

The World's Largest Open Access Agricultural & Applied Economics Digital Library

This document is discoverable and free to researchers across the globe due to the work of AgEcon Search.

Help ensure our sustainability.

Give to AgEcon Search

AgEcon Search
http://ageconsearch.umn.edu
aesearch@umn.edu

Papers downloaded from **AgEcon Search** may be used for non-commercial purposes and personal study only. No other use, including posting to another Internet site, is permitted without permission from the copyright owner (not AgEcon Search), or as allowed under the provisions of Fair Use, U.S. Copyright Act, Title 17 U.S.C.

USDA's Economic Research Service has provided this report for historical research purposes.

Current reports are available in *AgEcon Search*

(http://ageconsearch.umn.edu)

and on https://www.ers.usda.gov.



FOOD AND AGRICULTURAL POLICY SIMULATOR (FAPSIM): STRUCTURAL EQUATIONS AND VARIABLE DEFINITIONS

DEPARTMENT OF AGRICULTURAL AND APPLIED ECONOMICS
232 CLASSROOM OFFICE BLDG.
1994 BUFORD AVENUE, UNIVERSITY OF MINNESOTA
ST. PAUL, MINNESOTA 55108

STAFF REPORT

NATIONAL ECONOMICS DIVISION



ECONOMIC RESEARCH SERVICE

UNITED STATES DEPARTMENT OF AGRICULTURE



This paper was reproduced for limited distribution to the research community outside the U.S. Department of Agriculture.

630,72. F33 G339

FOOD AND AGRICULTURAL POLICY SIMULATOR (FAPSIM): STRUCTURAL EQUATIONS AND VARIABLE DEFINITIONS

Ву

Kenneth E. Gadson
J. Michael Price
Larry E. Salathe

Staff Report AGES820506
U.S. Department of Agriculture
Economic Research Service
National Economics Division
Food and Agricultural Policy Branch

May 1982

WAITE MEMORIAL BOOK COLLECTION

DEPARTMENT OF AGRICULTURAL AND APPLIED ECONOMICS

232 CLASSROOM OFFICE BLDG.

232 CLASSROOM OFFICE BLDG.

234 CLASSROOM OFFICE BLDG.

235 CLASSROOM OFFICE BLDG.

236 CLASSROOM OFFICE BLDG.

237 CLASSROOM OFFICE BLDG.

238 CLASSROOM OFFICE BLDG.

238 CLASSROOM OFFICE BLDG.

239 CLASSROOM OFFICE BLDG.

230 CLASSROOM OFFICE BLDG.

231 CLASSROOM OFFICE BLDG.

231 CLASSROOM OFFICE BLDG.

232 CLASSROOM OFFICE BLDG.

232 CLASSROOM OFFICE BLDG.

233 CLASSROOM OFFICE BLDG.

234 CLASSROOM OFFICE BLDG.

235 CLASSROOM OFFICE BLDG.

236 CLASSROOM OFFICE BLDG.

237 CLASSROOM OFFICE BLDG.

237 CLASSROOM OFFICE BLDG.

238 CLASSROOM OFFICE BLDG.

238 CLASSROOM OFFICE BLDG.

239 CLASSROOM OFFICE BLDG.

240 CLASSROOM OFFICE BLDG.

250 CLASSROOM OFFICE BLDG.

251 CLASSROOM OFFICE BLDG.

252 CLASSROOM OFFICE BLDG.

252 CLASSROOM OFFICE BLDG.

253 CLASSROOM OFFICE BLDG.

254 CLASSROOM OFFICE BLDG.

255 CLASSROOM OFFICE BLDG.

256 CLASSROOM OFFICE BLDG.

257 CLASSROOM OFFICE BLDG.

257

FOOD AND AGRICULTURAL POLICY SIMULATOR (FAPSIM): STRUCTURAL EQUATIONS AND VARIABLE DEFINITIONS. By Kenneth E. Gadson, J. Michael Price, and Larry E. Salathe; National Economics Division; Economic Research Service; U.S. Department of Agriculture. May 1982. ERS Staff Report No. AGES 820506.

ABSTRACT

This report provides a detailed description of the structural equations and their statistical attributes in the current version of the Food and Agricultural Policy Simulator (FAPSIM). FAPSIM is an annual econometric model of the U.S. agricultural sector. It estimates a simultaneous price-quantity equilibrium solution for a set of individual commodity models developed for beef, pork, dairy, chickens, eggs, turkeys, corn, oats, barley, grain sorghum, wheat, soybeans, and cotton. It also endogenously estimates farm production expenses, cash receipts, net farm income, Government deficiency and reserve storage payments, consumer price indexes for food products, and farmer participation in Government commodity programs.

