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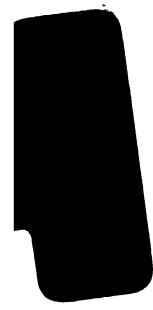
THE IMPACTS OF THE PROCISUR PROGRAM: AN INTERNATIONAL STUDY

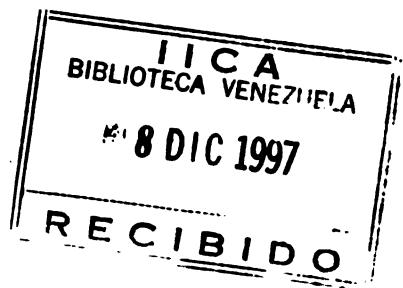
Robert E. Evenson, YALE UNIVERSITY

Elmar R. da Cruz, EMBRAPA

PROGRAMA COOPERATIVO DE INVESTIGACIÓN
AGRÍCOLA DEL CONO SUR

BID/IICA





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PROGRAM: AN INTERNATIONAL STUDY**

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PRESENTACION

Este Estudio Internacional sobre el Impacto del Programa PROCISUR ("The Impacts of the PROCISUR Program: an International Study"), ha sido elaborado por el Dr. Robert E. Evenson, con la cooperación del Dr. Elmar Rodriguez da Cruz, como una de las partes de la Evaluación Económica del Programa, que se complementa con los estudios nacionales, presentados por separado.

El Dr. Evenson consultor de alto nivel de la Universidad de Yale fue contratado especialmente por el IICA/BID/PROCISUR para realizar este análisis, referente a la etapa de consolidación del Programa a partir de 1984.

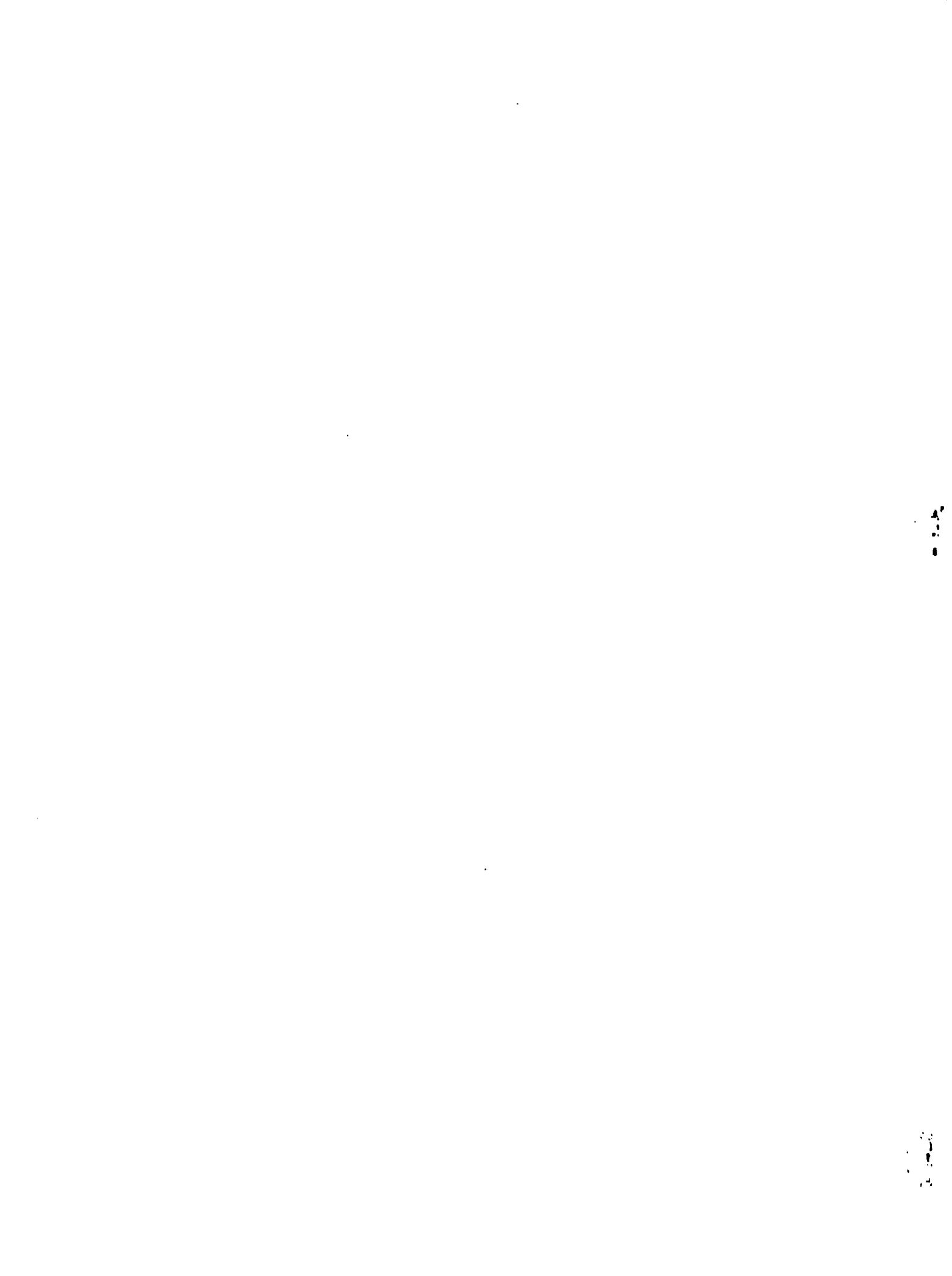
Montevideo, agosto de 1989

IICA/BID/PROCISUR

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THE IMPACTS OF THE PROCISUR PROGRAM: AN INTERNATIONAL STUDY

Robert E. Evenson *
Elmar R. da Cruz **

I - INTRODUCTION

The Agricultural Research Cooperative Program for the South Cone Region was signed in 1978 between the countries of Argentina, Bolivia, Brazil, Chile, Paraguay and Uruguay. The funding was provided by the Inter-American Development Bank (IADB), by IICA (Inter-American Institute for Cooperation in Agriculture) and by the participating countries. The administration was put into the hands of IICA and the implementation was assigned to:

- INTA - Instituto Nacional de Tecnología Agropecuaria - Argentina.
- IBTA - Instituto Boliviano de Tecnología Agropecuaria - Bolivia.
- EMBRAPA- Empresa Brasileira de Pesquisa Agropecuaria - Brazil.
- INIA - Instituto de Investigaciones Agropecuarias - Chile.
- DIEAF - Dirección de Invest. y Extensión Agric. y Forestal- Paraguay.
- CIAAB - Centro Invest. Agrícolas Alberto Boerger - Uruguay.

The implementation of the program started in 1980, with emphasis in the cooperation of corn, wheat, soybeans and beefcattle. Starting in 1984, a second stage of PROCISUR, called IICA/BID/PROCISUR, was implemented. In this new stage the training activities of the reciprocal cooperation were emphasized, with the addition of winter cereals, summer cereals, oilseeds and cattle in general. The main instruments of support to the program are:

- Production Systems
- Information and Documentation
- Technology Transfer
- Training (capacitation)
- Communication
- Administration.

* Professor, Economic Growth Center, Yale University - New Haven-CT.

** Economist, Planning Dept. - EMBRAPA - Brasilia- DF.

The authors wish to express their gratitude to the economists of the member countries, which produced the national studies. Their results provided useful information for the preparation of this paper. Aldo Biondolillo and Gabriel Parellada (INTA), Gustavo Ferreira (CIAAB), Claudio Ortiz and Arturo Campos (INIA), Raúl Ferrari (DIEAF) and Antonio Flavio Dias Ávila (EMBRAPA) were the authors of these studies. In addition, Milton Medeiros coordinated the processing of all PROCISUR data. Edmundo Gastal, the Coordinator of the PROCISUR program, facilitated all the meetings of the group involved.

PROCISUR facilitated a fruitful interchange of experiences and capacituation among the participating countries. The interchange of genetic and other research material was speeded up in amounts never experienced before. This interchange highlighted the importance that a regional level program such as this can have on the participating countries. The impact on greater productivity of the member institutions was recognized by all parties involved.

Of particular importance is the impact of PROCISUR in the smaller countries such as Uruguay, Bolivia and Paraguay. Regional teams by commodity were setup in order to enhance the critical mass of knowledge and the interchange of genetic material among neighboring countries. The direct benefits of this program are many, speeding up the achievement of national research and extension goals, and at the same time enriching the stock of scientific knowledge. Therefore the broader issue of technological development in these smaller countries was put into a higher dimension, with features of integrated actions.

In summary, the PROCISUR program of support to National Agricultural Research Centers (NARC's) in Brazil, Argentina, Chile, Paraguay and Bolivia entails specialized activities designed to enhance international transfer of research findings.

Despite of the fact that PROCISUR's experience and its visible benefits were recognized by all member countries, the directive committee of PROCISUR decided that it would be appropriate the realization of a study to analyze the impact of the program in the participating countries.

Such an evaluation of the program requires that the "enhancement" feature of PROCISUR be built into the evaluation model. This requires some degree of methodological extension to existing methods. In this paper we develop such an extension and apply it to an evaluation of the PROCISUR program as it affects productivity change in wheat, maize, and soybean production in the member countries since the inception of the program in 1978.

We organize the paper as follows. Section II summarizes PROCISUR activities and provides examples of PROCISUR involvement in some countries. Section III presents the basic methodology used in the national studies and develops the methodological extensions required for data analysis and estimates of program impacts in the framework of the international study. Section IV reports a summary of the results of the national studies. Section V covers our estimates of PROCISUR impacts. The final section draws policy conclusions. The appendices enclose the national studies of each individual participating country.

II - PROCISUR ACTIVITIES AND SOME EXAMPLES OF ITS ACTIONS.

Most PROCISUR activities can be associated with a receiving and a sending country. They can further be classified according to whether they are oriented to wheat, maize, soybeans or to general support activities.

The following describes the distinction between sending and receiving countries or regions:

1. Support for observation travel from country A to country B. A is the receiving country, B the sending country.

2. Support for participation in congresses and seminars by scientists from country A but hosted by country B. A is the receiving country. All countries are sending countries if it is an international seminar. B is the sending country if it is a national seminar.

3. Support for administrative and technical assistance by scientists from country A in country B. A is the sending country, B the receiving country.

4. Support for administrative and technical assistance and support by scientists from non-member countries and international centers in country A. A is the receiving country.

5. Support for post graduate courses by researchers from country A in country B or a non-member country. A is the receiving country.

6. Support for scientific consultants from country A to work in country B. Country B is the receiving country.

7. Support for scientific consultants from non-member countries to work in country A. Country A is the receiving country.

8. Support for scientific consultants from International Agricultural Research Centers to work in country A. A is the receiving country.

9. Support for attendance and participation in technical meetings held in country A. Country B is the receiving country.

10. Support for attendance in technical courses in country A by researchers from country B. B is the receiving country.

For each of these 10 categories, data on PROCISUR support (in U.S. dollars) was obtained for the years 1980 to 1988.

Some examples will be useful to illustrate the PROCISUR program. In terms of corn, the breeding component of PROCISUR involved a joint program with the neighboring countries. The program was successful in the release of several genetic materials; including "Comuesto Cono Sur I", from grains of the "flint" class, of high quality (orange colouring). This composite grain was obtained from a recombination of eight germplasms coming from Brazil, Uruguay, Paraguay, Bolivia, Chile (one of each, making five), plus three from Argentina. A convergent-divergent selection method was applied in southern Brazil, Uruguay, Paraguay and Argentina to speed up its adoption among local farmers.

In terms of wheat, a typical example of a PROCISUR contribution to the wheat program is in Brazil. The south cone yield trials (ERCOS), takes place in several locations of the member countries, and the chilean variety Onde INIA had the highest yields (6.1 tons/ha) in a trial performed in Brasilia-DF. With some local adaptations, this variety may soon be recommended for the whole central Brazil.

In terms of soybeans, Brazil is actively engaged in helping the argentinian, paraguayan and bolivian soybean programs, via PROCISUR. Emphasis is given on the brazilian integrated pest management control system, and on brazilian germplasm. The variety CARCARANA INTA (Argentina), for example, had brazilian origin. The variety DOKO, from Brazil, is among the most used in the bolivian agriculture. Paraguay soybeans technology was brought from Brazil, and most of the local producers are brazilians.

Yields of maize, wheat and soybeans display an upward trend in all regions analyzed. The individual country studies show graphs of these yields. Notice the case of Brazil, Chile, Argentina and Uruguay, where yields increased at a higher rate in the 80's. The studies of Bolivia and Paraguay also show significant yield increases in the 80's. By approximating the research stocks of these countries, PROCISUR can be seen as a useful program to enhance productivity.

III - METHODOLOGY

III.1 - Methodology of the national studies.

With some variations, the national studies used a methodology designed to measure the effects on yields (expressed as an index) of corn, wheat and soybeans, from the observations of national research stock, PROCISUR stock, extension, weather variables, and in some cases, of policy variables.

The names of the individual variables used in the basic data sets are:

Y_{ijt} - Productivity index for each region (country) i , for each crop j , in each year t . The base period was 66-68.

X_{ijt} - Yields for each region (country) i , for each crop j , for each year t ($t=1966-1987$), in kg/ha.

Z_{ijt} - Research stock for each region (country) i , for each crop j , for each year t in 1000 US\$ Dollars. A research stock is defined as the weighted sum of past research expenditures, with t having zero weight, $t-1 = 0.2$, $t-2 = 0.4$, $t-3 = 0.6$, $t-4 = 0.8$, and $t-5$ backwards = unity.

E_{ijt} - Extension intensity for each region (country) i , for each crop j , for each year t . Extension was computed as a weighted sum of past number of extension agents, with weights defined as $t=0.5$, $t-1 = 1.0$, $t-2 = 1.0$, and $t-3 = 0.5$, divided by the acreage (in hectares) of harvested area (averaged over the whole period).

P_{ijt} - Research stock of Procisur expenditures, from country A to B, in 1000 US\$ Dollars.

The model utilized to estimate the variables, took the form of Zellner's SUR - Seemingly Unrelated Regression, with three equations, one for each crop. No cross-simmetry restrictions were imposed in these first versions of the model.

The model can then be written as:

$$Y_{ijt} = f(Z_{ijt}, E_{ijt}, P_{ijt})$$

Some interactions between the research stock terms were also attempted in some of the countries, as shown in the individual studies.

Brazil was split into three regions: São Paulo, Paraná and Santa Catarina. Argentina was split into four regions: La Pampa, Buenos Aires, Córdoba and Santa Fe.

Paraguay, Bolivia, Uruguay and Chile had only one region (the whole

country).

Uruguay used a different methodological approach to measure the research impact on productivity. A duality model was used, and the dependent variable was an aggregate index for the whole agricultural sector (for annual crops).

This aggregate index was specified as the dependent variable of an output supply function, with explanatory variables being Z1-land, Z2-research stock, Z3-PROCISUR expenditures and Z4-square of land. The input demand functions, to be estimated under the duality model, were X1 (fertilizer levels), X2 (machinery) and X3 (labor use). The estimation used Zellner's seemingly unrelated regression approach, under the specification of the Generalized Leontieff model, with four equations:

- Equation 1 - Aggregate output supply - (Y).
- Equation 2 - Fertilizer Input Demand - (-X1).
- Equation 3 - Machinery Input Demand - (-X2).
- Equation 4 - Labor Input Demand - (-X3).

The major objective of these national studies was to investigate whether or not the national research and extension programs were important to the yields of each crop. The role of PROCISUR as such was dependent on the net effects of the program. This can be dealt with only in the international study.

III -2 -METHODOLOGY OF THE INTERNATIONAL STUDY.

Productivity decomposition methods have been used in a number of national studies (e.g. da Cruz, Evenson (1980) for Brazil).

These methods require the creation of a research variable(s) that consider the timing relationship between research spending and its ultimate productivity impact. They also must consider the spatial relationship between the location of the region where productivity is measured (e.g., a state or province) and the location and orientation of the research program. For some regions there may be an experiment station located in the region and this station may have as its chief responsibility the development of improved technology for the region. For some regions, a station may not be located in the region, but one may be located in a nearby or similar region (from a geo-climatic perspective). It is expected that technology produced outside the region will "spill-in" to the region.

The spill-in of technology is relevant to regions even where a local research program exists. It is also relevant when the receiving region is in a different country from the origin region. Indeed it is this spill-in that the PROCISUR program seeks to facilitate.

Spill-in of technology can be considered to be of three basic types:

Direct - as when the technology originating in region A is directly adapted in region B.

Semi-direct - as when the technology originating in region A is modified or adapted by the research programs in region B to be better suited to the conditions in B.

Indirect (or Germplasmic) as when the research and technical discoveries originating in region A enhance and stimulate the technological research undertaken in region B. This can be thought of as "germplasm" spill-in when the term germplasm is broadly defined to include biological, mechanical and intellectual materials that serve as parents to the further development of materials.

The PROCISUR program does not support the development of the original technology or germplasm but is designed to facilitate and enhance more international spill-in, chiefly of the indirect type.

Thus if we are to measure its impact we require international data and we require an interaction specification to test for a PROCISUR impact. We have the further econometric problem that the PROCISUR activities might be responsive to productivity changes and thus be endogenous in the model. Simultaneous equations estimates will be required to deal with this problem. Finally, we also have to deal with the fact that geo-climate factors affect spill-in (and spill-out) and these must be taken into account.

Table 1 provides a summary of variables used in this study. The original variables are defined from various sources for each of the 14 states, 20 years and 3 commodities. Variables are also created for each state, year and commodity, but they utilize geo-climate weights and PROCISUR investments as well as data from other states or regions.

The key dependent variable is the yield index for the crop. It is considered the measure of productivity change. Ideally, of course, we would like to have a total factor productivity measure but this is not feasible. By indexing it on the first 5 years in each state we are eliminating differences in levels of yields for that period between our observations. Yield levels may differ for many reasons including soil quality and we do not wish to attribute these to research of PROCISUR variables.

TABLE 1 - VARIABLES USED IN PROCISUR ANALYSIS.

I - ORIGINAL VARIABLES: 14 states: 1966-87: wheat, maize, soybeans.

LIYIELD: LOG OF STATE YIELD INDEX.

This variable is created for each commodity and state, by dividing crop yields per hectare in period t by average crop yields for the 1966-70 period.

LCRESEXP: LOG OF STATE RESEARCH.

This variable is constructed as the cumulated sum of research expenditures (in constant U.S. dollars), directed to the commodity since 1980 (lag weights of 0, 0.2, 0.4, 0.6, 0.8, 1.0, 1.0 etc. are used).

. LEXTA: LAG OF STATE EXTENSION. This is defined as field extension staff (for all crops) per hectare of cultivated land (.25, .50, .25, 0.0, 0.0, --).

LRESEX: LOG OF STATE RESEARCH MULTIPLIED BY STATE EXTENSION

NOTATION: LCRESF*EXTEN1.

LSFNR: LOG OF STATE RESEARCH + NEIGHBOR RESEARCH.

GOOD, POOR, BAD: Dummy variables for exceptionally good, poor or exceptionally bad weather.

BRMT, etc: dummy variables for states.

This includes six states in Brazil (Rio Grande do Sul:RS, Mato Grosso:MT, Minas Gerais:MG, Sao Paulo:SP, Parana:PR, Santa Catarina:SC)

Four states in Argentina (SANTAFE, CORDOBA, BUENOS AIRES, LA PAMPA) and Chile, Uruguay, Paraguay and Bolivia.

CREATED VARIABLES (INTERNATIONAL STUDY):

The key variables in this study are the variables measuring research by geo-climatic neighbors.

LRNGH1 = LOG OF NEIGHBOR RESEARCH:

This variable is defined as:

LN $\sum_j G_{ij} & R_j$ where $j \neq i$.

The index j is defined for states. G_{ij} is the "geo-climate impediment"

weight measuring the loss in region i associated with using technology that is optimal in region j .

Table 2 Estimated Yield Trends

<u>State</u>	<u>Maize</u>	<u>Wheat</u>	<u>Soy</u>
Argentina			
Buenos Aires	.0186	.0209	.0344
Cordoba	.0361	.0263	.0520
LaPampa	.0710	.0285	
Santa Fe	.0247	.0283	.0340
Bolivia	.0090	.0039	.0165
Brazil			
Minas Gerais	.0232	.0237	.0508
Mato Grosso	.0164	.0092	.0128
Parana	.0171	.0076	.0209
Rio Grande do Sul	.0164	.0139	.0128
Santa Catarina	.0144	.0190	.0095
Sao Paulo	.0220	.0172	.0197
Chile		.0171	
Paraguay	.0180	.0193	.0032
Uruguay		.0230	.0674

This weight is estimated as follows:

First subjective weights were defined for the regions 1.9, 2.1, 1.7, 3.8, 3.9, 5.7, 5.1, 4.1, 4.3, 4.4, 6.1 and 6.8, the regions of the PROCISUR project, as shown in map 1. These were then computed to interstate regional weights by fractional procedures. Then in the estimation (see below) interaction on was carried out for $\alpha = 1, 2, 3$ to determine appropriate weights.

B1.LPRNGH1 : LOG OF NEIGHBOR RESEARCH:PROCISUR

This variable is defined as:

- $\ln \left(\frac{G_{ij}}{\sum G_{ij}} \cdot R_{ij} \cdot PR_{ij} \right)$ for $i \neq j$.

PR_{ij} is the cumulated expenditure by PROCISUR on activities where i is the receiving or benefitting region and j is the origin or sending region.

This is the key variable of the study. It measures the indirect PROCISUR impact on the relative value of spill-in research. The PR_{ij} variable is presumed to be the same for each of the states in Brazil and Argentina.

The estimation procedure requires a simultaneous equations method because we cannot presume that the variable B1.LPRNGH1 is exogenous, i.e., unaffected by productivity in the sending and receiving regions. The demand for PROCISUR estimates will be higher from the strong research programs. We utilize as an identifying variable:

LNYIELDA = LOG OF NEIGHBOR YIELD.

YEAR is also used to identify this variable.

Table 2 reports a summary of estimated changes in this yield index. It is the coefficient b in the regression:

LNYIELDA = $a + b$ YEAR + c GOOD + d POOR.

IV - SUMMARY OF THE RESULTS OF THE NATIONAL STUDIES.

BRAZIL.

SUMMARY OF THE RESULTS FOR CORN.

Only an international study can be able to pick-up the relevant NET impacts of the PROCISUR program. However the brazilian national study was important to show the relevance of the domestic research efforts, which are being benefited from the FPROCISUR program.

Three equations were estimated for Brazil, using Zellner's Seemingly Unrelated Regression - SUR:

- Y1 - Productivity index for S.Paulo
- Y2 - Productivity index for Parana
- Y3 - Productivity index for Rio Grande do Sul.

In all equations, the local research stock was highly significant. The smallest t value was 3.7 (see the national study- appendix 1- for details). The elasticity of the research stock of S.Paulo on the corn productivity index in that state was 0.76. This result fully captures the yield increases that are happening in Sao Paulo over the last ten years. Significant elasticities were also found for the case of Parana and Rio Grande do Sul, in terms of research stock for the southern region. The figures are 0.4 and 0.21 respectively. The interaction of FPROCISUR stock (from Argentina to Brazil) and the research stock in the south, produced elasticities of 0.1 for S. Paulo and Parana. This results suggests that part of yield increases in both states may be due to the FPROCISUR program.

RESULTS FOR WHEAT:

Wheat in Brazil is a success story of research efforts. The elasticities of local research stock in all three states were highly significant (the minimum t value was 3.2). For S.Paulo, the elasticity is 0.21 for Parana it is 0.29, and for Rio Grande do Sul it is 0.43.

RESULTS FOR SOYBEANS:

Soybean productivity equations had significant values of the own region research stocks. The minimum t value was 2.01, as the national study shows. The corresponding elasticites were 0.36 for S.Paulo research, 0.46 for Parana and 0.65 for Rio Grande do Sul.

ARGENTINA

RESULTS FOR CORN:

Four equations were estimated using Zellner's seemingly unrelated regression approach. An yield productivity index was constructed for four provinces: Santa Fe, Córdoba, La Pampa, and Buenos Aires. The novelty about the argentinian study is the introduction of economic policy and financial variables, including the exchange rate gap between the black market of the dollar and the official rate. This variable was important in explaining yield indices, as farmers may use more or less technological levels on the crops, depending on the expected foreign exchange earnings (which is of a highly speculative nature, hence the importance of the gap).

The regression coefficients show a significant statistic for the corn research in the province of Córdoba on the other regions. Extension in each province was also found to be significant. Another important result is the significant estimate of the interaction of the PROCISUR and local research, for the case of corn.

RESULTS FOR WHEAT:

The province with best estimates of its research stock was Santa Fe. The exchange rate gap is also highly significant in explaining yields. PROCISUR investments in wheat were statistically significant for the pampean region.

RESULTS FOR SOYBEANS:

The provinces of Santa Fe, Córdoba and Buenos Aires had all significant estimates of their own research stock in the case of soybeans. In fact, the soybean equation brought the best results for the argentinian study. The country study has the necessary details.

URUGUAY

In terms of output supply, the most significant variable is research stock (Z2), with a t-value of 7.56 and PROCISUR expenditures 4.32. The impact of the research variable on productivity is the result of the joint effort of the national agricultural center (CIAAB), PROCISUR and international research centers like ISNAR and CIMMYT, on the annual crops of Uruguay.

In terms of fertilizer demand all 2 variables are significant. More land increases fertilizer demand (negative Z1 coefficient) at a decreasing rate (positive Z4 coefficient). Furthermore, an increase in research stock increases the demand for fertilizer.

In terms of machinery demand (equation 3) all Z variables are also significant. More machinery reduces the demand for land (positive Z1 coefficient) at a decreasing rate. Increases in the research stock have a highly significant positive impact on machinery use. It is an indication that the modernization of the Uruguayan agriculture is dependent on the intensification of machinery use, as it is the case of advanced economies under competitive markets.

Finally, in terms of labor demand (the last equation), again all Z variables are significant.

Prices have a strong effect in the output decisions of Uruguayan farmers. A ten percent increase in output prices will result in a 2.62 percent increase in output supply, for example. A ten percent increase in fertilizer price will decrease 2.69 percent output supply, and so on.

Of particular interest in the present analysis, is the impact of the research variables, Z2 and Z3.

A ten percent increase in the research stock will result in a 6.27 and 0.9 percent increase in output supply each year. It also causes the employment of labor per farm to increase 2.62 and 0.8 percent, and fertilizer use to increase 3.98 and 0.8 percent. The biggest impact is on machinery use, which would increase 6.34 and 1.8 percent as a result of a 10% increase in the research stock. These effects are all estimated holding prices and other Z variables constant.

