	05	0.757040	04	0.198380	04	0.906110	04	0.117310	04	0.104580	05	0.166630	04	0.738440	04	0.571070	04	0.481000	04
	0.881300	04	0.834050	03	0.693810	04	0.320950	04	0.309750	05	0.247190	04	0.277790	04	0.309660	04	0.906350	03	0.224170	03
	0.144990	04	0.354160	03	0.530940	04	0.422430	03	0.986210	03	0.731570	03	0.115140	04						
QPVACATN	0.327100	05	0.968590	04	0.192650	05	0.507550	05	0.199880	05	0.197100	05	0.258060	05	0.116720	05	0.180560	05	0.105710	06
	0.441100	06	0.399390	05	0.372600	05	0.976050	05	0.445470	05	0.197240	06	0.227160	05	0.284740	05	0.889840	04	0.965780	04
	0.802860	04	0.244590	05	0.539130	05	0.687660	05	0.329740	06	0.332750	05	0.113790	05	0.236740	05	0.213460	05	0.417600	04
	0.291740	05	0.933070	04	0.535160	05	0.812230	04	0.224180	05	0.868960	04	0.132650	05						

0.522260 05 0.243900 05 0.551720 05 0.397310 05 0.174130 06 0.292530 06
0.618720 06 0.670150 05 0.164300 05 0.129490 06 0.130010 05 0.241340 06 0.187950 05 0.481030 05 0.869580 05 0.812790 05
0.663950 05 1.197780 05 0.784130 05 0.716180 05 0.444480 06 0.398620 05 0.532030 05 0.543230 05 0.349590 05 0.232030 04
0.320300 05 1.560140 04 0.543140 05 0.318680 05 0.116890 05 0.619060 04 0.325260 05

132
132

JUSTED FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1998 MEDIUM

133

STATEWIDE TOTAL QBTRIPON = 0.12370D 08

STATEWIDE TOTAL QCTRIPOB = 0.21480D 08

STATEWIDE TOTAL QETRIPOB = 0.24804D 08

STATEWIDE TOTAL QHTRIPON = 0.67753D 07

STATEWIDE TOTAL QPTRIPON = 0.14394D 08

STATEWIDE TOTAL QSTRIPON = 0.13811D 08

STATEWIDE TOTAL QBVACATN = 0.15378D 07

STATEWIDE TOTAL QCVACATN = 0.98972D 07

STATEWIDE TOTAL QEVACATN = 0.45888D 07

STATEWIDE TOTAL QHVACATN = 0.27501D 06

STATEWIDE TOTAL QPVACATN = 0.19681D 07

STATEWIDE TOTAL QSVACATN = 0.32352D 07

FORECASTED VALUES OF ENDOGENOUS VARIABLES FOR BY REGION FOR 1990 HIGH

NOTRIPON	0.105000	05	0.494100	04	0.723900	05	0.250680	06	0.110610	06	0.207360	06	0.110890	06	0.142460	06	0.950610	04	0.171910	07
	0.107150	07	0.525570	05	0.810930	05	0.200320	06	0.552050	07	0.296580	07	0.815170	05	0.225170	06	0.170690	06	0.543900	05
	0.400380	06	0.111170	05	0.521200	06	0.193620	06	0.206100	07	0.300470	05	0.644170	05	0.240160	06	0.250430	06	0.749950	05
	0.995940	05	0.207040	06	0.139760	07	0.180170	06	0.451550	06	0.650940	05	0.166990	06						
NOVACATN	0.426090	05	0.129810	05	0.136770	05	0.417670	05	0.312160	05	0.108490	05	0.215780	05	0.101920	05	0.287680	05	0.171200	06
	0.381620	06	0.715910	05	0.343990	05	0.776130	05	0.313490	05	0.186400	06	0.142180	05	0.309810	05	0.350530	05	0.287900	05
	0.177660	05	0.176330	05	0.751460	05	0.475940	05	0.525900	06	0.223220	05	0.646700	05	0.752490	05	0.729710	05	0.264110	04
	0.205090	05	0.142030	05	0.614730	05	0.328130	05	0.175180	05	0.141960	05	0.195370	05						
QBTRIPON	0.702820	04	0.388100	04	0.783470	05	0.261340	06	0.121820	06	0.222940	06	0.118500	06	0.159560	06	0.910590	04	0.182440	07
	0.112510	07	0.484010	05	0.893570	05	0.223730	06	0.574760	05	0.321180	07	0.893320	05	0.229670	06	0.188370	06	0.607210	05
	0.438490	06	0.106570	05	0.556080	06	0.211470	06	0.204470	07	0.285560	05	0.589750	05	0.232670	06	0.252290	06	0.829610	05
	0.104640	06	0.219840	06	0.140530	07	0.184870	06	0.485920	06	0.663520	05	0.183080	06						
QCTRIPON	0.206000	05	0.923640	04	0.133470	06	0.461550	06	0.207800	06	0.382540	06	0.206540	06	0.271290	06	0.200460	05	0.321220	07
	0.201470	07	0.102510	06	0.153170	06	0.384990	06	0.107730	06	0.560140	07	0.152580	06	0.415630	06	0.323640	06	0.105480	06
	0.768250	06	0.223640	05	0.994630	06	0.380690	06	0.399170	07	0.610620	05	0.129380	06	0.470300	06	0.459480	06	0.135100	06
	0.191940	06	0.397620	06	0.267210	07	0.343550	06	0.842640	06	0.119800	06	0.318510	06						
QFTRIPON	0.262770	05	0.115240	05	0.151590	06	0.521760	06	0.235130	06	0.434530	06	0.234230	06	0.306120	06	0.257550	05	0.364270	07
	0.229390	07	0.116700	06	0.177030	06	0.439360	06	0.122770	06	0.624760	07	0.171960	06	0.462550	06	0.365330	06	0.120410	06
	0.872820	06	0.258730	05	0.110890	07	0.419000	06	0.437520	07	0.675400	05	0.138100	06	0.506220	06	0.506200	06	0.152870	06
	0.217050	06	0.434860	06	0.291190	07	0.371910	06	0.934500	06	0.132940	06	0.352710	06						
QHTRIPON	0.796600	04	0.318100	04	0.400060	05	0.143670	06	0.661390	05	0.123400	06	0.658950	05	0.787490	05	0.760780	04	0.975470	06
	0.626160	06	0.315860	05	0.507240	05	0.125740	06	0.314110	05	0.181110	07	0.478380	05	0.136920	06	0.984360	05	0.312000	05
	0.229260	06	0.686300	04	0.302860	06	0.105570	06	0.111800	07	0.158910	05	0.400480	05	0.123680	06	0.168930	06	0.531970	05
	0.547530	05	0.124430	06	0.817740	06	0.113620	06	0.312870	06	0.447800	05	0.997840	05						
QPTRIPON	0.106250	05	0.504510	04	0.909680	05	0.313400	06	0.138110	06	0.266020	06	0.137890	06	0.186580	06	0.108580	05	0.224310	07
	0.134330	07	0.595760	05	0.100290	06	0.254640	06	0.683190	05	0.389450	07	0.101730	06	0.279410	06	0.217900	06	0.681260	05
	0.518570	06	0.128830	05	0.657330	06	0.243030	06	0.258510	07	0.370930	05	0.764210	05	0.297660	06	0.311700	06	0.986170	05
	0.129370	06	0.266770	06	0.177160	07	0.230180	06	0.615610	06	0.829760	05	0.214760	06						
QSTRIPON	0.214270	05	0.870520	04	0.982610	05	0.338690	06	0.155410	06	0.270360	06	0.152460	06	0.190520	06	0.190130	05	0.230930	07
	0.149220	07	0.827100	05	0.114920	06	0.285420	06	0.791960	05	0.396450	07	0.110920	06	0.298130	06	0.238270	06	0.787940	05
	0.540360	06	0.176320	05	0.709870	06	0.273470	06	0.282970	07	0.431410	05	0.100560	06	0.342000	06	0.340030	06	0.100580	06
	0.135280	06	0.278990	06	0.187730	07	0.250850	06	0.603690	06	0.899320	05	0.231930	06						
QBVACATN	0.547560	05	0.147390	05	0.247880	05	0.658500	05	0.370900	05	0.162790	05	0.337640	05	0.173900	05	0.761230	05	0.186410	06
	0.356190	06	0.661380	05	0.305340	05	0.775620	05	0.218540	05	0.119470	06	0.141070	05	0.309370	05	0.410150	05	0.326650	05
	0.275790	05	0.111640	05	0.597420	05	0.327270	05	0.267240	06	0.165360	05	0.283420	05	0.287080	05	0.479230	05	0.210060	04
	0.138830	05	0.601520	04	0.302310	05	0.142080	05	0.932690	04	0.675710	04	0.123250	05						
QCVACATN	0.217330	06	0.670570	05	0.668140	05	0.196760	06	0.169860	06	0.519010	05	0.105850	06	0.515980	05	0.127640	06	0.921970	06
	0.218440	07	0.416140	06	0.214250	06	0.479910	06	0.203500	06	0.118920	07	0.830210	05	0.180890	06	0.192030	06	0.169670	06
	0.854500	05	0.122310	06	0.446300	06	0.320060	06	0.337740	07	0.134120	06	0.449630	06	0.520610	06	0.448150	06	0.170880	05
	0.132520	06	0.104320	06	0.393320	06	0.231230	06	0.120340	06	0.969330	05	0.130840	06						
QFVACATN	0.175400	06	0.491180	05	0.623270	05	0.179100	06	0.120260	06	0.457830	05	0.938610	05	0.474770	05	0.160650	06	0.586540	05
	0.117060	07	0.238490	06	0.109440	06	0.251930	06	0.900330	05	0.431150	06	0.465520	05	0.101880	06	0.119380	06	0.987780	05
	0.760450	05	0.461930	05	0.209670	06	0.124390	06	0.115240	07	0.663040	05	0.138680	06	0.146800	06	0.186080	06	0.707500	05
	0.555710	05	0.251680	05	0.120560	06	0.613740	05	0.351120	05	0.276930	05	0.483930	05						

OHVACATN 0.149440 05 0.365200 04 0.670320 04 0.234420 05 0.691500 04 0.523370 04 0.100480 05 0.459150 04 0.316380 05 0.375120 05
0.538730 05 0.112730 05 0.290590 04 0.809480 04 0.191440 04 0.131000 05 0.211360 04 0.750550 04 0.749350 04 0.410260 04
0.789220 04 0.731290 03 0.866270 04 0.285390 04 0.318580 05 0.240900 04 0.245450 04 0.300100 04 0.688430 04 0.191910 03
0.136830 04 0.386850 03 0.464660 04 0.131620 04 0.871940 03 0.636220 03 0.104170 04

QPVACATN 0.613210 05 0.219690 05 0.344040 05 0.930500 05 0.566210 05 0.230830 05 0.480590 05 0.248890 05 0.995010 05 0.297900 06
0.599600 06 0.110320 06 0.524170 05 0.131990 06 0.410620 05 0.238400 06 0.229740 05 0.495130 05 0.655820 05 0.533360 05
0.391670 05 0.226030 05 0.106480 06 0.637490 05 0.570570 06 0.314580 05 0.648310 05 0.696720 05 0.909660 05 0.383330 04
0.275100 05 0.143800 05 0.651750 05 0.335970 05 0.206250 05 0.150270 05 0.246880 05

QSVACATN 0.929510 05 0.233830 05 0.425960 05 0.116170 06 0.660850 05 0.270070 05 0.621010 05 0.323890 05 0.149350 06 0.347620 06
0.699660 06 0.126340 06 0.600270 05 0.163010 06 0.450510 05 0.239740 06 0.261270 05 0.516040 05 0.847760 05 0.702220 05
0.561120 05 0.260030 05 0.123170 06 0.770590 05 0.518190 06 0.355630 05 0.538630 05 0.605760 05 0.729670 05 0.382320 04
0.317430 05 0.132130 05 0.625930 05 0.312410 05 0.194010 05 0.139080 05 0.272450 05

FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1990 HIGH

136

STATEWIDE TOTAL NOTRIPGN = 0.140120 08

STATEWIDE TOTAL NOVACATN = 0.237800 07

STATEWIDE TOTAL QBTRIPGN = 0.146980 08

STATEWIDE TOTAL QCTRIPGN = 0.265860 08

STATEWIDE TOTAL QFTRIPGN = 0.296360 08

STATEWIDE TOTAL QHTRIPGN = 0.823540 07

STATEWIDE TOTAL QPTRIPGN = 0.179410 08

STATEWIDE TOTAL QSTRIPGN = 0.190750 08

STATEWIDE TOTAL QBVACATN = 0.193250 07

STATEWIDE TOTAL QCVACATN = 0.144000 08

STATEWIDE TOTAL QFVACATN = 0.670630 07

STATEWIDE TOTAL OHVACATN = 0.334250 06

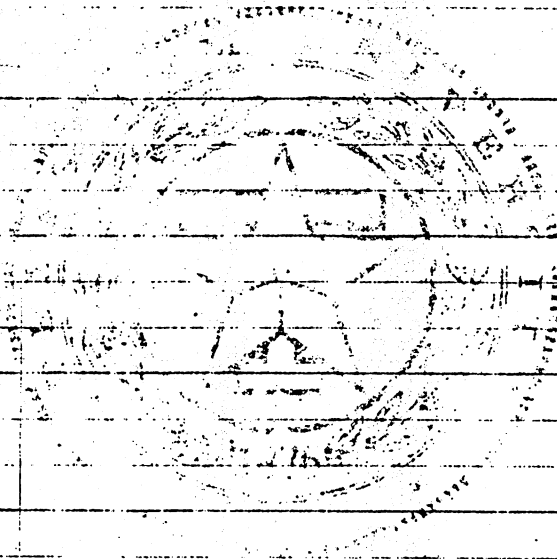
STATEWIDE TOTAL QPVACATN = 0.341030 07

STATEWIDE TOTAL QSVACATN = 0.375290 07

ADJUSTED FORECASTED VALUES OF ENDOGENOUS VARIABLES BY REGION FOR 1990

QBTRIPON	0.472770	04	0.394460	04	0.683380	05	0.241470	06	0.103220	06	0.206000	06	0.109500	06	0.147430	06	0.841300	05	0.150000	07
	0.103950	07	0.447230	05	0.825660	05	0.206730	06	0.531080	05	0.296770	07	0.825420	05	0.211360	06	0.114000	05	0.301070	05
	0.405170	06	0.984660	04	0.513820	06	0.195390	06	0.186670	07	0.263350	05	0.449020	05	0.214990	06	0.140000	05	0.786560	05
	0.766330	05	0.203130	06	0.129850	07	0.170020	06	0.448990	06	0.613090	05	0.169170	06						
QCTRIPO	0.182010	05	0.742830	04	0.965070	05	0.399190	06	0.182440	06	0.350840	06	0.192700	06	0.253120	06	0.187020	05	0.271220	07
	0.181210	07	0.943030	05	0.375830	05	0.359190	06	0.100510	06	0.522610	07	0.142350	06	0.376930	06	0.295010	06	0.984120	05
	0.716780	06	0.208650	05	0.917780	06	0.355180	06	0.370190	07	0.569710	05	0.120710	06	0.443730	06	0.372430	05	0.120050	06
	0.179080	06	0.370980	06	0.249300	07	0.320530	06	0.756190	05	0.111770	06	0.297170	06						
QFTRIPON	0.190730	05	0.908650	04	0.138680	06	0.481300	06	0.195450	06	0.422800	05	0.220290	06	0.273000	06	0.244110	05	0.333900	07
	0.216330	07	0.107990	06	0.116040	05	0.414050	05	0.116030	06	0.593520	07	0.183360	05	0.458980	05	0.547300	06	0.114290	05
	0.529180	06	0.245300	05	0.104920	07	0.398050	06	0.412320	07	0.632640	05	0.127260	06	0.477540	06	0.471270	05	0.145230	05
	0.206200	06	0.413110	06	0.276630	07	0.353310	06	0.887780	06	0.126290	06	0.335080	06						
QHTRIPON	0.486300	04	0.221660	04	0.299300	05	0.122840	06	0.548520	05	0.105510	05	0.563400	05	0.673310	05	0.250470	04	0.788990	06
	0.527330	06	0.231440	05	0.289270	05	0.107510	06	0.269580	05	0.134890	07	0.409010	05	0.110480	06	0.841300	05	0.260700	05
	0.196020	06	0.586790	04	0.258940	06	0.902630	05	0.952030	06	0.135870	05	0.342410	05	0.105750	06	0.301000	05	0.454330	05
	0.468140	05	0.106330	06	0.699170	06	0.971450	05	0.267500	06	0.382870	05	0.853150	05						
QPTRIPON	0.682930	04	0.436300	04	0.715720	05	0.272210	06	0.981450	05	0.248310	06	0.125340	06	0.166790	06	0.102070	05	0.185970	07
	0.122350	07	0.553300	05	0.474670	05	0.239360	06	0.642200	05	0.363160	07	0.956220	05	0.245830	06	0.204830	06	0.640300	05
	0.487460	06	0.121100	05	0.617890	06	0.228440	06	0.232060	07	0.348670	05	0.704710	05	0.264970	06	0.269560	05	0.618310	05
	0.121600	06	0.250760	06	0.166540	07	0.216370	06	0.578670	06	0.779970	05	0.201880	06						
QSTRIPON	0.162530	05	0.421810	04	0.479320	05	0.275360	06	0.113840	06	0.219800	06	0.120850	06	0.154890	06	0.154580	05	0.167470	07
	0.118400	07	0.649570	05	0.934310	05	0.232040	06	0.643870	05	0.322310	07	0.901810	05	0.234660	06	0.193720	06	0.640600	05
	0.439310	06	0.143350	05	0.560390	06	0.222330	06	0.226370	07	0.350730	05	0.817570	05	0.278050	06	0.262620	05	0.545400	05
	0.109990	06	0.217290	06	0.152630	07	0.203940	06	0.490800	06	0.731150	05	0.188560	06						
QBVCATN	0.389440	05	0.956860	04	0.222150	05	0.637070	05	0.309400	05	0.169650	05	0.218800	05	0.199810	05	0.624500	05	0.158710	06
	0.288940	06	0.449110	05	0.175420	05	0.665720	05	0.251100	05	0.120940	06	0.102440	05	0.258780	05	0.744590	04	0.342670	05
	0.316880	05	0.128280	05	0.407060	05	0.188010	05	0.217400	06	0.190000	05	0.205810	05	0.318970	05	0.583680	04	0.201050	04
	0.146750	05	0.414690	04	0.119840	05	0.163260	05	0.107170	05	0.776390	04	0.141610	05						
QCVACATN	0.948770	05	0.188720	05	0.300560	05	0.564650	05	0.587200	05	0.428420	05	0.650930	05	0.351600	05	0.111720	06	0.415770	06
	0.118600	07	0.165530	06	0.688440	05	0.161120	06	0.121530	06	0.101190	07	0.689900	05	0.866350	05	0.112980	06	0.120690	06
	0.473390	05	0.135520	06	0.138960	06	0.158520	06	0.242120	07	0.139980	06	0.363180	06	0.490890	06	0.888820	05	0.189330	05
	0.146830	06	0.577920	05	0.373920	06	0.960770	05	0.133340	06	0.631520	05	0.906100	05						
QFVACATN	0.703380	05	0.200810	05	0.439300	05	0.976280	05	0.646110	05	0.434680	05	0.619620	05	0.346830	05	0.152350	06	0.360340	06
	0.857800	06	0.113480	06	0.282390	05	0.198110	06	0.798500	05	0.403090	06	0.332270	05	0.776100	05	0.949400	05	0.735930	05
	0.654900	05	0.425170	05	0.154340	06	0.101430	06	0.776230	06	0.691000	05	0.130430	06	0.798530	05	0.101850	05	0.790270	04
	0.620730	05	0.127910	05	0.965520	05	0.143280	05	0.392200	05	0.128990	05	0.443790	05						
QHVACATN	0.293350	04	0.146900	04	0.770080	04	0.335320	05	0.247000	04	0.324020	04	0.871380	04	0.738770	04	0.325290	05	0.479840	05
	0.593770	05	0.102120	05	0.259970	04	0.119830	05	0.161410	04	0.148170	05	0.226830	04	0.100840	05	0.775270	04	0.660110	04
	0.126990	05	0.117660	04	0.982650	04	0.459190	04	0.444930	05	0.387610	04	0.390180	04	0.466930	04	0.122950	04	0.308790	04
	0.220160	04	0.524090	03	0.746670	04	0.618370	03	0.140300	04	0.102370	04	0.167610	04						
QPVCATN	0.336090	05	0.996300	04	0.187150	05	0.519690	05	0.204920	05	0.202140	05	0.264650	05	0.119270	05	0.185610	05	0.108480	06
	0.458110	06	0.410350	05	0.380580	05	0.598100	05	0.458660	05	0.203980	06	0.233270	05	0.292570	05	0.915700	04	0.994930	04
	0.835610	04	0.252480	05	0.560220	05	0.712070	05	0.344790	06	0.351390	05	0.118760	05	0.250590	05	0.218460	05	0.428180	04
	0.307280	05	0.963780	04	0.549650	05	0.833120	04	0.230380	05	0.894680	04	0.137880	05						

QSVACATN 0.60864D 05 0.17448D 05 0.38611D 05 0.12712D 06 0.53532D 05 0.29045D 05 0.56447D 05 0.40551D 05 0.17894D 06 0.29900D 06
0.62633D 06 0.68808D 05 0.16684D 05 0.13164D 06 0.13424D 05 0.25273D 06 0.19332D 05 0.49684D 05 0.89370D 05 0.83698D 05
0.68848D 05 0.20347D 05 0.82193D 05 0.74288D 05 0.47490D 06 0.42566D 05 0.55366D 05 0.60370D 05 0.36085D 05 0.23933D 04
0.34655D 05 0.67492D 04 0.57050D 05 0.33090D 05 0.12145D 05 0.64426D 04 0.34.11D 05



138

JUSTED FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1990 HIGH

139

STATEWIDE TOTAL QSTRIPCN = 0.13298D 08

STATEWIDE TOTAL QCTRIPOCN = 0.23825D 08

STATEWIDE TOTAL QFTRIPON = 0.27300D 08

STATEWIDE TOTAL QHTRIPON = 0.68488D 07

STATEWIDE TOTAL QPTRIPON = 0.15976D 08

STATEWIDE TOTAL QSTRIPON = 0.14874D 08

STATEWIDE TOTAL QBVACATN = 0.15677D 07

STATEWIDE TOTAL QCVACATN = 0.89989D 07

STATEWIDE TOTAL QFVACATN = 0.46291D 07

STATEWIDE TOTAL QHVACATN = 0.37695D 06

STATEWIDE TOTAL QPVACATN = 0.20322D 07

STATEWIDE TOTAL QSVACATN = 0.33549D 07

FORECASTED VALUES OF ENDOGENOUS VARIABLES FOR BY REGION FOR 2000 LOW

NOTRIPON	0.80379D	04	0.53844D	04	0.83215D	05	0.33269D	06	0.15572D	06	0.27698D	06	0.15228D	06	0.13054D	06	0.32895D	05	0.27742D	07
	0.19250D	07	0.10219D	06	0.14942D	06	0.35609D	06	0.10065D	06	0.36127D	07	0.33548D	05	0.27178D	06	0.25671D	06	0.42859D	05
	0.33399D	06	0.30290D	05	0.62019D	06	0.27534D	06	0.40445D	07	0.25839D	05	0.17355D	06	0.20595D	06	0.27064D	06	0.18108D	05
	0.70859D	05	0.25338D	06	0.15693D	07	0.89651D	05	0.24717D	06	0.10203D	06	0.96344D	05						
NOVACATN	0.58643D	05	0.13730D	05	0.16920D	05	0.58607D	05	0.35376D	05	0.13642D	05	0.22526D	05	0.10197D	05	0.32867D	05	0.24151D	06
	0.55180D	06	0.89737D	05	0.39276D	05	0.93615D	05	0.39387D	05	0.27284D	06	0.14095D	05	0.36529D	05	0.45599D	05	0.29263D	05
	0.25272D	05	0.21332D	05	0.99640D	05	0.60327D	05	0.78606D	06	0.32411D	05	0.82626D	05	0.10457D	06	0.85155D	05	0.30290D	04
	0.22852D	05	0.17395D	05	0.81057D	05	0.30940D	05	0.24795D	05	0.18323D	05	0.23679D	05						
QBTRIPON	0.51732D	04	0.49233D	04	0.94598D	05	0.36352D	06	0.18522D	06	0.31270D	06	0.17079D	06	0.15204D	06	0.37539D	05	0.20509D	07
	0.21267D	07	0.10179D	06	0.17386D	06	0.41838D	06	0.11100D	06	0.40726D	07	0.38450D	05	0.29198D	06	0.29702D	06	0.75511D	05
	0.38130D	06	0.32259D	05	0.68893D	06	0.31494D	06	0.42898D	07	0.25634D	05	0.17500D	06	0.20378D	06	0.23657D	06	0.20797D	05
	0.77262D	05	0.28061D	06	0.16398D	07	0.94802D	05	0.27241D	06	0.11032D	06	0.10850D	06						
QCTRIPON	0.14609D	05	0.95580D	04	0.14857D	06	0.59499D	06	0.28427D	06	0.49594D	06	0.27594D	06	0.24249D	06	0.63152D	05	0.50418D	07
	0.35064D	07	0.19235D	06	0.27439D	06	0.66508D	06	0.18991D	06	0.65824D	07	0.61530D	05	0.48764D	06	0.47221D	06	0.11953D	06
	0.61417D	06	0.58119D	05	0.11437D	07	0.52406D	06	0.75683D	07	0.49707D	05	0.33462D	06	0.39114D	06	0.48290D	06	0.32174D	05
	0.13018D	06	0.47173D	06	0.29167D	07	0.16552D	06	0.44428D	06	0.18209D	06	0.17770D	06						
QFTRIPON	0.20707D	05	0.12030D	05	0.17079D	06	0.68049D	06	0.32606D	06	0.57087D	06	0.31770D	06	0.27774D	06	0.75098D	05	0.58035D	07
	0.40381D	07	0.22016D	06	0.32116D	06	0.76851D	06	0.21871D	06	0.74302D	07	0.70512D	05	0.54920D	06	0.54117D	06	0.12810D	06
	0.70662D	06	0.67202D	05	0.12922D	07	0.58411D	06	0.84121D	07	0.56011D	05	0.36245D	06	0.42729D	06	0.53802D	06	0.36289D	05
	0.14922D	06	0.52306D	06	0.32139D	07	0.18160D	06	0.49800D	06	0.20426D	06	0.19908D	06						
QHTRIPON	0.86000D	04	0.35941D	04	0.50014D	05	0.20613D	06	0.99777D	05	0.18041D	06	0.96156D	05	0.75008D	05	0.21512D	05	0.17042D	07
	0.12279D	07	0.60135D	05	0.99525D	05	0.24014D	06	0.61708D	05	0.24237D	07	0.21932D	05	0.17898D	06	0.16061D	06	0.39307D	05
	0.20712D	06	0.18191D	05	0.39345D	06	0.16770D	06	0.24484D	07	0.16260D	05	0.11078D	06	0.10933D	06	0.19641D	06	0.13344D	05
	0.43596D	05	0.16753D	06	0.10045D	07	0.59482D	05	0.17145D	06	0.78622D	05	0.59385D	05						
QPTRIPON	0.64369D	04	0.55516D	04	0.10298D	06	0.41071D	06	0.19364D	06	0.35007D	06	0.18981D	06	0.17016D	06	0.40039D	05	0.35622D	07
	0.23773D	07	0.11868D	06	0.18703D	06	0.45300D	06	0.12379D	06	0.46109D	07	0.40359D	05	0.33283D	06	0.32437D	06	0.79246D	05
	0.41617D	06	0.36205D	05	0.76504D	06	0.33966D	06	0.49826D	07	0.29540D	05	0.21036D	06	0.24797D	06	0.33146D	06	0.22429D	05
	0.87760D	05	0.32107D	06	0.19492D	07	0.11112D	06	0.32497D	06	0.12826D	06	0.11948D	06						
QSTRIPON	0.20659D	05	0.93193D	04	0.11570D	06	0.45967D	06	0.22017D	06	0.36924D	06	0.21054D	06	0.17683D	06	0.51609D	05	0.37946D	07
	0.27121D	07	0.15230D	06	0.20973D	06	0.50515D	06	0.14367D	06	0.49894D	07	0.48089D	05	0.36721D	06	0.36264D	06	0.93029D	05
	0.46805D	06	0.43918D	05	0.86850D	06	0.39650D	06	0.56309D	07	0.40290D	05	0.25732D	06	0.30521D	06	0.37511D	06	0.25199D	05
	0.10134D	06	0.34977D	06	0.21625D	07	0.12973D	06	0.34242D	06	0.14385D	06	0.13933D	06						
QBVACATN	0.46725D	05	0.98631D	04	0.20022D	05	0.59966D	05	0.27739D	05	0.12835D	05	0.23522D	05	0.11371D	05	0.67476D	05	0.16771D	06
	0.32399D	06	0.51960D	05	0.23367D	05	0.59846D	05	0.16378D	05	0.84994D	05	0.12068D	05	0.23237D	05	0.30039D	05	0.19748D	05
	0.13504D	05	0.80988D	04	0.40150D	05	0.23092D	05	0.18951D	06	0.94203D	04	0.18201D	05	0.16995D	05	0.33777D	05	0.14040D	04
	0.58366D	04	0.37523D	04	0.21365D	05	0.67156D	04	0.58181D	04	0.48785D	04	0.77551D	04						
QCVACATN	0.39152D	06	0.90770D	05	0.10847D	06	0.36163D	06	0.23842D	06	0.86180D	05	0.14040D	06	0.65472D	05	0.17728D	06	0.16276D	07
	0.39275D	07	0.64200D	06	0.29375D	06	0.70818D	06	0.31559D	06	0.22871D	07	0.94530D	05	0.25022D	06	0.32452D	06	0.21899D	06
	0.19148D	06	0.17955D	06	0.77251D	06	0.50984D	06	0.64762D	07	0.27489D	06	0.71124D	06	0.91277D	06	0.65020D	06	0.24580D	05
	0.20607D	06	0.15798D	06	0.64906D	06	0.27095D	06	0.21955D	06	0.15371D	06	0.20164D	06						
QFVACATN	0.17606D	06	0.38488D	05	0.56768D	05	0.18507D	06	0.10361D	06	0.41515D	05	0.74256D	05	0.35929D	05	0.15231D	06	0.60879D	06
	0.12368D	07	0.22398D	06	0.96000D	05	0.22635D	06	0.31932D	05	0.37919D	06	0.40390D	05	0.89015D	05	0.10613D	06	0.71382D	05
	0.55387D	05	0.40966D	05	0.18125D	06	0.10807D	06	0.10904D	07	0.55030D	05	0.11869D	06	0.13086D	06	0.15336D	06	0.56364D	04
	0.34159D	05	0.20251D	05	0.10552D	06	0.38539D	05	0.30293D	05	0.24279D	05	0.38727D	05						

QHVACATN 0.40744D 04 0.42874D 03 0.17648D 04 0.72414D 04 0.19834D 04 0.13105D 04 0.25459D 04 0.10409D 04 0.13144D 05 0.11921D 05
 0.16556D 05 0.32333D 04 0.73810D 03 0.20494D 04 0.41690D 03 0.17022D 04 0.93151D 03 0.19300D 04 0.15404D 04 0.70818D 03
 0.48102D 03 0.15070D 03 0.14171D 04 0.50312D 03 0.53747D 04 0.20491D 03 0.38584D 03 0.39295D 03 0.15103D 04 0.33981D 02
 0.54446D 02 0.40066D 02 0.96754D 03 0.13118D 03 0.81827D 02 0.11653D 03 0.12500D 03

QPVACATN 0.79032D 05 0.16693D 05 0.30978D 05 0.94803D 05 0.47163D 05 0.20558D 05 0.37073D 05 0.18136D 05 0.92639D 05 0.30331D 06
 0.62311D 06 0.99878D 05 0.44895D 05 0.11568D 06 0.36317D 05 0.22197D 06 0.20443D 05 0.42806D 05 0.56578D 05 0.37371D 05
 0.26546D 05 0.19354D 05 0.89174D 05 0.54992D 05 0.53755D 06 0.24839D 05 0.54530D 05 0.59939D 05 0.76094D 05 0.30776D 04
 0.16759D 05 0.11812D 05 0.58712D 05 0.21031D 05 0.17776D 05 0.13600D 05 0.19717D 05

QSVACATN 0.67821D 05 0.12070D 05 0.31925D 05 0.95710D 05 0.41600D 05 0.17987D 05 0.39210D 05 0.19852D 05 0.13012D 06 0.25745D 06
 0.53807D 06 0.82760D 05 0.39076D 05 0.11269D 06 0.26713D 05 0.11828D 06 0.21006D 05 0.29724D 05 0.55428D 05 0.39137D 05
 0.24521D 05 0.15187D 05 0.63132D 05 0.45981D 05 0.16409D 06 0.14370D 05 0.15201D 05 0.12012D 05 0.30706D 05 0.21055D 04
 0.99379D 04 0.46523D 04 0.26150D 05 0.87526D 04 0.68724D 04 0.60134D 04 0.13638D 05

FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 2000 LJA

142

STATEWIDE TOTAL NOTRIPON = 0.192510 08

STATEWIDE TOTAL NOVACATN = 0.323560 07

STATEWIDE TOTAL QBTRIPON = 0.210650 08

STATEWIDE TOTAL QCTRIPON = 0.354100 08

STATEWIDE TOTAL QPTRIPON = 0.400030 08

STATEWIDE TOTAL QHTRIPON = 0.122250 08

STATEWIDE TOTAL OPTRIPON = 0.241020 08

STATEWIDE TOTAL QSTRIPON = 0.267920 08

STATEWIDE TOTAL QBVACATN = 0.150310 07

STATEWIDE TOTAL QCVACATN = 0.249120 08

STATEWIDE TOTAL QFVACATN = 0.625540 07

STATEWIDE TOTAL QHVACATN = 0.874830 05

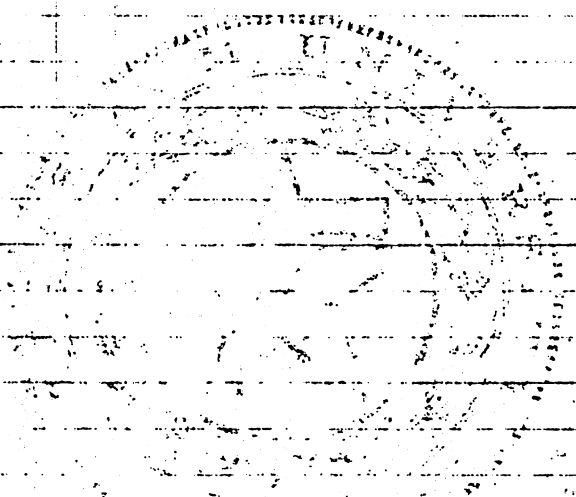
STATEWIDE TOTAL QPVACATN = 0.314490 07

STATEWIDE TOTAL QSVACATN = 0.224990 07

ADJUSTED FORECASTED VALUES OF ENDOGENOUS VARIABLES BY REGION FOR 2000 LOW

QBTRIPON	0.347980	04	0.386220	04	0.825140	05	0.335890	06	0.152710	06	0.288940	06	0.157810	06	0.140490	06	0.346840	05	0.279730	07
	0.196510	07	0.940500	05	0.160650	06	0.386590	06	0.102560	06	0.376310	07	0.355280	05	0.267890	06	0.274450	06	0.696060	05
	0.352320	06	0.298070	05	0.636570	06	0.291000	06	0.389790	07	0.236860	05	0.133240	06	0.188300	06	0.166880	05	0.191790	05
	0.713900	05	0.259280	06	0.151520	07	0.875970	05	0.251710	06	0.101930	06	0.100260	06						
QCTRIPO	0.129070	05	0.768700	04	0.107500	06	0.514600	06	0.249580	06	0.454840	06	0.257450	06	0.226240	06	0.589210	05	0.425710	07
	0.315370	07	0.176950	06	0.673300	05	0.620520	06	0.177190	06	0.614140	07	0.574090	05	0.442250	06	0.430440	06	0.111520	06
	0.573020	06	0.542250	05	0.105540	07	0.488950	06	0.701880	07	0.463770	05	0.312200	06	0.364940	06	0.392050	05	0.300190	05
	0.121460	06	0.440120	06	0.272130	07	0.154430	06	0.414510	06	0.169890	06	0.165800	06						
QFTRIPON	0.150290	05	0.948570	04	0.156250	06	0.627720	06	0.271040	06	0.542330	06	0.298800	06	0.248030	06	0.721980	05	0.532040	07
	0.380930	07	0.203720	06	0.210520	05	0.724250	06	0.207780	06	0.705860	07	0.669870	05	0.521220	06	0.514110	06	0.131190	06
	0.371290	06	0.638410	05	0.122270	07	0.554910	06	0.752750	07	0.524660	05	0.334000	06	0.403090	06	0.500890	05	0.344750	05
	0.141750	06	0.496910	06	0.305320	07	0.172520	06	0.473100	06	0.194040	06	0.189120	06						
QHTRIPON	0.525000	04	0.250440	04	0.374170	05	0.176240	06	0.827500	05	0.154250	06	0.822140	05	0.641320	05	0.183930	05	0.137340	07
	0.103410	07	0.440630	05	0.567580	05	0.205320	06	0.527600	05	0.207220	07	0.187520	05	0.152270	06	0.137320	06	0.336080	05
	0.177090	06	0.155530	05	0.336400	06	0.143380	06	0.208500	07	0.139020	05	0.947170	05	0.934760	05	0.419820	05	0.114090	05
	0.372750	05	0.143240	06	0.858820	06	0.508570	05	0.146590	06	0.672220	05	0.507740	05						
QPTRIPON	0.534880	04	0.480100	04	0.810200	05	0.356730	06	0.137610	06	0.326760	06	0.172530	06	0.152120	06	0.376370	05	0.295330	07
	0.216540	07	0.110220	06	0.879050	05	0.425820	06	0.116360	06	0.429960	07	0.379380	05	0.292830	06	0.304910	06	0.744910	05
	0.391200	06	0.340330	05	0.719140	06	0.319280	06	0.447280	07	0.277680	05	0.193980	06	0.220740	06	0.286660	05	0.140620	05
	0.824950	05	0.301800	06	0.183220	07	0.104460	06	0.305480	06	0.120570	06	0.112310	06						
QSTRIPON	0.156700	05	0.451560	04	0.564410	05	0.373710	06	0.161280	06	0.300190	06	0.166890	06	0.143760	06	0.419580	05	0.275190	07
	0.215200	07	0.119610	06	0.170510	06	0.410680	06	0.116800	06	0.405640	07	0.390960	05	0.289290	06	0.294820	06	0.756330	05
	0.380520	06	0.357060	05	0.685610	06	0.322350	06	0.450470	07	0.327550	05	0.209200	06	0.248140	06	0.289710	05	0.136650	05
	0.823930	05	0.272420	06	0.175810	07	0.105470	06	0.278390	06	0.116950	06	0.113280	06						
QBVACATN	0.332320	05	0.640300	04	0.179440	05	0.580150	05	0.231400	05	0.133760	05	0.152430	05	0.130650	05	0.553560	05	0.142790	06
	0.262820	06	0.352840	05	0.134240	05	0.513660	05	0.188180	05	0.860360	05	0.876330	04	0.194370	05	0.545330	04	0.207170	05
	0.155160	05	0.930560	04	0.273570	05	0.132660	05	0.154170	06	0.108240	05	0.132170	05	0.188820	05	0.411390	04	0.134380	04
	0.616970	04	0.258680	04	0.846930	04	0.771620	04	0.668510	04	0.560540	04	0.891060	04						
QCVACATN	0.170920	06	0.255460	05	0.487930	05	0.103780	06	0.824200	05	0.711380	05	0.863400	05	0.446140	05	0.155180	06	0.733960	06
	0.213230	07	0.255370	06	0.943870	05	0.237750	06	0.188470	06	0.194620	07	0.785540	05	0.134740	06	0.150930	06	0.155780	06
	0.106080	06	0.198950	06	0.240520	06	0.252510	06	0.464270	07	0.286910	06	0.574490	06	0.860660	06	0.128960	06	0.272340	05
	0.228320	06	0.875180	05	0.617030	06	0.112580	06	0.243260	06	0.100140	06	0.139640	06						
QFVACATN	0.706010	05	0.157350	05	0.400120	05	0.100880	06	0.556650	05	0.394170	05	0.490200	05	0.262470	05	0.144450	06	0.374010	06
	0.906290	06	0.106570	06	0.247700	05	0.178000	06	0.726650	05	0.354510	06	0.288290	05	0.678110	05	0.844080	05	0.531820	05
	0.477000	05	0.377060	05	0.133420	06	0.881200	05	0.734410	06	0.573500	05	0.111630	06	0.711840	05	0.839380	04	0.629590	04
	0.381560	05	0.102920	05	0.845100	05	0.899720	04	0.338370	05	0.113090	05	0.355150	05						
QHVACATN	0.799800	03	0.333380	03	0.202740	04	0.103580	05	0.672740	03	0.811810	03	0.220790	04	0.167470	04	0.135140	05	0.152480	05
	0.182480	05	0.292890	04	0.704950	03	0.303370	04	0.351500	03	0.192540	04	0.999700	03	0.245860	04	0.159370	04	0.113950	04
	0.773960	03	0.242470	03	0.160740	04	0.809530	03	0.750640	04	0.329700	03	0.613370	03	0.611390	03	0.269740	03	0.546760	02
	0.875950	02	0.542800	02	0.155680	04	0.616340	02	0.131660	03	0.187500	03	0.201770	03						
QPVACATN	0.326630	05	0.755240	04	0.168510	05	0.529470	05	0.170690	05	0.180040	05	0.204150	05	0.869040	04	0.172810	05	0.110450	06
	0.476080	06	0.371510	05	0.325960	05	0.874750	05	0.405660	05	0.189920	06	0.207570	05	0.252940	05	0.789970	04	0.697120	04
	0.566350	04	0.216190	05	0.469150	05	0.614260	05	0.324840	06	0.277460	05	0.998920	04	0.215590	05	0.182740	05	0.343770	04
	0.187190	05	0.791610	04	0.495140	05	0.521520	04	0.198560	05	0.809680	04	0.110120	05						

PSYAGATH 0.444990 05 0.900670 04 0.280100 04 0.110000 05 0.440770 05 0.108810 05 0.410040 05 0.700000 04 0.174000 06 0.150000 04 0.100000 04 0.100000 04
0.300860 05 0.118840 05 0.421270 05 0.543780 05 0.150380 06 0.172000 05 0.156250 05 0.119710 05 0.181350 02 0.151000 05
0.108500 05 0.237650 04 0.238350 05 0.927070 04 0.430220 04 0.278570 04 0.170750 05



IMPLD FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 2000 LOW

145

STATEWIDE TOTAL QBTRIPON = 0.19093D 08

STATEWIDE TOTAL QCTRIPON = 0.31696D 08

STATEWIDE TOTAL QFTRIPON = 0.36855D 08

STATEWIDE TOTAL QHTRIPON = 0.10176D 08

STATEWIDE TOTAL QPTRIPON = 0.21424D 08

STATEWIDE TOTAL QSTRIPON = 0.20930D 08

STATEWIDE TOTAL QBVACATN = 0.12148D 07

STATEWIDE TOTAL QCVACATN = 0.15785D 08

STATEWIDE TOTAL QFVACATN = 0.43119D 07

STATEWIDE TOTAL QHVACATN = 0.96132D 05

STATEWIDE TOTAL QPVACATN = 0.18984D 07

STATEWIDE TOTAL QSVACATN = 0.20077D 07

FORECASTED VALUES OF ENDOGENOUS VARIABLES FOR BY REGION FOR 2000 REGION

NOTRIPON	0.11520D 05	0.65778D 04	0.95366D 05	0.38351D 06	0.17293D 06	0.31281D 06	0.17098D 06	0.14497D 06	0.34207D 05	0.29670D 07
	0.20490D 07	0.10961D 06	0.16211D 06	0.37855D 06	0.10696D 06	0.41489D 07	0.37979D 05	0.30834D 06	0.25838D 06	0.67954D 05
	0.34835D 06	0.30595D 05	0.67248D 06	0.31386D 06	0.40227D 07	0.26406D 05	0.15221D 06	0.19681D 06	0.31785D 06	0.20562D 05
	0.78581D 05	0.30627D 06	0.19938D 07	0.11243D 06	0.30975D 06	0.11852D 06	0.11433D 06			
NOVACATN	0.55462D 05	0.12986D 05	0.15984D 05	0.55413D 05	0.33399D 05	0.12894D 05	0.21306D 05	0.97023D 04	0.31115D 05	0.22883D 06
	0.52214D 06	0.85378D 05	0.37645D 05	0.89621D 05	0.37435D 05	0.25979D 06	0.13353D 05	0.34579D 05	0.42063D 05	0.27215D 05
	0.23813D 05	0.20327D 05	0.94510D 05	0.57015D 05	0.75008D 06	0.30759D 05	0.78411D 05	0.99294D 05	0.81130D 05	0.28685D 04
	0.21722D 05	0.16572D 05	0.77244D 05	0.29578D 05	0.23484D 05	0.17427D 05	0.22631D 05			
QBTRIPON	0.82766D 04	0.59819D 04	0.10647D 06	0.41188D 06	0.19682D 06	0.34707D 06	0.18860D 06	0.16607D 06	0.38326D 05	0.32265D 07
	0.22301D 07	0.10782D 06	0.19562D 05	0.43853D 06	0.11610D 06	0.46003D 07	0.42753D 05	0.32435D 06	0.29341D 06	0.78577D 05
	0.79114D 06	0.32078D 05	0.73542D 06	0.35321D 06	0.41616D 07	0.25628D 05	0.14992D 06	0.19128D 06	0.33112D 06	0.23141D 05
	0.84267D 05	0.33367D 06	0.20517D 07	0.11656D 06	0.33428D 06	0.12590D 06	0.12658D 06			
QCTRIPON	0.21901D 05	0.12042D 05	0.17364D 06	0.69881D 06	0.32168D 06	0.57002D 06	0.31537D 06	0.27353D 06	0.66972D 05	0.54891D 07
	0.38018D 07	0.21037D 06	0.30283D 06	0.71894D 06	0.20584D 06	0.76945D 07	0.70987D 05	0.56330D 06	0.48501D 06	0.12994D 06
	0.65224D 06	0.59900D 05	0.12620D 07	0.60885D 06	0.76594D 07	0.51968D 05	0.30099D 06	0.38060D 06	0.57804D 06	0.37224D 05
	0.14704D 06	0.58088D 06	0.37739D 07	0.21221D 06	0.56922D 06	0.21541D 06	0.21469D 06			
QFTRIPON	0.28330D 05	0.14674D 05	0.19791D 06	0.79323D 06	0.36587D 06	0.65171D 06	0.36030D 06	0.31100D 06	0.79484D 05	0.62692D 07
	0.43394D 07	0.23786D 06	0.35137D 06	0.82361D 06	0.23495D 06	0.86292D 07	0.80555D 05	0.62976D 06	0.55120D 06	0.14874D 04
	0.74481D 06	0.68529D 05	0.14151D 07	0.67369D 06	0.84464D 07	0.57919D 05	0.32244D 06	0.41264D 06	0.63876D 06	0.41666D 05
	0.16721D 06	0.64008D 06	0.41349D 07	0.23074D 06	0.63427D 06	0.23988D 06	0.23882D 06			
QHTRIPON	0.91547D 04	0.37754D 04	0.52789D 05	0.21911D 06	0.10215D 06	0.18906D 06	0.10000D 06	0.77854D 05	0.20630D 05	0.16913D 07
	0.12093D 07	0.59241D 05	0.10031D 06	0.23775D 06	0.60367D 05	0.25805D 07	0.22795D 05	0.18790D 06	0.14823D 06	0.35237D 05
	0.20038D 06	0.16977D 05	0.39600D 06	0.17588D 06	0.22714D 07	0.15224D 05	0.89487D 05	0.97691D 05	0.21207D 06	0.13934D 05
	0.44652D 05	0.18694D 06	0.11790D 07	0.67287D 05	0.19550D 06	0.84171D 05	0.65033D 05			
QPTRIPON	0.11055D 05	0.71305D 04	0.12010D 06	0.48191D 06	0.21877D 06	0.40139D 06	0.21653D 06	0.19123D 06	0.42316D 05	0.38772D 07
	0.25722D 07	0.12991D 06	0.20631D 06	0.48863D 06	0.13444D 06	0.53809D 07	0.46516D 05	0.38351D 06	0.32876D 06	0.85700D 05
	0.44046D 06	0.37400D 05	0.83979D 06	0.39478D 06	0.50529D 07	0.30894D 05	0.18653D 05	0.24014D 06	0.39703D 05	0.25875D 05
	0.98972D 05	0.39568D 06	0.25247D 07	0.14249D 06	0.41794D 06	0.15163D 06	0.14438D 06			
QSTRIPON	0.25088D 05	0.10808D 05	0.13107D 06	0.52384D 06	0.24193D 06	0.41376D 06	0.23425D 06	0.19532D 06	0.53157D 05	0.40300D 05
	0.28605D 07	0.16132D 06	0.22580D 06	0.53296D 06	0.15098D 06	0.56817D 07	0.53764D 05	0.41307D 06	0.23250D 06	0.97774D 05
	0.48457D 06	0.44085D 05	0.93444D 06	0.44670D 06	0.55754D 07	0.40741D 05	0.22496D 06	0.29009D 06	0.43504D 06	0.28355D 05
	0.11120D 06	0.41885D 06	0.27217D 07	0.16005D 06	0.42355D 06	0.16533D 06	0.16339D 06			
QBVACATN	0.48956D 05	0.10362D 05	0.20883D 05	0.62371D 05	0.29222D 05	0.13395D 05	0.24515D 05	0.11725D 05	0.71034D 05	0.17689D 06
	0.34437D 06	0.54273D 05	0.23953D 05	0.61603D 05	0.17190D 05	0.89399D 05	0.12586D 05	0.24377D 05	0.33905D 05	0.21961D 05
	0.14579D 05	0.85113D 04	0.42740D 05	0.24785D 05	0.20322D 06	0.10165D 05	0.19767D 05	0.19272D 05	0.35090D 05	0.14660D 04
	0.62863D 04	0.39683D 04	0.22252D 05	0.68614D 04	0.62038D 04	0.51606D 04	0.80203D 04			
QCVACATN	0.33828D 06	0.78396D 05	0.93088D 05	0.31077D 06	0.20522D 06	0.74102D 05	0.12086D 06	0.57312D 05	0.15152D 06	0.14137D 07
	0.34095D 07	0.56477D 06	0.26342D 06	0.63354D 06	0.27801D 06	0.20262D 07	0.82027D 05	0.21696D 06	0.26459D 06	0.18261D 06
	0.16499D 06	0.15936D 06	0.67657D 06	0.44415D 06	0.57650D 07	0.24178D 06	0.62493D 06	0.80506D 06	0.57523D 06	0.21494D 05
	0.18222D 06	0.14039D 06	0.57524D 06	0.24224D 06	0.19238D 06	0.13582D 06	0.18024D 06			
QFVACATN	0.17939D 06	0.39241D 05	0.57818D 05	0.18849D 06	0.10574D 06	0.42246D 05	0.75465D 05	0.36323D 05	0.15501D 06	0.32310D 06
	0.12698D 07	0.22544D 06	0.97266D 05	0.22917D 06	0.84092D 05	0.38643D 06	0.41051D 05	0.90768D 05	0.10991D 06	0.74251D 05
	0.57030D 05	0.42842D 05	0.19369D 06	0.11090D 06	0.11240D 07	0.56783D 05	0.12276D 06	0.13624D 06	0.15640D 06	0.57721D 05
	0.34991D 05	0.20743D 05	0.10699D 06	0.39144D 05	0.31490D 05	0.24895D 05	0.39198D 05			