Keywords: Agriculture, crops, econometric model, feedgrains, livestock, policy analysis

st This paper was produced for limited distribution st

^{*} to the research community outside the U.S. Depart-*

TABLE C	F C	CON	TEI	NTS	,
---------	-----	-----	-----	-----	---

	Page
Introduction	1
Model Overview	4
Tananah Cubanatar	5 5
Supply Demand	6
Price	7
Crops Subsector	8
Supply	8 12
DemandStocks and Price	13
Structural Equations	15
Tivestock	16 16
Pork	30
BeefPoultry	55
Dairy	85
Crops	135
Southanne	135
Wheat	160 187
Corn	215
SorghumBarley	245
Oats	269
Cotton	287
Farm Income	308
Harm Pagaints	308
Production Expenses	335
Food Price Indexes	351
Glossary	369
Index	385 393
References	393

The agricultural sector model described in this article is the outgrowth of research by numerous individuals spanning over three decades.1/
In the decades of the 1950's and 60's researchers in the Economic Research Service (ERS) began developing econometric models for selected commodities (22).2/ Such models were generally small (not exceeding ten equations) and recursive, reflecting the lack of computational capability. It was not until the mid-1960's that various researchers in ERS urged that resources be devoted toward the development of a comprehensive model of the U.S. agricultural sector. The motivation for development of such a model was twofold. First, the model would enhance and support the Agency's intermediate—term economic intelligence and forecasting ability. Secondly, the model would provide a means for evaluating and quantifying the impacts of alternative legislative proposals and policies on the agricultural sector.

The decade of the 1970's began with James Matthews as head of the Price Research and Methods Section, ERS. Under his leadership work began on a model that would reflect major components of the total U.S. agricultural industry. Model development was to proceed in two steps. First, models would be developed for individual commodities or commodity groups. Once a model was operational, it would be linked to other commodity models via common variables.

^{1/} The authors thank Charlotte Tucker and Jim Tannehill for providing statistical assistance and Rosa Pitts for her superb typing of the manuscript. Numerous other individuals have made invaluable contributions towards the development of FAPSIM. The range of contributions precludes identifying all individuals responsible for its development. Unable to provide an exhaustive list of individuals contributing to the model's development, the authors simply wish to gratefully acknowledge the previous research efforts of such individuals.

 $[\]frac{2}{\text{at}}$ Underlined numbers in parentheses refer to items in the References listed at the end of this report.

The first phase of the process built on previous research both within and outside of ERS. This phase began with the development of an econometric model of the soybean industry ($\underline{11}$). This model underwent several revisions during the decade of the 1970's ($\underline{16},\underline{15},\underline{2}$). Annual econometric models for the major livestock commodities were also developed in the early and mid-1970's and updated and revised in the late 1970's ($\underline{6},\underline{7},\underline{8},\underline{12},\underline{23}$).

Several problems were encountered in linking the various models. As a result, the process of linking the various models tended to lag behind the development of the individual component models. One problem encountered in linking the various models was the difficulty in maintaining commonality in variable definitions across models. Oftentimes it was necessary to reestimate portions of the various commodity models using common variables prior to including them in the linked system. A more serious and difficult problem manifested itself as more models were added to the linked system. As the size of the system grew, the dynamic properties of the linked system became unstable even though the individual commodity models displayed stable characteristics.

Despite these problems, the initial version of the linked crops-livestock model, known as the Cross Commodity Forecasting System (CCFS), was made operational late in the decade of the 1970's. The CCFS consisted of approximately 160 equations for predicting prices, supplies, utilization, and ending stocks of beef, pork, milk, chickens, turkeys, eggs, corn, oats, barley, grain sorghum, wheat, soybeans, soybean meal and soybean oil (19). Generally, the model's equations were based on annual data prior to 1977.

After ERS's 1979 reorganization, work began on updating the CCFS. Under the direction of Larry Salathe the entire CCFS was updated in The model was also altered in order to enhance its policy analysis capability in preparation for analyzing alternative policies considered during the reauthorization of the 1981 Farm Bill. Respecification of numerous equations in the CCFS became necessary because the inclusion of data for the late 1970's altered equation parameter signs. Major modifications of the model in preparation for the 1981 Farm Bill included adding equations to predict: cotton prices, supplies, and utilization; production, utilization, and government purchases of butter, cheese, nonfat dry milk, fluid milk, frozen milk products, and condensed and evaporated milk; crop yields; consumer food price indexes for major food categories; and government outlays for deficiency and reserve storage payments and dairy price support operations for major farm commodities. In addition, a new approach for predicting crop acreage response was incorporated into the model.

The new model was named the Food and Agricultural Policy Simulator (FAPSIM) to emphasize its policy analysis capability. However, the new model has demonstrated, since it became operational in early 1981, an ability to predict future events with reasonable accuracy. Currently, it contains 360 endogenous and 265 exogenous variables. Our purpose here is to provide an overview and to present the model's structural equations and their statistical attributes.

MODEL OVERVIEW

Prior to solving for equilibrium commodity prices, production, and utilization (consumption, exports, and stock levels) in any particular

year, all of the exogenous variables are initialized. A major subcategory of exogenous variables includes Government policy variables such as individual crop loan rates, target prices, national program yields and acreages, and diversion and set-aside rates. Another major subcategory of exogenous variables includes macroeconomic variables such as population, disposable personal income, food processing wage rates, petroleum prices, and the nonfood consumer price index.

The livestock and crop components of the model are solved simultaneously.3/ In the model livestock slaughter, breeding herd size, and replacement numbers are functions of lagged crop year prices. For example, the number of heifers added to the breeding herd during calendar year 1980 is specified as a function of the price of corn in crop year 1979 (Oct. 1979-Sept. 1980).4/ Crop prices are also affected by livestock prices and livestock numbers. For example, corn feed demand in crop year 1979 is specified as a function of the number of grain-consuming animal units on farms and an index of livestock prices in calendar year 1980.