As Evenson (1982) argues, the research effects can be thought as shifters. The weighted effect of research on all input use is a weighted average of all input use. A ten percent increase in the research stock will result in an increase of input use by 3.45 % (this is a weighted average of the elasticities of fertilizer, machinery and labor demand with respect to Z2, with per farm expenditure shares as weights). Using Evenson's (1982) approach, we have an estimate that a research investment program that increases the research stock variable by 10%, will cause an increase in output of 6.27% and in inputs of 3.45%, creating a net output per unit input of 2.783%. This is a measure of total factor productivity gain produced by a technology shift. A figure of 2.783% is very high for international standards. In the case of Brazil, Evenson (1982) computed a total factor productivity gain of 0.507%.

This total factor productivity elasticity can now be converted into a marginal product of research expenditure, so that the internal rate of return can be computed. The marginal product of a research expenditure of 1000 new pesos in 1965, using Evenson's (1982) approach, is:

We have an estimate that an increment to research expenditure in 1980 of 1000 new pesos would produce an increment to agricultural product of 12545 new pesos in 1985. The increment to output will continue indefinitely, as we are dealing with a research PROGRAM, not with a single technology, so that we can regard the expenditure of 1000 new pesos as an investment yielding an income stream of 12545 new pesos beginning in the fifth year after spending, and continuing into perpetuity. The resulting internal rates of return on this investment, for CIAAB and PROCISUR, are 92.10 and 109.5%, very high figures for international standards.

This is an important analysis for PROCISUR investments in Uruguay, given that the PROCISUR Program started only in 1980. The t ratio of the Z2 variable is 6.27 for CIAAB and 4.32 for PROCISUR, thus, the significance of the research variable was reinforced.

BOLIVIA

The Bolivian study utilized Ordinary Least Squares for estimation of the coefficients.

For wheat, results indicate that the interaction of Brazil/Bolivia research stocks was significant (t value of 2.38), and positive, with an elasticity estimate of .012338.

For soybeans the results of one of the equations show that the bolivian research stock was significant, (t value of 2.08) and an elasticity estimate of .276.

Finally, for corn, the results were again satisfactory. The interaction of the research stock Bolivia/ EMBRAPA was significant with a t value of 3.37 and an elasticity estimate of .544. Overall, these results suggest the importance of EMBRAPA's research on the bolivian agriculture, facilitated by PROCISUR. PROCISUR interaction with local research stock is also positive in some of the results.

PARAGUAY

In terms of wheat.. the results were also satisfactory. Extension was significant at ten per cent (t value of 1.61) and and elasticity estimate of 0.137. PROCISUR was also important with a t value of 2.67, and an elasticity estimate of 0.001

For corn, results suggest impacts of the research stock in Buenos Aires and the interaction of PROCISUR/FAFAGUAY.

Finally, for soybeans, some especial characteristics prevail in the area. Most of paraguayan soybeans is produced by brazilian farmers. A especial model may be required to handle this pattern, which involve cultural and other variables, independent of the paraguayan research and extension.

CHILE

For the case of Chile, wheat was selected as a candidate to measure PROCISUR effects.

Chile is the country which best illustrates the effects of FROCISUR. In the model, a NET effect could be measured. The interaction of INIA stock and PROCISUR stock provided an elasticity estimate of 0.0956, and the stock of Buenos Aires research on wheat provided an elasticity estimate of 0.0845. Both have a total positive impact of 0.1801. Because INIA research and Buenos Aires research are substitutes, their interaction provided an estimate of -0.0713, which has to be subtracted from the positive impact. Thus the net effect of PROCISUR in Chile is 0.1088. This elasticity estimate indicated that a ten percent increase in PROCISUR stock will have a one percent impact on Chilean productivity. Due to lack of data on other international cooperation programs, some variables (like CIMMYT) investment were omitted. Part of the FROCISUR effect may be attributable to omitted variables.

V - RESULTS OF THE INTERNATIONAL STUDY.

A. Estimation of Weights - WTS.

Table 3 reports R^2 values for the first equation and for the system for alternative values of α . These parameters are the weights.

Table 3 - α PARAMETERS.

	<u>MAIZE</u>		<u>WHEAT</u>		<u>SOY</u>	
	$R^2(1)$	$R^2(2)$	$R^2(1)$	$R^2(2)$	$R^2(1)$	$R^2(2)$
$\alpha = 1$	.5987	.7374	.7215	.6910	.7438	.7098
$\alpha = 2$	.5015	.7238	.7012	.6922	.7429	.7202
$\alpha = 3$	.4377	.7044	.6735	.6878	.7351	.7177

These results show that $\alpha = 1$ is the superior weight estimate in all 3 crops.

B. ESTIMATION OF THE SYSTEM AND RESULTS.

Table 4 shows three stage least squares (3SLS) estimates for the 3 commodities. Our major concern is with the first equation. 4A shows estimates for maize, 4B for wheat and 4C for soybeans.

TABLE 4-A WHEAT ESTIMATES

"DEL: D1	SSE	5.418985	F RATIO	33.82
DEP VAR: LYIELD	DFE	285	APPROX FR>F	0.0001
	MSE	0.019014	R-SQUARE	0.7230
	OBJ	5.161540		

COND STAGE STATISTICS

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	APPROX PROB>|T|	VARIABLE LABEL
INTERCEPT	1	-1.697238	0.353086	-4.7786	0.0001	
INT	1	0.066769	0.064940	1.0298	0.3040	
MS	1	0.185186	0.058316	3.1755	0.0017	
BRSP	1	0.193409	0.054286	3.5628	0.0004	
PQPR	1	-0.113290	0.043195	-2.6227	0.0092	
ISC	-1	0.205438	0.052659	3.9013	0.0001	
SHNTAFE	1	0.882602	0.152266	5.7965	0.0001	
CORDOBA	1	0.800717	0.165318	4.8435	0.0001	
JENOS	1	0.636489	0.155774	4.0860	0.0001	
APAMPA	1	0.765424	0.156944	4.8770	0.0001	
URUGUAY	1	-0.170906	0.097748	-1.7484	0.0815	
DRAJUAY	1	0.752567	0.230404	3.2635	0.0012	
OLIVIA	1	0.189973	0.053521	3.5495	0.0005	
CHILE	1	0.770951	0.232005	3.3230	0.0010	
LCRESEXP	1	0.005068784	0.00319775	1.5901	0.1129	
NGHI	1	0.061160	0.013214	4.6284	0.0001	LOG OF NEIGH RES
1.LPRNGHI	1	0.005107843	0.002213921	2.3071	0.0213	LOG OF NEIGH RES*PROCISUR
LSRNR	1	1.63273E-11	6.90371E-11	0.2365	0.8132	LOG OF STATE RES*NEIGH RES
RESEX	1	-0.000682703	0.001484122	-0.4600	0.6459	LOG OF STATE RES*NEW STATE EXT
EXTA	1	-0.084573	0.025799	-3.2529	0.0013	LOG OF 4 YEAR AVE. STATE EXTENSION
CGD	1	0.211680	0.049844	4.3338	0.0001	
PQDR	1	-0.211798	0.021790	-9.7196	0.0001	
AO	1	-0.626204	0.048639	-12.6748	0.0001	

TABLE 4-A - Cont.d

MODEL: D2 SSE 14808.7 F RATIO 35.26
 DFE 291 PROB>F 0.0001
 L.P. VAR: LPRNGH1 MSE 50.889004 R-SQUARE 0.6597

LOG OF NEIGH RES+PROCISUR

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB>|T|	VARIABLE LABEL
TERCEPT	1	-2330.52	323.278024	-7.2090	0.0001	
AT	1	-4.252225	2.296719	-1.8514	0.0551	
BRNG	1	0.402382	2.157248	0.1865	0.8522	
DDSP	1	0.376615	2.153117	0.1749	0.8613	
PR	1	0.563582	2.156096	0.2614	0.7940	
MRSC	1	-0.154605	2.151193	-0.0719	0.9428	
SANITAE	1	0.594935	2.169618	0.2327	0.8161	
RDOBA	1	0.938727	2.150928	0.4364	0.6628	
ENOS	1	0.483954	2.154697	0.2246	0.6224	
LAPAMPA	1	-4.574698	2.398121	-1.9077	0.0574	
UGUAY	1	-1.365270	2.176989	-0.6271	0.5311	
IRASUAY	1	1.629336	2.167647	0.7517	0.4529	
BULIVIA	1	1.754310	2.168110	0.8091	0.4191	
CHILE	1	-0.188442	2.272907	-0.0829	0.9340	
ITRESA	1	-0.579470	0.162813	-3.5551	0.0004	LOG OF 4 YEAR AVE. STATE RESEARCH
IYIELDA	1	21.240264	5.061163	4.1967	0.0001	LOG OF 4 YEAR AVE. NEIGH YIELD
YEAR	1	1.186782	0.164061	7.2339	0.0001	

TABLE 4-B - MAIZE ESTIMATES

DEL: DI	SSE	6.588099	F RATIO	24.15
DEP VAR: LYIELD	DFE	243	APPROX PR>F	0.0001
	MSE	0.027112	R-SQUARE	0.6653
	OBJ	5.069070		

SECOND STAGE STATISTICS

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERRCR	T RATIO	APPROX PROB>|T|	VARIABLE LABEL
INTERCEPT	1	-1.555614	0.376604	-4.1306	0.0001	
MT	1	0.109806	0.055924	1.9635	0.0507	
MG	1	0.114020	0.069366	1.6437	0.1915	
BRSP	1	0.145039	0.064339	2.2543	0.0251	
PR	1	0.018054	0.051522	0.3504	0.7263	
SC	1	0.122416	0.061964	1.9756	0.0493	
SANTAFE	1	0.551767	0.181293	3.0435	0.0026	
CORDOBA	1	0.583012	0.192496	3.0287	0.0027	
JENOS	1	0.535715	0.180984	2.9600	0.0034	
IPAMPA	1	0.944884	0.196380	5.0697	0.0001	
PARAGUAY	1	0.610892	0.268233	2.2775	0.0236	
OLIVIA	1	-0.053948	0.062314	-0.8657	0.3875	
RESEXP	1	0.011130	0.003786348	2.9396	0.0036	
LNSHII	1	0.061788	0.013820	4.4769	0.0001	LOG OF NEIGH RES
RLFRNGLI	1	0.013387	0.00335048	3.9955	0.0001	LOG OF NEIGH RES*PROCISUR
RESEX	1	0.0009038473	0.001680717	0.4806	0.6312	LOG OF STATE RES*NEW STATE EXT
SRHR	1	-4.02504E-10	1.52298E-10	-2.6429	0.0088	LOG OF STATE RES*NEIGH RES
LEXTA	1	-0.071193	0.029963	-2.3760	0.0183	LOG OF 4 YEAR AVE. STATE EXTENSION
JD	1	0.086905	0.055111	1.3347	0.1832	
JDR	1	-0.142996	0.025848	-5.3260	0.0001	
BAD	1	-0.305896	0.047648	-6.4200	0.0001	

TABLE 4 -B - Cont.d

MODEL: D2
 SSE 11177.44 F RATIO 35.72
 DFE 249 PROB>F 0.0001
 EP VAR: LPRNGH1 MSE 44.889321 R-SQUARE 0.6676
 LOG OF NEIGH RES=PROCISUR

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB>|T|	VARIABLE LABEL
INTERCEPT	1	-2557.17	392.906831	-6.5083	0.0001	
INT	1	-4.369868	2.220522	-1.9675	0.0502	
BRMG	1	-0.464988	2.032891	-0.2287	0.8193	
BRSP	1	0.136795	2.022263	0.0676	0.9461	
IPR	1	0.279323	2.025055	0.1379	0.8904	
ISC	1	0.042325	2.020176	0.0210	0.9833	
SANTAFE	1	-3.693571	2.067634	-1.7864	0.0753	
CORDOBA	1	-2.878628	2.025996	-1.4208	0.1566	
ENOS	1	-3.362474	2.042107	-1.6466	0.1009	
LAFAMPA	1	-7.478934	2.319643	-3.2242	0.0014	
PARAGUAY	1	-0.502887	2.029464	-0.2476	0.8045	
ILIVIA	1	0.358817	2.022703	0.1774	0.8593	
TRESA	1	-0.624067	0.164804	-3.7857	0.0002	
LYIELDAD	1	17.251910	6.599347	2.6142	0.0095	LOG OF 4 YEAR AVE. STATE RESEARCH
YAR	1	1.301974	0.199443	6.5299	0.0001	LOG OF 4 YEAR AVE. NEIGH YIELD

TABLE 4 - C - SOYBEANS ESTIMATES

MODEL:	D1	SSE	4.892131	F RATIO	29.41
		DFE	211	APPROX PR>F	0.0001
END VAR:	LIVIELD	MSE	0.023185	R-SQUARE	0.7360
		OBJ	3.680640		

SECOND STAGE STATISTICS

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	APPROX PROB>|T|	VARIABLE LABEL
INTERCEPT	1	-1.382163	0.424459	-3.2563	0.0013	
BRMT	1	-0.377635	0.076819	-4.9159	0.0001	
BRNG	1	0.269072	0.075701	3.5544	0.0005	
SP	1	-0.015737	0.069175	-0.2275	0.8203	
PR	1	0.062937	0.048825	1.2890	0.1938	
ERSC	1	-0.128030	0.066416	-1.9277	0.0552	
CANTAFE	1	0.285174	0.228099	1.2502	0.2126	
RDOBA	1	0.257787	0.237072	1.0874	0.2781	
BUENOS	1	0.213653	0.223563	0.9557	0.3403	
URUSUAY	1	-0.430102	0.153316	-2.8053	0.0055	
RAGUAY	1	0.286110	0.325310	0.8755	0.3301	
LIVIA	1	-0.00382379	0.067744	-0.0564	0.9559	
LCRESEXP	1	-0.00202008	0.004030247	-0.5012	0.6167	
LOGNGHI	1	0.090445	0.014291	6.3290	0.0001	LOG OF NEIGH RES
LOGPRNSHI	1	0.009354513	0.002925564	3.4876	0.0005	LOG OF NEIGH RES+PROCISUR
LSRNR	1	-2.52806E-10	9.93634E-11	-2.5437	0.0117	LOG OF STATE RES+NEIGH RES
LRESEX	1	-0.0066175	0.001907655	-3.4599	0.0006	LOG OF STATE RES+NEW STATE EXT
EXTA	1	-0.030516	0.037893	-0.8055	0.4214	LOG OF 4 YEAR AVE. STATE EXTENSION
POD	1	0.201270	0.057021	3.5297	0.0005	
POOR	1	-0.183855	0.028090	-6.5451	0.0001	
^10	1	-0.384043	0.041014	-9.3638	0.0001	

TABLE 4 C - Cont.d

MODEL: D2
 DEP VAR: LPRNGHI
 LOG OF NEIGH RES=PROCISUR

	SSE	11326.65	F RATIO	29.31
	DFE	217	PROB>F	0.0001
	MSE	52.196554	R-SQUARE	0.6541

VARIABLE	DF	PARAMETER ESTIMATE	STANDARD ERROR	T RATIO	PROB>|T|	VARIABLE LABEL
TERCEPT	1	-2565.36	392.117521	-6.5423	0.0001	
BRMT	1	-0.906031	2.942273	-0.3079	0.7584	
BRM6	1	0.465022	2.182172	0.2131	0.8314	
ISP	1	0.840519	2.187596	0.3842	0.7012	
PR	1	0.402912	2.184165	0.1845	0.8538	
BRSC	1	0.036961	2.178366	0.0170	0.9965	
INTAFE	1	-1.035446	2.229813	-0.4544	0.6429	
IRDOBA	1	0.486812	2.399149	0.2029	0.8394	
BUENOS	1	0.529708	2.211068	0.2396	0.8169	
URUGUAY	1	-1.930186	2.926850	-0.6595	0.5103	
IRASUAY	1	2.571068	2.217626	1.1594	0.2476	
OLIVIA	1	2.848053	2.217665	1.2843	0.2004	
LSTRESA	1	-1.050151	0.240209	-4.3720	0.0001	LOG OF 4 YEAR AVE. STATE RESEARCH
IVIELDAD	1	20.517550	6.515792	3.1489	0.0019	LOG OF 4 YEAR AVE. NEIGH YIELD
EAR	1	1.308378	0.198716	6.5842	0.0001	

Our chief concern is with the PROCISUR variable. $B_1 \cdot LPRNGH1$ and its impact on productivity. Note the estimated "impact elasticity" for the neighbor's research is the coefficient for $LNGH1$ plus the coefficient for $B_1 \cdot LPRNGH1$ times the mean level of the PROCISUR variable. This is a measure of the net effect of PROCISUR in each state.

The dummy variables for regions in table 4 serve as a type of time trend variable in the first equation since the dependent variable is defined to be equal to one for the first period in each state. Thus year was not included in the first equation (experiments show that its inclusion affected maize but not wheat or soybeans).

The results of the national studies indicate that state research contributes to state productivity in all crops under study.

The international study shows that neighbor's research contributes in all three crops. PROCISUR approximates neighbor's research stock.

The PROCISUR Program enhances the impact of neighbor's research in all three crops. The average elasticities for the PROCISUR region as a whole are as follows:

	WHEAT	MAIZE	SOYBEANS
LRNGH1	.061	.062	.090
$B_1 \cdot LPRNGH1$	.005	.013	.009
TOTAL	.066	.075	.099

All the above elasticities are significant (t ratios above 2.0), as shown in tables 4A, 4B and 4C.

VI - POLICY RECOMMENDATIONS.

Given the fact that the above elasticity estimates are averages of the aggregate PROCISUR region, in order to compute the PROCISUR impact for each region, one has to multiply the total elasticities by the mean level of PROCISUR stock in each region. These elasticities are quite high, given the relatively small levels of PROCISUR expenditures. In order to illustrate this point, a ten percent increase in PROCISUR stock will result in yield increases of 0.99 percent (almost one percent) for soybeans yields. This suggests a very high productivity of PROCISUR, given the indirect effect of the interaction of the research stocks of the neighboring regions.

It is important to emphasize the nature of these effects. Of the three spillover effects mentioned in this paper (direct, semi-direct and indirect), we are essentially covering here the indirect effect, which approximates research stocks. This effect is more durable, of a cumulative nature.

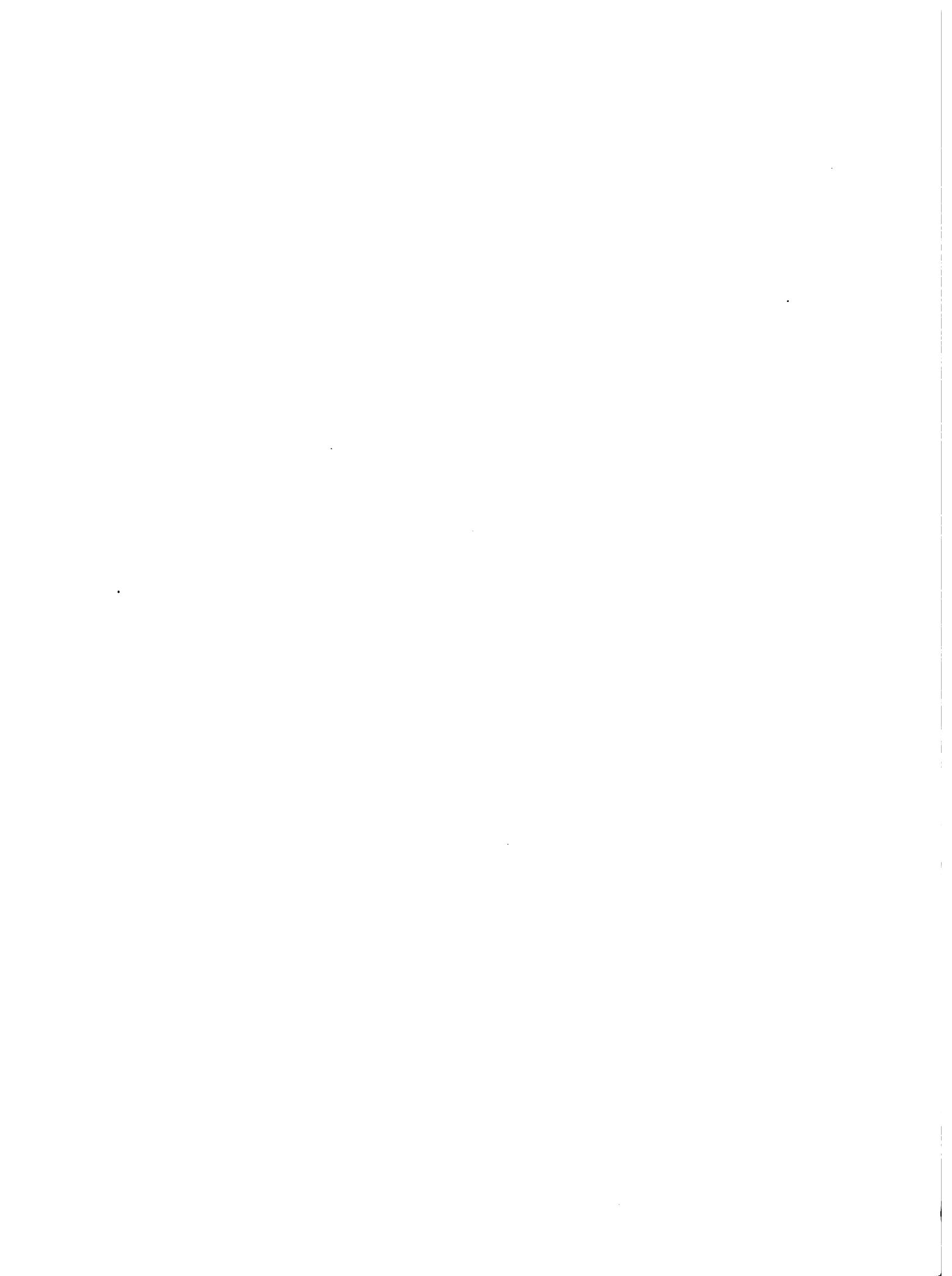
These results are not final. Tests for serial correlation and related matters have not been undertaken. Nevertheless they appear to indicate that the PROCISUR program has had an impact. Given the low level of expenditures in the PROCISUR, virtually any measurable impact would yield a high rate of return. One limitation of the model is that international cooperation other than PROCISUR has been omitted. It is possible, for example, that some of PROCISUR estimates are biased upwards due to the omission of CIMMYT or CIAT investments. We recommend further studies to incorporate explicitly the major sources of interactions between international agencies and local research stocks. For example there may exist interactions between PROCISUR, PROCIANDINO and other IICA cooperation programs.

In general, multilateral cooperation programs such as PROCISUR tend to be more fruitful than bilateral programs. We are working on an extension of this work, in order to compare the internal rates of return of PROCISUR Program with IARC's (International Agricultural Research Centers) and national programs. The results so far appear to support the thesis of a high productivity of PROCISUR. In another international study (Evenson, 1988) the productivity elasticity of IARC research in Latin America was 0.0317 for the maize, millets and sorghum program. The figure of 0.075 found above for maize in the PROCISUR Program compares favourably, suggesting an opportunity for more investments in PROCISUR, given its high productivity.