97

QHVACATN	0.668510	04	0.136550	04	0.287460	04	0.116260	05	0.316020	04	0.212230	04	0.409030	04	0.160770	04	0.203120	05	0.194920	05
	0.281600	05	0.521500	04	0.124500	04	0.322790	04	0.750860	03	0.325560	04	0.151270	04	0.301800	04	0.321010	04	0.141710	04
	0.078650	03	0.280120	03	0.251470	04	0.988280	03	0.987240	04	0.404370	03	0.820990	03	0.858440	03	0.251700	04	0.627910	02
	0.135470	03	0.984440	02	0.167500	04	0.261060	03	0.192880	03	0.224730	03	0.237200	03						
QPVACATN	0.828990	05	0.174990	05	0.324000	05	0.989720	05	0.496560	05	0.215450	05	0.387850	05	0.188490	05	0.974820	05	0.319820	06
	0.659950	06	0.104450	06	0.465950	05	0.120230	06	0.380850	05	0.233430	06	0.214300	05	0.449980	05	0.636630	05	0.408920	05
	0.205230	05	0.203170	05	0.952100	05	0.984090	05	0.572540	06	0.264900	05	0.587300	05	0.650390	05	0.794570	05	0.324800	04
	0.178660	05	0.123850	05	0.612710	05	0.217780	05	0.187490	05	0.142970	05	0.205030	05						
QSVACATN	0.745800	05	0.136340	05	0.341560	05	0.102510	06	0.459720	05	0.196050	05	0.420740	05	0.208920	05	0.137620	06	0.294090	06
	0.598530	06	0.902620	05	0.412530	05	0.118760	06	0.296450	05	0.137140	06	0.225710	05	0.334730	05	0.628600	05	0.444350	05
	0.275200	05	0.169230	05	0.717170	05	0.523150	05	0.223260	06	0.171180	05	0.203670	05	0.211860	05	0.359900	05	0.239010	04
	0.117920	05	0.580950	04	0.315030	05	0.981150	04	0.855890	04	0.732790	04	0.150250	05						

FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 2000 MEDIUM

148

STATEWIDE TOTAL NDRIPON = 0.21063D 08

STATEWIDE TOTAL NOVACATN = 0.31732D 07

STATEWIDE TOTAL QBTRIPON = 0.22681D 08

STATEWIDE TOTAL QCTRIPON = 0.39431D 08

STATEWIDE TOTAL QETRIPOH = 0.44206D 08

STATEWIDE TOTAL QHTRIPON = 0.12423D 08

STATEWIDE TOTAL QPTRIPON = 0.26846D 08

STATEWIDE TOTAL QSTRIPON = 0.29061D 08

STATEWIDE TOTAL QBVACATN = 0.15914D 07

STATEWIDE TOTAL QCVACATN = 0.21892D 08

STATEWIDE TOTAL QFVACATN = 0.64074D 07

STATEWIDE TOTAL QHVACATN = 0.14636D 06

STATEWIDE TOTAL QPVACATN = 0.33264D 07

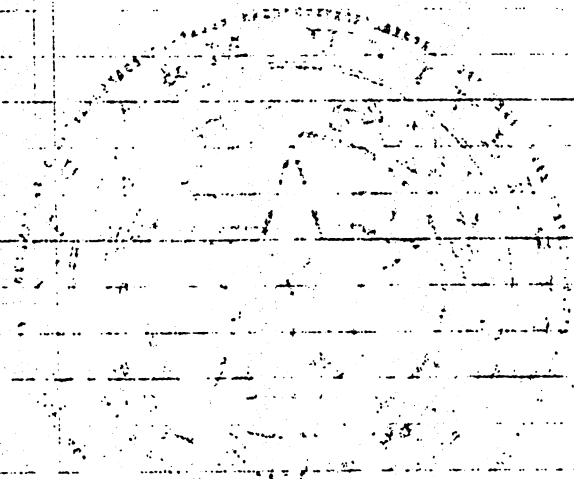
STATEWIDE TOTAL QSVACATN = 0.25427D 07

ADJUSTED FORECASTED VALUES OF ENDOGENOUS VARIABLES BY REGION FOR 2000 MEDIUM

QBTRIPON	0.55674D	04	0.46927D	04	0.92866D	05	0.38058D	06	0.16677D	06	0.32070D	06	0.17426D	06	0.15345D	06	0.35413D	05	0.29544D	07
	0.20606D	07	0.99623D	05	0.17152D	06	0.40520D	06	0.10728D	06	0.42507D	07	0.39504D	05	0.29850D	06	0.27111D	06	0.72050D	05
	0.36141D	06	0.29594D	05	0.67953D	06	0.32637D	06	0.37992D	07	0.23600D	05	0.11415D	06	0.17674D	06	0.19275D	05	0.21182D	05
	0.77863D	05	0.30831D	06	0.18957D	07	0.10770D	06	0.30888D	07	0.11634D	06	0.11696D	06						
QCTRIPON	0.19351D	05	0.96845D	04	0.12556D	06	0.60439D	06	0.28242D	06	0.52279D	06	0.29424D	06	0.25520D	06	0.62485D	05	0.46348D	07
	0.34194D	07	0.19352D	06	0.74309D	05	0.67077D	06	0.19205D	06	0.71789D	07	0.66231D	05	0.51084D	06	0.44210D	06	0.12124D	06
	0.60854D	06	0.55886D	05	0.11645D	07	0.56805D	06	0.71033D	07	0.48486D	05	0.28083D	06	0.35510D	06	0.46920D	05	0.34730D	05
	0.13719D	06	0.54196D	06	0.35211D	07	0.19799D	06	0.53109D	06	0.20098D	06	0.20030D	06						
QFTRIPON	0.20562D	05	0.11571D	05	0.18105D	06	0.73171D	06	0.30413D	06	0.61913D	06	0.33887D	06	0.27772D	06	0.75510D	05	0.57478D	07
	0.40935D	07	0.22009D	06	0.23033D	05	0.77617D	06	0.22321D	06	0.81977D	07	0.76527D	05	0.59787D	06	0.52384D	05	0.14130D	06
	0.70757D	06	0.65102D	05	0.13389D	07	0.64000D	06	0.79599D	07	0.54252D	05	0.29713D	06	0.38926D	06	0.59468D	05	0.39583D	05
	0.15885D	06	0.60808D	06	0.39281D	07	0.21921D	06	0.60256D	06	0.22789D	06	0.22688D	06						
QHTRIPON	0.55887D	04	0.26308D	04	0.39493D	05	0.18734D	06	0.84720D	05	0.16165D	06	0.85504D	05	0.66565D	05	0.17639D	05	0.13680D	07
	0.10184D	07	0.43408D	05	0.57204D	05	0.20327D	06	0.51614D	05	0.22063D	07	0.19490D	05	0.15986D	06	0.12725D	06	0.32693D	05
	0.17132D	06	0.14515D	05	0.33858D	06	0.15037D	06	0.19343D	07	0.13016D	05	0.76511D	05	0.83526D	05	0.45325D	05	0.11958D	05
	0.38177D	05	0.15983D	06	0.10080D	07	0.57530D	05	0.16716D	06	0.71987D	05	0.55604D	05						
QPTRIPON	0.91864D	04	0.61664D	04	0.94493D	05	0.41857D	06	0.15547D	06	0.37467D	06	0.19682D	06	0.17095D	06	0.39777D	05	0.32146D	07
	0.23429D	07	0.12065D	06	0.96966D	05	0.45931D	06	0.12638D	06	0.50176D	07	0.43725D	05	0.33743D	06	0.30904D	06	0.80558D	05
	0.41403D	06	0.35156D	05	0.78940D	06	0.37110D	06	0.45360D	07	0.29041D	05	0.17201D	06	0.21377D	06	0.34337D	05	0.16225D	05
	0.93033D	05	0.37194D	06	0.23732D	07	0.13394D	06	0.39286D	06	0.14253D	06	0.13571D	06						
QSTRIPON	0.19030D	05	0.52371D	04	0.63935D	05	0.42588D	06	0.17722D	06	0.33639D	06	0.18569D	06	0.15860D	06	0.43216D	05	0.29175D	07
	0.22698D	07	0.12669D	06	0.18357D	06	0.43330D	06	0.12275D	06	0.46192D	07	0.43710D	05	0.32541D	06	0.29474D	06	0.79490D	05
	0.39396D	06	0.35841D	05	0.73767D	06	0.36317D	06	0.44603D	07	0.33122D	05	0.18289D	06	0.23584D	06	0.33600D	05	0.15376D	05
	0.90408D	05	0.32622D	06	0.22127D	07	0.13012D	06	0.34435D	06	0.13442D	06	0.13284D	06						
QBVACATN	0.34819D	05	0.67268D	04	0.18715D	05	0.60341D	05	0.24376D	05	0.13960D	05	0.15887D	05	0.13472D	05	0.58276D	05	0.15061D	06
	0.27935D	06	0.36855D	05	0.13761D	05	0.52874D	05	0.19751D	05	0.90496D	05	0.91398D	04	0.20390D	05	0.61552D	04	0.23059D	05
	0.16751D	05	0.97794D	04	0.29121D	05	0.14239D	05	0.16532D	06	0.11679D	05	0.14354D	05	0.21413D	05	0.42749D	04	0.14222D	04
	0.66451D	04	0.27357D	04	0.88209D	04	0.78838D	04	0.71281D	04	0.59295D	04	0.92153D	04						
QCVACATN	0.14768D	06	0.22063D	05	0.41875D	05	0.89183D	05	0.70943D	05	0.61168D	05	0.74319D	05	0.39053D	05	0.13262D	06	0.63750D	06
	0.18511D	07	0.22465D	06	0.84641D	05	0.21269D	06	0.16603D	06	0.17242D	07	0.68164D	05	0.11683D	06	0.15567D	06	0.13004D	06
	0.91407D	05	0.17657D	06	0.21065D	06	0.21997D	06	0.41328D	07	0.25235D	06	0.50470D	06	0.75909D	06	0.11409D	06	0.23804D	05
	0.20190D	06	0.77777D	05	0.54686D	06	0.10065D	06	0.21315D	06	0.88485D	05	0.12481D	06						
QFVACATN	0.71938D	05	0.16043D	05	0.40752D	05	0.10274D	06	0.56810D	05	0.40110D	05	0.49818D	05	0.26535D	05	0.14701D	06	0.38284D	06
	0.93046D	06	0.10870D	06	0.25097D	05	0.18021D	06	0.74581D	05	0.36133D	06	0.29300D	05	0.69147D	05	0.87415D	05	0.55320D	05
	0.49115D	05	0.38696D	05	0.13536D	06	0.90430D	05	0.75709D	06	0.59177D	05	0.11546D	06	0.74114D	05	0.85603D	04	0.64474D	04
	0.39085D	05	0.10542D	05	0.85683D	05	0.91384D	04	0.35174D	05	0.11596D	05	0.35947D	05						
QHVACATN	0.13123D	04	0.54925D	03	0.33024D	04	0.16630D	05	0.11288D	04	0.13147D	04	0.35473D	04	0.25867D	04	0.20884D	05	0.24933D	05
	0.31037D	05	0.47241D	04	0.11048D	04	0.47781D	04	0.63308D	03	0.36825D	04	0.16234D	04	0.40547D	04	0.33212D	04	0.22802D	04
	0.14138D	04	0.45071D	03	0.28525D	04	0.15901D	04	0.13788D	05	0.65064D	03	0.13051D	04	0.13357D	04	0.44953D	03	0.10103D	03
	0.21797D	03	0.13337D	03	0.26950D	04	0.12265D	03	0.31034D	03	0.36159D	03	0.38165D	03						
OPVACATN	0.34261D	05	0.79360D	04	0.17625D	05	0.55276D	05	0.17971D	05	0.18867D	05	0.21358D	05	0.90322D	04	0.18184D	05	0.11646D	06
	0.50422D	06	0.38853D	05	0.33830D	05	0.90422D	05	0.42541D	05	0.19973D	06	0.21759D	05	0.26589D	05	0.88890D	04	0.76279D	04
	0.60857D	04	0.22694D	05	0.50091D	05	0.65243D	05	0.34598D	06	0.29589D	05	0.10759D	05	0.23393D	05	0.19082D	05	0.36280D	04
	0.19849D	05	0.43003D	04	0.91672D	05	0.54005D	04	0.20943D	05	0.85118D	04	0.11451D	05						

149

PSYACATN- 0.48835D 05 0.10174D 05 0.30960D 05 0.11217D 06 0.37239D 05 0.21084D 05 0.38243D 05 0.26157D 05 0.16489D 06 0.25295D 06
0.53579D 06 0.49158D 05 0.11466D 05 0.95905D 05 0.88334D 04 0.14457D 06 0.16701D 05 0.32227D 05 0.66266D 05 0.52963D 05
0.33766D 05 0.13242D 05 0.47358D 05 0.50434D 05 0.20461D 06 0.20488D 05 0.20935D 05 0.21113D 05 0.17798D 05 0.14962D 04
0.12874D 05 0.29676D 04 0.28714D 05 0.10392D 05 0.53579D 04 0.33946D 04 0.18812D 05