Farm cash receipts, production expenses, and net farm income are calculated for calendar year 1980 based on crop year prices and production

^{3/} A Gauss-Siedel solution algorithm is used to solve the model's simultaneous system of equations. An indepth discussion of this algorithm may be found in (4).

^{4/} A variety of regression formulations were specified to evaluate the appropriateness of alternative linkages between calendar year livestock and marketing (crop) year crop variables. A comparison of the regression results indicated that models specifying livestock production as a function of lagged crop prices generally had more reasonable parameter values and lower mean square errors than alternative specifications.

in 1979 and 1980 and on livestock prices and production and the prices of farm inputs in calendar year 1980. The consumer price indexes for food and all items (food and nonfood) are computed by weighting individual consumer price indexes for livestock and crop commodities by their relative importance as determined by the Bureau of Labor Statistics. The consumer price index for all items is endogenously computed and is used as a general deflator in all retail demand equations.

A set of general functional relationships is provided below for each major subsector. These relationships are typical of those contained in the model.

LIVESTOCK SUBSECTOR

Livestock commodities contained in FAPSIM include beef, pork, dairy, chickens, eggs, and turkeys. Each individual livestock submodel consists of a set of equations used to estimate production (slaughter), market and retail prices, civilian consumption, and ending stocks. In addition to these variables, the dairy submodel also contains a detailed milk processing component.

Supply

Considerable detail is provided on the stock of breeding animals, additions to the breeding stock, slaughter of the breeding stock, and the size of the livestock crop. The identity given below is used to track changes in the stock of breeding animals:

$$HERD_{t} = \lambda HERD_{t-1} + ADD_{t} - SLTR_{t}$$
 (1)

where:

HERD, = the ending stock of breeding animals on farms in year t,

 λ = survival rate,

 ADD_{t} = additions to the breeding herd in year t, and

SLTR_t = slaughter of breeding animals in year t.

Similar accounting identities are employed to track changes in the number of market animals on farms.

Slaughter of breeding animals depends on the profitability of livestock feeding. The number of breeding animals slaughtered is positively related to the stock of breeding animals and negatively related to the ratio of livestock price to feed price. Additions to the breeding herd are a function of the ratio of livestock price to feed price and of the number of animals eligible to enter the breeding herd.

The stock of breeding animals influences the size of the livestock crop.

The size of the livestock crop in turn determines future livestock slaughter as well as additions to the breeding herd. Livestock slaughter depends on the ratio of livestock price to feed costs and on the number of market animals on farms. Total livestock production is expressed as a linear function of the number of animals slaughtered. Total supply of livestock equals livestock production plus beginning stocks and imports. Imports are treated as exogenous.

Demand

Civilian consumption of livestock is determined by the identity:

$$CDISAP_{t} = PROD_{t} - STOCKS_{t} + STOCKS_{t-1} + IMPORTS_{t} - MDISAP_{t}$$

$$- EXPORTS_{t}$$
(2)

where:

CDISAP_t = civilian consumption in year t,

PROD_t = production in year t,

STOCKS_t = ending stocks in year t,

 $MDISAP_t$ = military consumption in year t,

 $EXPORTS_{t} = exports in year t, and$

 $IMPORTS_t = imports in year t.$

Military consumption and exports are treated as exogenous. Ending stocks are expressed as a function of total supply and the ratio of current to lagged retail price.

Price

The retail price index for each livestock commodity is determined by an econometric relationship expressing the real retail price as a function of own per capita consumption, real per capita disposable income, and the retail prices of competing livestock products. These price-dependent demand equations are homogenous of degree zero in prices and income. Competing livestock prices are included in each demand equation. For example, the retail price index for pork is a function of the retail prices of beef and poultry (chicken and turkey).

Farm and market prices of each livestock commodity are estimated using the corresponding retail price index and variables reflecting meat processing and marketing costs. The wage rate in each livestock processing industry and a general fuel price index are used as proxies for changes in meat processing and marketing costs.

Each livestock submodel consists of a simultaneous system of equations and is linked to other livestock models through either production or retail demand. Livestock production and prices in turn affect the crops subsector through the demand for feed.

CROPS SUBSECTOR

Crop commodities in FAPSIM include corn, oats, barley, grain sorghum, wheat, soybeans, and cotton. Each crop submodel consists of a set of equations used to estimate production, total supply and demand, price, and ending stocks. The soybean submodel also contains a soybean processing component.

Supply

Total supply of each crop is computed as the sum of production, beginning stocks, and imports. Imports are treated as exogenous. Production is determined by multiplying acreage harvested by yield per harvested acre. Both acreage harvested and yield are determined endogenously. Acreage harvested is expressed as a linear function of acreage planted. Yields are expressed as a linear function of acreage planted, acreage set—aside and diverted, weather, and the ratio of lagged crop price to the price of fertilizer. Time is included to reflect changes in technology, such as hybrid seed, drought—resistant seed varieties, and increases in seeding rates.