REFERENCES

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- Evenson, R. (1982) - "Observations on Brazilian Agricultural Research and Productivity", Revista de Economia Rural, p. 280-298, 1982.
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APPENDIX
**MEANS OF THE
VARIABLES USED IN THE MODEL.**



10:09 TUESDAY, JUNE 27, 1989 1

MEANS FOR MAIZE BY STATE

VARIABLE

VARIABLE	LABEL	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM
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STATE=BULIVIA

YEAR	1.976500E+03	6.493587E+00	1966.0000	1.987000E+03	1.384437E+00	4.348300E+04	
CRESEXP	22	1.117800E+07	9.936757E+06	0.0000	3.193800E+07	2.118524E+06	2.459160E+08
POOR	22	1.363636E-01	3.512501E-01	0.0000	1.000000E+00	7.488677E-02	3.000000E+00
BAD	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
GOOD	22	4.545455E-02	2.132007E-01	0.0000	1.000000E+00	4.545455E-02	1.000000E+00
RNGH1	22	1.050458E+00	1.542242E-01	0.8374	1.361264E+00	3.288070E-02	2.311007E+01
PRNGH1	22	7.821712E+06	9.563205E+06	234229.1511	3.311341E+07	2.03882E+06	1.720777E+08
LIYIELD	22	2.316062E+10	4.338655E+10	0.0000	1.534255E+11	9.250044E+09	5.095337E+11
BOLIVIA	22	4.596758E-02	8.840216E-02	-0.0500	2.008641E-01	1.884740E-02	1.011287E+00
BRMG	22	1.000000E+00	0.000000E+00	1.0000	1.000000E+00	0.000000E+00	2.000000E+01
BRMT	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
BRPR	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
BRRS	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
BRSC	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
BRSP	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
SANTAFE	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
CORDOBA	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
BUENOS	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
LAPAMPA	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
URUGUAY	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
PARAGUAY	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
CHILE	22	0.000000E+00	0.000000F+00	0.0000	0.000000F+00	0.000000E+00	0.000000E+00
EXTEN	22	7.290909E+01	9.262876E+00	48.0000	8.600000E+01	1.974852E+00	1.604000E+03
WAREA	22	3.566312E+05	0.000000E+00	356631.1818	3.566312E+05	0.000000E+00	7.845886E+06
EXTENA	22	2.044384E-04	2.597326E-05	0.0001	2.411455E-04	5.537518E-06	4.497644E-03
EXTA	22	7.117106E-04	8.386258E-05	0.0005	8.398032E-04	1.797956E-04	1.555762E-02
STRESA	22	9.401727E+06	8.837709E+06	0.0000	2.810550E+07	1.884206E+06	2.068380E+08
NYIELD1	22	1.052805E+00	1.737685E-01	0.7806	1.361649E+00	3.704757E-02	2.316170E+01
LCRESEX	22	1.437446E+01	4.813852E+00	0.0000	1.727931E+01	1.026317E+00	3.162380E+02
LSTRESA	22	1.354371E+01	5.640410E+00	0.0000	1.715148E+01	1.202539E+00	2.979617E+02
LNYIELD1	22	3.861933E-02	1.635980E-01	+0.2477	3.086967E-01	3.487920E-02	8.496252E-01
LRNGH1	22	1.505289E+01	1.446005E+00	12.3641	1.731545E+01	3.082892E-01	3.311636E+02
LPRNGH1	22	8.754079E+00	1.190251E+01	0.0000	2.575648E+01	2.537624E+00	1.925897E+02
LEXTA	22	7.254981E+00	1.248903E-01	-7.6083-7.082343E+00	2.662670E-02	-1.596096E+02	
LRESEX	22	9.534269E-03	4.069885E-03	0.0000	1.440386E-02	8.677023E-04	2.097539E-01
LSRNR	22	1.309359E+08	1.655559E+08	0.0000	5.721768E+08	3.529749E+07	2.880589E+09
LSRNPR	22	3.938857E+11	7.413567E+11	0.0000	2.651087E+12	1.580578E+11	8.665486E+12
LSRRATIO	22	2.2793313E+04	4.300385E+04	0.0000	1.6332702E+05	9.168451E+03	5.014488E+05

LOG OF 4 YEAR AVE. STATE RESEARCH

LOG OF 4 YEAR AVE. NEIGH YIELD	LOG OF NEIGH RES	LOG OF NEIGH RES*PROCISUR	LOG OF 4 YEAR AVE. STATE EXTENSION	LOG OF STATE RES*NEW STATE EXT	LOG OF STATE RES*NEIGH RES	LOG OF STATE RES*NEIGH RES*PROCISUR	LOG OF STATE RES*RATIO
22	3.861933E-02	1.635980E-01	1.446005E+00	1.731545E+01	3.082892E-01	3.311636E+02	
22	1.505289E+01	1.446005E+00	1.190251E+01	1.727931E+01	1.026317E+00	3.16170E+01	
22	8.754079E+00	1.190251E+01	1.248903E-01	1.727931E+01	1.026317E+00	3.162380E+02	
22	7.254981E+00	1.248903E-01	+0.2477	3.086967E-01	3.487920E-02	8.496252E-01	
22	9.534269E-03	4.069885E-03	12.3641	1.731545E+01	3.082892E-01	3.311636E+02	
22	1.309359E+08	1.655559E+08	0.0000	2.575648E+01	2.537624E+00	1.925897E+02	
22	3.938857E+11	7.413567E+11	-7.6083-7.082343E+00	2.662670E-02	-1.596096E+02		
22	2.2793313E+04	4.300385E+04	0.0000	1.440386E-02	8.677023E-04	2.097539E-01	

MEANS FOR MAIZE BY STATE

VARIABLE	LABEL	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM
STATE=BRMG								
YEAR		22	1.976500E+03	6.493587E+00	1966.000	1.987000E+03	1	4.348300E+04
CRESEXP		22	9.275794E+05	1.131539E+06	31567.530	3.786422E+06	241245	2.040675E+07
POOR		22	2.727273E-01	4.558423E-01	0.000	1.000000E+00	0	6.000000E+00
BAD		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0	0.000000E+00
GOOD		22	9.090909E-02	2.942449E-01	0.000	1.000000E+00	0	2.000000E+00
YINIGH1		22	1.012697E+00	1.494106E-01	0.813	1.292340E+00	0	2.227934E+01
RNGH1		22	1.501745E+07	1.508049E+07	188213.645	5.028104E+07	3215172	3.303840E+08
PRNGH1		22	1.083243E+10	2.228343E+10	0.000	8.837162E+10	4750843640	2.383134E+11
LIVFIELD		22	1.401587E-01	1.755140E-01	-0.183	4.369336E-01	0	3.083492E+00
BOLIVIA		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0	0.000000E+00
BRMIG		22	1.000000E+00	0.000000E+00	1.000	1.000000E+00	0	2.000000E+01
BRMT		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0	0.000000E+00
BRPR		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0	0.000000E+00
BRRS		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0	0.000000E+00
BRSC		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0	0.000000E+00
BRSP		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0	0.000000E+00
SANTAFE		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0	0.000000E+00
CORDOBA		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0	0.000000E+00
BUENOS		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0	0.000000E+00
LAPAMPA		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0	0.000000E+00
URUGUAY		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0	0.000000E+00
PARAGUAY		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0	0.000000E+00
CHILE		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0	0.000000E+00
EXTEN		22	8.646364E+02	2.526229E+02	300.000	1.189000E+03	54	1.902200E+04
MARCA		22	1.950078E+06	0.000000E+00	1950077.864	1.950078E+06	0	4.290171E+07
EXTENA		22	4.433856E-04	1.295450E-04	0.000	6.097192E-04	0	9.754482E-03
EYTA		22	1.497376E-03	4.86710C2E-04	0.001	2.119915E-03	0	3.294227E-02
STRESA		22	4.472828E+05	4.587269E+05	0.000	1.484130E+06	97801	9.840221E+06
NYIELDA		22	1.031730E+00	1.640901E-01	0.726	1.306413E+00	0	2.269806E+01
LCREEXP		22	1.285695E+01	1.503469E+00	10.360	1.514693E+01	0	2.828530E+02
LSTRESA		22	1.187884E+01	2.919674E+00	0.000	1.421034E+01	1	2.613346E+02
LNYIELDA		22	1.891943E-02	1.616789E-01	-0.320	2.672849E-01	0	4.162275E+02
LRNGH1		22	1.573171E+01	1.622076E+00	12.145	1.773314E+01	0	3.460976E+02
LPRNGH1		22	8.629403E+00	1.169705E+01	0.000	2.520482E+01	2	1.898459E+02
LEXTA		22	-6.572650E+00	4.114611E-01	-7.527	-6.156379E+00	0	-1.445983E+02
LRESEX		22	1.879679E-02	8.170034E-03	0.000	2.987568E-02	0	4.135293E-01
LSRNRR		22	2.130281E+08	2.282099E+08	1949871.591	7.616035E+08	48654506	4.686618E+09
LSRNPR		22	1.590222E+11	3.319567E+11	0.000	1.338559E+12	70773396200	3.498488E+12
LSRATIO		22	4.786064E+03	6.860602E+03	0.000	3.129562E+04	1889	1.052934E+05

MEANS FOR MAIZE BY STATE

10:09 TUESDAY, JUNE 27, 1989 3

VARIABLE	LABEL	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM
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STATE=BRNT

YEAR	22	1.976500E+03	6.493587E+00	1966.0000	1.987000E+03	1	4.348300E+04	
CRESEXP	22	8.479032E+05	1.538976E+06	0.0000	5.129634E+06	328111	1.865387E+07	
POOR	22	3.181818E-01	4.767313E-01	0.0000	1.000000E+00		0.700000E+00	
BAD	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00		0.000000E+00	
GOOD	22	0.0000000E+00	0.0000000E+00	0.0000	0.0000000E+00		0.0000000E+00	
YINGH1	22	1.035252E+00	1.457262E-01	0.8451	1.290505E+00		0.2.277554E+01	
RNGH1	22	1.815181E+07	1.782460E+07	2344229.	1511.5.992178E+07	3800217	3.993398E+08	
PRNGH1	22	8.812245E+09	1.836786E+10	0.0000	7.399913E+10	3916040516	1.938694E+11	
LJYIELD	22	1.341937E-01	1.339874E-01	-0.1709	4.975098E-01	0	2.952261E+00	
BOLIVIA	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00		0.000000E+00	
BRMG	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00		0.000000E+00	
BRMT	22	1.000000E+00	0.000000E+00	1.0000	1.000000E+00		0.2.200000E+01	
BRPR	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00		0.000000E+00	
BRRS	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00		0.000000E+00	
BRSC	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00		0.000000E+00	
BRSP	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00		0.000000E+00	
SANTAFE	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00		0.000000E+00	
CORDOBA	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00		0.000000E+00	
BUENOS	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00		0.000000E+00	
LAPAIMPA	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00		0.000000E+00	
URUGUAY	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00		0.000000E+00	
PARAGUAY	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00		0.000000E+00	
CHILE	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00		0.000000E+00	
EXTEN	22	1.479091E+02	7.979432E+01	11.0000	2.920000E+02	117	3.254000E+03	
MAREA	22	5.870395E+05	0.000000E+00	587039.	5455.5.870395E+05		0.1.291487E+07	
EXTENA	22	2.519576E-04	1.359267E-04	0.0000	4.974111E-04	0	5.543068E-03	
EXTA	22	8.165781E-04	4.653717E-04	0.0001	1.59173E-C2	n	1.795672E-C2	
STRESA	22	1.824117E+05	3.465160E+05	0.0000	1.204352E+06	73877	4.013057E+06	
NYIELDA	22	1.090957E+00	1.580534E-01	0.8576	1.364914E+00		0.2.400106E+01	
LCRESEXP	22	8.518135E+00	5.853154E+00	0.0000	1.545054E+01		1.1.873990E+02	
STRESA	22	7.356910E+00	5.474338E+00	0.0000	1.400145E+01		1.1.618520E+02	
LYIELDA	22	7.699418E-02	1.454369E-01	-0.1536	3.110917E-01		0.1.693872E+00	
LRNGH1	22	1.594253E+01	1.605215E+00	12.3641	1.790855E+01		0.3.507356E+02	
LPRNGH1	22	8.549411E+00	1.158931E+01	0.0000	2.502732E+01		2.1.880871E+02	
LEXTA	22	7.405796E+00	9.529350E-01	-9.6322	-6.401436E+00		0.-1.629275E+02	
LRESEX	22	8.305791E-03	7.110936E-03	0.0000	2.323083E-02		0.1.827274E-01	
LSRNR	22	2.386648E+08	2.830261E+08	0.0000	9.258241E+08	60341364	5.250626E+09	
LSRNPR	22	1.297434E+11	2.775485E+11	0.0000	1.143327E+12	59173539312	2.854356E+12	
LSSRATIO	22	3.201793E+03	6.019950E+03	0.0000	2.085122E+04	1283	7.043944E+04	

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MEANS FOR MAIZE BY STATE
N MEAN STANDARD DEVIATION

VARIABLE	LABEL	STATE=BRPR	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM
YEAR		1.976500E+03	6.493587E+00	1966.000	1.987000E+03	1 4.348300E+04
GRESEXP		22 5.477970E+05	7.994369E+05	11277.558	2.682489E+06	170441 1.205153E+07
POOR		22 1.363636E-01	3.512501E-01	0.000	1.000000E+00	0 3.000000E+00
BAD		22 4.545455E-02	2.132007E-01	0.000	1.000000E+00	0 1.000000E+00
GOOD		22 4.545455E-02	2.132007E-01	0.000	1.000000E+00	0 1.000000E+00
YNGH1		22 9.808277E-01	1.518540E-01	0.771	1.244347E+00	0 2.1578213E+01
ZNGH1		22 1.172861E+07	1.224519E+07	147052.953	4.087796E+07	2610683 2.580295E+08
FRNGH1		22 1.303922E+10	2.717131E+10	0.000	1.094268E+11	5792942215 2.868629E+11
LYIELD		22 1.312322E-01	1.760418E-01	-0.306	4.320730E-01	2.887102E+00
BOLIVIA		22 0.000000E+00	0.000000E+00	0.000	0.000000E+00	0 0.000000E+00
BRMG		22 0.000000E+00	0.000000E+00	0.000	0.000000E+00	0 0.000000E+00
BRMT		22 0.000000E+00	0.000000E+00	0.000	0.000000E+00	0 0.000000E+00
BRPR		22 1.000000E+00	0.000000E+00	1.000	1.000000E+00	0 2.200000E+01
BRRS		22 0.000000E+00	0.000000E+00	0.000	0.000000E+00	0 0.000000E+00
BRSC		22 0.000000E+00	0.000000E+00	0.000	0.000000E+00	0 0.000000E+00
BRSP		22 0.000000E+00	0.000000E+00	0.000	0.000000E+00	0 0.000000E+00
SANTAFE		22 0.000000E+00	0.000000E+00	0.000	0.000000E+00	0 0.000000E+00
CORDOBA		22 0.000000E+00	0.000000E+00	0.000	0.000000E+00	0 0.000000E+00
BUENOS		22 0.000000E+00	0.000000E+00	0.000	0.000000E+00	0 0.000000E+00
LAPAMPA		22 0.000000E+00	0.000000E+00	0.000	0.000000E+00	0 0.000000E+00
URUGUAY		22 0.000000E+00	0.000000E+00	0.000	0.000000E+00	0 0.000000E+00
PARAGUAY		22 0.000000E+00	0.000000E+00	0.000	0.000000E+00	0 0.000000E+00
CHTLE		22 5.937727E+02	4.057132E+02	80.000	1.333000E+03	86 1.306300E+04
EXTEN		22 3.488967E+06	0.000000E+00	3488967.091	3.488967E+06	0 7.675728E+07
WAREA		22 1.701858E-04	1.162846E-04	0.000	3.820615E-04	0 3.744088E-03
EXTENA		22 5.632896E-04	4.18341E-04	0.000	1.275736E-03	0 1.219235E-02
EXTA		22 1.861939E+06	2.240075E+06	8268.830	7.011342E+06	477586 4.096266E+07
STRESA		22 1.030694E+00	1.699202E+01	0.752	1.324570E+01	0 2.267527E+01
NYIELD1		22 1.200136E+01	1.731445E+00	9.331	1.480226E+01	0 2.640300E+02
LCRESEXP		22 1.292265E+01	2.326661E+00	9.020	1.576304E+01	0 2.842984E+02
LSTRESA		22 1.716174E-02	1.659908E-01	-0.284	2.810881E-01	0 3.775582E-01
LNYIELD1		22 1.545496E+01	1.634002E+00	11.899	1.752610E+01	0 3.400092E+02
LRNGH1		22 8.691983E+00	1.178213E+01	0.000	2.541852E+01	0 3.1.912236E+02
LOG OF 4 YEAR AVE. STATE RESEARCH		22 7.833202E+00	9.401634E-01	-9.430	6.664232E+00	0 0.1.723304E+02
LOG OF 4 YEAR AVE. NEIGH YIELD		22 8.125332E-03	6.607591E-03	0.001	1.977333E-02	0 1.787573E-01
LOG OF NEIGH RES		22 1.597447E+08	1.812016E+08	13772087.876	6.050859E+08	38632301 3.514384E+09
LOG OF NEIGH RES*PROCISUR		22 1.855931E+11	3.945618E+11	0.000	1.619763E+12	84120865054 4.083049E+12
LOG OF STATE RES*RATIO		22 6.971514E+03	1.294213E+04	0.000	4.532613E+04	2759 1.533733E+05

MEANS FOR MAIZE BY STATE

VARIABLE LABEL

N MEAN STANDARD DEVIATION MINIMUM VALUE MAXIMUM VALUE STD ERROR OF MEAN SUM

	STATE=BRRS					
YEAR	1.976500E+03	6.493587E+09	1966.000	1.987000E+03	1.384437E+00	4.348300E+04
CRESEXP	22.5.477970E+05	7.994369E+05	11277.558	2.682489E+06	1.704405E+05	1.205153E+07
POOR.	22.1.363636E-01	3.512501E-01	0.000	1.000000E+00	7.488677E-02	3.000000E+00
BAD.	22.9.090909E-02	2.942449E-01	0.000	1.000000E+00	6.273323E-02	2.000000E+00
GOOD	22.4.5455E-02	2.132007E-01	0.000	1.000000E+00	4.545455E-02	1.000000E+00
YNGH1	22.1.011262E+00	1.621718E-01	0.791	1.295732E+00	3.457155E-02	2.224777E+01
RNGH1	22.1.521029E+07	1.595286E+07	205218.287	5.346169E+07	3.401160E+06	3.346264E+08
PRNGH1	22.1.650132E+10	3.395596E+10	0.000	1.347283E+11	7.239435E+09	3.630291E+11
LITYIELD	22.1.201543E-01	1.841030E-01	-0.255	4.476012E-01	3.925089E-02	2.643396E+00
BOLIVIA	22.0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRMG	22.0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRMT	22.0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRPR	22.0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRRS	22.1.000000E+00	0.000000E+00	1.000	1.000000E+00	0.000000E+00	2.200000E+01
BRSC	22.0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRSP	22.0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
SANTAFE	22.0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
CORDOBA	22.0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
Buenos	22.0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
LAPAMPA	22.0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
URUGUAY	22.0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
PARAGUAY	22.0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
CHSE	22.0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
EXTEN	22.4.601364E+02	2.888005E+02	177.000	9.640000E+02	6.157248E+01	1.012300E+04
MAREA	22.4.320713E+06	0.000000E+00	4320713.000	4.320713E+06	0.000000E+00	9.505569E+07
EXTENA	22.1.064955E-04	6.684094E-05	0.000	2.331113E-04	1.425054E-05	2.342904E-03
EXTA	22.3.532229E-04	2.302116E-04	0.000	7.715162F-04	4.913075E-05	7.77244E-03
STRESA	22.1.861939E+06	2.240075E+06	8268.830	7.011342E+06	4.775855E+05	4.096266E+07
NYIELD	22.1.054301E+00	1.813172E-01	0.760	1.360544E+00	3.865696E-02	2.319463E+01
LCRESEXP	22.1.200136E+01	1.731445E+00	9.331	1.480226E+01	3.691453E-01	2.640300E+02
LSTRESA	22.1.292265E+01	2.326661E+00	9.020	1.576304E+01	4.960457E-01	2.842984E+02
LYIELD	22.3.859047E-02	1.737189E-01	-0.275	3.078846E-01	3.703699E-02	8.489904E-01
LRNGH1	22.1.572116E+01	1.615421E+00	12.232	1.779448E+01	3.444088E-01	3.458655E+02
LPRNGH1	22.8.782346E+00	1.190392E+01	0.000	2.562653E+01	2.537925E+00	1.932115E+02
LEXTA	22.-8.147011E+00	6.373944E-01	-8.833-7.167153E+00	1.358930E-01	-1.792342E+02	
LRESEX	22.4.987122E-03	3.877493E-03	0.001	1.195815E-02	8.266844E-04	1.097167E-01
LSRNPR	22.2.072362E+08	2.360882E+08	1914803.598	7.913536E+08	5.033418E+07	4.559197E+09
LSRATIO	22.6.857983E+03	1.266881E+04	0.000	1.994282E+12	1.049543E+11	5.161180E+12
	0.000	4.513335E+04	2.700999E+03	1.508756E+05		

MEANS FOR MAIZE BY STATE

VARIABLE	LABEL	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM
STATE=BRSC								
YEAR		22	1.976500E+03	6.493587E+00	1966.000	1.987000E+03	1.384437E+00	4.348300E+04
CRESEXP		22	5.477970E+05	7.994369E+05	11277.558	2.682489E+06	1.704405E+05	1.205153E+07
POOR		22	1.818182E-01	3.947710E-01	0.000	1.000000E+00	8.416546E-02	4.000000E+00
BAD		22	9.090909E-02	2.942449E-01	0.000	1.000000E+00	6.273323E-02	2.000000E+00
GOOD		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
YINGH1		22	1.007952E+00	1.646958E-01	787	1.311596E+00	3.51137E-02	2.217495E+01
RNGH1		22	1.521029E+07	1.595286E+07	205218.287	5.346169E+07	3.401160E+06	3.346264E+08
PRNGH1		22	1.650132E+10	3.395596E+10	0.000	1.347283E+11	7.239435E+09	3.630291E+11
LIVIELD		22	1.445660E-01	1.807980E-01	-0.120	4.345382E-01	3.854627E-02	3.180453E+00
BOLIVIA		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRMG		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRMT		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRPR		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRRS		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRSC		22	1.000000E+00	0.000000E+00	1.000	1.000000E+00	0.000000E+00	2.200000E+01
BRSP		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
SANTAFE		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
CORDOBA		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BUENOS		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
LAPAMPA		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
URUGUAY		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
PARAGUAY		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
CYLE		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
EXTEN		22	3.801364E+02	1.250921E+02	100.000	5.970000E+02	2.666972E+01	8.363000E+03
WAREA		22	1.167297E+06	0.000000E+00	1167296.909	1.167297E+06	0.000000E+00	2.568053E+07
EXTENA		22	3.256552E-04	1.071639E-04	0.000	5.114380E-04	0.000	2.284742E-05
EXTA		22	1.081741E-03	3.842778E-04	0.000	1.705222E-03	8.192839E-05	7.164415E-03
STRESA		22	1.861939E+06	2.240075E+06	8268.830	7.011342E+06	4.775855E+05	4.096266E+07
NYIELDA		22	1.051412E+00	1.794391E-01	0.754	1.371863E+00	3.825655E-02	2.313107E+01
LCRESEXP		22	1.200136E+01	1.731445E+00	9.331	1.480226E+01	3.691453E-01	2.640300E+02
LSTRESEA		22	1.292265E+01	2.326661E+00	9.020	1.576304E+01	4.960457E-01	2.842984E+02
LNYYIELDA		22	3.613709E-02	1.717538E-01	-0.282	3.161698E-01	3.661803E-02	7.950160E-01
LOG OF NEIGH RES		22	1.572116E+01	1.615421E+00	12.232	1.779448E+01	3.444088E-01	3.458655E+02
LOG OF NEIGH RES*PROCISUR		22	8.782346E+00	1.190392E+01	0.000	2.562653E+01	2.537925E+00	1.932116E+02
LOG OF YEAR AVE. STATE EXTENSION		22	6.917079E+00	4.782293E-01	-8.112	6.374060E+00	1.01958BE-01	1.521757E+02
LOG OF STATE RES*NEW STATE EXT		22	1.476952E-02	7.037593E-03	0.003	2.687948E-02	1.500420E-03	3.249294E+01
LOG OF STATE RES*NEIGH RES		22	2.072362E+08	2.360882E+08	1914803.598	7.913536E+08	5.033418E+07	4.559197E+09
LOG OF STATE RES*NEIGH RES*PROCISUR		22	2.3459991E+11	4.922793E+11	0.000	1.994282E+12	1.049543E+11	5.161180E+12
LOG OF STATE RES*RATIO		22	6.857983E+03	1.266881E+04	0.000	4.513335E+04	2.700999E+03	1.508756E+05

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MEANS FOR MAIZE BY STATE

VARIABLE	LABEL	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM
STATE=URSP								
YEAR		22	1.976500E+03	6.493587E+00	1966.	000	1.987000E+03	1 4.348300E+04
CRESEXP		22	7.938135E+05	4.070020E+05	146587.	650	1.469927E+06	86773 1.746390E+07
POOR		22	1.363636E-01	3.512501E-01	0.	000	1.000000E+00	0 3.000000E+00
BAD		22	9.09090E-02	2.942449E-01	0.	000	1.000000E+00	0 2.000000E+00
GOOD		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0 0.000000E+00
YINGH1		22	1.016006E+00	1.451908E-01	0.	000	0.000000E+00	0 2.235214E+01
RNGH1		22	1.617791E+07	1.681445E+07	0.	818	1.291360E+00	0 2.235214E+01
PRNGH1		22	1.160960E+10	2.404310E+10	0.	000	9.612945E+10	3584853 3.559139E+08
LIYTIELD		22	1.709175E-01	1.613807E-01	-0.	098	4.298717E-01	5126005745 2.554112E+11
BOLIVIA		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0 0.000000E+00
BRMG		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0 0.000000E+00
BRMT		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0 0.000000E+00
BRPR		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0 0.000000E+00
BRRS		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0 0.000000E+00
BRSC		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0 0.000000E+00
BRSP		22	1.000000E+00	0.000000E+00	1.	000	1.000000E+00	0 2.200000E+01
SANTAFE		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0 0.000000E+00
CORDOBA		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0 0.000000E+00
BUENOS		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0 0.000000E+00
LAPAMPA		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0 0.000000E+00
URUGUAY		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0 0.000000E+00
PARAGUAY		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0 0.000000E+00
CHILE		22	0.200000E+00	0.000000E+00	0.	000	0.000000E+00	0 0.000000E+00
EXTEN		22	8.646364E+02	2.526229E+02	300.	000	1.189000E+03	54 1.493840E+04
MAREA		22	2.497200E+06	0.000000E+00	2497199.	818	2.497200E+06	0 5.617332E-03
EXTENA		22	3.462424E-04	1.011625E-04	0.	000	4.761333E-04	0 2.572411E-02
SYTA		22	1.169310E-02	2.30749E-04	0.	000	1.555454E-03	0 0.000000E+00
STRESA		22	6.234466E+05	4.872566E+05	44355.	180	1.611189E+06	103883 1.371578E+07
NYIELDA		22	1.035828E+00	1.561767E-01	0.	774	1.317214E+00	0 2.278822E+01
LCRESEXP		22	1.341184E+01	6.634730E-01	11.	895	1.420072E+01	0 2.950604E+02
LSTRESA		22	1.295774E+01	9.566540E-01	10.	700	1.429248E+01	0 2.850744E+02
LYNIELDA		22	2.437966E-02	1.506219E-01	-0.	257	2.755188E-01	0 5.363526E-01
LRNGH1		22	1.568118E+01	1.838528E+00	11.	370	1.784499E+01	0 3.449860E+02
LPRNGH1		22	8.652079E+00	1.172795E+01	0.	000	2.528896E+01	3.1.903457E+02
LEXTA		22	-6.819951E+00	4.1.14611E-01	-7.	774	-6.403680E+00	0-1.500389E+02
LRESEX		22	1.549679E-02	5.835081E-03	0.	005	2.352495E-02	0 3.409294E-01
LSRNR		22	2.254761E+08	2.386222BE+08	1031065.	684	7.985296E+08	50874562 4.960474E+09
LSRNPR		22	1.634029E+11	3.398041E+11	0.	000	1.365108E+12	72446483422 3.594864E+12
LSRRATIO		22	4.531683E+03	8.350699E+03	0.	000	2.987899E+04	1780 9.969703E+04