150

ADJUSTED FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 2000 MEDIUM

STATEWIDE TOTAL OBTRIPON = 0.205480 08

STATEWIDE TOTAL QCTRIPON = 0.352770 08

STATEWIDE TOTAL QFTRIPON = 0.407030 08

STATEWIDE TOTAL QHTRIPON = 0.103360 08

STATEWIDE TOTAL QPTRIPON = 0.238690 08

STATEWIDE TOTAL QSTRIPON = 0.225940 08

STATEWIDE TOTAL QBVACATN = 0.128570 07

STATEWIDE TOTAL QCVACATN = 0.138890 08

STATEWIDE TOTAL QFVACATN = 0.441780 07

STATEWIDE TOTAL QHVACATN = 0.161590 06

STATEWIDE TOTAL QPVACATN = 0.199460 07

STATEWIDE TOTAL QSVACATN = 0.227090 07

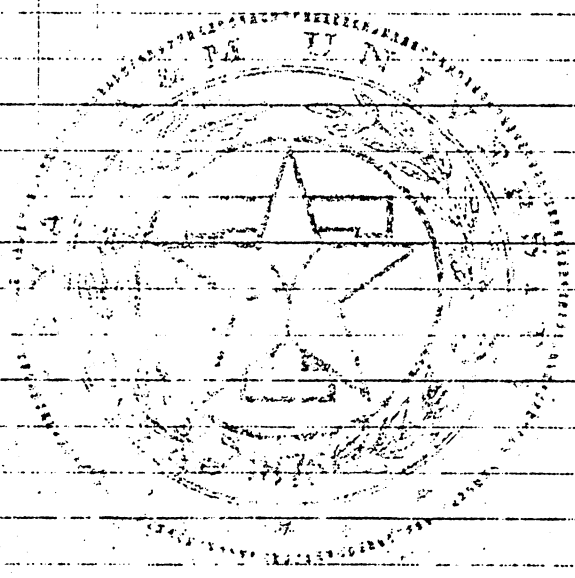
FORECASTED VALUES OF ENDOGENOUS VARIABLES FOR DT REGION FOR 2000 HIGH

NOTRIPON	0.925230	04	0.578480	04	0.884010	05	0.356020	06	0.160000	06	0.290670	06	0.158500	06	0.134240	06	0.299390	05	0.271340	07
	0.186100	07	0.990780	05	0.149470	06	0.348090	06	0.943390	05	0.395260	07	0.350370	05	0.288160	06	0.238650	06	0.602320	05
	0.314620	06	0.254490	05	0.625220	06	0.300560	06	0.333330	07	0.218760	05	0.106260	06	0.169940	06	0.304510	06	0.191070	06
	0.729620	05	0.303220	06	0.204520	07	0.109390	06	0.313530	06	0.112470	06	0.109710	06						
NOVACATN	0.543960	05	0.127400	05	0.156550	05	0.543470	05	0.328640	05	0.126370	05	0.209670	05	0.960100	04	0.310340	05	0.225240	06
	0.513330	06	0.841890	05	0.371720	05	0.884830	05	0.366140	05	0.254730	06	0.131160	05	0.338260	05	0.414280	05	0.265210	05
	0.233630	05	0.199230	05	0.931810	05	0.558790	05	0.739530	06	0.301600	05	0.774350	05	0.972830	05	0.794550	05	0.279960	04
	0.212930	05	0.161100	05	0.752620	05	0.288040	05	0.224320	05	0.170000	05	0.222460	05						
QBTRIPON	0.516400	04	0.489100	04	0.961350	05	0.372690	06	0.177480	06	0.314760	06	0.170510	06	0.150060	06	0.324080	05	0.269910	06
	0.197350	07	0.940340	05	0.166700	06	0.392930	06	0.995450	05	0.428000	07	0.383500	05	0.293280	06	0.264130	06	0.673260	06
	0.344660	06	0.237290	05	0.667260	06	0.330080	06	0.334120	07	0.201890	05	0.100460	06	0.159800	06	0.308950	06	0.209590	06
	0.762000	05	0.322750	06	0.205700	07	0.110380	06	0.330220	06	0.116530	06	0.117380	06						
QCTRIPON	0.188910	05	0.109950	05	0.164480	06	0.662670	06	0.304130	06	0.540450	06	0.298440	06	0.258160	06	0.504280	05	0.512920	07
	0.353150	07	0.195340	06	0.285370	06	0.675790	06	0.186080	06	0.748310	07	0.669990	05	0.553750	06	0.457610	06	0.118070	06
	0.601570	06	0.512300	05	0.119760	07	0.595940	06	0.649970	07	0.445210	05	0.216650	06	0.336770	06	0.566580	06	0.323410	06
	0.139600	06	0.587680	06	0.395450	07	0.211310	06	0.590450	06	0.208890	06	0.202480	06						
QFTRIPON	0.242860	05	0.132400	05	0.185200	06	0.743180	06	0.341730	06	0.610490	06	0.335860	06	0.290000	06	0.709130	05	0.578600	07
	0.398180	07	0.218040	06	0.327200	06	0.765140	06	0.208340	06	0.829400	07	0.750770	05	0.589470	06	0.513790	06	0.133440	06
	0.678570	06	0.578870	05	0.132680	07	0.651780	06	0.707040	07	0.490110	05	0.229030	06	0.360550	06	0.618710	06	0.360770	06
	0.156820	06	0.640140	06	0.428490	07	0.227180	06	0.650350	06	0.229790	06	0.229140	06						
QHTRIPON	0.701650	04	0.304670	04	0.449860	05	0.187150	06	0.870010	05	0.161730	06	0.854610	05	0.667180	05	0.160050	05	0.141000	06
	0.101030	07	0.492480	05	0.851410	05	0.201240	06	0.488120	05	0.225990	07	0.193730	05	0.160520	06	0.126650	06	0.311350	06
	0.166320	06	0.130580	05	0.339450	06	0.154470	06	0.172520	07	0.116920	05	0.505620	05	0.777660	05	0.186030	06	0.119370	06
	0.380750	05	0.169340	06	0.110750	07	0.597540	05	0.179090	06	0.733100	05	0.568820	05						
QPTRIPON	0.876670	04	0.632730	04	0.112540	06	0.452280	06	0.204660	06	0.376750	06	0.202780	06	0.178500	06	0.375210	05	0.359450	07
	0.236440	07	0.118920	06	0.192480	06	0.454450	06	0.120000	06	0.519160	07	0.434190	05	0.359560	06	0.307270	06	0.719320	06
	0.492310	06	0.314470	05	0.789400	06	0.383530	06	0.422870	07	0.258310	05	0.130820	06	0.209790	06	0.286610	06	0.243190	06
	0.930770	05	0.397940	06	0.263100	07	0.141220	06	0.432480	06	0.145840	06	0.139020	06						
QSTRIPON	0.217920	05	0.968250	04	0.121010	06	0.484230	06	0.223030	06	0.382790	06	0.216370	06	0.180400	06	0.470450	05	0.365280	07
	0.258860	07	0.146090	06	0.207390	06	0.487890	06	0.132680	06	0.538320	07	0.495320	05	0.381910	06	0.333700	06	0.866880	05
	0.435430	06	0.369170	05	0.865310	06	0.425040	06	0.460980	07	0.342100	05	0.158620	06	0.250840	06	0.414020	06	0.262360	05
	0.102800	06	0.411830	06	0.277280	07	0.154600	06	0.424370	06	0.156110	06	0.154680	06						
QBVACATN	0.467970	05	0.988250	04	0.200930	05	0.597120	05	0.277820	05	0.128250	05	0.233210	05	0.110590	05	0.565060	05	0.167990	06
	0.327440	06	0.510190	05	0.225580	05	0.580380	05	0.166530	05	0.839120	05	0.119930	05	0.233830	05	0.231340	05	0.214990	06
	0.139620	05	0.822690	04	0.399880	05	0.235520	05	0.188360	06	0.971090	04	0.184280	05	0.183390	05	0.331390	05	0.143150	06
	0.594520	04	0.377440	04	0.209320	05	0.645380	04	0.609170	04	0.488610	04	0.748350	04						
QCVACATN	0.318130	06	0.737660	05	0.870890	05	0.291480	06	0.194610	06	0.694240	05	0.114400	06	0.550780	05	0.148110	06	0.134190	07
	0.323110	07	0.539250	06	0.252610	06	0.607420	06	0.260970	06	0.191430	07	0.774480	05	0.202880	06	0.221690	06	0.159700	06
	0.155800	06	0.150440	06	0.646710	06	0.419250	06	0.551290	07	0.228480	06	0.599970	06	0.759990	06	0.541050	06	0.206340	06
	0.172270	06	0.130210	06	0.535010	06	0.225440	06	0.171200	06	0.126780	06	0.171340	06						
QFVACATN	0.180830	06	0.395430	05	0.582880	05	0.189820	06	0.106160	06	0.425840	05	0.756870	05	0.361860	05	0.153390	06	0.627540	06
	0.128080	07	0.229530	06	0.975890	05	0.225590	06	0.855530	05	0.393470	06	0.413410	05	0.919010	05	0.110620	06	0.755830	05
	0.517350	05	0.427510	05	0.184600	06	0.112680	06	0.113840	07	0.578190	05	0.125970	06	0.139290	06	0.158590	06	0.588040	04
	0.355820	05	0.216260	05	0.110490	06	0.407540	05	0.343790	05	0.256700	05	0.395910	05						

0.822210 04 0.169060 04 0.357540 04 0.142990 05 0.382860 04 0.262890 04 0.491350 04 0.185660 04 0.220680 05 0.235880 05
0.346750 05 0.625830 04 0.148080 04 0.386790 04 0.995290 03 0.431760 04 0.185480 04 0.383070 04 0.387040 04 0.187650 04
0.110930 04 0.371370 03 0.307060 04 0.129280 04 0.124280 05 0.535230 03 0.103100 04 0.117550 04 0.323970 04 0.644690 02
0.190290 03 0.153260 03 0.228880 04 0.381310 03 0.346690 03 0.313080 03 0.310010 03

0.822410 05 0.173440 05 0.322230 05 0.982090 05 0.491950 05 0.213860 05 0.383610 05 0.185610 05 0.955240 05 0.316850 06
0.654860 06 0.102920 06 0.460230 05 0.118810 06 0.382530 05 0.230340 06 0.212100 05 0.447430 05 0.628550 05 0.411530 05
0.284050 05 0.204120 05 0.938070 05 0.578830 05 0.568420 06 0.264690 05 0.578160 05 0.653370 05 0.785680 05 0.324430 04
0.176360 05 0.122720 05 0.603590 05 0.215210 05 0.186000 05 0.141610 05 0.201810 05

0.698580 05 0.125890 05 0.326500 05 0.970490 05 0.428090 05 0.184420 05 0.397060 05 0.196890 05 0.130730 06 0.270730 06
0.553910 06 0.816440 05 0.377550 05 0.110050 06 0.279630 05 0.119640 06 0.213150 05 0.310240 05 0.592050 05 0.433300 05
0.259370 05 0.161390 05 0.644770 05 0.484060 05 0.177340 06 0.156270 05 0.155100 05 0.176470 05 0.305020 05 0.223440 04
0.106550 05 0.495630 04 0.266100 05 0.796160 04 0.724200 04 0.628050 04 0.134030 05



FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 2000 HIGH

154

STATEWIDE TOTAL NGTRIPCN = 0.19357D 08
STATEWIDE TOTAL NOVACATN = 0.30211D 07
STATEWIDE TOTAL QBTRIPCN = 0.20333D 08
STATEWIDE TOTAL QCTRIPOCN = 0.37028D 08
STATEWIDE TOTAL QFTRIPCN = 0.41012D 08
STATEWIDE TOTAL QHTRIPCN = 0.10500D 08
STATEWIDE TOTAL QPTRIPCN = 0.24997D 08
STATEWIDE TOTAL QSTRIPCN = 0.26570D 08
STATEWIDE TOTAL QBVACATN = 0.15058D 07
STATEWIDE TOTAL QCVACATN = 0.20768D 08
STATEWIDE TOTAL QFVACATN = 0.64778D 07
STATEWIDE TOTAL QHVACATN = 0.17808D 06
STATEWIDE TOTAL QPVACATN = 0.32962D 07
STATEWIDE TOTAL QSVACATN = 0.23110D 07

ADJUSTED FORECASTED VALUES OF ENDOGENOUS VARIABLES BY REGION FOR 2000 HIGH

QBTRIPON	0.347370	04	0.383690	04	0.838540	05	0.344360	06	0.150380	06	0.290840	06	0.157550	06	0.138660	06	0.299450	05	0.264550	07
	0.182350	07	0.868880	05	0.154030	06	0.363070	06	0.919800	05	0.395470	07	0.354350	05	0.269910	06	0.244100	06	0.624860	05
	0.318460	06	0.237740	05	0.616550	06	0.304990	06	0.305020	07	0.186540	05	0.764840	05	0.147650	06	0.179850	05	0.193660	05
	0.704090	05	0.298220	06	0.190070	07	0.101990	06	0.305120	06	0.107670	06	0.108460	06						
QCTRIPO	0.166920	05	0.884260	04	0.118930	06	0.573140	06	0.267010	06	0.495670	06	0.278450	06	0.240870	06	0.563790	05	0.433090	07
	0.317620	07	0.179700	06	0.700250	05	0.630520	06	0.173610	06	0.698170	07	0.625100	05	0.484050	06	0.417130	06	0.110160	06
	0.561270	06	0.477980	05	0.110510	07	0.556010	06	0.602780	07	0.415380	05	0.202140	06	0.314210	06	0.459900	05	0.329740	05
	0.130240	06	0.548310	06	0.368960	07	0.197150	06	0.550890	06	0.194900	06	0.194510	06						
QFTRIPON	0.176270	05	0.104390	05	0.169430	06	0.685550	06	0.284070	06	0.579970	06	0.316820	06	0.258970	06	0.673700	05	0.530610	07
	0.375630	07	0.201760	06	0.214480	05	0.721060	06	0.199350	06	0.787930	07	0.713230	05	0.559440	06	0.408100	06	0.126770	06
	0.644640	06	0.549930	05	0.125540	07	0.619190	06	0.666310	07	0.459080	05	0.211050	06	0.340130	06	0.576020	05	0.371230	05
	0.148980	06	0.608140	06	0.407070	07	0.215820	06	0.617830	06	0.218310	06	0.217680	06						
QHTRIPON	0.428340	04	0.212300	04	0.336550	05	0.160010	06	0.721540	05	0.138320	06	0.730690	05	0.570440	05	0.143690	05	0.114770	07
	0.850850	06	0.360860	05	0.485550	05	0.172060	06	0.417350	05	0.193220	07	0.165640	05	0.136560	06	0.108280	06	0.266210	05
	0.142200	06	0.111650	05	0.290230	06	0.132070	06	0.146920	07	0.999660	04	0.500700	05	0.664900	05	0.397640	05	0.102060	05
	0.325540	05	0.144790	06	0.946880	06	0.510900	05	0.153120	06	0.626800	05	0.486340	05						
QPTRIPON	0.728480	04	0.547180	04	0.885420	05	0.392840	06	0.145440	06	0.351660	06	0.184320	06	0.159570	06	0.352700	05	0.298020	07
	0.215370	07	0.110440	06	0.904660	05	0.427180	06	0.112800	06	0.484100	07	0.408140	05	0.316350	06	0.288830	06	0.722700	05
	0.378170	06	0.295600	05	0.742030	06	0.360520	06	0.379610	07	0.242810	05	0.120630	06	0.186760	06	0.334170	05	0.152470	05
	0.874920	05	0.374070	06	0.247320	07	0.132750	06	0.406530	06	0.137090	06	0.130680	06						
QSTRIPON	0.165300	05	0.469160	04	0.590290	05	0.393680	06	0.163370	06	0.311210	06	0.171510	06	0.146670	06	0.382470	05	0.264900	07
	0.205400	07	0.114740	06	0.168600	06	0.396660	06	0.107870	06	0.437650	07	0.402700	05	0.300870	06	0.271290	06	0.704770	05
	0.354010	06	0.300140	05	0.683090	06	0.345560	06	0.368780	07	0.278120	05	0.128950	06	0.203930	06	0.319770	05	0.142270	05
	0.835800	05	0.320750	06	0.225430	07	0.125690	06	0.345010	06	0.128910	06	0.125750	06						
QBVACATN	0.332830	05	0.641560	04	0.180080	05	0.577690	05	0.231750	05	0.133660	05	0.151130	05	0.127070	05	0.545510	05	0.142940	06
	0.265620	06	0.346450	05	0.129590	05	0.498170	05	0.191340	05	0.849420	05	0.870900	04	0.195340	05	0.583910	04	0.225490	05
	0.160420	05	0.945270	04	0.272460	05	0.135310	05	0.153640	06	0.111580	05	0.133820	05	0.203760	05	0.403620	04	0.137010	04
	0.628460	04	0.260210	04	0.829760	04	0.741550	04	0.699940	04	0.561410	04	0.859850	04						
QCVACATN	0.138880	06	0.207600	05	0.391770	05	0.836470	05	0.672750	05	0.573060	05	0.703470	05	0.375310	05	0.129640	06	0.605150	06
	0.175420	07	0.214500	06	0.811680	05	0.203920	06	0.155850	06	0.162900	07	0.643590	05	0.109250	06	0.148080	06	0.120710	06
	0.863110	05	0.166680	06	0.201350	06	0.207640	06	0.395200	07	0.238470	06	0.484620	06	0.716600	06	0.107310	06	0.222310	05
	0.190870	06	0.721380	05	0.508610	06	0.936680	05	0.189690	06	0.825970	05	0.118650	06						
QFVACATN	0.725120	05	0.161660	05	0.410830	05	0.103470	06	0.570380	05	0.404320	05	0.499640	05	0.264340	05	0.145470	06	0.385530	06
	0.938510	06	0.109220	06	0.251800	05	0.180540	06	0.758760	05	0.367860	06	0.295070	05	0.700100	05	0.879780	05	0.563240	05
	0.497220	05	0.393490	05	0.135880	06	0.918820	05	0.766790	06	0.602560	05	0.118390	06	0.757740	05	0.868010	04	0.656850	04
	0.397450	05	0.109910	05	0.884920	05	0.951410	04	0.384010	05	0.119570	05	0.363080	05						
QHVACATN	0.162610	04	0.680050	03	0.410750	04	0.204530	05	0.136760	04	0.162850	04	0.426130	04	0.298730	04	0.226890	05	0.301720	05
	0.382120	05	0.566920	04	0.132470	04	0.572560	04	0.839140	03	0.408370	04	0.199060	04	0.514660	04	0.400430	04	0.301930	04
	0.178480	04	0.597530	03	0.348310	04	0.208010	04	0.173580	05	0.861190	03	0.163900	04	0.182900	04	0.578600	03	0.135910	03
	0.306170	03	0.207640	03	0.368270	04	0.179150	03	0.557820	03	0.503750	03	0.458810	03						
QPVACATN	0.339890	05	0.786540	04	0.175290	05	0.548500	05	0.178040	05	0.187280	05	0.211250	05	0.889450	04	0.178190	05	0.115380	06
	0.500330	06	0.382820	05	0.334150	05	0.898450	05	0.427280	05	0.197080	06	0.215360	05	0.264380	05	0.877610	04	0.767660	04
	0.606020	04	0.228000	05	0.493520	05	0.646560	05	0.343500	06	0.295660	05	0.105910	05	0.235000	05	0.188690	05	0.362380	04
	0.197530	05	0.822490	04	0.509030	05	0.533680	04	0.207760	05	0.843080	04	0.112710	05						