A major shortcoming of previous research has been the failure by economist to develop acreage response equations that explicitly predict the level of farmer participation in government commodity programs. For example, Houck and Ryan (10) developed response equations containing Government policy variables such as the effective support price and the effective diversion payment rate. These equations can be used to predict total acreage response, but they cannot predict the level of participation in Government programs.

The acreage response relationships contained in FAPSIM reflect the relative profitability of either participating or not participating in a Government commodity program. 5/ The expected net return per acre for a program participant producing crop i is:

$$EPR_{i} = [(EPP_{i}*EY_{i} - VC_{i})(1.0 - (SA_{i} + DIV_{i}))] + [SR_{i}*PY_{i}(1.0 - (SA_{i} + DIV_{i}))] ALLOC_{i} + [DR_{i}*PN_{i}*PY_{i}*DIV_{i}]$$
(3)

where:

EPR; = expected program return per acre for crop i,

EPP; = the maximum of the loan rate and the expected market price,

EY; = expected yield per acre,

VC; = variable cost per acre,

PY; = national program yield,

 SA_i = proportion of each acre required to be set-aside,

DIV_i = proportion of each acre required to be diverted,

 DR_{i} = diversion payment rate per bushel,

 $ALLOC_i$ = minimum national program allocation factor, and

 PN_i = proportion of acreage eligible for diversion payments.

^{5/} The acreage response equations contained in FAPSIM follow from previous research by Robert Bancroft of the University of Vermont, while he was employed by ERS (1). The authors wish to thank Dr. Bancroft for his valuable assistance.

The expected net return per acre for a Government program nonparticipant producing crop i is given by the identity:

$$EMR_{i} = EMP_{i} * EY_{i} - VC_{i}$$
(4)

where:

EMR; = expected market net return per acre for crop i,

EMP_i = expected market price,

VC; = variable cost per acre, and

EY; = expected yield per acre.

Central to the development of acreage response equations is the construction of variables that reflect farmers' perceptions of expected prices and yields. There appear to be at least two alternative price mechanisms that farmers might use as the basis for their price expectations. The first is actual market price prior to planting, and the second is the futures market price at harvest. Given the problems in predicting futures market prices, especially in an annual simulation framework, a simple average of monthly crop prices 1 to 5 months prior to planting is assumed to represent farmers' price expectations.6/ The expected price prior to planting is endogenously determined as a function of the season average market price in the previous crop year.

Crop yields are also unknown at the time of planting. Again there appear to be at least two alternative yield estimates that farmers may use as the basis for their planting decision. First, farmers can base future yield perceptions on past or experienced yield levels. Or alternatively, they

 $[\]underline{6}/$ The average of monthly crop prices prior to planting is adjusted to reflect the historical movement in crop prices between planting and harvest.

can discount abnormal weather conditions in past years and base their expected yield perceptions on yields realized under "normal weather" conditions. In FAPSIM, expected yields are generated by regressing actual yields on time, which assumes farmers base their expected yield perceptions on "normal weather" yield trends.

The expected net return variables are used to estimate acreage response by participants and nonparticipants. Total acreage in the program (planted plus diverted and set-aside acreage) for crop i is expressed as a behavioral relationship of the form:

$$PA_{i} = f \frac{EPR_{i}}{CPI}, \frac{EMR_{i}}{CPI}, \frac{APP_{i}}{CPI}, NP_{i}(1.0 - SD_{i})$$
 (5)

where:

PA; = program acreage for crop i,

 APP_{i} = the average expected net return of competing crops,

NP; = national program acreage for crop i,

 SD_{i} = set-aside plus diversion rate for crop i, and

CPI = the all item consumer price index lagged one period; and where EPR_i and EMR_i are defined as above (equations 3 and 4). Program acreage is positively related to the deflated, expected program return (EPR_i/CPI) because this variable represents the profitability of planting crop i and of participating in the Government program. Total program acreage is negatively related to the real, expected, market net return for crop i (EMR_i/CPI), as it measures the attractiveness of nonparticipation, and is negatively related to the average real return for competing crops (APP_i/CPI). Because the announced national program acreage and diversion requirements place an upper limit on total program acreage, an expansion in national program acreage or a reduction in set-aside and diversion rates will expand total program acreage.

Total acreage planted to a particular crop by program participants is a function of total program acreage multiplied by program set—aside and diversion rates. Acreage set—aside and diverted is calculated endogenously as total program acreage minus acreage planted by participants. The participation rate is endogenously computed as acreage planted by participants divided by the sum of acreage planted by participants and nonparticipants.

Acreage planted to crop i by nonparticipants is a function of acreage planted to crop i by program participants, acreage set—aside and diverted, the real expected net return of competing crops, and the real expected market return for planting crop i. Acreage planted in the program, acreage set—aside and diverted, and the real, expected, net return of competing crops all represent the desirability of using land for alternative purposes. Thus, acreage planted to crop i by nonparticipants is inversely related to each of these variables. Acreage planted by nonparticipants is positively related to the real, expected, market net return.