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MEANS FOR MAIZE BY STATE

VARIABLE	LABEL	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM
STATE=BUENOS								
YEAR		22	1.97500E+03	6.493587E+00	1966.0000	1.987000E+03	1.241077	1 4.348300E+04
CRESEXP		22	5.066785E+06	5.821166E+06	0.00000	1.858861E+07	1.114693E+08	
POOR		22	3.181816E-01	4.767313E-01	0.00000	1.000000E+00	0	0.000000E+00
BAD		22	1.818182E-01	3.947710E-01	0.00000	1.000000E+00	0	0.000000E+00
GOOD		22	4.545455E-02	2.132007E-01	0.00000	1.000000E+00	0	0.000000E+00
YINGH1		22	1.179467E+00	2.683546E-01	0.77109	1.616373E+00	0	2.594828E+01
RNGH1		22	6.883027E+06	7.410156E+06	85712.10870	2.442897E+07	1579851	1.514266E+08
PRNGH1		22	8.633175E+09	1.796169E+10	0.00000	6.319903E+10	3829445110	1.899298E+11
LYIELD		22	1.814759E-01	1.976439E-01	-0.28067	4.67113SE-01	0	3.992469E+00
BOLIVIA		22	0.00000E+00	0.00000E+00	0.00000	0.00000E+00	0	0.000000E+00
BRMG		22	0.00000E+00	0.00000E+00	0.00000	0.00000E+00	0	0.000000E+00
BRMT		22	0.00000E+00	0.00000E+00	0.00000	0.00000E+00	0	0.000000E+00
BRPR		22	0.00000E+00	0.00000E+00	0.00000	0.00000E+00	0	0.000000E+00
BRRS		22	0.00000E+00	0.00000E+00	0.00000	0.00000E+00	0	0.000000E+00
BRSC		22	0.00000E+00	0.00000E+00	0.00000	0.00000E+00	0	0.000000E+00
BRSP		22	0.00000E+00	0.00000E+00	0.00000	0.00000E+00	0	0.000000E+00
SANTAFE		22	0.00000E+00	0.00000E+00	0.00000	0.00000E+00	0	0.000000E+00
CORDOBA		22	0.00000E+00	0.00000E+00	0.00000	0.00000E+00	0	0.000000E+00
BUENOS		22	1.00000E+00	0.00000E+00	0.00000	0.00000E+00	0	0.000000E+00
LAPAMPA		22	0.00000E+00	0.00000E+00	0.00000	0.00000E+00	0	0.000000E+00
URUGUAY		22	0.00000E+00	0.00000E+00	0.00000	0.00000E+00	0	0.000000E+00
PARAGUAY		22	0.00000E+00	0.00000E+00	0.00000	0.00000E+00	0	0.000000E+00
CHILE		22	0.00000E+00	0.00000E+00	0.00000	0.00000E+00	0	0.000000E+00
EXTEN		22	9.322727E+01	1.164119E+01	48.00000	1.060000E+02	0	9.000000E+01
MAREA		22	4.231286E+03	0.000000E+00	4231.28591	4.231286E+03	0	9.308829E+04
EXTENA		22	2.203285E+02	2.751218E-03	0.01134	2.505149E-02	0	4.847226E-01
SYTA		22	7.534245E-?2	1.173462F-92	0.03271	8.700335E-02	0	1.657534E-00
STRESA		22	3.773971E+06	5.168624E+06	0.00000	1.708628E+07	1101954	8.3027375E+07
NYIELD		22	1.110229E+00	2.271096E-01	0.68417	1.474940E+00	0	2.205100E+03
LCRESEXP		22	1.347106E+01	4.5756575E+00	0.00000	1.673806E+01	1	2.963633E+02
LSTRESEA		22	1.239916E+01	5.267702E+00	0.00000	1.665379E+01	1	2.727815E+02
LNIELDA		22	8.355347E-02	2.129097E-01	-0.37955	3.886171E-01	0	1.838176E+00
LRNGH1		22	1.487979E+01	1.656266E+00	11.35875	1.701128E+01	0	3.273554E+02
LPRNGH1		22	6.522264E+00	1.090947E+01	0.00000	2.486955E+01	2	1.434898E+02
LEXTA		22	2.601262E+00	1.947384E-01	-3.22630	-2.440821E+00	0-5.	7.222777E+01
LRESEX		22	9.863038E-01	4.366462E-01	0.00000	1.421999E+00	0	1.69868E+01
LSRNRP		22	1.097667E+08	1.240749E+08	0.00000	4.088936E+08	26452866	2.414868E+09
LSRRATIO		22	4.108533E+11	2.948185E+11	0.00000	1.052371E+12	62855520479	3.103877E+12
		22	8.876666E+03	1.8655576E+04	0.00000	7.040888E+04	3977	1.953306E+05

VARIABLE	LABEL	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM
MEANS FOR MAIZE BY STATE								
S1 STATE=CORDOBA								
YEAR		22	1.976500E+03	6.493587E+00	1966.0000	1.987000E+03	1	4.348300E+04
CRESEXP		22	1.834345E+06	1.876972E+06	0.0000	5.255144E+06	400172	4.025559E+07
POOR		22	9.090909E-02	2.942449E-01	0.0000	1.000000E+00	0	2.000000E+00
BAD		22	9.090909E-02	2.942449E-01	0.0000	1.000000E+00	0	2.000000E+00
GOOD		22	4.545455E-02	2.132007E-01	0.0000	1.000000E+00	0	1.000000E+00
YNGH1		22	1.095518E+00	2.253811E-01	0.7720	1.481972E+00	0	2.410139E+01
RNGH1		22	1.019502E+07	1.150460E+07	113450.9145	3.814700E+07	2452790	2.242904E+08
PRNGH1		22	1.351291E+10	2.807067E+10	0.0000	9.817877E+10	5984687491	2.972841E+11
LYIELD		22	2.466474E-01	3.242621E-01	-0.4796	7.439157E-01	0	5.426244E+00
BOLIVIA		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0	0.000000E+00
BRMG		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0	0.000000E+00
BRMT		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0	0.000000E+00
BRPR		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0	0.000000E+00
BRRS		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0	0.000000E+00
BRSC		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0	0.000000E+00
BRSP		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0	0.000000E+00
SANTAFE		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0	0.000000E+00
CORDOBA		22	1.000000E+00	0.000000E+00	1.0000	1.000000E+00	0	2.200000E+01
BUENOS		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0	0.000000E+00
LAPAMPA		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0	0.000000E+00
URUGUAY		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0	0.000000E+00
PARAGUAY		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0	0.000000E+00
CHILE		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0	0.000000E+00
EXTEN		22	5.900000E+01	3.792223E+00	53.0000	6.500000E+01	1587.9650	1.587965E+03
MAREA		22	1.587965E+03	0.000000E+00	0.0334	4.093289E-02	0.1171	1.413759E-01
EXTENA		22	3.715447E-02	2.388102E-03	0.1171	1.413759E-01	682839	5.668891E+07
EXTA		22	1.290960E-01	7.932351E-03	0.0000	9.399488E+06	53.0000	6.500000E+01
STRESA		22	2.5776769E+06	3.202800E+06	0.0000	1.397233E+00	1.067031E+00	1.298000E+03
NYIELDA		22	1.067031E+00	1.887299E-01	0.7930	1.397233E+00	1.5879650	1.587965E+03
LCRESEXP		22	1.2046061E+01	4.309315E+00	0.0000	1.547472E+01	0.0334	4.093289E-02
LSTRESA		22	4.989617E-02	1.775196E-01	0.0000	1.605617E+01	0.1171	1.413759E-01
LNYIELDA		22	4.989617E-02	1.775196E-01	-0.2320	3.344937E-01	11.6391	1.745696E+01
LCRNGH1		22	1.523610E+01	1.667328E+00	0.0000	2.531006E+01	0.0000	2.763333E+02
LPRNGH1		22	6.645259E+00	1.11479E+01	0.0000	2.531006E+01	0.0000	2.1461957E+02
LEXTA		22	-2.049018E+00	6.188473E-02	-2.1445	-1.956333E+00	0.0000	-4.507839E+01
LRESEX		22	1.582942E+00	7.005032E-01	0.0000	2.269955E+00	0.0000	3.482472E+01
LSRNRR		22	1.524620E+08	1.792885E+08	0.0000	5.903141E+08	38224437	3.354165E+09
LSRNPR		22	2.067232E+11	4.302903E+11	0.0000	1.516609E+12	91738204189	4.547911E+12
LSRRATIO		22	8.946937E+03	1.917621E+04	0.0000	7.617862E+04	4088	1.968326E+05

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MEANS FOR MAIZE BY STATE

VARIABLE	LABEL	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM
STATE=LAPAMPA								
YEAR		22	1977	6.493587E+00	1966.00000	1.987000E+03	1	4.348300E+04
CRESEXP		22	244159	3.262958E+05	9.556013E+05	69566	5.371491E+06	
POOR		22	0	3.512501E-01	0.00000	0	3.000000E+00	
BAD		22	0	2.132007E-01	0.00000	0	1.000000E+00	
GOOD		22	0	0.000000E+00	0.00000	0	0.000000E+00	
YINGH1		22	1	1.788280E-01	0.00000	0	0.000000E+00	
RNGH1		22	8439852	9.461271E+06	69925.58790	3.088678E+07	2017150	1.856776E+08
PRNGH1		22	6885838506	1.432386E+10	0.00000	5.036244E+10	3053857725	1.514884E+11
LYIELD		22	1	4.986121E-01	-0.23240	1.364020E+00	0	1.250161E+01
BOLIVIA		22	0	0.000000E+00	0.00000	0.000000E+00	0	0.000000E+00
BRMG		22	0	0.000000E+00	0.00000	0.000000E+00	0	0.000000E+00
BRMT		22	0	0.000000E+00	0.00000	0.000000E+00	0	0.000000E+00
BRPR		22	0	0.000000E+00	0.00000	0.000000E+00	0	0.000000E+00
BRRS		22	0	0.000000E+00	0.00000	0.000000E+00	0	0.000000E+00
BRSC		22	0	0.000000E+00	0.00000	0.000000E+00	0	0.000000E+00
BRSP		22	0	0.000000E+00	0.00000	0.000000E+00	0	0.000000E+00
SANTAFE		22	0	0.000000E+00	0.00000	0.000000E+00	0	0.000000E+00
CORDOBA		22	0	0.000000E+00	0.00000	0.000000E+00	0	0.000000E+00
BUENOS		22	0	0.000000E+00	0.00000	0.000000E+00	0	0.000000E+00
LAPAMPA		22	1	0.000000E+00	1.00000	1.000000E+00	0	2.200000E+01
URUGUAY		22	0	0.000000E+00	0.00000	0.000000E+00	0	0.000000E+00
PARAGUAY		22	0	0.000000E+00	0.00000	0.000000E+00	0	0.000000E+00
CHILE		22	0	0.000000E+00	0.00000	0.000000E+00	0	0.000000E+00
EXTEIN		17	3.670698E+00	12.00000	2.600000E+01	577.95409	1.3.73000E+02	
WAREA		22	578	0.000000E+00	5.779541E+02	0	1.271499E+04	
EXTENA		22	0	6.351194E-03	0.02076	4.498627E-02	0	6.453800E-01
EYTA		22	0	1.970120E-02	0.08132	1.495559E-01	79359	2.262290E+00
STRESA		22	223141	3.722290E+05	0.00000	1.159867E+06	4.909107E+06	
NYIELDA		22	1	1.675954E-01	0.83456	1.422624E+00	0	2.432270E+01
LCRESEXP		22	7	6.465189E+00	0.00000	1.377010E+01	1	5.08268E+02
LSTRESEA		22	6	6.328762E+00	0.00000	1.396382E+01	1	3.33558E+02
LNLYIELDA		22	0	1.523355E-01	0	3.525028E-01	0	1.965555E+00
LRNGH1		22	15	1.762303E+00	11.15519	1.724584E+01	0	3.301555E+02
LPRNGH1		22	6	1.080656E+01	0.00000	2.464251E+01	2	1.421343E+02
LEXTA		22	-2	1.763093E-01	-2.50935	-1.899350E+00	0	5.038732E+01
LRESEX		22	1	7.784527E-01	0.00000	2.045949E+00	0	1.541391E+01
LSRNPR		22	102729310	1.357620E+08	0.00000	4.253139E+08	28944556	2.260045E+09
LSRNPR		22	92641499569	1.934492E+11	0.00000	6.884195E+11	41243512586	2.038113E+12
LSRRATIO		22	4748	1.006136E+04	0.00000	3.901289E+04	2145	1.044505E+05

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VARIABLE	LABEL	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM
MEANS FOR MAIZE BY STATE								
YEAR		22	1.976500E+03	6.493587E+00	1966.	000	1.987000E+03	1.384437E+00
CRESEXP		22	3.712770E+06	4.512469E+06	81504.	720	1.655196E+07	4.348300E+04
POOR		22	2.272727E-01	4.289320E-01	0.	000	1.000000E+00	8.168095E+07
BAD		22	0.0000000E+00	0.0000000E+00	0.	000	0.000000E+00	5.030000E+00
GOOD		22	0.0000000E+00	0.0000000E+00	0.	000	0.000000E+00	0.000000E+00
YINGH1		22	0.0000000E+00	0.0000000E+00	0.	000	0.000000E+00	0.000000E+00
RNGH1		22	1.059925E+00	1.745074E-01	0.	000	0.000000E+00	0.000000E+00
PRNGH1		22	1.447945E+07	1.452454E+07	120879.	206	4.749158E+07	3.096642E+06
LITYIELD		22	1.618375E+10	2.956215E+10	0.	000	8.506426E+10	3.185480E+08
BOLIVIA		22	1.409293E-01	1.489622E-01	-0.179	3.894001E-01	3.175885E-02	3.100444E+00
BRMG		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0.000000E+00
BRMT		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0.000000E+00
BRPR		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0.000000E+00
BRRS		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0.000000E+00
BRSC		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0.000000E+00
BRSP		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0.000000E+00
SANTAFE		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0.000000E+00
CORDOBA		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0.000000E+00
BUENOS		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0.000000E+00
LAPAMPA		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0.000000E+00
URUGUAY		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0.000000E+00
PARAGUAY		22	1.000000E+00	0.000000E+00	1.	000	1.000000E+00	0.000000E+00
CHILE		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0.000000E+00
EXTEN		22	4.597579E+05	2.243566E+05	117349.	206	6.384365E+05	4.783299E+04
MAREA		22	6.134318E+05	0.000000E+00	613431.	818	6.134318E+05	0.000000E+00
EXTENA		22	7.494850E-01	3.657401E-01	0.	191	1.040762E+00	7.797605E-02
EXTA		22	2.515999E+00	1.277815E+00	0.	671	3.642667E+00	2.724211E-01
STRESA		22	2.814990E+06	3.338014E+06	81504.	720	1.256148E+07	7.116669E+05
NYELDA		22	1.060367E+00	1.720163E-01	0.	780	1.348072E+00	3.667399E-02
LCRESEXP		22	1.431503E+01	1.481001E+00	11.	308	1.662202E+01	1.011467E+07
LSSTRESA		22	1.403049E+01	1.508102E+00	11.	308	1.634615E+01	3.149307E+02
LNYIELDA		22	4.601180E-02	1.627930E-01	-0.	248	2.986756E-01	3.470758E-02
LRNGH1		22	1.563832E+01	1.735047E+00	11.	703	1.767606E+01	3.699132E-01
LPRNGH1		22	7.716128E+00	1.158051E+01	0.	000	2.516667E+01	2.468972E+00
LEXTA		22	7.490219E-01	6.572166E-01	-0.	399	1.292716E+00	1.401191E-01
LRESEX		22	3.697081E+01	2.076236E+01	8.	644	5.954356E+01	4.426549E+00
LSRNPR		22	2.256425E+08	2.390878E+08	1366952.	377	7.894058E+08	5.097368E+07
LSRRATIO		22	2.586310E+11	4.740381E+11	0.	000	1.304497E+12	1.010653E+11
		22	8.155584E+03	1.527467E+04	0.	000	5.761249E+04	3.256571E+03
								1.794229E+05

STATE=PARAGUAY --

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MEANS FOR MAIZE BY STATE

VARIABLE	LABEL	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD. ERROR OF MEAN	SUM
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STATE=SANTAFE								
YEAR		22	1.976500E+03	6.493587E+00	1966.00000	1.987000E+03	1	4.348300E+04
CRESEXP		22	8.363009E+05	1.169221E+06	0.00000	3.463630E+06	249279	1.839862E+07
POOR		22	2.727273E-01	4.558423E-01	0.00000	1.000000E+00	0	6.000000E+00
BAD		22	4.545455E-02	2.132007E-01	0.00000	1.000000E+00	0	1.000000E+00
GOOD		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0	0.000000E+00
YINGH1		22	1.086826E+00	2.212175E-01	0.76501	1.461589E+00	0	2.391017E+01
RNGH1		22	1.010427E+07	1.077449E+07	85536.07920	3.516820E+07	2297128	2.222939E+08
PRNGH1		22	1.285466E+10	2.679811E+10	0.00000	9.493626E+10	5713376544	2.828025E+11
LIYIELD		22	1.763418E-01	2.747513E-01	-0.40453	5.837641E-01	0	3.879520E+00
BOLIVIA		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0	0.000000E+00
BRMG		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0	0.000000E+00
BRMT		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0	0.000000E+00
BRPR		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0	0.000000E+00
BRRS		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0	0.000000E+00
BRSC		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0	0.000000E+00
BRSP		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0	0.000000E+00
SANTAFE		22	1.000000E+00	0.000000E+00	1.00000	1.000000E+00	0	2.200000E+01
CORDOBA		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0	0.000000E+00
BUENOS		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0	0.000000E+00
LAPAMPA		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0	0.000000E+00
URUGUAY		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0	0.000000E+00
PARAGUAY		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0	0.000000E+00
CHTLE		22	0.000000E+00	0.000000E+00	0.00000	2.000000E+00	0	0.000000E+00
EXTEN		22	4.959091E+01	3.762713E+00	39.00000	5.400000E+01	1	1.091000E+03
WAREA		22	1.925747E+03	0.000000E+00	1925.74682	1.925747E+03	0	4.236643E+04
EXTENA		22	2.575152E-02	1.953898E-03	0.02025	2.804107E-02	0	5.665335E-01
EXTA		22	3.935140E-02	7.312304E-03	0.07270	9.914374E-02	0	1.9657315E+00
STRESA		22	4.944676E+05	7.119033E+05	0.00000	2.241625E+06	0	0.000000E+00
NYIELDA		22	1.051359E+00	1.980825E-01	0.68021	1.384949E+00	0	2.312991E+01
LCRESEXP		22	7.495476E+00	7.064065E+00	0.00000	1.505783E+01	2	1.649005E+02
LSTRESA		22	1.028765E+01	4.606233E+00	0.00000	1.462271E+01	1	2.263282E+02
LNYIELDA		22	3.259649E-02	1.933315E-01	-0.38536	3.256631E-01	0	7.171227E-01
LNMGH1		22	1.523465E+01	1.744472E+00	11.35669	1.737565E+01	0	3.351623E+02
LPRNGH1		22	6.629789E+00	1.108920E+01	0.00000	2.527647E+01	2	1.458554E+02
LEXTA		22	2.418614E+00	8.641313E-02	-2.62143-2.321322E+00	0-5.320950E+01	0	0.5-3.20950E+01
LRESEX		22	9.497193E-01	4.398187E-01	0.00000	1.381975E+00	0	2.089382E+01
LSRNR		22	1.3277929E+08	1.705084E+08	0.00000	5.295567E+08	36352516	2.921444E+09
LSRNPR		22	1.889046E+11	3.956950E+11	0.00000	1.421621E+12	84362452059	4.155901E+12
LSRRATIO		22	8.163519E+03	1.712407E+04	0.00000	6.4388185E+04	3651	1.795974E+05

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VARIABLE LABEL

MEANS FOR WHEAT BY STATE

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MEAN

STANDARD

DEVIATION

SUM

MAXIMUM

STD ERROR

MINIMUM

VALUE

STATE=BOLIVIA -

YEAR	22	1.976500E+03	6.493587E+00	1966.0000	1.987000E+03	1.384437E+00	4.348300E+04
CRESEXP	22	1.117800E+07	9.936757E+06	0.0000	3.193800E+07	2.118524E+06	2.459160E+06
POOR	22	3.181818E-01	4.767313E-01	0.0000	1.000000E+00	1.016395E-01	7.000000E+00
BAD	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
GOOD	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
YINGH1	22	1.140856E+00	5.583474E-01	0.9500	1.447816E+00	3.375978E-02	2.509883E+01
RNGH1	22	1.1729118E+07	1.209270E+07	329952.4070	3.849459E+07	2.578173E+06	2.580419E+08
PRNGH1	22	4.835866E+10	8.246240E+10	0.0000	2.610837E+11	1.758104E+10	1.063891E+12
LITYIELD	22	1.188495E-01	1.313302E-01	-0.1342	3.174415E-01	2.7999969E-02	2.614689E+00
BOLIVIA	22	1.000000E+00	0.000000E+00	1.0000	1.000000E+00	0.000000E+00	2.200000E+01
BRMG	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
BRMT	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
BRPR	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
BRRS	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
BRSC	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
BRSP	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
SANTAFE	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
CORDOBA	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
BUENOS	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
LAPAI2A	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
URUGUAY	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
PARAGUAY	22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
CHILE	22	1.000000E+00	9.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
EXTEN	22	7.290909E+01	9.262876E+00	48.0000	8.600000E+01	1.974852E+00	1.604000E+03
MAREA	22	3.566312E+05	0.000000E+00	356631.1818	3.566312E+05	0.000000E+00	7.845886E+06
EXTENA	22	2.044384E-04	2.597326E-05	0.0001	2.411455E-04	5.537518E-06	4.497644E-03
EXTA	22	7.15657E-04	8.360156E-05	0.0005	8.243811E-04	2.782455E-05	1.574456E-02
STRESA	22	1.045759E+07	9.487944E+06	0.0000	3.036900E+07	2.022836E+06	2.300670E+08
NYIELDA	22	1.041864E+00	2.015828E-01	0.7156	1.345682E+00	4.297760E-02	2.292100E+01
LCREEXP	22	1.437446E+01	4.813852E+00	0.0000	1.727931E+01	1.026317E+00	3.162380E+02
STRESA	22	1.427691E+01	4.797221E+00	0.0000	1.722893E+01	1.022771E+00	3.140920E+02
NYIELDA	22	2.299926E-02	1.947935E-01	-0.3346	2.969008E-01	4.153011E-02	5.059837E-01
LRNGH1	22	1.549641E+01	1.496313E+00	12.7067	1.746603E+01	3.190149E-01	3.409211E+02
LOG OF NEIGH RES*PROCISUR	22	9.121894E+00	1.238415E+01	0.0000	6.28811E+01	2.640309E+00	2.006811E+02
LOG OF 4 YEAR AVE. STATE RESEARCH	22	1.427691E+01	4.797221E+00	0.0000	7.5971-7.100878E+00	2.632106E-02	1.594846E+02
LOG OF 4 YEAR AVE. NEIGH YIELD	22	2.299926E-02	1.947935E-01	-0.3346	2.969008E-01	4.153011E-02	5.059837E-01
LOG OF NEIGH RES	22	1.549641E+01	1.496313E+00	12.7067	1.746603E+01	3.190149E-01	3.409211E+02
LOG OF NEIGH RES*PROCISUR	22	9.121894E+00	1.238415E+01	0.0000	6.28811E+01	2.640309E+00	2.006811E+02
LOG OF 4 YEAR AVE. STATE EXTENSION	22	7.249299E+00	1.234567E-01	-7.5971-7.100878E+00	2.632106E-02	1.594846E+02	
LOG OF STATE RES*NEW STATE EXT	22	1.013132E-02	3.519358E-03	0.0000	1.417905E-02	7.503297E-04	2.228889E-01
LOG OF STATE RES*NEIGH RES	22	1.956540E+08	2.089519E+08	0.0000	6.651599E+08	4.454870E+07	4.304389E+09
LOG OF STATE RES*NEIGH RES*PROCISUR	22	8.212168E+11	1.407326E+12	0.0000	4.511346E+12	3.000430E+11	1.806677E+13
LOG OF STATE RES*RATIO	22	3.174716E+04	5.136969E+04	0.0000	1.489372E+05	1.095205E+04	6.964376E+05

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MEANS FOR WHEAT BY STATE

VARIABLE	LABEL	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM
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STATE=BRNG								
YEAR		22	1.976500E+03	6.493587E+00	1.966.000	1.987000E+03	1.384437E+00	4.348300E+04
CRESEXP		22	1.105363E+05	1.163675E+05	0.000	3.415597E+05	2.480964E+04	2.431800E+06
POOR		22	4.545455E-02	2.132007E-01	0.000	1.000000E+00	4.545455E-02	1.000000E+00
BAD		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
GOOD		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
Y1NGH1		22	1.154282E+00	1.429311E-01	0.963	1.445526E+00	3.047302E-02	2.539421E+01
RNGH1		22	2.354576E+07	2.279178E+07	425925.261	7.233826E+07	4.859224E+06	5.180068E+08
PRNGH1		22	3.186527E+10	5.619919E+10	0.000	1.891004E+11	1.198171E+10	7.010359E+11
LYIELD		22	1.198856E-01	1.804574E-01	-0.147	4.254851E-01	3.847365E-02	2.637483E+00
BOLIVIA		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRMG		22	1.000000E+00	0.000000E+00	1.000	1.000000E+00	0.000000E+00	2.200000E+01
BRMT		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRPR		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRRS		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRSC		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRSP		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
SANTAFE		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
CORDOBA		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BUENOS		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
LAPAMPA		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
URUGUAY		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
PARAGUAY		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
CHILE		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
EXTEN		22	6.646364E+02	2.526229E+02	300.000	1.189000E+03	5.385939E+01	1.902200E+04
MAREA		22	1.950078E+06	1.950078E+06	1950077.864	1.950078E+06	0.000000E+00	4.290171E+07
EXTENA		22	4.433856E-04	1.295450E-04	0.000	6.997192E-04	2.761910E-05	9.754482E-03
EXTA		22	1.53E353E-03	4.554060E-04	0.001	2.054789E-03	9.709289E-05	3.384378E-02
STRESA		22	7.037909E+05	6.665675E+05	0.000	2.076753E+06	1.421127E+05	1.548340E+07
NYIELDA		22	9.989654E-01	1.833814E-01	0.645	1.260553E+00	3.909705E-02	2.197724E+01
LCRESEXP		22	8.336501E+00	5.331563E+00	0.000	1.274128E+01	1.136693E+00	1.834030E+02
LSTRESA		22	1.236208E+01	3.006733E+00	0.000	1.454632E+01	6.410377E-01	2.719657E+02
LNYIELDA		22	1.771930E-02	1.890121E-01	-0.439	2.315506E-01	4.029751E-02	3.898246E-01
LRNGH1		22	1.620818E+01	1.558294E+00	12.962	1.809686E+01	3.322294E-01	3.565799E+02
LPRNGH1		22	8.014680E+00	1.201246E+01	0.000	2.596554E+01	2.561065E+00	1.763230E+02
LEXTA		22	6.533016E+00	3.704024E-01	-7.527	6.182727E+00	7.897005E-02	1.437264E+02
LRSEX		22	2.003631E-02	8.064159E-03	0.000	2.983515E-02	1.719284E-03	4.407988E-01
LSRNRR		22	2.799550E+08	2.958138E+08	0.000	9.216818E+08	6.306772E+07	6.159011E+09
LSRNPB		22	3.948924E+11	6.986494E+11	0.000	2.333025E+12	1.489525E+11	8.687633E+12
LSRRATIO		22	8.568823E+03	1.521564E+04	0.000	5.163646E+04	3.243985E+03	1.885097E+05