155

OSVACATN 0.45743D 05 0.93941D 04 0.29595D 05 0.10620D 06 0.34677D 05 0.19834D 05 0.36091D 05 0.24650D 05 0.15663D 06 0.23236D 06
0.49585D 06 0.44465D 05 0.10494D 05 0.88873D 05 0.83323D 04 0.12612D 06 0.15772D 05 0.29870D 05 0.62412D 05 0.51645D 05
0.31824D 05 0.12629D 05 0.43026D 05 0.46665D 05 0.16252D 06 0.18704D 05 0.15943D 05 0.17587D 05 0.15085D 05 0.13588D 05
0.11632D 05 0.25318D 04 0.24254D 05 0.84329D 04 0.45335D 04 0.29094D 04 0.16780D 05

ADJUSTED FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 2000 HIGH

STATEWIDE TOTAL QBTRIPCN = 0.184210 08

STATEWIDE TOTAL QCTRIPCN = 0.331130 08

STATEWIDE TOTAL QFTRIPCN = 0.377480 08

STATEWIDE TOTAL QHTRIPCN = 0.873340 07

STATEWIDE TOTAL QPTRIPCN = 0.222330 08

STATEWIDE TOTAL QSTRIPCN = 0.207450 08

STATEWIDE TOTAL QBVACATN = 0.121720 07

STATEWIDE TOTAL QCVACATN = 0.131700 08

STATEWIDE TOTAL QFVACATN = 0.446780 07

STATEWIDE TOTAL QHVACATN = 0.197070 06

STATEWIDE TOTAL QPVACATN = 0.197730 07

STATEWIDE TOTAL QSVACATN = 0.206600 07

units for typical households in each region are contained in the accompanying computer printouts. As mentioned before, these results look quite promising.

VI. Use of the Model in Planning

Because of data limitations, the econometric model has been limited to rural recreational demands on longer trips at the origins. From the appearance at the structural equations, reduced form equations and the various simulations, it appears that the model may dispatch its duties rather well. To be used as a means for planning, however, the model is incomplete with respect to short trips, urban recreation, and a mechanism by which to assign origin demand to destinations. The econometric model, however, employs a maximum of sample information about the demand it considers, (perhaps more than is optimal statistically) and considers origin demand whether or not it is destined within the state.

The econometric model approach has the capacity to bring to bear more sample information in forecasting than perhaps any other procedure. Thus, the demand forecasts derived from it should perform better than others provided the model is constructed realistically. Thus, it would seem that the econometric model should be employed to forecast rural recreational demands on overnight trips and vacations at the origins. The gravity model should be used to forecast recreational participation on one-day trips at the origins and to allocate it to the destinations. The gravity model should also be used to allocate origin demands forecast for longer trips using the econometric model.

Forecasts from the gravity model cannot be termed demand forecasts because any linkages between the gravity equations and demand relationships in the purely economic sense are not known. The use of the gravity model to

allocate forecasted demand to destinations should not have such a logical difficulty. It would seem that the term destination demand could be applied to the allocated origin demands.

There are two fundamental difficulties in linking the gravity model to the econometric model for tandem operation. First, the trip definitions are not consistent between them. The gravity model separates 2 and 3 day trips from trips of 4 days or longer and ignores the vacation category of the household survey. The econometric model considers trips of 2 or more days and vacations. Conversion of gravity model participation into econometric model demand can be accomplished by subtracting the quantities of each type of participation on 4 or more day trips that were not vacations to obtain vacation participation and adding this to the 2 and 3 day trips totals. Similarly, by subtracting the quantity of 4 or more day trips from the overnight trip figures and adding it to the vacation totals, one can convert from econometric model units to gravity units. In practice, econometric model units are converted to gravity definitions. In the sample data, the breakdowns in person days between trip definitions were as follows:

Activity	2 - 3 day	4 + day		2 + day	
		No vacations	Vacations	No vacations	4 + day & vacations
Boating	5,429,000	446,000	2,998,000	5,875,000	3,444,000
Camping	9,469,000	678,000	6,294,000	10,147,000	6,972,000
Fresh Fishing	14,506,000	758,000	6,506,000	15,264,000	7,264,000
Hunting	3,942,000	670,000	1,102,000	4,612,000	1,772,000
Picnicking	6,249,000	396,000	3,391,000	6,645,000	3,787,000
Swimming	5,907,000	1,358,000	5,382,000	7,265,000	6,740,000

Adjustment factors were based on these figures to convert from one model's

definitions to the other in forecasting. For example, by multiplying 2-3 day boating forecast by a factor of 1.082 one can obtain an overnight or longer boating forecast. Similarly by multiplying a 4 or more day gravity forecast for camping by 0.903, it can be adjusted to a vacation camping forecast. Linking the econometric and gravity models from this point of difference should cause little difficulty.

However, a more serious difficulty, relating to the completeness of the gravity model is in evidence. The gravity model estimates recreation participation at the origins to be allocated to regions within the state. In the estimation of the gravity parameters and the calibration of the model, only the survey data relating to participation inside the state borders was considered. Participation originating in Texas and going out of state was excluded. The econometric model applies to all recreation demand at the origin, whether to be dispatched within the state or not. One way to solve this inconsistency was to reduce econometric model forecasts by the proportion of in-state participation to total participation for each activity, trip type, and region, from the survey data. Computer printouts containing such information were made available to Texas Parks and Wildlife Department. For example, the survey data indicates 5,218,000 person days of boating in in-state 2-3 day trips. There was a total of 5,429,000 person days of boating on all 2-3 day trips. An adjustment factor in this case could be 0.96, indicating that 4 percent of the participation was out of state. More useful factors were obtained by computing such factors on a regional basis. The complete computations are documented on the accompanying computer program printouts.

Dr. Freund has provided a report on the way the remainder of the cascading process is completed. Similarly he has provided needs computations

from the cascaded results. In this report I have discussed the econometric model and policy simulations. The model in its present form seems most adequate for planning purposes. However, I will continue my attempts to refine the model and any further results in the near future will be supplied as supplements to this report.

162

Appendix A

Correspondence Between Robert R. Wilson
and Dr. Stanley Johnson Concerning Adjustments
in the Structural System.

TEXAS A&M UNIVERSITY
 COLLEGE OF AGRICULTURE
 COLLEGE STATION, TEXAS 77840

163

May 10, 1972

DEPARTMENT OF AGRICULTURAL ECONOMICS
Instruction

DEPARTMENT OF AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY
Research and Extension



Dr. Stanley Johnson, Visiting Professor
 Department of Economics
 Purdue University
 Lafayette, Indiana 47907

Dear Stan:

It has been difficult to get to the point of writing this letter. Herein, I would like to discuss first the difficulties associated with the previous formulations of the 49 identities questioned at the February meeting and a suggested solution to the problem. Then I will discuss the difficulties recently discovered in approximating logarithms of probabilities in 16 stochastic equations. This letter formalizes the procedures for satisfying Item I.A.1. of Gen. Cross' letter to Dr. Williams dated March 1, 1972 to which you and I both agreed by telephone.

I. Identities

In the case of the identities, each of those in which a difficulty occurs requires a solution for the variable x from the equation:

$$e^w = e^x e^y + e^z (1 - e^y) \quad (1)$$

Of course, the original formulation of the questionable identities omitted the term $e^z (1 - e^y)$. Rewriting equation (1) in terms of e^x , we have

$$e^x = e^{(w-y)} + e^z (1 - e^{-y}). \quad (2)$$

The solution for x from equation (2) is thus,

$$x = \ln(e^{(w-y)} + e^z (1 - e^{-y})) \quad (3)$$

It seems desirable to express an approximate solution for x as a linear function of w and y with z put at its mean value, \bar{z} .

A. Taylor's Series Expansion

It is apparent that a first order Taylor's Series expansion about the mean of the right-hand side of equation (3) will yield a linear expression in e^w and e^y but will be nonlinear in w and y . An attempt was made to obtain various

Dr. Johnson
 May 10, 1972
 Page 2

linear expansions of the right-hand side of equation (2) in w and y and substitute these into the right-hand side of (3). Extremely complicated expressions were obtained when a Taylor's expansion was applied to this modified right-hand side of equation (3) when an attempt was made to collect the linear terms. It was judged that such a procedure would be time consuming and tend to induce computational errors in obtaining approximations because of its complexity. Hence, it was judged to be impracticable for our purposes.

B. Method Proposed at the February Meeting

At the February meeting it was proposed to find constants k_i , $i=1, \dots, 49$, for each of the 49 questioned identities defining x_i such that at the point of means $\bar{x}_i = \bar{w}_i - \bar{y}_i + k_i$. Then an approximate solution for x_i would be

$$x_i \approx w_i - y_i + k_i. \quad (4)$$

It is apparent that an approximation such as equation (4) might be rather gross and possibly even orthogonal to the function (3) being approximated. Furthermore there could be no alteration in the last 14 equations in the reduced form system, those of most interest from a planning viewpoint. This is true because the coefficients for x_i , w_i , and y_i are not changed from their earlier specification in the endogenous coefficient matrix and its inverse is not changed. The substitution of k_i for 0 in the exogenous coefficient matrix only induces a change in the intercept of the reduced form equation for x_i . No other changes in the reduced form system can occur.

C. Proposed Solution.

With the above considerations in mind I decided to derive an approximation formula for the right-hand side of equation (3) that would be mathematically equivalent to the first order Taylor's expansion, possess its desirable tangentiality properties, and avoid the computational difficulties of applying Taylor's formula to iterated linearizations. The method devised is commonly called differential approximation.

To linearly approximate the right-hand side of equation (3) we write the expression

$$\ln(e^{(w-y)} + e^{\bar{x}}(1-e^{-y})) \approx k_1 w + k_2 y + k_3, \quad (5)$$

where

Dr. Johnson
May 10, 1972
Page 3

$$k_1 = \left. \frac{\partial \ln(\cdot)}{\partial w} \right|_{\bar{w}, \bar{y}, \bar{z}}$$

$$k_2 = \left. \frac{\partial \ln(\cdot)}{\partial y} \right|_{\bar{w}, \bar{y}, \bar{z}}$$

$$k_3 = \ln(e^{(\bar{w} - \bar{y}) + e^{z(1 - e^{-\bar{y}})}}) - k_1 \bar{w} - k_2 \bar{y},$$

\bar{w} , $e^{\bar{y}}$, and \bar{z} are the sample means of w , e^y , and z , respectively, and $\bar{y} = \ln(e^{\bar{y}})$. Equivalently,

$$k_3 = \bar{x} - k_1 \bar{w} - k_2 \bar{y}$$

Therefore, the approximation for x reduces to

$$x \approx \bar{x} + \left(\frac{\partial \ln(\cdot)}{\partial w} \right) \Big|_{\bar{w}, \bar{y}, \bar{z}} (w - \bar{w}) + \left(\frac{\partial \ln(\cdot)}{\partial y} \right) \Big|_{\bar{w}, \bar{y}, \bar{z}} (y - \bar{y}) = \bar{x} + k_1 (w - \bar{w}) + k_2 (y - \bar{y}) \quad (6)$$

which is the first order term of the Taylor's expansion about the point of means. It is the procedure in equations (5) and (6) that we seek your agreement to use. These adjustments have been computed and all but one out of 147 computed coefficients appears to be reasonable. The suspicious coefficient appears to result from unusual relationships among the means of the variables in the equation for hunting on trips. The completed calculations can be supplied to you as soon as they are typed if you would like to have them. I feel that this approach is more advantageous than any other under the circumstances.

II. Stochastic Equations

In the development of the structural system, I have been working with indicator variables valued at 0.0 for nonparticipation and 1.0 for participation. It seems desirable to estimate a system of equations with these indicators as endogenous variables in the system. Estimated proportions of the indicator variables valued at 1 can be interpreted as estimates of the proportions of households participating, or the probability of participation. Given a number of other considerations it seems desirable to work with a logarithmic transformation of the probabilities. The difficulty, of course, in this is that the logarithm of 0.0 is not defined.

A. The Approximations Used in the January Report

For purposes of estimation, I was able to employ the natural logarithmic transformation of 1.0, which is 0.0. Since the logarithm of 0.0 would be negative and larger than any negative number in a limiting sense, I chose the largest negative number I could use in computations. The value -10.0 upon

Dr. Johnson
May 10, 1972
Page 4

experimentation turned out to be the largest negative number I could use with our computer. It should be obvious that -10.0 is not a very large negative number and, therefore, should be a poor approximation for something larger and more negative than any negative number. After estimation, it turned out to be convenient to rescale the variables used to approximate logarithms of probabilities so that the -10.0 was replaced by -10,000.0. By this adjustment, it was hoped that logarithms of probabilities would be better approximated. At least, the data points associated with the logarithm of 0.0 might be better approximated.

It is somewhat paradoxical, however, that after a point, the larger and more negative a number used to approximate the logarithm of 0.0, the more poorly the logarithmic function may be approximated. The logarithmic function exhibits rather drastic change over the set of arguments from 0.0 to 0.05 covering a range from $-\infty$ to -3.0. Over the set of arguments 0.05 to 1.0, the logarithmic function varies from -3.0 to 0.0. The sample means of these probabilities ranged from roughly 0.10 to 0.40. The natural logarithms of these sample means ranged from -2.25 to -0.90. These may be seen on the accompanying graph.

In the previous version of the model, the logarithmic transformation of probabilities was approximated by a straight line connecting the points -10,000. and 0.0 on the logarithmic axis. As pointed out earlier, this was done in an attempt to gain precision in the approximation of the logarithm of 0.0. It can be easily seen that this approach provided extremely biased estimates of the logarithms of probabilities. At a sample mean of an indicator variable of 0.10, which corresponds to the sample mean probability of hunting given overnight trips, the approximation to the logarithm of 0.10 was -9,000. The logarithm of 0.10 is about -2.25. The value -9,000 corresponds to a number extremely close to 0.0 when exponentiated. On the other end of the range, the sample means for probability of fishing given overnight trips is very near 0.40. The approximation to the logarithm of this number used was -6,000. The logarithm of 0.40 is about -0.90 while -6,000. is also extremely close to 0.0 when exponentiated.

In short, the method of approximating the logarithm of probabilities that was used in the earlier report biases all the probability effects to 0.0. It would seem to be of utmost importance to find a method that would reduce this bias as much as possible at the point of means at least.

B. Proposed Method

A method was devised for adjusting the approximations to the logarithms of probabilities obtained previously in such a manner that they would be unbiased at the point of means. This method might be called the Q.D. method because it simply involves adjusting the scale on the linear approximations to logs of

Dr. Johnson
 May 10, 1972
 Page 5

167

probability variables. The scale adjustment is done in such a way that the linear approximations each map into $\ln(1.0)$ at a probability of 1.0 and $\ln(\bar{P})$ at each probability mean \bar{P} . This would clearly eliminate bias at the point of means and at 1.0. Clearly, bias can be eliminated at most at two points with any linear approximation to the logarithmic function. The previous method concentrated on biases at probabilities of 0.0 and 1.0. The Q.D. method is illustrated on the accompanying graph as the lines from the point (1.0, 0.0) and passing either through $\ln(.40)$, $\ln(.20)$ or $\ln(.10)$. It may be noted that the Q.D. method tends to bias probability estimates downward for estimates of $\ln(P)$ above the mean and bias upward for estimates of $\ln(P)$ below this mean. Biases, however are limited for estimates of $\ln(P)$ above the mean, becoming less and less biased after a point and unbiased again at $\ln(P) = \ln(1.0)$. Thus, the Q.D. method has a built-in bias damping process that should prove valuable for long range projections.

To implement the Q.D. method one obtains an adjustment for the intercept of the linear approximation such that the linear approximation passes through $\ln(\bar{P})$. Adjustments in slope of the linear approximation and scale of the values will be embodied in the adjustment of the intercept.