Demand

Total demand is the sum of export, seed, food, and feed demand. Exports of corn, wheat, soybeans, soybean meal, soybean oil, grain sorghum, and cotton are endogenously determined. Exports are generally expressed as a function of domestic price deflated by the exchange rate, the exchange holdings of major importing countries, and grain and livestock production in major grain importing countries. Per capita food demand for crop i is a function of the real price of crop i, the real price of competing crops, and real disposable per capita income. The real price of each crop is the farm price deflated by the all item consumer price index. The farm price is included in these relationships because retail prices for individual crops are not available.

Feed demand for each crop is a function of own crop price and the prices of competing crops deflated by an index of livestock prices, and a livestock production index. This formulation assumes that livestock producers increase feeding rates when crop prices decline relative to livestock prices. The livestock production index is an average of the number of livestock on farms, weighted to reflect the relative amounts of grain fed to different types of livestock.

Seed demand is a function of acreage planted in the following year, current crop price, and a time trend. The time trend is included to reflect increases in seeding rates per acre. Seed demand is positively related to crop price and acreage planted.

Stocks and Price

A common approach to estimate stock levels is to calculate ending stocks as the residual difference between total supply and total demand. The basic model framework using this approach is:

$$S_{t} = S(P_{t-1}) \tag{7}$$

$$D_{t} = D(P_{t}) \tag{8}$$

$$ST_{t} = S_{t} - D_{t} + ST_{t-1}$$

$$\tag{9}$$

$$P_{t} = P(ST_{t}/D_{t}) \tag{10}$$

where:

 $S_t = total supply in period t$,

 D_{t} = total demand in period t,

 P_t = price in period t, and

 ST_t = total ending stocks in period t.

Current year price is a function of the ratio of ending stocks to total demand. This is commonly referred to as a "disequilibrium" model stemming from the failure of the price equation (10) to necessarily equate supply and demand. This failure results from the estimation of equation (10) as a structural, rather than a reduced form, equation. The FAPSIM model uses the alternative framework:

$$S_{t} = S(P_{t-1}) \tag{7'}$$

$$D_{t} = D(P_{t}) \tag{8'}$$

$$ST_{t} = ST(P_{t}) \tag{9'}$$

$$P_{t} = F^{-1}[S(P_{t-1}) + ST_{t-1} - D(P_{t}) - ST(P_{t})]$$
 (10')

where market price (equation (10')) is determined by substituting equations (7') through (9') into the supply-demand identity and solving for price. Comparison of equations (10) and (10') indicates that equation (10) will not necessarily provide a market clearing price consistent with specified demand and supply functions.

Past theoretical research suggests that the demand for commercial stocks consists of two components: (1) a speculative demand and (2) a transactions demand (14). Transactions demand for stocks is normally expressed as a function of sales whereas the speculative component is normally expressed as a function of expected price. These two stock demand components, suggest that commercial stock levels are a function of own (current) real price, and total crop demand. The level of Government and reserve stocks are also included in the commercial stock equations as they may partially substitute for commercial stock holdings.

Pork, retail price index

PORIR.67 = .028178 .YPD\$/.NPC (1.19)

- .00014152[(PORCC-77)(.PC)/.NPC] (-12.31)

+ .314552 BEEIR + .285827 .PCPOU (4.27) (7.07)

+ .013007 .PC (8.37)

Estimation technique = 0.L.S.

Sample period = 1955-79

R²(ADJ) = 0.9279

D.W. = 2.0000

S.E.E. = 0.0003

YY1	PORIR.67	Pork, retail price index	1967=1.0
Z34	.YPD\$	Personal disposable income	bil. dol.
Z1	. NPC	Population, total	mil.
YY14	PORCC-77	Pork, civilian disappearance	mil. lbs.
YY201	.PC	Consumer price index, all items	1967=100
YY38	BEEIR	Beef, retail price index	1967=1.0
YY195	.PCPOU	Consumer price index, poultry	1967=1.0

Farmer-owned reserve (FOR) and Government stock levels are determined by the use of a set of decision rules. We assumed that Government and reserve stocks will accumulate up to the point where crop price equals the designated loan rate. If the initial equilibrium price is above the designated reserve release level, reserve stocks are either released until the equilibrium price falls to the FOR release price or reserve stocks are depleted. Similarly if the initial equilibrium price is above the CCC (Commodity Credit Corporation) release price and reserve stocks are either zero or below their specified minimum, Government stocks are released until the equilibrium price falls to the CCC release price or until such holdings are depleted.

STRUCTURAL EQUATIONS

The remainder of this report provides statistical information on the structural equations currently contained in FAPSIM.7/ The equations are grouped into 4 general categories; livestock, crops, farm income and expenditures, and retail food price indexes. Each of the 4 general categories are further disaggregated into sub-categories. For example, livestock is disaggregated into pork, beef, poultry, and dairy and crops is segmented into soybeans, wheat, corn, sorghum, barley, oats, and cotton. Within each sub-category, the equations are numerically ordered.

The statistical results are generally self explanatory with the numbers in parentheses denoting t-statistics. The endogenous and exogenous variables of FAPSIM are ordered by equation code numbers in the glossary. An alphabetical listing of the endogenous variables is presented in the index.

^{7/} The model's sensitivity and dynamic properties are examined in $(\underline{18})$.