MEANS FOR WHEAT BY STATE		10:09 TUESDAY, JUNE 27, 1989 15		
VARIABLE	LABEL	N	MEAN	STANDARD DEVIATION
			MINIMUM VALUE	MAXIMUM VALUE
YEAR	STATE=BRMT	22	1977	6
CRESEXP		22	0	1.966.0000 1.987000E+03
POOR		22	0	0.000000E+00
BAD		22	0	0.5.000000E+00
GOOD		22	0	0.1.000000E+00
YINGH1		22	0	0.000000E+00
RNGH1		22	0	0.000000E+00
PRNGH1		22	23462068	0.9597 0.551956E+01
LYIELD		22	27342896153	345019 4.48137E+00
BOLIVIA		22	-0	489336 5.161654E+06
BRMG		22	0	10459134298 6.015437E+11
BRMT		22	0	0.1.081757E+00
BRPR		22	0	0.000000E+00
BRRS		22	0	0.000000E+00
BRSC		22	0	0.000000E+00
BRSP		22	0	0.000000E+00
SANTAFE		22	0	0.1.000000E+00
CORDOBA		22	0	0.000000E+00
BUENOS		22	0	0.000000E+00
LAPAMPA		22	0	0.000000E+00
URUGUAY		22	0	0.000000E+00
PARAGUAY		22	0	0.000000E+00
CHILE		22	0	0.000000E+00
EXTEN		22	0	0.000000E+00
MAREA		22	0	0.000000E+00
EXTENA		22	0	0.000000E+00
NYIELD		22	0	0.000000E+00
LCRESEXP		22	0	0.000000E+00
YSTRESA	LOG OF 4 YEAR AVE. STATE RESEARCH	22	8	1.427894E+01
NYIELDA	LOG OF 4 YEAR AVE. NEIGH YIELD.	22	0	1.795306E+02
YRNGH1	LOG OF NEIGH RES	22	0	0.1.855450E+00
UPRNGH1	LOG OF NEIGH RES*PROCISUR	22	16	0.3.558287E+02
YEXTA	LOG OF 4 YEAR AVE. STATE EXTENSION	22	8	3.1.751753E+02
YRESEX	LOG OF STATE RES*NEW STATE EXT	22	-7	0.-1.607663E+02
YSRNR	LOG OF STATE RES*NEIGH RES	22	0	0.2.053533E-01
YSRNPR	LOG OF STATE RES*PROCISUR	22	0	0.000000E+00
YSRRATIO	LOG OF STATE RES*RATIO	22	0	0.000000E+00

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MEANS FOR WHEAT BY STATE

VARIABLE LABEL

VARIABLE	LABEL	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM
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STATE=BRPR

YEAR		22	1.976500E+03	6.493587E+00	1966.000	1.987000E+03	1.384437E+00	4.348300E+04
CRESEXP		22	2.852204E+06	3.032333E+06	24806.490	9.187033E+06	6.464956E+05	6.274848E+07
POOR		22	9.090909E-02	2.942449E-01	0.000	1.000000E+00	6.273323E-02	2.000000E+00
BAD		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
GOOD		22	1.363636E-01	3.512501E-01	0.000	1.000000E+00	7.488677E-02	3.000000E+00
YNGH1		22	1.164302E+00	1.586478E-01	0.954	1.486338E+00	3.382382E-02	2.561465E+01
RNGH1		22	2.146952E+07	2.124907E+07	509751.316	6.904497E+07	4.530317E+06	4.723295E+08
PRNGH1		22	3.663918E+10	6.468068E+10	0.000	2.155026E+11	1.378997E+10	8.060620E+11
LIYIELD		22	-3.084855E-02	1.520120E-01	-0.325	2.471103E-01	3.240907E-02	-6.786682E-01
BOLIVIA		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRIG		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRMT		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRPR		22	1.000000E+00	0.000000E+00	1.000	1.000000E+00	0.000000E+00	2.000000E+01
BRRS		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRSC		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRSP		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
SANTAFE		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
CORDOBA		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BUENOS		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
LAPAMPA		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
URUGUAY		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
PARAGUAY		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
CHILE		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
EXTEN		22	5.937727E+02	4.057132E+02	80.000	1.333000E+03	8.649835E+01	1.306300E+04
WAREA		22	3.488967E+06	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
EXTENA		22	1.701858E-04	1.162846E-04	0.000	3.820615E-04	2.479197E-05	3.744088E-03
EXTA		22	5.853842E-C4	4.054439E-04	0.000	1.307407E-03	2.644092E-05	1.287845E-02
STRESA		22	2.135126E+06	2.564760E+06	0.000	7.953773E+06	5.468086E+05	4.697278E+C7
NYIELD1		22	1.000794E+00	1.852011E-01	0.678	1.277513E+00	3.948501E-02	2.201748E+01
LCRESEXP		22	1.364698E+01	2.084238E+00	10.119	1.603330E+01	4.443610E-01	3.0023336E+02
LSTRESEA		22	1.263149E+01	3.576015E+00	0.000	1.588916E+01	7.624089E-01	2.778928E+02
LNYIELD1		22	1.592957E-02	1.884905E-01	-0.389	2.449153E-01	4.018631E-02	-3.504506E-01
LRNGH1		22	1.615013E+01	1.479458E+00	13.142	1.804969E+01	3.154215E-01	3.553028E+02
LPRNGH1		22	8.05779E+00	1.207717E+01	0.000	2.609624E+01	2.574862E+00	1.772711E+02
LEXTA		22	7.764087E+00	9.015327E-01	-9.430	-6.639709E+00	1.922074E-01	-1.708099E+02
LRESEX		22	8.443839E-03	6.624683E-03	0.000	2.024969E-02	1.412387E-03	1.857645E-01
LSRN1		22	3.284726E+08	3.422953E+08	5158102.503	1.106378E+09	7.297761E+07	2.226397E+09
LSRNPR		22	5.726207E+11	1.013247E+12	0.000	3.355469E+11	2.160250E+11	1.259766E+13
LSRATIO		22	1.390094E+04	2.517844E+04	0.000	8.241323E+04	5.368060E+03	3.058207E+05

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MEANS FOR WHEAT BY STATE

VARIABLE

LABEL

N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM
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STATE=BRRS						
YEAR	1.976500E+03	6.493587E+00	1966.000	1.987000E+03	1.384437E+00	4.348300E+04
CRESEXP	22.2.852204E+06	3.032333E+06	24806.490	9.187033E+06	6.464956E+05	6.274848E+07
POOR	22.1.363636E-01	3.512501E-01	0.000	1.000000E+00	7.488667E-02	3.000000E+00
BAD	22.0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
GOOD	22.0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
Y1NGH1	22.1.173503E+00	1.620342E-01	0.946	1.512614E+00	3.454580E-02	2.581706E+01
RNGH1	22.2.406656E+07	2.376648E+07	524549.470	7.576012E+07	5.067031E+06	5.294644E+08
PRNGH1	22.4.498126E+10	7.980120E+10	0.000	2.709319E+11	1.701367E+10	9.895876E+11
LIYIELD	22.7.961221E-02	1.117660E-01	-0.070	3.488482E-01	2.382860E-02	1.751469E+00
BOLIVIA	22.0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRMG	22.0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRMT	22.0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRPR	22.0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRRS	22.1.000000E+00	0.000000E+00	1.000	1.000000E+00	0.000000E+00	2.000000E+01
BRSC	22.0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRSP	22.0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
SANTAFE	22.0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
CORDOBA	22.0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BUENOS	22.0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
LAPAMPA	22.0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
URUGUAY	22.0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
PARAGUAY	22.0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
CHTLE	22.0.200000E+00	0.000000E+00	0.200	0.000000E+00	0.000000E+00	0.000000E+00
EXTEN	22.4.601364E+02	2.888005E+02	177.000	9.640000E+02	6.157248E+01	1.012300E+04
MAREA	22.4.320713E+06	0.000000E+00	4320713.000	4.320713E+06	0.000000E+00	9.505569E+07
EXTENA	22.1.064955E-04	6.684094E-05	0.000	2.231113E-04	1.425054E-05	2.342900E-03
EXTA	22.3.666745E-04	2.317255E-04	0.000	7.607541E-04	4.939679E-05	8.166840E-03
STRESA	22.2.135126E+06	2.564760E+06	0.000	7.953773E+06	5.468086E+05	4.697278E+07
NYIELDA	22.1.032910E+00	2.0122730E-01	0.687	1.3220505E+00	4.291155E-02	2.272410E+01
LCRESEXP	22.1.364698E+01	2.084238E+00	10.119	1.603330E+01	4.443610E-01	3.002336E+02
LSTRESA	22.1.263149E+01	3.576015E+00	0.000	1.588916E+01	7.624089E-01	2.778928E+02
LYIELDA	22.1.369387E-02	1.995928E-01	-0.376	2.780146E-01	4.255333E-02	3.012650E-01
LRNGH1	22.1.624538E+01	1.509866E+00	13.170	1.814308E+01	3.219046E-01	3.573984E+02
LPRNGH1	22.8.123406E+00	1.217536E+01	0.000	2.632513E+01	2.595795E+00	1.787149E+02
LEXTA	22.8.105194E+00	6.362485E-01	-8.833	-7.181200E+00	1.356486E-01	1.783143E+02
LRESEX	22.5.152036E-03	4.013317E-03	0.000	1.178289E-02	8.556420E-04	1.133448E+01
LSRNR	22.3.683497E+08	3.825032E+08	5307842.960	1.214685E+09	8.154996E+07	8.103694E+09
LSRNPR	22.7.035760E+11	1.252059E+12	0.000	4.218528E+12	2.669399E+11	1.547867E+13
LSSRATIO	22.1.484891E+04	2.638565E+04	0.000	9.080241E+04	5.625440E+03	5.266760E+05

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MEANS FOR WHEAT BY STATE

VARIABLE	LABEL	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM
STATE=BRSC								
YEAR		22	1.976500E+03	6.493587E+00	1966.000	1.987000E+03	1.384437E+00	4.348300E+04
CRESEXP		22	2.852204E+06	3.032333E+06	24806.490	9.187033E+06	6.464956E+05	6.274848E+07
POOR		22	9.09090E-02	2.942449E-01	0.000	1.000000E+00	6.273323E-02	2.000000E+00
BAD		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
GOOD		22	4.545455E-02	2.132007E-01	0.000	1.000000E+00	4.545455E-02	1.000000E+00
YNGH1		22	1.156190E+00	1.608458E-01	0.949	1.517720E+00	3.429244E-02	2.543619E+01
RNGH1		22	2.406656E+07	2.376648E+07	524549.470	7.576012E+07	5.067031E+06	5.294644E+08
PRNGH1		22	4.498126E+10	7.980120E+10	0.000	2.709319E+11	1.701367E+10	9.895876E+11
LIYIELD		22	1.991669E-01	1.491988E-01	-0.043	4.678363E-01	3.180929E-02	4.381672E+00
BOLIVIA		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRMG		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRMT		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRPR		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRRS		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRSC		22	1.000000E+00	0.000000E+00	1.000	1.000000E+00	0.000000E+00	2.200000E+01
BRSP		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
SANTAFE		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
CORDOBA		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BUENOS		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
LAPAMPA		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
URUGUAY		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
PARAGUAY		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
CHTL5		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
EXTEN		22	3.801364E+02	1.250921E-02	100.000	5.970000E+02	2.6666972E+01	8.363000E+03
MARENA		22	1.167297E+06	0.000000E+00	1167296.909	1.167297E+06	0.000000E+00	2.568053E+07
EXTENA		22	3.256552E-04	1.071639E-04	0.000	5.114380E-04	2.284742E-05	7.164415E-03
FXT4		22	1.124334E-03	3.704553E-04	0.000	1.761763E-03	7.902392F-05	2.473535E-12
STRESA		22	2.135126E+06	2.564760E+06	0.000	7.953773E+06	5.468086E+05	4.697278E+07
NYIELDA		22	1.040343E+00	2.018235E-01	0.681	1.331796E+00	4.302891E-02	2.288754E+01
LCRESEXP		22	1.364698E+01	2.084238E+00	10.119	1.603330E+01	4.443610E-01	3.002336E+02
LNTRESA		22	2.097273E-02	1.992293E-01	0.000	1.588916E+01	7.624089E-01	2.778928E+02
LYIELD		22	1.263149E+01	3.576015E+00	-0.385	2.865284E-01	4.247582E-02	4.614001E-01
LRNGH1		22	1.624538E+01	1.509856E+00	13.170	1.814308E+01	3.219046E-01	3.573984E+02
LPRNGH1		22	8.123406E+00	1.217536E+01	0.000	2.632513E+01	2.595795E+00	1.787149E+02
LEXTA		22	6.862188E+00	4.274516E-01	-8.112	-6.341441E+00	9.113298E-02	1.509681E+02
LRESEX		22	1.524290E-02	7.446224E-03	0.000	2.799292E-02	1.587540E-03	3.353439E-01
LSRNQ		22	3.683497E+08	3.825032E+08	5307842.960	1.214685E+09	8.154996E+07	8.103694E+09
LSRNPR		22	7.035760E+11	1.252059E+12	0.000	4.218528E+12	2.669399E+11	1.547867E+13
LSRRATIO		22	1.484891E+04	2.638565E+04	0.000	9.080241E+04	5.625440E+03	3.266760E+05

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MEANS FOR WHEAT BY STATE

VARIABLE	LABEL	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM
STATE=BRSP								
YEAR		22	1.976500E+03	6.493587E+00	1966.000	1.987000E+03	1.384437E+00	4.348300E+04
CRESEXP		22	6.360591E+05	5.390344E+05	44355.180	1.687169E+06	1.149225E+05	1.399330E+07
POOR		22	2.277272E-01	4.289320E-01	0.000	1.000000E+00	9.144862E-02	5.000000E+00
BAD		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
GOOD		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
YINGH1		22	1.139022E+00	1.450869E-01	0.926	1.432606E+00	3.093263E-02	2.505848E+01
RNGH1		22	2.282601E+07	2.241634E+07	300663.866	7.171467E+07	4.779179E+06	5.021722E+08
PRNGH1		22	2.734290E+10	4.905769E+10	0.000	1.653227E+11	1.045913E+10	6.015437E+11
LYIELD		22	1.289975E-01	1.235515E-01	-0.067	3.085975E-01	2.634126E-02	8.37946E+00
BOLIVIA		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRMG		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRNT		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRPR		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRRS		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRSC		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRSP		22	1.000000E+00	0.000000E+00	1.000	1.000000E+00	0.000000E+00	2.000000E+01
SANTAFE		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
CORDOBA		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BUEENOS		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
LAPAMPA		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
URUGUAY		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
PARAGUAY		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
CHILE		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
EXTEN		22	8.646364E+02	2.526229E+02	300.000	1.189000E+03	5.385939E+01	1.902200E+04
MAREA		22	2.497200E+06	0.000000E+00	2497199.818	2.497200E+06	0.000000E+00	5.493840E+07
EXTENA		22	3.462424E-04	1.011625E-04	0.000	4.761333E-04	2.156791E-05	7.617332E-03
EYTA		22	1.201309E-03	3.556292E-04	0.000	1.612405E-03	7.582039E-05	2.642800E-02
STRESA		22	7.111168E+05	5.475832E+05	44355.180	1.823025E+06	1.167451E+05	1.564571E+07
NYIELD		22	1.015755E+00	1.760009E-01	0.708	1.279799E+00	3.752352E-02	2.234662E+01
LCRESEXP		22	1.285716E+01	1.1622744E+00	10.700	1.433856E+01	2.478979E-01	2.828576E+02
LSTRESA		22	1.309635E+01	9.997453E-01	10.700	1.441601E+01	2.131464E-01	2.881196E+02
LNYIELD		22	1.069759E-03	1.755584E-01	-0.345	2.467029E-01	3.742917E-02	2.353469E-02
LRNGH1		22	1.613051E+01	1.639738E+00	12.614	1.808821E+01	3.495934E-01	3.548712E+02
LPRNGH1		22	7.962512E+00	1.193453E+01	0.000	2.583116E+01	2.544449E+00	1.751753E+02
LEXTA		22	6.780317E+00	3.704024E-01	-7.774	-6.430028E+00	7.897005E-02	1.491670E+02
LRESEX		22	1.606153E-02	5.579528E-03	0.004	2.310647E-02	1.189559E-03	3.533537E-01
LSRNR		22	3.154701E+08	3.214158E+08	3217098.790	1.028285E+09	6.852607E+07	6.940342E+09
LSRNPR		22	3.841056E+11	6.914278E+11	0.000	2.310728E+12	1.474129E+11	8.450324E+12
LSRRATIO		22	8.414063E+03	1.483836E+04	0.000	5.291016E+04	3.163549E+03	1.851094E+05

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VARIABLE	LABEL	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM
MEANS FOR WHEAT BY STATE								
STATE=BUENOS								
YEAR		22	1.97650E+03	6.493587E+00	1966.000	1.987000E+03	1.384437E+00	4.348300E+04
CRESEXP		22	5.270084E+06	6.966083E+06	0.000	2.101946E+07	1.485174E+06	1.159419E+08
POOR		22	1.363636E-01	3.512501E-01	0.000	1.000000E+00	7.488677E-02	3.000000E+00
BAD		22	9.090909E-02	2.942449E-01	0.000	1.000000E+00	6.273323E-02	2.000000E+00
GOOD		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
YNGH1		22	1.236567E+00	2.025828E-01	0.9279	1.712969E+00	4.319080E-02	2.720447E+01
RNGH1		22	1.200888E+07	1.226147E+07	227986.4630	3.753674E+07	2.614154E+06	2.641953E+08
PRNGH1		22	2.552850E+10	4.410993E+10	0.000	1.361422E+11	9.404268E+09	5.616271E+11
LYIELD		22	1.417996E-01	2.054949E-01	-0.2395	5.656537E-01	4.381165E-02	3.119592E+00
BOLIVIA		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRMG		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRMT		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRPR		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRRS		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRSC		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRSP		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
SANTAFE		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
CORDOBA		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BUENOS		22	1.000000E+00	0.000000E+00	1.000	1.000000E+00	0.000000E+00	2.200000E+01
LAPAMPA		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
URUGUAY		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
PARAGUAY		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
CHILE		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
EXTEN		22	9.322727E+01	1.164119E+01	48.000	1.060000E+02	2.481910E+00	2.051000E+03
MAREA		22	4.231286E+03	0.000000E+00	4.31.2859	4.231286E+03	0.30829E+04	4.847226E+04
EXTENA		22	2.203285E+02	2.751218E-03	0.0113	2.505149E-02	5.865617E-04	4.847226E+01
EXTA		22	7.675457E-02	6.510361E-03	0.0397	8.673496E-02	2.0276165E-03	1.693220E+00
STRESA		22	4.088144E+06	5.354900E+06	0.000	1.702375E+07	1.141668E+06	8.993918E+07
NYIELD		22	1.063886E+00	2.431447E-01	0.5870	1.416116E+00	5.183862E-02	2.340550E+01
LCRESEXP		22	1.315342E+01	4.603887E+00	0.000	1.686096E+01	9.815520E-01	2.893752E+02
LSTRESA		22	1.306143E+01	4.511156E+00	0.000	1.665012E+01	9.617818E-01	2.873514E+02
LNYIELD		22	3.464646E-02	2.451257E-01	-0.5328	3.479180E-01	5.226098E-02	7.622221E+01
LRNGH1		22	1.547716E+01	1.583204E+00	12.3370	1.744083E+01	3.375403E-01	3.404976E+02
LPRNGH1		22	8.803264E+00	1.198907E+01	0.000	2.563697E+01	2.556078E+00	1.936718E+02
LEXTA		22	2.574370E+00	1.568984E-01	-3.2263	-2.44489E+00	3.345085E-02	5.663614E+01
LRESEX		22	1.039946E+00	3.814198E-01	0.000	1.418568E+00	8.131897E-02	2.287822E+01
LSRNPR		22	1.909820E+08	2.071471E+08	0.000	6.329055E+08	4.416391E+07	4.201605E+09
LSRNPR		22	4.170542E+11	7.2456288E+11	0.000	2.284921E+12	9.175192E+12	
LSRATIO		22	1.645635E+04	2.836550E+04	0.000	1.005785E+05	6.047545E+03	3.620398E+05

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MEANS FOR WHEAT BY STATE

VARIABLE	LABEL	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM
STATE=CHILE								
YEAR		22	1.976500E+03	6.493587E+00	1966.	000	1.987000E+03	1.384437E+00
CRESEXP		22	7.550539E+06	5.440926E+06	643479.	760	1.697933E+07	1.160009E+06
POOR		22	2.727273E-01	4.558423E-01	0.	000	1.000000E+00	9.718591E-02
BAD		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	6.020000E+00
GOOD		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0.000000E+00
YNGH1		22	1.200068E+00	1.773820E-01	0.	000	0.000000E+00	0.000000E+00
RNGH1		22	1.094414E+07	1.170726E+07	0.	937	1.603261E+00	3.781796E-02
PRNGH1		22	4.815556E+10	8.225922E+10	123516.	312	3.676224E+07	2.495996E+06
LITYIELD		22	2.629175E-02	2.106719E-01	0.	000	2.219508E+11	1.753773E+10
BOLIVIA		22	0.000000E+00	0.000000E+00	-0.	319	5.139400E-01	4.491541E-02
BRMG		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0.000000E+00
BRNT		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0.000000E+00
BRPR		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0.000000E+00
BRRS		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0.000000E+00
BRSC		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0.000000E+00
BRSP		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0.000000E+00
SANTAFE		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0.000000E+00
CORDOBA		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0.000000E+00
BUENOS		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0.000000E+00
LAPAMPA		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0.000000E+00
URUGUAY		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0.000000E+00
PARAGUAY		22	0.000000E+00	0.000000E+00	0.	000	0.000000E+00	0.000000E+00
CHILE		22	1.000000E+00	0.000000E+00	1.	000	1.000000E+20	0.000000E+00
EXTEN		22	3.245408E+05	1.064355E+05	106641.	400	5.626471E+05	2.69213E+04
MAREA		22	6.059986E+05	0.000000E+00	605998.	636	6.059986E+05	0.000000E+00
EXTENA		22	5.355472E-01	1.756366E-01	0.	176	9.284627E-01	3.744585E-02
EXTA		22	1.766091E+00	5.953241E-01	0.	616	2.733925E+00	1.269385E-01
STRESA		22	5.791176E+06	4.737457E+06	643479.	760	1.477750E+07	1.010296E+07
NYIELDA		22	1.150746E+00	1.422436E-01	0.	982	1.457947E+00	3.032643E-02
LCRESEXP		22	1.547202E+01	9.891742E-01	13.	375	1.664751E+01	2.108927E-01
LSSTRESA		22	1.512334E+01	1.076535E+00	13.	375	1.650862E+01	2.295180E-01
LNYIELDA		22	1.333348E+01	1.209093E-01	-0.	018	3.770292E-01	2.577795E-02
LRNGH1		22	1.525993E+01	1.753479E+00	11.	724	1.741998E+01	3.738431E-01
LPRNGH1		22	9.032215E+00	1.229388E+01	0.	000	2.612572E+01	2.621065E+00
LEXTA		22	4.953560E-01	4.261332E-01	-0.	485	1.005701E+00	9.085190E-02
LRESEX		22	2.716204E+01	9.926773E+00	8.	238	4.113615E+01	2.116395E+00
STATE RES"NEW STATE EXT		22	1.784901E+08	1.947999E+08	1651986.	930	6.119997E+08	4.153149E+07
STATE RES"NEIGH RES		22	7.938298E+11	1.359475E+12	0.	000	3.693594E+12	2.898411E+11
STATE RES"PROCISUR		22	3.204914E+04	5.203798E+04	0.	000	1.656718E+05	1.109453E+04
STATE RES"RATIO		22						7.050810E+05

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MEANS FOR WHEAT BY STATE
N MEAN STANDARD DEVIATION
MINIMUM VALUE SUM
OF MEAN

STATE=CORDOBA.					
YEAR	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN
22 1.976500E+03	6.493587E+00	1966.0000	1.987000E+03	1.384437E+00	4.348300E+04
22 4.255775E+06	4.925922E+06	0.0000	1.318480E+07	1.050210E+06	9.362705E+07
POOR	0.000000E+00	0.0000	1.000000E+00	9.144862E-02	5.000000E+00
BAD	0.000000E+00	0.0000	0.000000E+00	4.000000E+00	0.000000E+00
GOOD	0.000000E+00	0.0000	1.000000E+00	4.545455E-02	1.000000E+00
YNGH1	2.132007E-02	2.132007E-01	0.0000	1.000000E+00	1.000000E+00
RNGH1	1.191123E+00	1.807980E-01	0.9394	1.600840E+00	3.854626E-02
PRNGH1	1.656402E+07	1.718491E+07	4.10773.0090	5.420931E+07	3.663834E+06
LIYIELD	3.319492E-01	2.805031E-01	0.0000	2.271171E+11	1.575861E+10
BOLIVIA	0.000000E+00	0.000000E+00	0.000000E+00	5.980347E-02	7.302883E+00
BRMG	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00
BRMT	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00
BRPR	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00
BRRS	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00
BRSC	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00
BRSP	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00
SANTAFE	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00
CORDOBA	0.000000E+00	0.000000E+00	1.0000	1.000000E+00	0.000000E+00
BUEBOS	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00
LAPAMPA	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00
URUGUAY	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00
PARAGUAY	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00
CHILE	0.000000E+00	0.000000E+00	0.0000	2.000000E+00	0.000000E+00
EXTEN	3.792223E+00	3.792223E+00	53.0000	6.500000E+01	2.200000E+01
MAREA	1.587965E+03	0.000000E+00	0.0000	0.000000E+00	0.000000E+00
EXTENA	3.715447E-02	2.388102E-03	0.0334	4.093289E+03	1.298523E+04
EXTIA	2.297258E-01	7.921631E-02	0.116P	1.426374E-01	1.28897E-03
STRESA	2.448525E+06	2.842389E+06	0.0000	8.160163E+06	6.05994E+05
NYIELDA	1.028048E+00	1.917693E-01	0.7306	1.348665E+00	4.088353E-02
LCRESEXP	1.300491E+01	4.575162E+00	0.0000	1.639458E+01	9.754279E-01
LSRESA	2.262406E+01	4.400771E+00	0.0000	1.591477E+01	9.382475E-01
LNIELDA	1.077564E-02	1.890496E-01	-0.3139	2.991151E-01	4.030551E-02
LRNGH1	1.584488E+01	1.500569E+00	12.9258	1.780836E+01	3.199225E-01
LPRNGH1	9.004455E+00	1.225657E+01	0.0000	2.614873E+01	3.485873E+02
LEXTA	2.044139E+00	6.176380E-02	-2.1472-1.947464E+00	1.316809E-02	4.497106E+01
LRESEX	1.660785E+00	6.088823E-01	0.0000	2.270010E+00	1.298141E-01
LSRNIR	2.601205E+08	2.849997E+08	0.0000	8.887387E+08	6.076214E+07
LSRNPRI	6.974036E+11	1.195948E+12	0.0000	3.717737E+12	1.534288E+13
LSRRATIO	2.058450E+04	3.550389E+04	0.0000	1.251674E+05	4.528591E+05