If y is the approximation used for $\ln(P)$, in the previous work, then the approximation equation may be expressed as

$$y = -10,000 + 10,000P.$$

If y^* represents the new approximation for $\ln(P)$ through the points $(\bar{P}, \ln(\bar{P}))$ and (10,000) its equation may be expressed as

$$y^* = \frac{\ln(\bar{P})}{1-\bar{P}} - \frac{\ln(\bar{P})}{1-\bar{P}}P$$

$$\text{or } y^* = \frac{-1}{10,000} \frac{\ln(\bar{P})}{1-\bar{P}} y = ky.$$

The adjustment factor k is then

$$k = \frac{-1}{10,000} \frac{\ln(\bar{P})}{1-\bar{P}}.$$

To convert the old approximations into the new values by the Q.D. method all that must be done is to multiply the old value by the adjustment factor k . Values of k for each of the 14 probabilities have been computed and parameters

Dr. Johnson
May 10, 1972
Page 6

168

in each of the 16 affected equations have been adjusted accordingly. It is the Q.D. method that we seek your agreement to employ in the adjustments to the econometric model.

Thank you for all the assistance you have given to us here at Texas A&M University. Your written agreement with the procedures proposed herein will allow Texas A&M University to provide the Texas Parks and Wildlife Department with the modelling results at the earliest possible date.

Sincerely yours,



Robert R. Wilson
Assistant Professor

ems
Enclosures

cc: Dr. H. O. Kunkel
Dr. Jarvis Miller
Dr. T. R. Timm
Dr. J. G. McNeely
Dr. R. J. Freund

PURDUE UNIVERSITY
KRANNERT GRADUATE SCHOOL
OF
INDUSTRIAL ADMINISTRATION
LAFAYETTE, INDIANA 47907

A7

169

May 24, 1972

Professor Robert R. Wilson
Department of Agricultural Economics
Texas A&M University
College Station, Texas 77804

Dear Bob:

Please excuse the delay in my response to your letter setting out the procedures for handling the problems with the identities and stochastic equations in the econometric model. I was out of town on a seminar trip last week and have not had sufficient time to study and respond to your suggestions until now.

Let me begin by indicating that the methods you have proposed for reformulating the 49 identities and approximating the logarithms for the 16 stochastic equations appear to be in agreement with the procedures we tentatively worked out in our earlier telephone conversation. In view of the fact that a number of people may have occasion to consult this response to your proposal it may however be useful for me to comment specifically on the methods suggested for approaching the problems involved in the identities and stochastic equations.

The reasoning in connection with the proposed approximation for the identities is sound. I agree that a Taylor's Series approximation of the right-hand-side of equation (3) as expanded for w and y is likely to give rise to some rather unwieldy expressions and that in view of this difficulty some other method would be more appropriate. The method proposed at the February meeting was clearly a stop-gap measure and is inferior to the differential approximation for the reasons you have suggested. It may provide some useful insights, however, as a simple alternative in situations when the more complicated differential approximation turns out to give results which are suspect.

As I have already indicated the Taylor's expansion about the point of means or the differential approximation seems the most appropriate of the three approaches, given the circumstances as they are now. I am concurring with



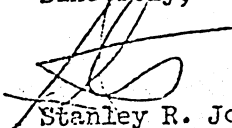
170

your suggestion mainly on the basis of my intuition. The approximation and reasoning surrounding it are of course correct. However, in situations of this type the degree of satisfaction is many times a conditional upon the function to be approximated. Since this is a numerical question specific to your data I recommend that you do as much as possible to assure yourself that the first order expansion is performing as desired.

The stochastic equations represent a problem of a different order than that involved with the identities. As was the case with the identities we are interested in adjusting the equations so that they perform well at the sample means. In this respect the adjustments you suggest are appropriate. The question of the effect of these adjustments on the parameter values as initially estimated is however unclear to me. I suspect that there is some effect on the parameters but that it would be rather difficult to determine. Hence, the method you have suggested is acceptable. However, in view of the possibility of a difficulty with the parameters, I would suggest that you be rather careful to calibrate the equations so that they perform well at the sample means.

I hope these comments and our earlier telephone conversations have been of some use to you. As we both have indicated a number of times, this is exploratory work both in terms of model formulation and estimation. The isolation of a reduced form which will perform satisfactorily may therefore be rather difficult. Hence I suggest that you may use such calibrating and other "Sherlock Holmes" type methods as are required to obtain an acceptable reduced form.

Sincerely,



Stanley R. Johnson
Visiting Professor

SRJ: rr

cc: H.O. Kunkel
T.R. Timm
J.G. McNeely
R.J. Freund
R. Thuma

171

Appendix B

Projections of Statewide Totals for
Participation Using a Type 2 Bias Correction
Factor of 0.1.

FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1975 LOW

172

- STATEWIDE TOTAL NDTRIPON = 0.101040 08
- STATEWIDE TOTAL NOVACATN = 0.161040 07
- STATEWIDE TOTAL QBTRIPON = 0.110510 08
- STATEWIDE TOTAL QCTRIPOB = 0.184750 08
- STATEWIDE TOTAL QFTRIPON = 0.210960 08
- STATEWIDE TOTAL QHTRIPON = 0.782240 07
- STATEWIDE TOTAL QPTRIPON = 0.121080 08
- STATEWIDE TOTAL QSTRIPON = 0.137190 08
- STATEWIDE TOTAL QBVACATN = 0.272450 07
- STATEWIDE TOTAL QCVACATN = 0.356900 07
- STATEWIDE TOTAL QFVACATN = 0.630160 07
- STATEWIDE TOTAL QHVACATN = 0.727810 06
- STATEWIDE TOTAL QPVACATN = 0.342520 07
- STATEWIDE TOTAL QSVACATN = 0.433190 07

DJUSTED FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1975 LOW

B2

173

STATEWIDE TOTAL QBTRIPON = 0.991840 07
STATEWIDE TOTAL QCTRIPON = 0.164090 08
STATEWIDE TOTAL QFTRIPON = 0.191970 08
STATEWIDE TOTAL QNTRIPON = 0.644950 07
STATEWIDE TOTAL QPTRIPON = 0.106760 08
STATEWIDE TOTAL QSTRIPON = 0.106430 08
STATEWIDE TOTAL QBVACATN = 0.221460 07
STATEWIDE TOTAL QCVACATN = 0.534540 07
STATEWIDE TOTAL QFVACATN = 0.435300 07
STATEWIDE TOTAL QHVACATN = 0.829920 06
STATEWIDE TOTAL QPVACATN = 0.202530 07
STATEWIDE TOTAL QSVACATN = 0.335900 07

FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1975 MEDIUM

174

STATEWIDE TOTAL NOTRIPON = 0.940540 07

STATEWIDE TOTAL NOVACATN = 0.159000 07

STATEWIDE TOTAL QSTRIPON = 0.101130 08

STATEWIDE TOTAL OCTRIPON = 0.174280 08

STATEWIDE TOTAL QFTRIPON = 0.198020 08

STATEWIDE TOTAL QHTRIPON = 0.700570 07

STATEWIDE TOTAL QPTRIPON = 0.113850 08

STATEWIDE TOTAL OSTRIPON = 0.127490 08

STATEWIDE TOTAL QBVACATN = 0.269590 07

STATEWIDE TOTAL QCVACATN = 0.834970 07

STATEWIDE TOTAL QFVACATN = 0.641490 07

STATEWIDE TOTAL QHVACATN = 0.831440 06

STATEWIDE TOTAL QPVACATN = 0.343030 07

STATEWIDE TOTAL QSVACATN = 0.433340 07

LISTED FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1975 MEDIUM

175

STATEWIDE TOTAL QBTRIPON = 0.908950 07

STATEWIDE TOTAL QCTRIPON = 0.154710 08

STATEWIDE TOTAL QFTRIPON = 0.180110 08

STATEWIDE TOTAL QHTRIPON = 0.577570 07

STATEWIDE TOTAL QPTRIPON = 0.100390 08

STATEWIDE TOTAL QSTRIPON = 0.989430 07

STATEWIDE TOTAL QBVACATN = 0.219080 07

STATEWIDE TOTAL QCVACATN = 0.515220 07

STATEWIDE TOTAL QFVACATN = 0.442660 07

STATEWIDE TOTAL QHVACATN = 0.946900 06

STATEWIDE TOTAL QPVACATN = 0.202730 07

STATEWIDE TOTAL QSVACATN = 0.335770 07

FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1975 HIGH

176

STATEWIDE TOTAL NOTRIPON = 0.102710 08

STATEWIDE TOTAL NOVACATN = 0.153380 07

STATEWIDE TOTAL QSTRIPON = 0.109020 08

STATEWIDE TOTAL QCTRIPON = 0.192600 08

STATEWIDE TOTAL QPTRIPON = 0.217580 08

STATEWIDE TOTAL QHTRIPON = 0.724000 07

STATEWIDE TOTAL QPTRIPON = 0.125790 08

STATEWIDE TOTAL QSTRIPON = 0.137560 08

STATEWIDE TOTAL QSVACATN = 0.259690 07

STATEWIDE TOTAL QCVACATN = 0.821490 07

STATEWIDE TOTAL QFVACATN = 0.634910 07

STATEWIDE TOTAL QHVACATN = 0.886500 06

STATEWIDE TOTAL QPVACATN = 0.336930 07

STATEWIDE TOTAL QSVACATN = 0.410360 07

USTED FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1975 HIGH

177

ATEWIDE TOTAL QSTRIPDN = 0.980130 07

ATEWIDE TOTAL QCTRIPOD = 0.170930 08

ATEWIDE TOTAL QFTRIPDN = 0.197900 08

ATEWIDE TOTAL QHTRIPDN = 0.596850 07

ATEWIDE TOTAL QPTRIPDN = 0.110960 08

ATEWIDE TOTAL QSTRIPDN = 0.106760 08

ATEWIDE TOTAL QBVACATN = 0.211110 07

ATEWIDE TOTAL QCVACATN = 0.507020 07

ATEWIDE TOTAL QFVACATN = 0.437940 07

ATEWIDE TOTAL QHVACATN = 0.100940 07

ATEWIDE TOTAL QPVACATN = 0.199030 07

ATEWIDE TOTAL QSVACATN = 0.365380 07

FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1980 LOW

178

STATEWIDE TOTAL NOTRIPON = 0.105590 08

STATEWIDE TOTAL NOVACATN = 0.181990 07

STATEWIDE TOTAL QBTRIPON = 0.114530 08

STATEWIDE TOTAL QOTRIPON = 0.194070 08

STATEWIDE TOTAL OFTRIPON = 0.220560 08

STATEWIDE TOTAL QUTRIPON = 0.795410 07

STATEWIDE TOTAL OPTRIPON = 0.126270 08

STATEWIDE TOTAL QSTRIPON = 0.144290 08

STATEWIDE TOTAL QRVACATN = 0.265580 07

STATEWIDE TOTAL QCVACATN = 0.101910 08

STATEWIDE TOTAL QFVACATN = 0.629940 07

STATEWIDE TOTAL QOVACATN = 0.612210 06

STATEWIDE TOTAL QPVACATN = 0.357000 07

STATEWIDE TOTAL QSVACATN = 0.399280 07

ADJUSTED FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1980 LOW

179

STATEWIDE TOTAL QSTRIPDN = 0.10312D 08

STATEWIDE TOTAL QCTRIPOD = 0.17231D 08

STATEWIDE TOTAL QFTRIPDN = 0.20108D 08

STATEWIDE TOTAL QHTRIPDN = 0.65653D 07

STATEWIDE TOTAL QPTRIPDN = 0.11141D 08

STATEWIDE TOTAL QSTRIPDN = 0.11204D 08

STATEWIDE TOTAL QBVACATN = 0.21834D 07

STATEWIDE TOTAL QCVACATN = 0.62961D 07

STATEWIDE TOTAL QFVACATN = 0.43462D 07

STATEWIDE TOTAL QHVACATN = 0.69885D 06

STATEWIDE TOTAL QPVACATN = 0.21206D 07

STATEWIDE TOTAL QSVACATN = 0.35556D 07

FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1980 MEDIUM

1.80

STATEWIDE TOTAL NOTRIPON = 0.109680 08
STATEWIDE TOTAL NOVACATN = 0.178540 07
STATEWIDE TOTAL QBTRIPON = 0.117720 08
STATEWIDE TOTAL QCTRIPON = 0.204070 08
STATEWIDE TOTAL QFTRIPON = 0.230670 08
STATEWIDE TOTAL QHTRIPON = 0.786040 07
STATEWIDE TOTAL QPTRIPON = 0.133110 08
STATEWIDE TOTAL QSTRIPON = 0.148330 08
STATEWIDE TOTAL QBVACATN = 0.270940 07
STATEWIDE TOTAL QCVACATN = 0.967900 07
STATEWIDE TOTAL QFVACATN = 0.638310 07
STATEWIDE TOTAL QHVACATN = 0.738370 06
STATEWIDE TOTAL QPVACATN = 0.351140 07
STATEWIDE TOTAL QSVACATN = 0.419520 07

LISTED FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1980 MEDIUM

181

ATEWIDE TOTAL QSTRIPON = 0.105970 08

ATEWIDE TOTAL QCTRIPON = 0.131070 08

ATEWIDE TOTAL QSTRIPON = 0.210070 08

ATEWIDE TOTAL QHTRIPON = 0.648610 07

ATEWIDE TOTAL QPTRIPON = 0.117380 08

ATEWIDE TOTAL QSTRIPON = 0.115510 08

ATEWIDE TOTAL QBVACATN = 0.219920 07

ATEWIDE TOTAL QCVACATN = 0.597770 07

ATEWIDE TOTAL QFVACATN = 0.440320 07

ATEWIDE TOTAL QHVACATN = 0.843510 06

ATEWIDE TOTAL QPVACATN = 0.214380 07

ATEWIDE TOTAL QSVACATN = 0.373370 07

FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1980 HIGH

182

STATEWIDE TOTAL NOTRIPON = 0.112430 08
STATEWIDE TOTAL NOVACATN = 0.176040 07
STATEWIDE TOTAL QBTRIPON = 0.119050 08
STATEWIDE TOTAL QCTRIPOB = 0.211760 08
STATEWIDE TOTAL QFTRIPON = 0.238030 08
STATEWIDE TOTAL QHTRIPON = 0.756800 07
STATEWIDE TOTAL QPTRIPON = 0.137930 08
STATEWIDE TOTAL QSTRIPON = 0.151510 08
STATEWIDE TOTAL QSVACATN = 0.270300 07
STATEWIDE TOTAL QCVACATN = 0.928240 07
STATEWIDE TOTAL QFVACATN = 0.648340 07
STATEWIDE TOTAL QHVACATN = 0.854330 06
STATEWIDE TOTAL QPVACATN = 0.364040 07
STATEWIDE TOTAL QSVACATN = 0.419760 07

JUSTED FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1980 HIGH

183

STATEWIDE TOTAL QBTRIPON = 0.107160 08

STATEWIDE TOTAL QCTRIPOB = 0.187760 08

STATEWIDE TOTAL QFTRIPOB = 0.216640 08

STATEWIDE TOTAL QHTRIPOB = 0.632530 07

STATEWIDE TOTAL QPTRIPOB = 0.121580 08

STATEWIDE TOTAL QSTRIPON = 0.117540 08

STATEWIDE TOTAL QBVACATN = 0.219440 07

STATEWIDE TOTAL QCVACATN = 0.574340 07

STATEWIDE TOTAL QFVACATN = 0.447090 07

STATEWIDE TOTAL QHVACATN = 0.975150 06

STATEWIDE TOTAL QPVACATN = 0.216060 07

STATEWIDE TOTAL QSVACATN = 0.373400 07

FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1990 LOW

STATEWIDE TOTAL NGTRIPON = 0.105780 08

STATEWIDE TOTAL NOVACATN = 0.228330 07

STATEWIDE TOTAL QBTRIPON = 0.114790 08

STATEWIDE TOTAL QCTRIPOB = 0.195110 08

STATEWIDE TOTAL QFTRIPOB = 0.221070 08

STATEWIDE TOTAL QHTFIPON = 0.764590 07

STATEWIDE TOTAL QPTFIPON = 0.126620 08

STATEWIDE TOTAL QSTRIPON = 0.147320 08

STATEWIDE TOTAL QSVACATN = 0.270330 07

STATEWIDE TOTAL QCVACATN = 0.137400 08

STATEWIDE TOTAL QEVACATN = 0.547920 07

STATEWIDE TOTAL QHVACATN = 0.425320 06

STATEWIDE TOTAL QPVACATN = 0.389290 07

STATEWIDE TOTAL QSVACATN = 0.322140 07

184

JUSTED FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1990 LOW

185

STATEWIDE TOTAL QBTRIPON = 0.10324D 08

STATEWIDE TOTAL QCTRIPOH = 0.17357D 08

STATEWIDE TOTAL QETRIPOH = 0.20203D 08

STATEWIDE TOTAL QHTRIPON = 0.63139D 07

STATEWIDE TOTAL QPTRIPON = 0.11177D 08

STATEWIDE TOTAL QSTRIPON = 0.11434D 08

STATEWIDE TOTAL QBVACATN = 0.21833D 07

STATEWIDE TOTAL QCVACATN = 0.84738D 07

STATEWIDE TOTAL QFVACATN = 0.44653D 07

STATEWIDE TOTAL QHVACATN = 0.48804D 06

STATEWIDE TOTAL QPVACATN = 0.23314D 07

STATEWIDE TOTAL QSVACATN = 0.28723D 07

FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1990 MEDIUM

186

STATEWIDE TOTAL NCTRIPON = 0.109110 08
STATEWIDE TOTAL NOVACATN = 0.220280 07
STATEWIDE TOTAL QSTRIPON = 0.117170 08
STATEWIDE TOTAL QCTRIPON = 0.203660 08
STATEWIDE TOTAL QFTRIPON = 0.229490 08
STATEWIDE TOTAL QHTRIPON = 0.751750 07
STATEWIDE TOTAL QPTRIPON = 0.132430 08
STATEWIDE TOTAL QSTRIPON = 0.150320 08
STATEWIDE TOTAL QBVACATN = 0.289310 07
STATEWIDE TOTAL QCVACATN = 0.124770 08
STATEWIDE TOTAL QFVACATN = 0.691660 07
STATEWIDE TOTAL QHVACATN = 0.607930 06
STATEWIDE TOTAL QPVACATN = 0.407350 07
STATEWIDE TOTAL QSVACATN = 0.339550 07