Sows, market price

SOWPM7C = - 3.40984 - 5.81190 DUM76 (-2.56) (-2.77)

- 3.92746 .WRHMP (-2.40)
- 6.30419 .PW051* (-1.47)
- + 40.3308 PORIR.67 (10.44)

Estimation technique = 0.L.S.

Sample period = 1960-79
R²(ADJ) = 0.9698
D.W. = 2.0704
S.E.E. = 1.8464

YY2	SOWPM7C	Sows, market price, seven markets	\$/cwt.
	DUM76	Dummy variable, 1976	
Z 5	.WRHMP	Wage rate, meat packing industry	\$/hr.
Z8	.PW051*	Fuel and utilities, consumer price index	1967=1.0
YY1	PORIR.67	Pork, retail price index	1967=1.0

Barrows and gilts, market price

BAGPM7C = -3.12669' - 3.36076 .WRHMP (-2.95) (-2.58)

- 7.21051 .PW051* - 3.92248 DUM76 (-2.12) (-2.35)

+ 41.9544 PORIR.67 (13.64)

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.9848

D.W. = 1.9228

S.E.E. = 1.4703

YY3	BAGPM7C	Barrows and gilts, market price, seven markets	\$/cwt.
Z 5	.WRHMP	Wage rate, meat packing industry	\$/hr.
Z8	.PWO51*	Fuel and utilities, consumer price index	1967=1.0
	DUM76	Dummy variable, 1976	
YY1	PORIR.67	Pork, retail price index	1967=1.0

Sows, slaughter

SOWKS = 5.12635 + .377852 HOGSNBR(-1) (2.80) (2.10)

- 1.21585 DUMPIG - 1.50202 DUM7576 (5.83) (-3.68)

- .124754 BAGPM7C/CORPF(-1) (-4.61)

Estimation technique = 0.L.S.

Sample period = 1956-79

R²(ADJ) = 0.8977

D.W. = 1.5048

S.E.E. = 0.3968

YY4	SOWKS	Sows, slaughter	mil. hd.
YY6	HOGSNBR	Hogs, breeding, number on farms, Dec. 1	mil. hd.
	DUMPIG	Dummy variable for redefinition of the breeding herd	
	DUM7576	Dummy variable, 1975-76	
YY127	CORPF	Corn, average farm price, OctSept.	\$/bu.
YY3	BAGPM7C	Barrows and gilts, market price, seven markets	\$/cwt.

Pigs, additions to breeding herd

PIGSEBR = 2.76675 - .505553 HOGSNBR(-1) (1.68) (-2.40)

- 1.12022 DUM74 + 1.08807 SOWKS (-2.14) (7.88)

+ .0665079 BAGPM7C/CORPF(-1) (1.78)

Estimation technique = 0.L.S.

Sample period = 1956-79

R²(ADJ) = 0.8191

D.W. = 1.9749

S.E.E. = 0.4920

YY5	PIGSEBR	Pigs, additions to breeding herd	mil. hd.
YY6	HOGSNBR	Hogs, breeding, number on farms, Dec. 1	mil. hd.
	DUM74	Dummy variable, 1974	
YY4	SOWKS	Sows, slaughter	mil. hd.
YY3	BAGPM7C	Barrows and gilts, market price, seven markets	\$/cwt.
YY127	CORPF	Corn, average farm price, OctSept.	\$/bu.

Hogs, breeding hogs on farms, Dec. 1
HOGSNBR = PIGSEBR - SOWKS + HOGSNBR(-1)

YY4	SOWKS	Sow, slaughter	mil. hd.
YY5	PIGSEBR	Hogs, additions to breeding herd	mil. hd.
YY6	HOGSNBR	Hogs, breeding, number on farms, Dec. 1	mil. hd.

Hogs, pig crop

YY4

SOWKS

PIGSC = - 15.3369 + 14.1343 HOGSNBR(-1) - 2.89258 PIGSEBR(-1) (-1.62) (10.89) (-2.96)

+ 6.27230 DUMPIG - 10.1601 DUM69 - 5.31062 DUM78 (3.21) (-3.58) (-1.81)

- 3.96483 (SOWKS - PIGSEBR) (-3.72)

Estimation technique = 0.L.S.

Sample period = 1958-79

R²(ADJ) = 0.8704

D.W. = 2.1003

S.E.E. = 2.6101

Variable numbers, names and descriptions

Sows, slaughter

YY7	PIGSC	Hogs, pig crop	mil. hd.
YY6	HOGSNBR	Hogs, breeding, number on farms, Dec. 1	mil. hd.
	DUMPIG	Dummy variable for redefinition of the breeding herd	•
YY5	PIGSEBR	Pigs, additions to breeding herd	mil. hd.
	DUM69	Dummy variable, 1969	
	DUM78	Dummy variable, 1978	•

mil. hd.

Barrows and gilts, slaughter

BAGKS =
$$-9.83595 + .846121 \text{ HOGSM}(-1)$$

(-2.40) (10.61)

Estimation technique = 0.L.S.