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MEANS FOR WHEAT BY STATE

VARIABLE	LABEL	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM
STATE=LAPAMPA --								
YEAR		22	1.976500E+03	6.493587E+00	1966.0000	1.987000E+03	1.384437E+00	4.348300E+04
CRESEXP		22	3.825028E+05	6.053488E+05	0.0000	1.785217E+06	8.415062E+06	
POOR		22	4.545455E-02	2.132007E-01	0.0000	1.000000E+00	4.545455E-02	1.000000E+00
BAD		22	1.363636E-01	3.512501E-01	0.0000	1.000000E+00	7.488677E-02	3.000000E+00
GOOD		22	9.090909E-02	2.942449E-01	0.0000	1.000000E+00	6.273323E-02	2.000000E+00
YINGH1		22	1.236573E+00	1.983006E-01	0.8926	1.708400E+00	4.227782E-02	2.720461E+01
RNGH1		22	1.455003E+07	1.525909E+07	337160.2580	4.636802E+07	3.253036E+06	3.201066E+08
PRNGH1		22	2.644737E+10	4.386728E+10	0.0000	1.306036E+11	9.352535E+09	5.818422E+11
L1YIELD		22	2.305680E-01	2.898799E-01	-0.3853	7.917327E-01	6.18260E-02	5.072495E+00
BOLIVIA		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
BRMG		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
BRMT		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
BRPR		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
BRRS		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
BRSC		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
BRSP		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
SANTAFE		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
CORDOBA		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
BUENOS		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
LAPAMPA		22	1.000000E+00	0.000000E+00	1.0000	1.000000E+00	0.000000E+00	2.200000E+00
URUGUAY		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
PARAGUAY		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
CHILE		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
EXTEN		22	1.695455E+01	3.670698E+00	12.0000	2.600000E+01	7.825955E-01	3.730000E+02
MAREA		22	5.7779541E+02	0.000000E+00	577.9541	5.7779541E+02	0.000000E+00	1.271499E+01
EXTENA		22	2.933545E-02	6.351194E-03	0.0208	4.498627E-02	1.354079E-03	6.453800E-01
EYTA		22	1.026741E-01	2.052377E-02	0.0779	1.4956559E-01	4.375753E-03	2.258820E+00
STRESA		22	2.438183E+05	3.892842E+05	0.0000	1.206772E+06	8.299568E+04	5.364002E+06
NYIELD		22	1.115076E+00	1.695588E-01	0.8373	1.429405E+00	3.615007E-02	2.453167E+01
LCREEXP		22	5.477996E+00	6.771856E+00	0.0000	1.439505E+01	1.443765E+00	1.205159E+02
LISTRESA		22	6.620195E+00	6.315952E+00	0.0000	1.400346E+01	1.346566E+00	1.456443E+02
LNYIELD		22	9.784118E-02	1.526686E-01	-0.1775	3.572580E-01	3.254905E-02	2.152506E+00
LRNGH1		22	1.568265E+01	1.531242E+00	12.7284	1.765212E+01	3.264619E-01	3.450184E+02
LPRNGH1		22	8.819187E+00	1.201167E+01	0.0000	2.559543E+01	2.560897E+00	1.940221E+02
LEXTA		22	2.293280E+00	1.842155E-01	-2.5528	1.899350E+00	3.927488E-02	5.045215E+01
LRESEX		22	7.514555E-01	7.675933E-01	0.0000	2.054034E+00	1.636514E-01	1.653202E+01
LSRNRR		22	1.684541E+08	2.364394E+08	0.0000	6.674700E+08	5.040905E+07	3.705898E+09
LSRNPR		22	3.635281E+11	6.081188E+11	0.0000	1.865009E+12	1.296514E+11	7.997618E+12
LSSRATIO		22	1.203066E+04	2.028630E+04	0.0000	6.004037E+04	4.325054E+03	2.646745E+05

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MEANS FOR WHEAT BY STATE

VARIABLE	LABEL	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM
----- STATE=PARAGUAY -----								
YEAR		22	1.97650E+03	6.493587E+00	1966.000	1.987000E+03	1.384437E+00	4.348300E+04
CRESEXP		22	3.712770E+06	4.512469E+06	81504.720	1.655196E+07	9.620617E+05	8.168095E+07
POOR		22	9.090909E-02	2.942449E-01	0.000	1.000000E+00	6.273323E-02	2.000000E+00
BAD		22	4.545455E-02	2.132007E-01	0.000	1.000000E+00	4.545455E-02	1.000000E+00
GOOD		22	4.545455E-02	2.132007E-01	0.000	1.000000E+00	4.545455E-02	1.000000E+00
YINGH1		22	1.151983E+00	1.478880E-01	0.962	1.453348E+00	3.153010E-02	2.534362E+01
RNGH1		22	2.060895E+07	1.994621E+07	453053.086	6.164004E+07	4.252546E+06	4.533970E+08
PRNGH1		22	5.516594E+10	9.602346E+10	0.000	3.725776E+11	2.047227E+10	1.213651E+12
LYTELD		22	4.240297E-02	2.352131E-01	-0.658	3.923083E-01	5.014761E-02	9.328653E-01
BOLIVIA		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRMG		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRMT		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRPR		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRRG		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRSC		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRSP		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
SANTAFE		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
CORDOBA		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BUEBOS		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
LAPAMPA		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
URUGUAY		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
PARAGUAY		22	1.000000E+00	0.000000E+00	1.000	1.000000E+00	0.000000E+00	2.200000E+01
CHILE		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
EXTEN		22	4.597579E+05	2.243566E+05	117349.206	6.384365E+05	4.783299E+04	1.011467E+07
MAREA		22	6.134318E+05	0.000000E+00	613431.918	6.134318E+05	0.000000E+00	1.349550E+07
EXTENA		22	7.494850E-01	3.657401E-01	0.191	1.040762E+00	7.797605E-02	1.648867E+01
EXTA		22	2.589704E+00	1.245260E+00	0.675	3.642677E+00	2.654903E-01	5.69734E+01
STRESA		22	3.341220E+06	4.024356E+06	81504.720	1.493931E+07	8.577956E+05	7.350685E+07
NYIELDA		22	1.045066E+00	1.937115E-01	0.717	1.328403E+00	4.129942E-02	2.299144E+01
LCRESEXP		22	1.431503E+01	1.481001E+00	11.308	1.662202E+01	3.157504E-01	3.149307E+02
LSTRESA		22	1.422164E+01	1.464951E+00	11.308	1.651951E+01	3.123287E-01	3.128762E+02
LYNIELDA		22	2.734637E-02	1.883747E-01	-0.333	2.839777E-01	4.016161E-02	6.016202E-01
LOG OF NEIGH RES		22	1.608240E+01	1.526705E+00	13.024	1.793682E+01	3.254947E-01	5.38129E+02
LPRNGH1		22	9.121279E+00	1.240582E+01	0.000	2.664371E+01	2.644929E+00	2.006681E+02
LEXTA		22	7.877266E-01	6.451282E-01	-0.391	1.292716E+00	1.375418E-01	1.732999E+01
LRESEX		22	3.837619E+01	2.043353E+01	8.844	6.017506E+01	4.356442E+00	8.442761E+02
LSRNR		22	3.205875E+08	3.266702E+08	5123312.862	1.024582E+09	6.964631E+07	7.052925E+09
LSRNPR		22	8.749403E+11	1.546435E+12	0.000	6.112239E+12	3.297011E+11	1.924869E+13
LOG OF STATE RES RATIO		22	1.092990E+04	3.501360E+04	0.000	1.078152E+05	7.464925E+03	4.640438E+05

VARIABLE	LABEL	MEANS FOR WHEAT BY STATE			MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM
		N	MEAN	STANDARD DEVIATION				
STATE=SANTAFE --								
YEAR		22	1.976500E+03	6.493587E+00	1966.0000	1.987000E+03	1.384437E+00	4.348300E+04
CRESEXP		22	6.233146E+05	8.926474E+05	0.0000	2.509037E+06	1.903131E+05	1.371292E+07
POOR		22	3.636364E-01	4.923660E-01	0.0000	1.000000E+00	1.049728E-01	8.000000E+00
BAD		22	4.545455E-02	2.132007E-01	0.0000	1.000000E+00	4.545455E-02	1.000000E+00
GOOD		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
Y1NGH1		22	1.179252E+00	1.743384E-01	0.9385	0.596027E+00	2.594255E+01	
RNGH1		22	1.904285E+07	1.952033E+07	403373.9320	6.074405E+07	4.161749E+06	4.190683E+08
PRNGH1		22	4.080103E+10	6.951190E+10	0.0000	2.132805E+11	1.481999E+10	8.976226E+11
L1YIELD		22	3.587858E-01	2.480429E-01	-0.2039	7.343359E-01	5.288293E-02	7.893228E+00
BOLIVIA		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
BRNG		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
BRMT		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
BRPR		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
BRRS		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
BRSC		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
BRSP		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
SANTAFE		22	1.000000E+00	0.000000E+00	1.0000	1.000000E+00	0.000000E+00	2.200000E+01
CORDOBA		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
BUENOS		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
LAPAMPA		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
URUGUAY		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
PARAGUAY		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
CHI:IE		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
EXTEN		22	4.959091E+01	3.762713E+00	39.0000	5.400000E+01	8.022131E-01	1.091000E+03
MAREA		22	1.925747E+03	0.000000E+00	1925.7468	1.925747E+03	0.000000E+00	4.236643E+04
EXTENA		22	2.575152E-02	1.953898E-03	0.0203	2.804107E-02	4.165725E-04	5.665233E-01
FYTA		22	8.998070E-02	6.761394E-03	0.0709	9.814374E-02	1.441524E-03	1.279751E+01
STRESA		22	5.462799E+05	6.812841E+05	0.0000	2.102469E+06	1.452503E+05	1.201216E+07
NYIELDA		22	1.011284E+00	2.145268E-01	0.5781	1.325416E+00	4.573726E-02	2.224822E+01
LCRESEXP		22	7.742971E+00	6.708266E+00	0.0000	1.473541E+01	1.430207E+00	1.703454E+02
STRESA		22	1.108936E+01	4.042263E+00	0.0000	1.455862E+01	8.618134E-01	2.439659E+02
NYIELDA		22	1.190874E-02	2.248993E-01	-0.5480	2.817261E-01	4.794868E-02	2.619924E-01
PRNGH1		22	1.596634E+01	1.541555E+00	12.9076	1.792218E+01	3.286607E-01	3.512594E+02
LEXTA		22	8.978154E+00	1.222372E+01	0.0000	2.608587E+01	2.606106E+00	1.975194E+02
LRESEX		22	2.411001E+00	8.005553E-02	-2.6467	2.321322E+00	1.706779E-02	5.304202E+01
LSRNR		22	1.022367E+00	3.894961E-01	0.0000	1.375918E+00	8.304084E-02	2.249208E+01
LSRNPR		22	2.498515E+08	2.999344E+08	0.0000	8.9508885E+08	6.394623E+07	5.496733E+09
LSRRATIO		22	5.820865E+11	9.983077E+11	0.0000	3.132739E+12	2.128399E+11	1.280590E+13
		22	1.473299E+04	2.517095E+04	0.0000	8.670769E+04	5.366464E+03	3.241257E+05

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MEANS FOR WHEAT BY STATE

VARIABLE	LABEL	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM
---- STATE=URUGUAY ----								
YEAR		22	1.976500E+03	6.493587E+00	1966.	000 1.987000E+03	1.384437E+00	4.348300E+04
GRESEXP		22	1.204401E+06	8.088318E+05	130689.	000 2.735007E+06	2.724435E+05	2.649683E+07
POOR		22	2.272727E-01	4.289320E-01	0.000	1.000000E+00	9.144862E-02	5.000000E+00
BAD		22	4.545455E-02	2.132007E-01	0.000	1.000000E+00	4.545455E-02	1.000000E+00
GOOD		22	4.545455E-02	2.132007E-01	0.000	1.000000E+00	4.545455E-02	1.000000E+00
YNGH1		22	1.158763E+00	1.480320E-01	0.951	1.466846E+00	3.156053E-02	2.549278E+01
RNGH1		22	2.571436E+07	2.599924E+07	418666.	960 8.221215E+07	5.543058E+06	5.657160E+08
PRNGH1		22	6.010589E+10	1.035821E+11	0.000	3.151954E+11	2.208379E+10	1.322329E+12
LIVFIELD		22	1.575866E-01	2.759121E-01	-0.513	5.986143E-01	5.882465E-02	3.466905E+00
BOLIVIA		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRMG		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRMT		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRPR		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRRS		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRSC		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRSP		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
SANTAFE		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
CORDOBA		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BUENOS		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
LAPAMPA		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
URUGUAY		22	1.000000E+00	0.000000E+00	1.000	1.000000E+00	0.000000E+00	2.200000E+01
PARAGUAY		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
CHILE		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
EXTEN		0						
AREA A		22	2.900000E-06	0.000000E+00	0.000	2.900000E-06	0.000000E+00	6.380000E-05
EXTENA		22	1.015000E-05	0.000000E+00	0.000	1.015000E-05	0.000000E+00	2.232000E-04
STRESA		22	6.962831E+05	5.471936E+05	0.000	1.816649E+06	1.166621E+05	1.531823E+07
NYIELD1		22	1.096307E+00	1.701032E-01	0.810	1.355727E+00	3.626613E-02	2.411876E+01
LCRESEXP		22	3.369796E+01	8.952318E-01	11.781	1.482164E+01	1.908841E-01	3.013552E+02
LSTRESA		22	1.255157E+01	2.954123E+00	0.000	1.441250E+01	6.298211E-01	2.761345E+02
LNYIELD1		22	8.011035E-02	1.587668E-01	-0.210	3.043379E-01	3.384920E-02	1.762428E+00
LOG OF 4 YEAR AVE. NEIGH YIELD		22	1.623328E+01	1.615664E+00	12.945	1.822481E+01	3.444607E-01	3.571322E+02
LOG OF NEIGH RES		22	8.215153E+00	1.231337E+01	0.000	2.647646E+01	2.625219E+00	1.807334E+02
LOG OF NEIGH RES*PROCISUR		22	1.149804E+01	0.000000E+00	-11.498	-1.149804E+01	0.000000E+00	2.529568E+02
LOG OF 4 YEAR AVE. STATE EXTENSION		22	1.273984E-04	2.998435E-05	0.000	1.462869E-04	6.392684E-06	2.802765E-03
LOG OF STATE RES*NEW STATE EXT		22	3.709652E+08	3.843754E+08	4932137.	830 1.218519E+09	8.194911E+07	8.161234E+09
LOG OF STATE RES*NEIGH RES		22	8.749139E+11	1.511337E+12	0.000	4.627455E+12	3.222181E+11	1.924811E+13
LOG OF STATE RES*PROCISUR		22	1.697715E+04	2.913091E+04	0.000	8.656848E+04	6.210730E+03	3.734972E+03

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MEANS FOR SOY BY STATE

YEAR	LABEL	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM
STATE=BOLIVIA								
22	1.976500E+03	6.493587E+00	1966.0000	1.987000E+03	1.384437E+00	4.348300E+04		
>RESEXP		22	1.117800E+07	9.936757E+06	0.0000	3.193800E+07	2.459160E+08	
>DOR		22	2.727273E-01	4.558423E-01	0.0000	1.000000E+00	9.718591E-02	6.000000E+00
>AD		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
>ODD		22	4.545455E-02	2.132007E-01	0.0000	1.000000E+00	4.545455E-02	1.000000E+00
>INGH1		22	9.952574E-01	2.805377E-01	0.6246	1.418063E+00	5.981084E-02	2.189566E+01
>NGH1		22	1.018084E+07	1.161785E+07	124496.6370	3.699845E+07	2.476933E+06	2.239785E+08
>RNGH1		22	4.998375E+10	9.628775E+10	0.0000	3.363467E+11	2.052862E+10	1.099642E+12
>YIELD		22	1.755477E-01	1.813453E-01	-0.2289	4.146598E-01	3.866294E-02	3.8662049E+00
>BOLIVIA		22	1.000000E+00	0.000000E+00	1.0000	1.000000E+00	0.000000E+00	2.200000E+01
>RMG		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
>RMT		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
>RPR		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
>IRRS		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
>IRSC		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
>IRSP		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
>SANTAFE		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
>JORDOBA		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
>BUENOS		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
>APAMPA		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
>URUGUAY		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
>ARAGUAY		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
>TITLE		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
>XTEN		22	7.290909E+01	9.262876E+00	48.0000	8.600000E+01	1.974852E+00	1.604000E+03
>AREA		22	3.566312E+05	0.000000E+00	356631.1818	3.566312E+05	0.000000E+00	7.845886E+06
>XTENA		22	2.044384E-04	2.597326E-05	0.0001	2.411455E-04	5.537518E-06	4.497644E-03
>XTA		22	7.145146E-04	8.96978E-05	2.0005	8.313911E-04	1.719246E-25	1.571922E-22
>STRESA		22	1.008920E+07	9.273397E+06	0.0000	2.958450E+07	1.977095E+06	2.219625E+08
>NYIELD		22	1.034738E+00	1.871544E-01	0.6246	1.322355E+00	3.990144E-02	2.276425E+01
>CRESEXP		22	1.437446E+01	4.813852E+00	0.0000	1.727931E+01	1.026317E+00	3.162380E+02
>STRESA		22	1.415642E+01	4.824563E+00	0.0000	1.720276E+01	1.028600E+00	3.114411E+02
>NYIELD		22	1.771530E-02	1.885579E-01	-0.4706	2.795503E-01	4.020069E-02	3.897367E-01
>RNGH1		22	1.509099E+01	1.810846E+00	11.7320	1.742639E+01	3.860733E-01	3.320018E+02
>EXTA		22	8.996742E+00	1.223854E+01	0.0000	2.654141E+01	2.609266E+00	1.979283E+02
>RESEX		22	7.250380E+00	1.184458E-01	-7.5374	-7.092410E+00	2.525272E-02	1.595083E+02
>SRNR		22	1.001967E-02	3.491848E-03	0.0000	1.430222E-02	7.44646E-04	2.204327E-01
>SRNP		22	1.708166E+08	2.001065E+08	0.0000	6.393076E+08	4.266285E+09	3.757966E+09
>SRATIO		22	8.503928E+11	1.645145E+12	0.0000	5.811838E+12	3.507461E+11	1.870864E+13
		22	3.477589E+04	6.416425E+04	0.0000	2.185386E+05	1.367986E+04	7.650696E+05

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MEANS FOR SOY BY STATE

VARIABLE	LABEL	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM
STATE=BRMG								
YEAR		22	1.97650E+03	6.493587E+00	1966.000	1.987000E+03	160901	1.4348300E+04
CRESXP		22	9.456274E+05	7.547214E+05	62393.790	2.140192E+06	2.080380E+07	0
POOR		22	2.2722727E-01	4.289320E-01	0.000	1.000000E+00	0	5.000000E+00
BAD		22	1.818182E-01	3.947710E-01	0.000	1.000000E+00	0	4.000000E+00
GOOD		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0	0.000000E+00
YINGH1		22	9.203480E-01	2.421596E-01	0.591	1.280357E+00	0	2.024766E+01
RNGH1		22	1.949854E+07	2.019670E+07	74581.605	6.467340E+07	4305951	4.289679E+08
PRNGH1		22	1.086964E+10	2.096217E+10	0.000	6.689600E+10	4469149104	2.391321E+11
LIYIELD		22	3.797518E-01	3.986171E-01	-0.898	8.212559E-01	0	8.354539E+00
BOLIVIA		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0	0.000000E+00
BRMG		22	1.00000E+00	0.00000E+00	1.000	1.00000E+00	0	2.20000E+01
BRMT		22	0.00000E+00	0.00000E+00	0.000	0.00000E+00	0	0.00000E+00
BRPR		22	0.00000E+00	0.00000E+00	0.000	0.00000E+00	0	0.00000E+00
BRRS		22	0.00000E+00	0.00000E+00	0.000	0.00000E+00	0	0.00000E+00
BRSC		22	0.00000E+00	0.00000E+00	0.000	0.00000E+00	0	0.00000E+00
BRSP		22	0.00000E+00	0.00000E+00	0.000	0.00000E+00	0	0.00000E+00
SANTAFE		22	0.00000E+00	0.00000E+00	0.000	0.00000E+00	0	0.00000E+00
CORDOBA		22	0.00000E+00	0.00000E+00	0.000	0.00000E+00	0	0.00000E+00
BUENOS		22	0.00000E+00	0.00000E+00	0.000	0.00000E+00	0	0.00000E+00
LAPAMPA		22	0.00000E+00	0.00000E+00	0.000	0.00000E+00	0	0.00000E+00
URUGUAY		22	0.00000E+00	0.00000E+00	0.000	0.00000E+00	0	0.00000E+00
PARAGUAY		22	0.00000E+00	0.00000E+00	0.000	0.00000E+00	0	0.00000E+00
CHILE		22	0.20000E+00	0.00000E+00	0.000	0.00000E+00	0	0.00000E+00
EXTEN		22	8.646354E+02	2.526229E+02	300.000	1.189000E+03	54	1.90220E+04
MAREA		22	1.950078E+06	0.00000E+00	1950077.864	1.950078E+06	0	4.290171E+07
EXTENA		22	4.433856E-04	1.295450E-04	0.000	6.097192E-04	0	9.754482E-03
EXTA		22	1.520196E-03	4.657049E-04	0.001	2.091711E-03	0	3.344431E-02
STRESA		22	6.586178E+05	7.156952E+05	13416.200	2.359312E+06	152587	1.448959E+07
NYIELDA		22	1.003571E+00	1.717799E-01	0.642	1.259261E+01	0	2.207874E+01
LCRESEXP		22	1.325629E+01	1.183704E+00	11.041	1.457641E+01	0	2.916384E+02
LSTRESA		22	1.262275E+01	1.446952E+00	9.504	1.467388E+01	0	2.772106E+02
LNYIELDA		22	1.110504E-02	1.779201E-01	-0.443	2.305252E-01	0	2.443110E-01
LRNGH1		22	1.577239E+01	1.972629E+00	11.220	1.798486E+01	0	3.469926E+02
LOG OF NEIGH RES*PROCISUR		22	7.622716E+00	1.143798E+01	0.000	2.492640E+01	0	1.678098E+02
LOG OF 4 YEAR AVE. STATE RESEARCH		22	-6.548437E+00	3.809178E-01	-7.527	-6.169773E+00	0	1.440656E+02
LOG OF 4 YEAR AVE. NEIGH YIELD		22	1.979760E-02	7.673478E-03	0.006	3.042293E-02	0	4.355471E-01
LOG OF NEIGH RES		22	2.775585E+08	2.952963E+08	823471.986	9.427057E+08	622957389	6.106287E+09
LOG OF STATE RES*NEIGH RES*PROCISUR		22	1.572308E+11	3.038234E+11	0.000	9.633747E+11	64775363386	3.459078E+12
LOG OF STATE RES*RATIO		22	3.535810E+03	6.532171E+03	0.000	2.547608E+04	1393	7.7778783E+04

VARIABLE	LABEL	MEANS FOR SOY BY STATE			10:09 TUESDAY, JUNE 27, 1989 29		
		N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN
STATE=BRM1							
YEAR		22	1.976500E+03	6.493587E+00	1966.0000	1.987000E+03	4.348300E+04
CRESEXP		22	1.445003E+05	2.070151E+05	0.0000	6.510128E+05	44136 3.179006E+06
POOR		22	9.090909E-02	2.942449E-01	0.0000	1.000000E+00	0 2.000000E+00
BAD		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0 0.000000E+00
GOOD		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0 0.000000E+00
YNGH1		22	1.16397E+00	2.328676E-01	0.7443	1.459763E+00	2.456074E+01
RNGH1		22	2.117709E+07	2.156143E+07	139412	9.580 6.934402E+07	4596912 4.658960E+08
PRNGH1		22	1.141341E+10	2.255807E+10	0.0000	7.138313E+10	4809397729 2.510951E+11
LITYIELD		9	7.879408E-03	7.769377E-02	-0.0857	1.114273E-01	0 7.091467E-02
BOLIVIA		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0 0.000000E+00
BRMG		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0 0.000000E+00
BRNT		22	1.000000E+00	0.000000E+00	1.0000	1.000000E+00	0 2.200000E+01
BRPR		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0 0.000000E+00
BRRS		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0 0.000000E+00
BRSC		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0 0.000000E+00
BRSP		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0 0.000000E+00
SANTAFE		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0 0.000000E+00
CORDOBA		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0 0.000000E+00
BUELOS		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0 0.000000E+00
LAPAMPA		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0 0.000000E+00
URUGUAY		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0 0.000000E+00
PARAGUAY		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0 0.000000E+00
CHILE		22	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0 0.000000E+00
EXTEN		22	1.479091E+02	7.979432E+01	11.0000	2.920000E+02	17 3.254000E+03
MAREA		22	5.870395E+05	0.000000E+00	587039.5455	5.870395E+05	0 1.291487E+07
EXTENA		22	2.519576E-04	1.359267E-04	0.0000	4.974111E-04	0 5.543068E-03
EYTA		22	8.490391E-04	4.537492E-04	0.0001	1.605428E-03	0 1.848052E-02
STRESA		22	3.943875E+05	7.306610E+05	0.0000	2.486760E+06	155777 8.676525E+01
NYTELDA		22	1.067356E+00	1.636459E-01	0.7443	1.315573E+00	0 2.348184E+01
LCRESEXPL		22	8.217629E+00	5.339144E+00	0.0000	1.338628E+01	0 1.807878E+02
LSSTRESA		22	8.059423E+00	5.567107E+00	0.0000	1.472649E+01	0 1.773073E+02
LNFIELDA		22	5.365931E-02	1.566332E-01	-0.2953	2.742722E-01	0 1.180505E+00
RNGH1		22	1.593770E+01	1.832252E+00	11.8452	1.805459E+01	0 3.506293E+02
LPRNGH1		22	7.628624E+00	1.144114E+01	0.0000	2.499133E+01	0 2.1678297E+02
LEXTA		22	7.344746E+00	8.860835E-01	-9.6322	-6.385143E+01	0 -1.615844E+02
LRESEXPL		22	9.111459E-03	7.536228E-03	0.0000	2.483517E-02	0 2.004521E+01
LSRNRL		22	2.571822E+08	2.915662E+08	0.0000	9.282588E+08	621622119 5.658007E+09
LSRNPR		22	1.475828E+11	2.946092E+11	0.0000	9.555549E+11	62810886200 3.246822E+12
LSRRATIO		22	3.019556E+03	5.739513E+03	0.0000	2.199642E+04	1224 6.643024E+04

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MEANS FOR SOY BY STATE
N MEAN STANDARD DEVIATION
MAXIMUM VALUE
STD ERROR OF MEAN