USTED FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1990 MEDIUM

187

ATEWIDE TOTAL QBTRIPON = 0.105270 08

ATEWIDE TOTAL QCTRIPOV = 0.180380 08

ATEWIDE TOTAL QFTRIPON = 0.209420 08

ATEWIDE TOTAL QHTRIPON = 0.620560 07

ATEWIDE TOTAL QPTRIPON = 0.116730 08

ATEWIDE TOTAL QSTRIPON = 0.116830 08

ATEWIDE TOTAL QBVACATN = 0.234380 07

ATEWIDE TOTAL QCVACATN = 0.768890 07

ATEWIDE TOTAL QFVACATN = 0.477240 07

ATEWIDE TOTAL QHVACATN = 0.701650 06

ATEWIDE TOTAL QPVACATN = 0.244270 07

ATEWIDE TOTAL QSVACATN = 0.347500 07

FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1990 HIGH

STATEWIDE TOTAL NOVTRIPON = 0.114030 08

STATEWIDE TOTAL NOVACATN = 0.216500 07

STATEWIDE TOTAL QBTIPON = 0.121410 08

STATEWIDE TOTAL QCTIPON = 0.215250 08

STATEWIDE TOTAL QETIPON = 0.241170 08

STATEWIDE TOTAL QHTRIPON = 0.748490 07

STATEWIDE TOTAL QPTRIPON = 0.139940 08

STATEWIDE TOTAL QSTRIPON = 0.156270 08

STATEWIDE TOTAL QBVACATN = 0.292160 07

STATEWIDE TOTAL QCVACATN = 0.118950 08

STATEWIDE TOTAL QFVACATN = 0.697020 07

STATEWIDE TOTAL QHVACATN = 0.723600 06

STATEWIDE TOTAL QPVACATN = 0.414470 07

STATEWIDE TOTAL QSVACATN = 0.402390 07

ADJUSTED FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 1990 HIGH

STATEWIDE TOTAL QBTRIPON = 0.109000 08

STATEWIDE TOTAL QCTRIPON = 0.190910 08

STATEWIDE TOTAL QFTRIPON = 0.219830 08

STATEWIDE TOTAL QHTRIPON = 0.617320 07

STATEWIDE TOTAL QPTRIPON = 0.123300 08

STATEWIDE TOTAL QSTRIPON = 0.120970 08

STATEWIDE TOTAL QBVACATN = 0.236790 07

STATEWIDE TOTAL QCVACATN = 0.732540 07

STATEWIDE TOTAL QFVACATN = 0.481140 07

STATEWIDE TOTAL QHVACATN = 0.837150 06

STATEWIDE TOTAL QPVACATN = 0.248560 07

STATEWIDE TOTAL QSVACATN = 0.359630 07

189

FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 2000 LOW

190

STATEWIDE TOTAL NQTRIPDN = 0.151630 08

STATEWIDE TOTAL NQVACATN = 0.271730 07

STATEWIDE TOTAL QBTRIPDN = 0.166400 08

STATEWIDE TOTAL QCTRIPOD = 0.290560 08

STATEWIDE TOTAL QFTRIPDN = 0.316500 08

STATEWIDE TOTAL QHTRIPDN = 0.103560 08

STATEWIDE TOTAL QPTRIPDN = 0.183930 08

STATEWIDE TOTAL QSTRIPDN = 0.209220 08

STATEWIDE TOTAL QBVACATN = 0.276120 07

STATEWIDE TOTAL QCVACATN = 0.169170 08

STATEWIDE TOTAL QFVACATN = 0.659520 07

STATEWIDE TOTAL QHVACATN = 0.349550 06

STATEWIDE TOTAL QPVACATN = 0.423870 07

STATEWIDE TOTAL QSVACATN = 0.248410 07

ADJUSTED FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 2000 LOW

STATEWIDE TOTAL QBTRIPON = 0.14989D 08
STATEWIDE TOTAL QCTRIPOB = 0.24938D 08
STATEWIDE TOTAL QFTRIPON = 0.28935D 08
STATEWIDE TOTAL QHTRIPON = 0.85678D 07
STATEWIDE TOTAL QPTRIPON = 0.16235D 08
STATEWIDE TOTAL QSTRIPON = 0.16260D 08
STATEWIDE TOTAL QBVACATN = 0.22361D 07
STATEWIDE TOTAL QCVACATN = 0.10529D 08
STATEWIDE TOTAL QFVACATN = 0.45478D 07
STATEWIDE TOTAL QHVACATN = 0.39859D 06
STATEWIDE TOTAL QPVACATN = 0.25637D 07
STATEWIDE TOTAL QSVACATN = 0.22126D 07

191

FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 2000 MEDIUM

192

STATEWIDE TOTAL NOTRIPON	=	0.15883D 08
STATEWIDE TOTAL NOVACATN	=	0.26458D 07
STATEWIDE TOTAL QBTRIPON	=	0.17263D 08
STATEWIDE TOTAL QCTRIPON	=	0.29706D 08
STATEWIDE TOTAL QFTRIPON	=	0.33330D 08
STATEWIDE TOTAL QHTRIPON	=	0.10357D 08
STATEWIDE TOTAL QPTRIPON	=	0.19477D 08
STATEWIDE TOTAL QSTRIPON	=	0.21771D 08
STATEWIDE TOTAL QBVACATN	=	0.28375D 07
STATEWIDE TOTAL QCVACATN	=	0.15797D 08
STATEWIDE TOTAL QFVACATN	=	0.67450D 07
STATEWIDE TOTAL QHVACATN	=	0.46882D 06
STATEWIDE TOTAL QPVACATN	=	0.43663D 07
STATEWIDE TOTAL QSVACATN	=	0.27942D 07

USTED FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 2000 MEDIUM

193

ATEWIDE TOTAL QBTRIPON = 0.155390 08

ATEWIDE TOTAL QCTRIPON = 0.263750 08

ATEWIDE TOTAL QFTRIPON = 0.304390 08

ATEWIDE TOTAL QHTRIPON = 0.856240 07

ATEWIDE TOTAL QPTRIPON = 0.171310 08

ATEWIDE TOTAL QSTRIPON = 0.169050 08

ATEWIDE TOTAL QBVACATN = 0.229770 07

ATEWIDE TOTAL QCVACATN = 0.983600 07

ATEWIDE TOTAL QFVACATN = 0.465210 07

ATEWIDE TOTAL QHVACATN = 0.536300 06

ATEWIDE TOTAL QPVACATN = 0.263890 07

ATEWIDE TOTAL QSVACATN = 0.249110 07

JUSTED FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 2000 HIGH

194

STATEWIDE TOTAL QBTRIPON = 0.143310 08

STATEWIDE TOTAL QCTRIPON = 0.251450 08

STATEWIDE TOTAL QFTRIPON = 0.288250 08

STATEWIDE TOTAL QHTRIPON = 0.769410 07

STATEWIDE TOTAL QPTRIPON = 0.162870 08

STATEWIDE TOTAL QSTRIPON = 0.158330 08

STATEWIDE TOTAL QBVACATN = 0.223350 07

STATEWIDE TOTAL QCVACATN = 0.956600 07

STATEWIDE TOTAL QFVACATN = 0.470200 07

STATEWIDE TOTAL QHVACATN = 0.603830 06

STATEWIDE TOTAL QPVACATN = 0.262630 07

STATEWIDE TOTAL QSVACATN = 0.227460 07

FORECASTED STATEWIDE TOTALS OF ENDOGENOUS VARIABLES FOR 2000 HIGH

195

STATEWIDE TOTAL NQTRIPON = 0.14947D 08

STATEWIDE TOTAL NOVACATN = 0.26227D 07

STATEWIDE TOTAL QSTIPON = 0.15977D 08

STATEWIDE TOTAL QCTIPON = 0.28343D 08

STATEWIDE TOTAL QFTRIPON = 0.31582D 08

STATEWIDE TOTAL QHTRIPON = 0.93107D 07

STATEWIDE TOTAL QPTRIPON = 0.18470D 08

STATEWIDE TOTAL QSTRIPON = 0.20474D 08

STATEWIDE TOTAL QBVACATN = 0.27636D 07

STATEWIDE TOTAL QCVACATN = 0.15369D 08

STATEWIDE TOTAL QFVACATN = 0.68149D 07

STATEWIDE TOTAL QHVACATN = 0.52705D 06

STATEWIDE TOTAL QPVACATN = 0.43455D 07

STATEWIDE TOTAL QSVACATN = 0.25491D 07

196

Appendix C

A Supplement to The Demand for Non-Urban
Outdoor Recreation in Texas: 1968-2000

Volume I, June 1, 1972

A Supplement to The Demand for Non-Urban Outdoor Recreation in Texas:
1968 - 2000, Volume I, June 1, 1972.

by Robert R. Wilson

In Volume I of the June 1, 1972 report entitled "The Demand for Non-Urban Outdoor Recreation in Texas: 1968 - 2000", it was indicated that some further checks on the validity of the model would be made and some possible modifications would be attempted. It is the purpose of this report to summarize the effort during June and July, 1972. Briefly stated, errors discovered in the June 1 version of the econometric model should have a minimal effect on its validity. Further modifications have not performed in a promising fashion. Therefore, the June 1, 1972 version should be employed as it stands, unless a substantial program of further research is to be instituted including a re-estimation of the structural model with new data.

Additional work following the submission of the June 1, 1972 report is summarized and documented in the following sections. A section on policy implications of reduced form coefficients is also included.

I. Each structural equation was checked for keypunch errors. Data was fed through each structural equation by hand to make sure each computed appropriate answers. Keypunch errors were discovered in the constant term in one equation and in an exogenous coefficient in another equation. Neither of these errors should have significantly affected the results. It was also discovered that the

26 identities that were deemed to be logically correct and were not adjusted during the February to May period do not perform correctly using means of the survey data. The model is, however, correct in principle. This occurred partly because the sample means are means of logarithms of quantity variables and logarithms of means of probability variables and are used together in the identities. The two different methods were required because of data limitations but are inconsistent from a mathematical viewpoint. The constant 1.0 added to each quantity variable prior to computing its logarithm may also have contributed to the bias in the apparently correct identities.

II. Key punch errors in the two equations were corrected; the 26 identities that had not been previously adjusted for bias were corrected; and a coefficient in an identity that was correctly computed but had an illogical algebraic sign was set to 0.0 and the constant in that equation adjusted to compensate for the change. In all, 30 changes were made in the system.

III. All computer programs used in the derivation of the forecasting system from the structural model were tested again on sample problems and were found to be operating correctly.

IV. The structural system further adjusted as described in part II above, was solved for the reduced form forecasting system. Upon feeding regional sample means for 1968 and projections of these means for 1975, 1980, 1990, and 2000, through this reduced form forecasting system, the 1968 forecasts were found to be grossly different from observed means for 1968, particularly for the trip variables, and highly insensitive to changes in the policy variables.

This system could not be systematically calibrated in such a way as to be

an improvement over the forecasting system reported in the June 1, 1972 report. Given that the data are known to contain nonsampling errors, as reported on pages 7 to 11 of Volume 1 of the June 1, 1972 report, it was attempted to adjust the forecasts to more closely approximate the observed regional means using least squares. The observed regional mean of each unconditioned endogenous variable was regressed on its value forecasted by the reduced form system. This corresponds to an attempt to estimate the parameters of a transformation hyperplane of measurement errors as discussed in Chapter 10 of Malinvaud's Statistical Methods of Econometrics. In this estimation attempt it was assumed among other things, that the unconditioned sample means of the endogenous variables were relatively less affected by errors (corresponded closely to true values) than were equations fitted to endogenous and exogenous variables all subject to error. The approach seemed to perform satisfactorily on one or two of the fourteen equations. In the June 1, 1972 version of the model, the parameters of the transformation hyperplane were chosen by experimenting with a number of values for the parameters and choosing those values that seemed to perform most reasonably in the current and future simulations. In the remaining equations, the correlation between the observed and forecasted values either approached or attained statistical non-significance at the 5 percent level (assuming such a test to be exact). Malinvaud's discussion points out that any methods to treat the problem are highly experimental at this point in that the parameters of the hyperplane may be difficult to estimate for a variety of reasons. What that means for our situation is that it is not likely possible for us to achieve a reduced form system that can be easily identified using the data from the household survey. The apparent identification

of the structural system may also have been destroyed by nonsampling errors but that is not apparent from its performance. A similar statement may be made about the gravity model.

A pattern consistent with the performance of the model observed earlier seems to have evolved. As adjustments for biases in the structure have been made, the forecasting performance has deteriorated. That is, as the structure become more nearly perfected, containing fewer internal biases resulting from mathematical specifications, biases resulting from nonsampling errors in the data have become more apparent. In this forecasting system, trip equations generally performed much more poorly than vacation equations, which seems consistent with the apparently larger proportion of nonsampling errors in the trip data. The planned straightforward adjustments did not produce the expected results. Substantial restructuring of the model to minimize the effects of nonsampling errors in the data and possible use of new data appear to be needed.

V. To complete the requested documentation of the econometric model, policy interpretations are given, using the adjusted reduced form equation for QBTRIPON, on page 66 of Volume I of the June 1, 1972 report, as an example. The interpretation of each equation would be repetitive and unnecessary. The coefficients of the reduced form equations can be interpreted as estimates of elasticities of demand for the endogenous variables with respect to the exogenous variable. This means that a 1.0 percentage change in the (unlogged) value of an exogenous variable will cause a percentage change in the endogenous variable QBTRIPON of the magnitude of the coefficient. For example, a 1.0 percentage change in HHINCOME is expected to produce a 1.7321 percentage change in QBTRIPON.

Following this line of interpretation, the estimated percentage change in demand for QBTRIPON with respect to a 1.0 percent change in OTHERTRP is 5.949; HRWRK/WK is 1.9216; and FAMLYSZE is -4.7224. Moving on down to the availability variables that are controlled by policy decisions, we see that the estimated percentage change in demand for QBTRIPON with respect to a 1.0 percent change in AVACFWL1 is 0.5701; AVFSHOL1 is 1.8858; AVFWBOT1 is 0.0577; AVSWBOT1 is .0548; AVACFWL2 is .0163; AVFSHQL2 is -.0046; AVFWBOT2 is .0122; and AVSWBOT2 is .0045. The remaining elasticities are interpreted in the same fashion. Of the 85 elasticity coefficients in the equation, some 14 of them appear to have algebraic signs different from those expected. The most serious of these coefficients with improper signs are associated with AVFWBOT1 and AVSWBOT1.

VI. It is recommended that if Texas Parks and Wildlife wishes to use an econometric model in their state plan that they should employ the results contained in the June 1, 1972 report. Given the limitations of the household survey data, the June 1 version of the model may likely be as highly refined as possible without the use of better data. That is, the June 1 report is complete and the model in it is usable and should stand as is. The coefficients in the equations in that model have relative magnitudes that are amenable to calibration and adjustment by specified hyperplane parameters. In fairness I should point out that all possible adjustment experiments have not been performed, but it is my opinion as an econometrician that their chances for success appear dismal. Although I plan to continue refinements of the econometric model in the future, it seems at this point unlikely that many refinements can be successful without the use of new data. For that reason, it may not be possible to incorporate such refinements

into the Texas Outdoor Recreation Plan. I am confident that the approach that we have used would have produced better results if the data were not badly in error. It seems fortunate that the gravity results and the structural system are not as obviously affected by such data errors.