Sample period = 1961-80

R²(ADJ) = 0.9613

D.W. = 2.2766

S.E.E. = 1.2604

8YY	BAGKS	Barrows and gilt, slaughter	mil. hd.
YY12	HOGSM	Hogs, market, number on farms, Dec. 1	mil. hd.
YY7	PIGSC	Hogs, crop	mil. hd.
	DUMPIG	Dummy variable for redefinition of the breeding herd	
	DUM73	Dummy variable, 1973	

Pork, production

PORAP-77 = -2060.69 + 30.0115 .TIME (-4.79) (7.60)

+ 157.791 (BAGKS + 1.5 SOWKS) + 20.5658 BAGPM7C(-1)/CORPF(-2) (42.24) (3.03)

Estimation technique = 0.L.S.

Sample period = 1955-79

R²(ADJ) = 0.9895

D.W. = 1.6763

S.E.E. = 100.29

YY9	PORAP-77	Pork, production, carcass weight	mil. lbs.
Z30	.TIME	Year, 1955=55	
8YY	BAGKS	Barrows and gilt, slaughter	mil. hd.
YY4	SOWKS	Sows, slaughter	mil. hd.
YY3	BAGPM7C	Barrows and gilts, market price, seven markets	\$/cwt.
YY127	CORPF	Corn, average price received by farmers, OctSept.	\$/bu.

Pork, ending stocks

PORHT1 = - 279.801 + .0361257 PORAS-77 (-1.96) (3.73)

- 70.0842 D60 + 76.3264 D75 (-1.78) (1.71)

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.4451

D.W. = 2.4845

S.E.E. = 38.189

YY10	PORHT1	Pork, ending stocks	mil.	lbs.
YY13	PORAS-77	Pork, supply, carcass weight	mil.	lbs.
	D60	Dummy variable, 1960		
	D75	Dummy variable, 1975		

Hogs, total slaughter

HOGKS = SOWKS + BAGKS

YY11	HOGKS	Hogs, total slaughter	mil. hd.
YY4	SOWKS	Sow, slaughter	mil. hd.
VV8	BAGKS	Barrow and gilt, slaughter	mil. hd.

Hogs, market, number on farms, Dec. 1
HOGSM = PIGSC(1.- PIGDD) - BAGKS - PIGSEBR
+ HOGSM(-1)*(1.- PIGDD)

YY12	HOGSM	Hogs, market, number on farms, Dec. l	mil. hd.
YY7	PIGSC	Hogs, pig crop	mil. hd.
844	BAGKS	Barrow and gilt, slaughter	mil. hd.
YY5	PIGSEBR	Hogs, additions to breeding herd	mil. hd.
Z 6	PIGDD	Hogs, percent death loss	

Pork, total supply

PORAS-77 = PORAP-77 + PORHT1(-1) + PORMI-77

YY13	PORAS-77	Pork, total supply	mil. lbs.
YY9	PORAP-77	Pork, production	mil. lbs.
YY10	PORHT1	Pork, ending stocks	mil. 1bs.
7.13	PORMI-77	Pork, imports	mil. lbs.

Pork, civilian disappearance

PORCC-77 = PORAS-77 - PORHT1 - PORMX-77 - PORCM-77

YY13 PORAS-77 Pork, total supply mil.	lbs.
and the control of th	lbs.
YY10 PORHT1 Pork, ending stocks mil.	lbs.
Z12 PORMX-77 Pork, exports mil.	lbs.
Z14 PORCM-77 Pork, military use mil.	lbs.

Beef, cows, number on farms, Jan 1.
COWSNBE = HEISBBE(-1) - COWKSNF(-1) + .98*COWSNBE(-1)

YY15	COWSNBE	Beef, cows, number on farms, Jan. 1	mil.	hd.
YY24	HEISBBE	Beef, heifers added to breeding herd	mil.	hd.
YY25	COWKSNF	Beef, cows, non-fed slaughter	mil.	hd.

Calves, number born

CALSC = 7.22846 + .704441 COWSNMC (1.41) (4.28)

+ .790137 COWSNBE (9.72)

Estimation technique = 0.L.S.

Sample period = 1950-79

R²(ADJ) = 0.9350

D.W. = 0.4760

S.E.E. = 1.0230

YY17	CALSC	Calves, number born	mil.	hd.
YY16	COWSNMC	Cows, dairy, number on farms, Jan. 1	mil.	hd.
YY15	COWSNBE	Beef, cows, number on farms, Jan. 1	mil.	hd.

Calves, death loss

CALDD = - 2.31916 + .624473 CALDD(-1) (-1.72) (4.34)

+ .0786695 CALSC (2.27)

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.7265

D.W. = 2.4990

S.E.E. = 0.3805

Variable numbers, names and descriptions

YY18 CALDD Calves, death loss mil. hd.
YY17 CALSC Calves, number born mil. hd.

Calves, slaughter

CALKS = 1.09457 - 1.02237 DUM72 (2.34) (-3.60)

- + .322326 (COWSNMC + COWSNMC(-1)) (26.23)
- .187084 CATPFFD(-1)/CORPF(-2) (-14.19)

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.9807

D.W. = 2.1539

S.E.E. = 0.2737

YY20 ·	CALKS	Calves, slaughter	mil. hd.
	DUM72	Dummy variable, 1972	
YY 16	COWSNMC	Cows, dairy, number on farms, Jan. 1	mil. hd.
YY39	CATPFFD	Cattle, price, slaughter steers, Omaha	\$/cwt.
YY127	CORPF	Corn, average farm price, OctSept.	\$/bu.