VARIABLE	LABEL	STATE=BKPR
YEAR		1966.000 1.987000E+03
CRESEXP		0.000 1.086569E+07
POOR		0.000 1.000000E+00
BAD		0.000 1.000000E+00
GOOD		0.000 0.000000E+00
YNGH1		0.627 1.300338E+00
RNGH1		114455.442 5.736853E+07
PRNGH1		0.000 7.222891E+10
LNYIELD		-0.103 5.126129E-01
BOLIVIA		0.000 0.000000E+00
BRMG		0.000 0.000000E+00
BRMT		0.000 0.000000E+00
BRPR		1.000 1.000000E+00
BRRS		0.000 0.000000E+00
BRSC		0.000 0.000000E+00
BRSP		0.000 0.000000E+00
SANTAFE		0.000 0.000000E+00
CORDOBA		0.000 0.000000E+00
BUELOS		0.000 0.000000E+00
LAPAMPA		0.000 0.000000E+00
URUGUAY		0.000 0.000000E+00
PARAGUAY		0.000 0.000000E+00
CHILE		0.000 0.000000E+00
EXTEN		5.937727E+02 4.057132E+02
MAREA		80.000 1.333000E+03
EXTENA		3488967.091 3.488967E+06
EXTA		0.000 3.820615E-04
STRESA		0.000 1.277599E-03
NYIELDA		0.000 5.804181E+06
LCRESEXP		0.627 1.268745E+00
LSTRESA		0.000 1.620112E+01
LNYIELD		0.000 1.557409E+01
LRNGH1		-0.467 2.380280E-01
LPRNGH1		11.648 1.786501E+01
LEXTA		0.000 2.50031E+01
LRESEX		-9.430 -6.662773E+00
LSRNR		0.000 1.931203E-02
LSRNPR		0.000 9.294345E+08
LSRATIO		0.000 1.170189E+12
		22 4.757585E+03 8.853261E+03
		22 4.757585E+03 8.853261E+03

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VARIABLE	LABEL	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM
STATE=BRRS								
YEAR		22	1.976500E+03	6.493587E+00	1966.000	1.987000E+03	1.384437E+00	4.348300E+04
CRESEXP		22	3.023824E+06	3.583352E+06	0.000	1.086569E+07	7.639733E+05	6.652413E+07
POOR		22	9.090909E-02	2.942449E-01	0.000	1.000000E+00	6.273323E-02	2.000000E+00
BAD		22	1.818182E-01	3.947710E-01	0.000	1.000000E+00	8.416546E-02	4.000000E+00
GOOD		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
YNGH1		22	9.797807E-01	2.690447E-01	0.613	1.363649E+00	5.736052E-02	2.155518E+01
RNGH1		22	1.975227E+07	2.074015E+07	169245.600	6.689117E+07	4.421815E+06	4.345499E+08
PRNGH1		22	1.603147E+10	3.121994E+10	0.000	1.000482E+11	6.656114E+09	3.526924E+11
LYIELD		22	1.929774E-01	2.014663E-01	-0.316	4.231998E-01	4.295277E-02	4.245503E+00
BOLIVIA		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRMG		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRMT		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRPR		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRRS		22	1.000000E+00	0.000000E+00	1.000	1.000000E+00	0.000000E+00	2.200000E+01
BRSC		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRSP		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
SANTAFE		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
CORDOBA		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BUENOS		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
LAPAMPA		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
URUGUAY		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
PARAGUAY		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
CHILE		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
EXTEN		22	4.601364E+02	2.888005E+02	177.	9.640000E+02	6.157248E+01	1.012300E+01
MAREA		22	4.320713E+06	0.000000E+00	4320.113	4.320713E+06	0.000000E+00	9.505569E+07
EXTENA		22	1.064955E-04	6.684094E-05	0.000	2.231113E-04	1.425054E-05	2.342900E-03
EXTA		22	3.601941E-04	2.305261E-04	0.000	7.527693E-04	4.914832E-05	7.924271E-03
STRESA		22	1.484880E+06	1.826892E+06	0.000	5.804181E+06	3.894946E+05	3.266754E+07
NYELDA		22	1.021274E+00	1.899570E-01	0.613	1.316802E+00	4.049897E-02	2.246802E+01
LCRESEXP		22	1.065186E+01	6.778133E+00	0.000	1.620112E+01	1.445103E+00	2.343408E+02
LSTRESA		22	1.235828E+01	3.441956E+00	0.000	1.557409E+01	7.338276E+01	2.718823E+02
LNYELDA		22	3.544392E-03	1.949174E-01	-0.489	2.752063E-01	4.155654E-02	7.797662E-02
LRNGH1		22	1.586807E+01	1.782761E+00	12.039	1.801858E+01	3.800860E-01	3.490976E+02
LPRNGH1		22	7.746246E+00	1.161604E+01	0.000	2.532892E+01	2.476548E+00	1.704174E+02
LEXTA		22	8.123819E+00	6.339695E-01	-8.833	-7.191752E+00	1.351628E-01	1.787240E+02
LRESEX		22	4.951555E-03	3.889412E-03	0.000	1.151584E-02	8.292253E-04	1.089430E-01
LSRNR		22	3.014908E+08	3.396653E+08	0.000	1.083712E+09	7.241689E+07	6.631015E+09
LSRNPR		22	2.545475E+11	4.981669E+11	0.000	1.568071E+12	1.062095E+11	5.600045E+12
LSRRATIO		22	5.599114E+03	1.046922E+04	0.000	4.098853E+04	2.232045E+03	1.231805E+05

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VARIABLE	LABEL	MEANS FOR SOY BY STATE			MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM
		N	MEAN	STANDARD DEVIATION				
STATE=BRSC								
YEAR		22	1.976500E+03	6.493587E+00	1966.000	1.987000E+03	1.384437E+00	4.348300E+04
CRESEXP		22	3.023824E+06	3.583352E+06	0.000	1.086569E+07	7.63973E+05	6.652413E+07
POOR		22	2.727273E-01	4.558423E-01	0.000	1.000000E+00	9.718591E-02	6.000000E+00
BAD		22	1.363636E-01	3.512501E-01	0.000	1.000000E+00	7.488677E-02	3.000000E+00
GOOD		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
YINGH1		22	1.004173E+00	2.720350E-01	0.603	1.409010E+00	5.799806E-02	2.209181E+01
RNGH1		22	1.975227E+07	2.074015E+07	169245.600	6.689117E+07	4.421815E+06	4.345499E+08
PRNGH1		22	1.603147E+10	3.121994E+10	0.000	1.000482E+11	6.656114E+09	3.526924E+11
LYIELD		22	1.105317E-02	1.916702E-01	-0.395	1.981154E-01	4.086421E-02	2.431696E-01
BOLIVIA		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRMG		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRMT		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRPR		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRRS		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BRSC		22	1.000000E+00	0.000000E+00	1.000	1.000000E+00	0.000000E+00	2.200000E+01
BRSP		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
SANTA FE		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
CORDOBA		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
BUENOS		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
LAPAMPA		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
URUGUAY		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
PARAGUAY		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
CHILE		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0.000000E+00	0.000000E+00
EXTEN		22	3.801364E+02	1.250921E+02	100.000	5.970000E+02	2.666972E+01	8.363000E+03
MAREA		22	1.167297E+06	0.000000E+00	1167296.909	1.167297E+06	0.000000E+00	2.568053E+07
EXTENA		22	3.256552E-04	1.071639E-04	0.000	5.114380E-04	2.284742E-05	7.164415E-03
EXTA		22	1.104981F-03	3.779433E-04	0.000	1.733492E-03	7.951177E-05	2.430252E-02
STRESA		22	1.484888E+06	1.826892E+06	0.000	5.804181E+06	3.894946E+05	3.266754E+07
NYIELDA		22	1.019996E+00	1.924549E-01	0.603	1.326143E+00	4.103153E-02	2.243992E+01
LCRESEXP		22	1.065186E+01	6.778133E+00	0.000	1.620112E+01	1.445103E+00	2.343408E+02
LSTRESA		22	1.235828E+01	3.441956E+00	0.000	1.557409E+01	7.338276E-01	2.718823E+02
LNYIELDA		22	1.742976E-03	1.981557E-01	-0.506	2.822744E-01	4.224693E-02	3.834548E-02
LRNGH1		22	1.586807E+01	1.782761E+00	12.039	1.801858E+01	3.800860E-01	3.490976E+02
LPRNGH1		22	7.746246E+00	1.161604E+01	0.000	2.532892E+01	2.476548E+00	1.704174E+02
LEXTA		22	6.883234E+00	4.375125E-01	-8.112-6	3.357617E+00	9.327798E-02	1.514311E+02
LRESEX		22	1.472309E-02	7.097726E-03	0.000	2.699756E-02	1.513240E-03	3.239079E-01
LSRNBR		22	3.014098E+08	3.396653E+08	0.000	1.083712E+09	7.241689E+07	6.631015E+09
LSRNPB		22	2.545475E+11	4.981669E+11	0.000	1.568071E+12	1.062095E+11	5.600045E+12
LRRATIO		22	5.599114E+03	1.046922E+04	0.000	4.098863E+04	2.232045E+03	1.231805E+05

MEANS FOR SOY BY STATE

VARIABLE	LABEL	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM
STATE=BRSP								
YEAR								
CRESEXP		22	1.976500E+03	6.493587E+00	1966.000	1.987000E+03	1 4.348300E+04	
POOR		22	7.906390E+05	6.836835E+05	67658.490	2.21061E+06	145762 1.739406E+07	
BAD		22	1.363636E-01	3.512501E-01	0.000	1.000000E+00	0 3.000000E+00	
GOOD		22	9.090909E-02	2.942449E-01	0.000	1.000000E+00	0 2.000000E+00	
YNGH1		22	9.090909E-02	2.942449E-01	0.000	1.000000E+00	0 2.000000E+00	
RNGH1		22	9.610094E-01	2.361030E-01	0.648	1.321046E+00	0 2.114221E+01	
PRNGH1		22	1.885188E+07	2.042286E+07	112701.615	6.633735E+07	4354169 4.147415E+08	
LITYELD		22	1.198296E+10	2.336299E+10	0.000	7.349588E+10	4981006141 2.636252E+11	
BOLIVIA		22	1.732197E-01	1.665909E-01	-0.182	3.901092E-01	0 3.810834E+00	
BRMG		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0 0.000000E+00	
BRMT		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0 0.000000E+00	
BRPR		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0 0.000000E+00	
BRRS		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0 0.000000E+00	
BRSC		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0 0.000000E+00	
BRSP		22	1.000000E+00	0.000000E+00	1.000	1.000000E+00	0 2.200000E+01	
SANTAFE		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0 0.000000E+00	
CORDOBA		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0 0.000000E+00	
BUENOS		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0 0.000000E+00	
LAPAMPA		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0 0.000000E+00	
URUGUAY		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0 0.000000E+00	
PARAGUAY		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0 0.000000E+00	
CHILE		22	0.000000E+00	0.000000E+00	0.000	0.000000E+00	0 0.000000E+00	
EXTEN		22	8.646364E+02	2.526229E+02	300.000	1.189000E+03	54 1.902200E+04	
MAREA		22	2.497200E+06	0.000000E+00	2497199.818	2.497200E+06	0 5.493840E+07	
EXTENA		22	3.462424E-04	1.011625E-04	0.000	4.761333E-04	0 7.617332E-03	
EXTA		22	1.18713CE-03	3.636717E-04	0.000	1.633432E-03	0 2.611685E-02	
STRESA		22	6.942867E+05	4.781102E+05	67658.490	1.619874E+06	101933 1.527431E+07	
NYIELDA		22	9.041771E+00	1.667852E-01	0.648	1.272257E+00	0 2.25897E+01	
LCRESEXP		22	1.312275E+01	1.072238E+00	11.122	1.460898E+01	0 2.887005E+02	
LSTRESA		22	1.314288E+01	8.950660E-01	11.122	1.429786E+01	0 2.891434E+02	
LNYIELDA		22	1.848109E-03	1.707928E-01	-0.434	2.407927E-01	0-4.065841E-02	
LRNGH1	LOG OF NEIGH RES	22	1.574242E+01	1.885920E+00	11.632	1.801026E+01	0 3.463331E+02	
LPRNGH1	LOG OF NEIGH RES*PROCSUR	22	7.652176E+00	1.147537E+01	0.000	2.502050E+01	2 1.6834779E+02	
LEXTA	LOG OF 4 YEAR AVE. STATE EXTENSION	22	-6.795738E+00	3.809178E-01	-7.774	-6.417073E+00	0-1.495062E+02	
LRESEX	LOG OF STATE RES*NEW STATE EXT	22	1.590489E-02	5.604855E-03	0.005	2.323741E+00	0 3.499075E-01	
LSRNRP	LOG OF STATE RES*NEIGH RES	22	2.657714E+08	2.977559E+08	1253493.072	9.691213E+08	63481774 5.846971E+09	
LSRATIO	LOG OF STATE RES*PRCISUR	22	1.720797E+11	3.369750E+11	0.000	1.073700E+12	71843317522 3.785753E+12	
	LOG OF STATE RES*RATIO	22	3.904974E+03	7.264906E+03	0.000	2.841422E+04	1549 8.590943E+04	

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MEANS FOR SOY BY STATE

VARIABLE

LABEL

N MEAN STANDARD DEVIATION

MINIMUM VALUE

MAXIMUM VALUE

STD ERROR

SUM

STATE=BUENOS

YEAR	1.976500E+03	6.493587E+00	1966.00000	1.987000E+03	1.384437E+00	4.348300E+04
CRESEXP	22.3.838463E+06	5.115591E+06	0.00000	1.568907E+07	1.090648E+06	8.444619E+07
POOR	22.9.090909E-02	2.942449E-01	0.00000	1.000000E+00	6.273323E-02	2.000000E+00
BAD	22.0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
GOOD	22.0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
YNGH1	22.9.219007E-01	2.906038E-01	0.50797	1.288133E+00	6.195693E-02	2.028182E+01
RNGH1	22.8.782738E+06	9.329521E+06	57227.72100	2.953259E+07	1.989061E+06	1.932202E+08
PRNGH1	22.3.246221E+10	6.139693E+10	0.00000	1.918179E+11	1.308987E+10	7.141685E+11
LITYIELD	22.2.684235E-01	2.575599E-01	-0.11507	6.647157E-01	5.491196E-02	5.905317E+00
BOLIVIA	22.0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
BRMG	22.0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
BRMT	22.0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
BRPR	22.0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
BRRS	22.0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
BRSC	22.0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
BRSP	22.0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
SANTAFE	22.0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
CORDOBA	22.0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
BUENOS	22.1.000000E+00	0.000000E+00	1.00000	1.000000E+00	0.000000E+00	2.200000E+01
LAPAMPA	22.0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
URUGUAY	22.0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
PARAGUAY	22.0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
CHILE	22.0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
EXTEN	22.9.322727E+01	1.164119E+01	4.8.231286E+03	1.060000E+02	2.481910E+00	2.051000E+03
MAREA	22.2.203285E-02	2.751218E-03	0.01134	2.505149E-02	5.865617E-04	4.847226E-01
EXTA	22.7.679675E..02	6.50371CE-03	0.03970	8.590769E-02	2.076198E-03	1.687548E+00
STRESA	22.4.181573E+06	5.343014E+06	0.00000	1.736414E+07	1.139134E+06	9.199460E+07
NYIELDA	22.1.099363E+00	2.633342E-01	0.50797	1.510062E+00	5.614304E-02	2.418593E+01
LCRESEXP	22.1.288112E+01	4.515611E+00	0.00000	1.656848E+01	9.627314E-01	2.833847E+02
LSTRESA	22.1.307118E+01	4.560493E+00	0.00000	1.666992E+01	9.723003E-01	2.875659E+02
LNYIELDA	22.6.326180E-02	2.675754E-01	-0.67734	4.121508E-01	5.704728E-02	1.391760E+00
LRNGH1	22.1.499657E+01	1.868261E+00	10.95479	1.720100E+01	3.983146E-01	3.299246E+02
LPRNGH1	22.8.752565E+00	1.195542E+01	0.00000	2.597981E+01	2.5488904E+00	1.925564E+02
LEXTA	22.-2.577728E+00	1.567372E-01	-3.22630	-2.454482E+00	3.341649E-02	-5.671002E+01
LRSEXP	22.1.037612E+00	3.850674E-01	0.00000	1.420255E+00	8.209665E-02	2.282747E+01
LSRNRR	22.1.374329E+08	1.545824E+08	0.00000	4.893100E+08	3.023522E+09	
LSRNPR	22.5.194006E+11	9.841041E+11	0.00000	3.144370E+12	2.098117E+11	1.142681E+13
LSRRATIO	22.2.837065E+04	5.580431E+04	0.00000	2.067102E+05	6.241542E+05	

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VARIABLE LABEL

MEANS FOR SOY BY STATE
N MEAN STANDARD DEVIATION MINIMUM VALUE MAXIMUM VALUE STD ERROR OF MEAN SUM

		STATE=CORDOBA						
VARIABLE	LABEL	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM
YEAR	YEAR	22	1.976500E+03	6.493587E+00	1966.00000	1.987000E+03	1.384437E+00	4.348300E+04
CRESEXP		22	2.319138E+06	2.580845E+06	0.00000	7.420739E+06	5.502380E+05	5.102104E+07
POOR		22	1.363636E-01	3.512501E-01	0.00000	1.000000E+00	7.488677E-02	3.000000E+00
BAD		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
GOOD		22	4.545455E-02	2.132007E-01	0.00000	1.000000E+00	4.545455E-02	1.000000E+00
YINIGH1		22	9.167448E-01	2.104112E-01	0.62665	1.215469E+00	4.485982E-02	2.016839E+01
RNGH1		22	1.216317E+07	1.377031E+07	69706.47900	4.359652E+07	2.935840E+06	2.675898E+08
PRNGH1		22	5.301528E+10	1.002298E+11	0.00000	3.135597E+11	2.136907E+10	1.166336E+12
LIYIELD		16	3.972812E-01	3.481296E-01	-0.55397	7.769729E-01	8.703241E-02	6.356499E+00
BOLIVIA		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
BRNG		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
BRIIT		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
BRPR		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
BRRS		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
BRSC		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
BRSP		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
SANTAFE		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
COORDOBA		22	1.000000E+00	0.000000E+00	1.00000	1.000000E+00	0.000000E+00	2.200000E+01
BUEENOS		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
LAPAMPA		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
URUGUAY		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
PARAGUAY		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
CHILE		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
EXTEN		22	5.900000E+01	3.792223E+00	53.00000	6.500000E+01	8.05046E-01	1.298000E+03
MAREA		22	1.587965E+03	0.000000E+00	1587.96500	1.587965E+03	0.000000E+00	3.49325E+04
EXTENA		22	3.715447E-02	2.388102E-03	0.03338	4.093289E-02	5.001451E-04	8.173984E-01
EXTA		22	1.93537E-01	7.859788E-03	0.11682	1.420056E-01	1.575712E-03	2.845781E+00
STRESA		22	2.267029E+06	2.635353E+06	0.00000	7.583385E+06	5.618591E+05	4.987464E+07
NYIELDA		22	1.051760E+00	2.074505E-01	0.62665	1.390100E+00	4.422860E-02	2.313872E+01
LCRESEXP		22	1.267161E+01	4.377094E+00	0.00000	1.581979E+01	9.331996E-01	2.787754E+02
LSTRESA		22	1.247894E+01	4.429877E+00	0.00000	1.584147E+01	9.444529E-01	2.745367E+02
LNYIELDA		22	3.087179E-02	2.059387E-01	-0.46736	3.293756E-01	4.390628E-02	6.791793E-01
LRNGH1		22	1.521946E+01	1.949708E+00	11.15205	1.759049E+01	4.156791E-01	3.348281E+02
LPRNGH1		22	8.941729E+00	1.220432E+01	0.00000	2.647126E+01	2.601971E+00	1.967180E+02
LEXTA		22	6.141499E-02	6.141499E-02	-2.14715	1.951888E+00	1.309372E-02	4.503383E+01
LRESEX		22	1.637828E+00	6.123315E-01	0.00000	2.249578E+00	1.305495E-01	3.603222E+01
LSRNRP		22	1.853884E+08	2.183725E+08	0.00000	6.896878E+08	4.655718E+07	4.078544E+09
LSRATIO		22	8.209461E+11	1.553630E+12	0.00000	4.907483E+12	3.312351E+11	1.806081E+13
			3.243623E+04	6.463329E+04	0.00000	2.422052E+05	1.377986E+04	7.135970E+05

MEANS FOR SOY BY STATE

VARIABLE	LABEL	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM
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STATE=PARAGUAY --								
YEAR		1.966	0.000	1.987000E+03	1.384437E+00	4.348300E+04		
CRESEXP		81504	.720	1.655196E+07	9.620617E+05	8.168095E+07		
POOR		0.000	1.000000E+00	7.488677E-02	3.000000E+00			
BAD		0.000	1.000000E+00	6.273323E-02	2.000000E+00			
GOOD		0.000	1.000000E+00	6.273323E-02	2.000000E+00			
Y1NGH1		98855	.385	1.359749E+05	5.396225E+07	2.176906E+01		
RNGH1		2.531054E-01	1.671824E+07	5.199645E+07	3.564341E+06	3.504546E+08		
PRNGH1		0.000	3.421166E+11	2.299186E+10	1.196942E+12			
LITYIELD		-0.210	2.412567E-01	2.503930E-02	-1.593452E-01			
BOLIVIA		0.000	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00		
BRMG		0.000	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00		
BRMT		0.000	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00		
BRPR		0.000	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00		
BRRS		0.000	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00		
BRSC		0.000	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00		
BRSP		0.000	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00		
SANTAFE		0.000	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00		
CORDOBA		0.000	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00		
BUELOS		0.000	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00		
LAPAMPA		0.000	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00		
URUGUAY		0.000	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00		
PARAGUAY		1.000	1.000000E+00	0.000000E+00	0.000000E+00	2.200000E+01		
CHILE		0.000	0.000000E+00	0.000000E+00	0.000000E+00	0.000000E+00		
EXTEN		117349	.206	6.384365E+05	4.783299E+04	1.011467E+07		
MAREA		613431	.818	6.134318E+05	0.000000E+00	1.349550E+07		
EXTENA		0.191	1.040762E+00	7.797605E-02		1.648867E+01		
FYTA		0.673	3.642667E+00	2.556795E+01	2.565767E+01	5.618357E+01		
STRESA		81504	.720	1.413298E+07	8.065329E+05	6.936886E+07		
NYIELDA		0.665	1.337290E+00	4.000530E-02	2.292702E+01			
LCRESEXP		11.308	1.662202E+01	3.157504E-01	3.149307E+02			
LSTRESA		11.308	1.646402E+01	3.149191E-01	3.114587E+02			
LNYIELDA		70.408	2.906454E-01	3.959212E-02	5.543228E-01			
LRNGH1		11.501	1.776669E+01	4.068392E-01	3.425480E+02			
LPRNGH1		0.000	2.655842E+01	2.583394E+00	1.951931E+02			
LEXTA		-0.395	1.292716E+00	1.362391E-01	1.703253E+01			
LRESEX		8.817	5.997295E+01	4.359159E+00	8.300851E+02			
LSRNQR		1117897	.838	8.642858E+08	5.835853E+07	5.479600E+09		
LSRNPR		0.000	5.523248E+12	3.748912E+11	1.933006E+13			
LSRATIO		0.000	1.291882E+05	8.483834E+03	4.776559E+05			

MEANS FOR SOY BY STATE

VARIABLE	LABEL	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM
STATE=SANTAFE ---								
YEAR		22	1.976500E+03	6.493587E+00	1966.00000	1.987000E+03	1.384437E+00	4.348300E+04
CRESEXP		22	4.506608E+05	4.151289E+05	0.00000	1.350434E+06	8.850579E+04	9.914538E+06
POOR.		22	3.181818E-01	4.767313E-01	0.00000	1.000000E+00	1.016395E-01	7.000000E+00
BAD.		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
GOOD.		22	9.090909E-02	2.942449E-01	0.00000	1.000000E+00	6.273323E-02	2.000000E+00
Y1NGH1		22	8.949965E-01	2.561103E-01	0.54021	1.249260E+00	5.460289E-02	1.968992E+01
RNGH1		22	1.353340E+07	1.492844E+07	78383.42100	4.726861E+07	3.182755E+06	2.977349E+08
PRNGH1		22	4.658450E+10	8.808148E+10	0.00000	2.753940E+11	1.877904E+10	1.024859E+12
LYIELD		22	3.391708E-01	3.016949E-01	-0.14681	7.273722E-01	6.432157E-02	7.461757E+00
BOLIVIA		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
BRMG		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
BRMT		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
BRPR		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
BRRS		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
BRSC		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
BRSP		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
SANTAFE		22	1.000000E+00	0.000000E+00	1.00000	1.000000E+00	0.000000E+00	2.200000E+01
CORDOBA		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
BUENOS		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
LAPAMPA		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
URUGUAY		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
PARAGUAY		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
CHILE		22	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0.000000E+00	0.000000E+00
EXTEN		22	4.959091E+01	3.7622713E+00	39.00000	5.400000E+01	8.022131E-01	1.091000E+03
NAREA		22	1.925747E+03	0.000000E+00	1925.74682	1.925747E+03	0.000000E+00	4.236643E+04
EXTENA		22	2.575152E-02	1.953898E-03	0.02025	2.804107E-02	4.165772E-04	5.665335E-01
EXTA		22	0.951563E-02	7.240675E-03	0.0723	9.813717E-03	1.543717E-05	1.969376E+00
STRESA		22	6.035240E+05	8.352023E+05	0.00000	2.561522E+06	1.780657E+05	1.327753E+07
NYIELDA		22	1.036985E+00	2.209176E-01	0.54842	1.388441E+00	4.709979E-02	2.281367E+01
LCRESEXP		22	1.141516E+01	3.913390E+00	0.00000	1.411594E+01	8.343375E-01	2.511336E+02
LSSTRESA		22	1.045643E+01	4.675629E+00	0.00000	1.475611E+01	9.968474E-01	2.300415E+02
LNYIELDA		22	1.250377E-02	2.298349E-01	-0.60072	3.281817E-01	4.900097E-02	2.750828E-01
LRNGH1	LOG OF NEIGH RES	22	1.537783E+01	1.912239E+00	11.26937	1.67136E+01	4.076908E-01	3.383122E+02
LPNGH1	LOG OF NEIGH RES*PROCISUR	22	8.891856E+00	1.213865E+01	0.00000	2.634147E+01	2.587969E+00	1.956208E+02
LEXTA	LOG OF 4 YEAR AVE. STATE EXTENSION	22	-2.416712E+00	8.588850E-02	-2.64674	-2.321322E+00	1.831149E-02	-5.316766E+01
LRESEX	LOG OF STATE RES*NEW STATE EXT	22	9.666948E-01	4.464286E-01	0.00000	1.394582E+00	9.517889E-02	2.126729E+01
LSRNRR	LOG OF STATE RES*NEIGH RES	22	1.835466E+08	2.097145E+08	0.00000	6.672407E+08	4.471128E+07	4.038011E+09
LSRNPR	LOG OF STATE RES*NEIGH RES*PROCISUR	22	6.391109E+11	1.208790E+12	0.00000	3.829131E+12	2.557148E+11	1.406044E+13
LSRRATIO	LOG OF STATE RES*RATIO	22	2.272663E+04	4.502397E+04	0.03000	1.676382E+05	9.599142E+03	4.999858E+05

10:09 TUESDAY, JUNE 27, 1989 38

VARIABLE

MEANS FOR SOY BY STATE

N MEAN STANDARD DEVIATION MINIMUM VALUE MAXIMUM VALUE STD ERROR OF MEAN SUM

STATE=URUGUAY						
YEAR	6.493587E+03	1966.0000	1.987000E+03	1.384437E+00	4.348300E+04	
CRESEXP	3.883025E+05	3.802350E+05	0.0000	1.222572E+06	8.106638E+04	8.542655E+06
POOR	9.090909E-02	2.942449E-01	0.0000	1.000000E+00	6.273323E-02	2.000000E+00
BAD	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
GOOD	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
YINGH1	1.072273E+00	2.233220E-01	0.7412	1.368473E+00	4.761240E-02	2.35902E+01
RNGH1	2.38779E+07	2.393775E+07	169245.6000	7.653429E+07	5.103544E+06	4.925314E+08
PRNGH1	4.45176E+10	8.325490E+10	0.0000	2.438167E+11	9.77938E+10	9.77938E+11
LITYIELD	6.875130E-02	2.427609E-01	-0.4431	3.671428E-01	8.092031E-02	6.187617E-01
BOLIVIA	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
BRMG	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
BRNT	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
BRPR	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
BRRS	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
BRSC	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
BRSP	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
SANTAFE	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
CORDOBA	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
BUELOS	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
LAPAMPA	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
URUGUAY	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
PARAGUAY	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
CHILE	0.000000E+00	0.000000E+00	0.0000	0.000000E+00	0.000000E+00	0.000000E+00
EXTEN	0	0	0	0.000000E+00	0.000000E+00	0.000000E+00
MAREA	2.900000E-06	0.000000E+00	0.0000	2.900000E-06	0.000000E+00	6.380000E-05
EXTENA	1.015000E-05	0.000000E+00	0.0000	1.015000E-05	0.000000E+00	2.233000E-04
EXTA	6.697328E+05	5.270684E+05	0.0000	1.756495E+06	1.123714E+05	1.473412E+07
STRESA	1.082886E+00	1.765780E-01	0.7412	1.363496E+00	3.764657E-02	2.382350E+01
NYIELDA	1.124345E+01	3.869934E+00	0.0000	1.401647E+01	8.250728E-01	2.473559E+02
LCRESEXP	2.50267E+01	2.954750E+00	0.0000	1.437883E+01	6.299549E-01	2.750587E+02
LSSTRESA	6.653019E-02	1.672112E-01	0.0000	1.00517E-01	3.564954E-02	1.463664E+00
LNYIELDA	1.593912E+01	1.842191E+00	12.0391	1.815325E+01	3.927563E-01	3.506607E+02
LNGH1	7.010890E+00	1.172108E+01	0.0000	2.621968E+01	2.498942E+00	1.52956E+02
LPRNGH1	1.49804E+01	0.000000E+00	-11.4980	1.149804E+01	0.000000E+00	-2.52956E+02
LEXTA	1.469021E+04	2.999072E+05	0.0000	1.459451E+04	6.394042E+06	2.791846E+03
LRESEX	3.000145E+08	3.343943E+08	0.0000	1.072740E+09	7.129310E+07	6.600319E+09
LSRNR	6.073080E+11	1.138474E+12	0.0000	3.251061E+12	2.427235E+11	1.336078E+13
LSRNPR	1.218511E+04	2.360565E+04	0.0000	8.919673E+04	5.032742E+03	2.680723E+05
LSRRATIO						

LOG OF 4 YEAR AVE. STATE RESEARCH

LOG OF 4 YEAR AVE. NEIGH YIELD

LOG OF NEIGH RES

LOG OF NEIGH RES*PROCISUR

LOG OF 4 YEAR AVE. STATE EXT

LOG OF STATE RES*NEW STATE EXT

LOG OF STATE RES*NEIGH RES

LOG OF STATE RES*NEIGH RES*PROCISUR

MEANS FOR MAIZE

VARIABLE	LABEL	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM
YEAR		264	1.97650UE+03	6.356339E+00	1966.00000	1.987000E+03	0	5.217960E+05
CRESEXP		264	2.257087E+06	4.723994E+06	0.00000	3.193800E+07	290742	5.958710E+08
POOR		264	1.969697E-01	3.984646E-01	0.00000	1.00000E+00	0	5.200000E+01
BAD		264	5.681818E-02	2.319346E-01	0.00000	1.00000E+00	0	1.50000E+01
GOOD		264	2.651515E-02	1.609666E-01	0.00000	1.00000E+00	0	7.00000E+00
YINGH1		264	1.469944E+00	1.857442E-01	0.71787	1.616373E+00	0	2.764064E+02
RNGH1		264	1.245164E+07	1.367283E+07	69925.58790	5.992178E+07	841504	3.287233E+09
PRNGH1		264	1.321059E+10	2.750586E+10	0.00000	1.534255E+11	1692868505	3.487596E+12
LITYIELD		264	1.834033E-01	2.628179E-01	-0.47956	1.364020E+00	0	4.841847E+01
BOLIVIA		264	8.333333E-02	2.769103E-01	0.00000	1.00000E+00	0	2.200000E+01
BRMG		264	8.333333E-02	2.769103E-01	0.00000	1.00000E+00	0	2.200000E+01
BRMT		264	8.333333E-02	2.769103E-01	0.00000	1.00000E+00	0	2.200000E+01
BRPR		264	8.333333E-02	2.769103E-01	0.00000	1.00000E+00	0	2.200000E+01
BRRS		264	8.333333E-02	2.769103E-01	0.00000	1.00000E+00	0	2.200000E+01
BRSC		264	8.333333E-02	2.769103E-01	0.00000	1.00000E+00	0	2.200000E+01
BRSP		264	8.333333E-02	2.769103E-01	0.00000	1.00000E+00	0	2.200000E+01
SANTAFE		264	8.333333E-02	2.769103E-01	0.00000	1.00000E+00	0	2.200000E+01
CORDOBA		264	8.333333E-02	2.769103E-01	0.00000	1.00000E+00	0	2.200000E+01
BUENOS		264	8.333333E-02	2.769103E-01	0.00000	1.00000E+00	0	2.200000E+01
LAPAMPA		264	8.333333E-02	2.769103E-01	0.00000	1.00000E+00	0	2.200000E+01
URUGUAY		264	0.000000E+00	0.000000E+00	0.00000	0.00000E+00	0	0.00000E+00
PARAGUAY		264	8.333333E-02	2.769103E-01	0.00000	1.00000E+00	0	2.200000E+01
CHILE		264	0.000000E+00	0.000000E+00	0.00000	0.00000E+00	0	0.00000E+00
EXTEN		264	3.861340E+04	1.421426E+05	11.00000	6.384365E+05	8748	1.019394E+07
MAREA		264	1.249140E+06	1.427685E+06	577.95409	4.320713E+06	87868	3.297730E+08
EXTENA		264	7.213397E-02	2.296402E-01	0.00002	1.040762E+00	0	1.904337E+01
EXTA		264	2.434928E-01	7.779255E-01	0.00007	3.642667E+00	0	6.428210E+01
STRESA		264	2.177002E+06	4.167773E+06	0.00000	2.810550E+07	256509	5.747285E+08
NYIELDA		264	1.061859E+00	1.771395E-01	0.68021	1.474940E+00	0	2.893304E+02
LCRESEXP		264	1.165528E+01	4.725806E+00	0.00000	1.727931E+01	0	3.076995E+03
LSTRESA		264	1.161093E+01	4.701210E+00	0.00000	1.715148E+01	0	3.065286E+03
LYIELDA		264	4.601694E-02	1.683400E-01	-0.38536	3.886171E-01	0	1.214847E+01
LRNGH1		264	1.544179E+01	1.664769E+00	11.15519	1.790855E+01	0	4.0766633E+03
LPRNGH1		264	7.901321E+00	1.130707E+01	0.00000	2.575648E+01	1	2.085946E+03
LEXTA		264	4.963406E+00	2.934031E+00	-9.63219	1.292716E+00	0	-1.310339E+03
LRESEX		264	3.439202E+00	1.172219E+01	0.00000	5.954356E+01	1	9.079493E+02
LSRNIR		264	1.754763E+08	2.078306E+08	0.00000	9.258241E+08	12791089	4.632574E+10
LSRNPR		264	1.990693E+11	4.241767E+11	0.00000	2.651087E+12	26106270401	5.255429E+13
LSRRATIO		264	7.907717E+03	1.822386E+04	0.00000	1.632702E+05	1122	2.087637E+06

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MEANS FOR WHEAT

VARIABLE	LABEL	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD OF MEAN	SUM
YEAR		308	1.976500E+03	6.354613E+00	1966.0000	1.987000E+03	0	6.08/620E+05
CRESEXP		308	3.105757E+06	5.171321E+06	0.0000	3.193800E+07	294663	9.565731E+08
POOR		308	1.785714E-01	3.836163E-01	0.0000	1.000000E+00	0	5.500000E+01
BAD		308	2.922078E-02	1.686989E-01	0.0000	1.000000E+00	0	9.000000E+00
GOOD		308	2.922078E-02	1.686989E-01	0.0000	1.000000E+00	0	9.000000E+00
Y1NGH1		308	1.174462E+00	1.646656E-01	0.8926	1.712969E+00	0	3.617342E+02
RNGH1		308	1.932090E+07	2.011404E+07	123516.3120	8.221215E+07	1146104	5.952304E+09
PRNGH1		308	4.006835E+10	7.127805E+10	0.0000	3.725776E+11	4061443605	1.234105E+13
LYIELD		308	1.325626E-01	2.507749E-01	-1.7093	8.562351E-01	0	4.082928E+01
BOLIVIA		308	7.142857E-02	2.579585E-01	0.0000	1.000000E+00	0	2.200000E+01
BRMG		308	7.142857E-02	2.579585E-01	0.0000	1.000000E+00	0	2.200000E+01
BRWT		308	7.142857E-02	2.579585E-01	0.0000	1.000000E+00	0	2.200000E+01
BRPR		308	7.142857E-02	2.579585E-01	0.0000	1.000000E+00	0	2.200000E+01
BRRS		308	7.142857E-02	2.579585E-01	0.0000	1.000000E+00	0	2.200000E+01
BRSC		308	7.142857E-02	2.579585E-01	0.0000	1.000000E+00	0	2.200000E+01
BRSP		308	7.142857E-02	2.579585E-01	0.0000	1.000000E+00	0	2.200000E+01
SANTAFE		308	7.142857E-02	2.579585E-01	0.0000	1.000000E+00	0	2.200000E+01
CORDOBA		308	7.142857E-02	2.579585E-01	0.0000	1.000000E+00	0	2.200000E+01
BUENOS		308	7.142857E-02	2.579585E-01	0.0000	1.000000E+00	0	2.200000E+01
LAPAMPA		308	7.142857E-02	2.579585E-01	0.0000	1.000000E+00	0	2.200000E+01
URUGUAY		308	7.142857E-02	2.579585E-01	0.0000	1.000000E+00	0	2.200000E+01
PARAGUAY		308	7.142857E-02	2.579585E-01	0.0000	1.000000E+00	0	2.200000E+01
CHILE		308	7.142857E-02	2.579585E-01	0.0000	1.000000E+00	0	2.200000E+01
EXTEN		286	6.060782E+04	1.590756E+05	11.0000	6.384365E+05	577.9541	4.320713E+06
MAREA		286	1.199658E+06	1.382178E+06	0.0000	1.000000E+00	0	2.200000E+01
EXTENA		308	1.000827E-01	2.495301E-01	0.0000	1.040762E+00	0	3.082547E+01
EXTA		308	3.401109E-01	8.493502E-01	0.0000	3.642667E+00	0	1.047542E+02
STRESA		308	2.550729E+06	4.477942E+06	0.0000	3.036900E+07	255154	7.856245E+08
NYIELD ⁴		308	1.053036E+00	1.916450E-01	0.57%	1.157947E+00	0	3.243351E+02
LCRESEXP		308	1.138381E+01	5.638362E+00	0.0000	1.727931E+01	0	3.506214E+03
LSTRESA		308	1.222013E+01	4.381803E+00	0.0000	1.722893E+01	0	3.763801E+03
LNYIELD ^A		308	3.439796E-02	1.886361E-01	-0.5430	3.770292E-01	0	1.059457E+01
LRNGH1		308	1.5944262E+01	1.563037E+00	11.7241	1.822481E+01	0	4.910327E+03
LPRNGH1		308	8.524278E+00	1.190642E+01	0.0000	2.664371E+01	0	2.625478E+03
LEXTA		308	5.009957E+00	3.533109E+00	-11.4980	1.292716E+00	0	1.543067E+03
LRESEX		308	5.006951E+00	1.300132E+01	0.0000	6.017506E+01	1	1.542141E+03
LSRNR		308	2.568359E+08	3.041542E+08	0.0000	1.218519E+09	17330796	7.910545E+10
LSRNPR		308	5.845531E+11	1.103349E+12	0.0000	6.112239E+12	62869162293	1.800424E+14
LSRRATIO		308	1.616088E+04	3.094734E+04	0.0000	1.656718E+05	1763	4.977551E+06

APPENDIX 1: GEO-CLIMATE REGIONS



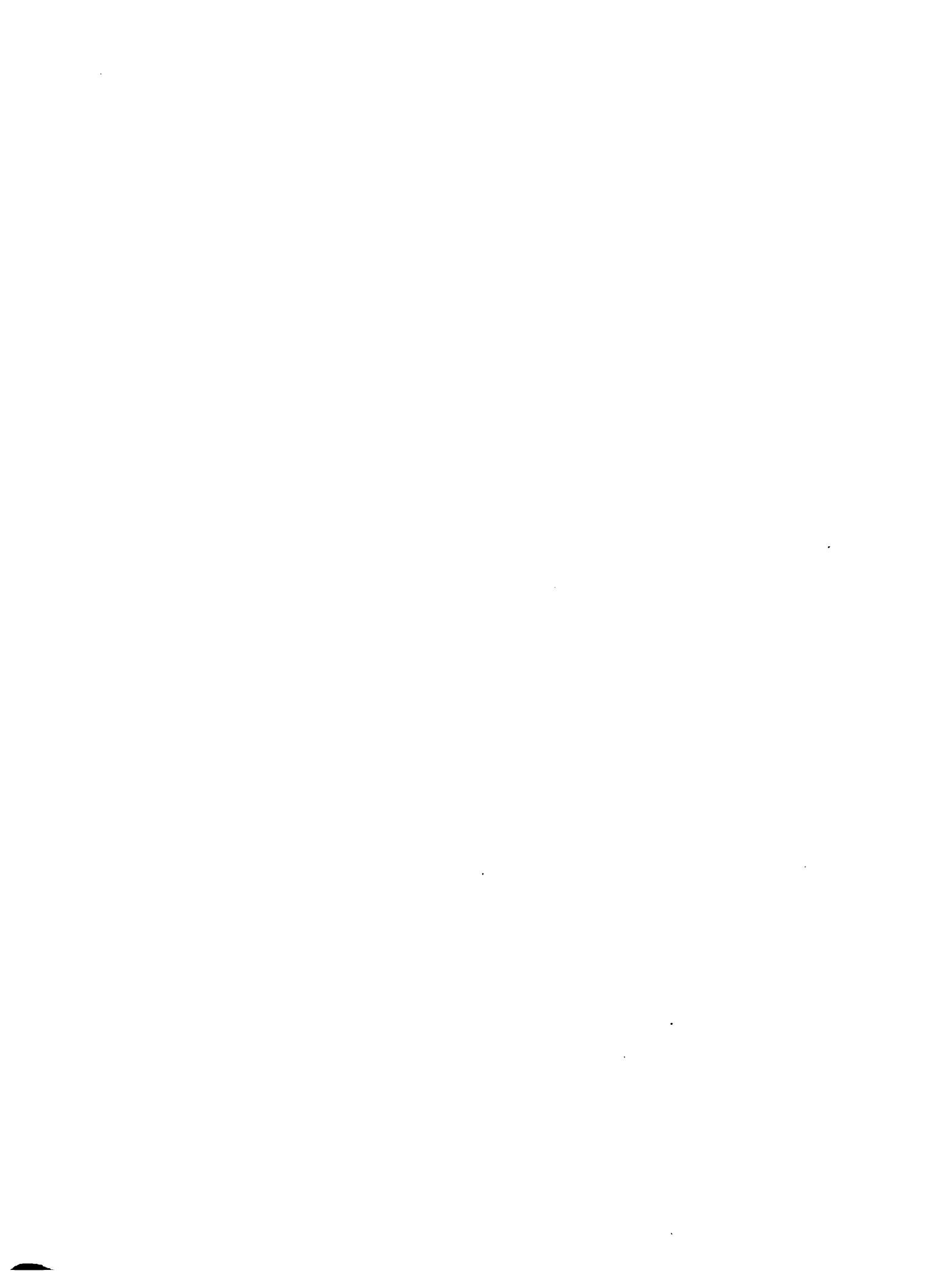
APPENDIX 1 (continued)

1. TROPICAL	2. TIERRA FRIA	3. DESERT	4. SUBTROPICAL
1.1 Semi-hot equatorial. Ex. Jakarta, Indonesia	2.1 Semi-tropical tierra fria. Ex. Bu-lawayo, Rhodesia	3.1 Hot tropical desert. Ex. Massawa, Ethiopia	5.1 Typical pampaeen. Ex. Nueve de Julio, Argentina
1.12 Semi-hot tropical. Ex. Rio de Janeiro, Brasil	2.2 Low tierra fria. Ex. Tananarive, Madagascar	3.2 Hot subtropical desert. Ex. Cairo, U.A.R.	5.2 Highland pampaeen. Ex. Pigüé, Argentina
1.13 Dry semi-hot tropical. Ex. Accra, Ghana	2.3 Medium tierra fria. Ex. Mexico City, Mexico	3.3 Semi-hot or cool tropical desert. Ex. Lima, Peru	5.3 Subtropical pampaeen. Ex. Houston, Tex., U.S.A.
1.4 Hot tropical. Ex. Madras, India	2.4. High tierra fria. Ex. La Paz, Bolivia	3.4 Cool subtropical desert. Ex. Wal-wis Bay, S.W. Africa	5.4 Marine pampaeen. Ex. Christchurch, N. Zealand
1.5 Semiarid tropical. Ex. Niamey, Niger	2.5 Low andine. Ex. Puno, Peru	3.5 Tropical highland desert. Ex. Las Andes, Colombia	5.5 Monsoon peri-pampaeen. Ex. Cor-doba, Argentina
1.6 Cool tropical. Ex. Hamilton, Bermudas	2.6 High andine. Ex. Cerro de Pasco, Peru	3.6 Continental desert. Ex. Kashgar, China	5.6 Semiarid peri-pampaeen. Ex. San Angelo, Tex., U.S.A.
1.7 Humid tierra templada. Ex. San José, Costa Rica	2.7 Andine mist forest. Ex. Pango-rango, Indonesia	3.8 Pampaeen desert. Ex. Mendoza, Argentina	5.8 Patagonian grassland. Ex. Fair-ile, N. Zealand
1.8 Dry tierra templada. Ex. Tabora, Tanzania	2.8 Andine tundra	3.9 Patagonian desert. Ex. Col. Sar-miento, Argentina	5.9 Semiarid patagonien. Ex. Lago Argentino, Argentina
1.9 Cool winter hot tropical. Ex. Cal-cutta, India	2.9 Andine sub-glacial desert		
5. PAMEAN	6. MEDITERRANEAN	7. MARINE	
	6.1 Subtropical mediterranean. Ex. Sevilla, Spain	7.1 Warm marine. Ex. Auckland, N. Zealand	
	6.2 Marine mediterranean. Ex. San Francisco, Cal., U.S.A.	7.2 Cool marine. Ex. London, U.K.	
	6.3 Cool marine mediterranean. Ex. Seattle, Wash., U.S.A.	7.3 Cold marine. Ex. Sitka, Alaska, U.S.A.	
	6.4 Tropical mediterranean. Ex. Funchal, Madeira	7.4 Polar marine. Ex. Heard Island	
	6.5 Temperate mediterranean. Ex. Marseille, France	7.5 Warm temperate. Ex. Bordeaux, France	
	6.6 Cold temperate mediterranean. Ex. Erzurum, Turkey	7.6 Cool temperate. Ex. Berlin, Germany	
	6.7 Continental mediterranean. Ex. Thessaloniki, Greece	7.7 Cold temperate. Ex. Helsinki, Finland	
	6.8 Subtropical semiarid mediterranean. Ex. Murcia, Spain	7.8 Humid patagonien. Ex. Ushuaia, Argentina	
	6.9 Continental semiarid mediterranean. Ex. Teheran, Iran		

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MEANS FOR SOY

VARIABLE	LABEL	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE	STD ERROR OF MEAN	SUM
YEAR		264	1.9/6500E+03	6.356339E+00	1966.0000	1.987000E+03	0 5.217960E+03	
CRESEXP		264	2.736631E+06	4.851963E+06	0.00000	3.193800E+07	298818 7.224706E+08	
POOR		264	1.742424E-01	3.800383E-01	0.00000	1.000000E+00	0 4.600000E+01	
BAD		264	6.439394E-02	2.459196E-01	0.00000	1.000000E+00	0 1.700000E+01	
GOOD		264	3.030303E-02	1.717454E-01	0.00000	1.000000E+00	0 8.000000E+00	
Y1NGH1		264	9.757327E-01	2.542585E-01	0.50797	1.459763E+00	0 2.575934E+02	
RNGH1		264	1.658457E+07	1.827831E+07	57227	7.2100 7.653429E+07	41124952 4.378325E+09	
PRNGH1		264	2.991818E+10	6.765842E+10	0.00000	3.421166E+11	4164088121 7.898400E+12	
LITYIELD		232	1.993929E-01	2.738140E-01	-0.89798	8.212559E-01	0 4.62915E+01	
BOLIVIA		264	8.333333E-02	2.769103E-01	0.00000	1.000000E+00	0 2.200000E+01	
BRMG		264	8.333333E-02	2.769103E-01	0.00000	1.000000E+00	0 2.200000E+01	
BRMT		264	8.333333E-02	2.769103E-01	0.00000	1.000000E+00	0 2.200000E+01	
BRPR		264	8.333333E-02	2.769103E-01	0.00000	1.000000E+00	0 2.200000E+01	
BRRS		264	8.333333E-02	2.769103E-01	0.00000	1.000000E+00	0 2.200000E+01	
BRSC		264	8.333333E-02	2.769103E-01	0.00000	1.000000E+00	0 2.200000E+01	
BRSP		264	8.333333E-02	2.769103E-01	0.00000	1.000000E+00	0 2.200000E+01	
SANTAFE		264	8.333333E-02	2.769103E-01	0.00000	1.000000E+00	0 2.200000E+01	
CORDOBA		264	8.333333E-02	2.769103E-01	0.00000	1.000000E+00	0 2.200000E+01	
BUENOS		264	8.333333E-02	2.769103E-01	0.00000	1.000000E+00	0 2.200000E+01	
LAPAMPA		264	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0 0.000000E+00	
URUGUAY		264	8.333333E-02	2.769103E-01	0.00000	1.000000E+00	0 2.200000E+01	
PARAGUAY		264	8.333333E-02	2.769103E-01	0.00000	1.000000E+00	0 2.200000E+01	
CHILE		264	0.000000E+00	0.000000E+00	0.00000	0.000000E+00	0 0.000000E+00	
EXTEN		242	4.212217E+04	1.479884E+05	11.00000	6.384365E+05	9513 1.019357E+07	
MAREA		242	1.362645E+06	1.438439E+06	1587.95500	4.320713E+06	92466 3.29752E+08	
EXTENA		264	6.968959E-02	2.302334E-01	0.00000	1.040762E+00	0 1.839805E+01	
EXTA		264	2.379740E-01	7.843869E-01	0.00001	3.62812E+01	0 2.200000E+01	
STRESA		264	2.263846E+06	4.316027E+06	0.00000	2.958450E+07	265633 5.976532E+08	
NYTE'DA		264	1.038862E+00	1.920913E-01	0.50797	1.510622E+00	0 2.742595E+02	
LCRESEXP		264	1.195442E+01	4.906592E+00	0.00000	1.727931E+01	0 3.155968E+03	
LASTRESA		264	1.231065E+01	3.967015E+00	0.00000	1.720276E+01	0 3.250011E+03	
LYIELD		264	2.009504E-02	1.937588E-01	-0.67734	4.121508E-01	0 5.305091E+00	
LRNGH1		264	1.558971E+01	1.855432E+00	10.95479	1.815325E+01	0 4.115683E+03	
LPRNGH1		264	8.126180E+00	1.156033E+01	0.00000	2.655842E+01	1.2.145311E+03	
LEXTA		264	5.708835E+00	3.309358E+00	-11.49804	1.292716E+00	0-1.507132E+03	
LRESEX		264	3.454668E+00	1.187175E+01	0.00000	5.997295E+01	1.9.1.20325E+02	
LSRNR		264	2.407608E+08	2.762862E+08	0.00000	1.083712E+09	64728839088 1.207579E+14	
LSRNPR		264	4.574162E+11	1.051719E+12	0.00000	5.811838E+12	64728839088 1.207579E+14	
LSRRATIO		264	1.468520E+04	3.764483E+04	0.00000	2.422052E+05	2317 3.929693E+06	



**PROGRAMA COOPERATIVO DE
INVESTIGACION AGRICOLA DEL CONO SUR**

ATN/TF-2434-RE

PROCISUR

**Sede: Andes 1365, Piso 8
(Casilla de Correo 1217)**

**Teléfonos: 92 04 24 - 92 01 60
Telex: 22571 IICA UY
Fax: 005982921318**

Montevideo, Uruguay

FECHA DE DEVOLUCION

2 MAY 1994

PROCISUR/OOCA
E14
C957

Autor

Título The impacts of the PROCISUR
program: an international
study

Fecha
Devolución

Nombre del solicitante

INSTITUTO INTERAMERICANO DE COOPERACION PARA LA AGRICULTURA