Veal, commercial production

VEAAT = -276.774 + 69.5691 (.TIME - 59)**.5 (-8.78) (6.20)

+ 139.395 CALKS (23.35)

Estimation technique = 0.L.S.

Sample period = 1960-80

R²(ADJ) = 0.9834

D.W. = 1.0526

S.E.E. = 28.160

Variable numbers, names and descriptions

YY21 VEAAT Veal, commercial production, carcass weight mil. lbs.

Z30 .TIME Year, 1960=60

YY20 CALKS Calves, slaughter mil. hd.

Veal, retail price index

VEAIR = 0.230003 PORIR.67 + .141545 .PCPOU (1.62) (1.24)

- .0000350665[(BEECT) (.PC)/.NPC] (-1.60)
- .000620987[(VEAAT)(.PC)/.NPC] (-5.56)
- + .00667717 .PC + .181145 DUM74 (3.52) (.063)
- + .154991 DUM72 + .222156 .YPD\$/.NPC (.061) (3.34)

Estimation technique = 0.L.S.

Sample period = 1950-79

R²(ADJ) = 0.9982

D.W. = 1.3637

S.E.E. = 0.5563

YY22	VEAIR	Veal, retail price index	1967=1.0
YY1	PORIR.67	Pork, retail price index	1967=1.0
YY195	.PCPOU	Poultry, retail price index	1967=1.0
YY34	BEECT	Beef, civilian consumption	mil. 1bs.
YY201	.PC	Consumer price index, all items	1967=100
Z1	.NPC	Population, total	mil.
YY21	VEAAT	Veal production, commercial, carcass weight	mil. lbs.
	DUM74	Dummy variable, 1974	
	DUM72	Dummy variable, 1972	
Z34	.YPD\$	Personal disposable income	bil. dol.

Calves, average price received by farmers

CALPF = 0.453637 + 1.27957 CATPFFE (0.55) (54.47)

- 5.42283 CORPF(-1) (-9.47)

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.9949

D.W. = 1.3006

S.E.E. = 1.3247

YY23	CALPF	Calves, average price received by farmers	\$7GWC.
YY40	CATPFFE	Beef, price, choice cattle, Kansas City	\$/cwt.
YY127	CORPF	Corn, average price received by farmers, OctSept.	\$/bu.

Beef, heifers added to breeding herd

- CALDD(-1) CALKS(-1)]
- + .651910 DD590 (5.31)
- .0402793 CATPFFD/CORPF(-1) (-1.64)

Estimation technique = 0.L.S.

Sampe period = 1951-79

R²(ADJ) = 0.8460

D.W. = 1.3130

S.E.E. = 0.5030

YY24	HEISBBE	Beef, heifers added to breeding herd	mil. hd.
YY17	CALSC	Calves, number born	mil. hd.
YY18	CALDD	Calves, death loss	mil. hd.
YY20	CALKS	Calves, slaughter	mil. hd.
YY39	CATPFFD	Cattle, price, slaughter steers, Omaha	\$/cwt.
YY127	CORPF	Corn, average farm price, OctSept.	\$/bu.
	DD590	Dummy variable for redefinition of the breeding herd	

Cows, beef, non-fed slaughter

COWKSNF = 9.46535 - 6.53072 CALPF(-1)/CATPFNF(-1) (5.57) (-6.20)

+ .261895 COWSNBE - 2.78346 CALPF/CATPFNF (14.15) (-3.16)

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.9491

D.W. = 1.8982

S.E.E. = 0.4442

YY25	COWKSNF	Cows, beef, non-fed slaughter, Omaha	mil. hd.
YY41	CATPFNF	Cattle, utility cow price, Omaha	\$/cwt.
YY127	CORPF	Corn, average farm price, OctSept.	\$/cwt.
YY15	COWSNBE	Cows, beef, number on farms, Jan. 1	mil. hd.
YY23	CALPF	Calves, average price received by farmers	S/cwt.

Beef, steer and heifer slaughter

SAHKS = -8.20969 + 0.880105 [CALSC(-2) - CALDD(-2) - CALKS(-2)] (-5.11) (20.43)

- 4.76905 DUM73 (-3.37)

+ 0.195144 CATPFFD/CORPF(-1) (3.68)

Estimation technique = 0.L.S.

Sample period = 1950-80

R²(ADJ) = 0.9462

D.W. = 1.0762

S.E.E. = 1.3200

YY27	SAHKS	Beef, steer and heifer slaughter	mil. hd.
YY17	CALSC	Calves, number born	mil. hd.
YY 18	CALDD	Calves, death loss	mil. hd.
YY20	CALKS	Calves, slaughter	mil. hd.
	DUM73	Dummy variable, 1973	
YY39	CATPFFD	Cattle, price, slaughter steers, Omaha	\$/cwt.
VV127	CORPE	Corn. average farm price, Oct-Sept.	\$/bu.

Beef, steer and heifer fed slaughter

SAHKSFD = - 13.4106 + .327190 CATPFFD/CORPF(-1) (-4.09) (4.37)

+ .814304 [CALSC(-2) - CALDD(-2) - CALKS(-2)] (10.49)

- 4.18758 DUM75 (-2.48)

Estimation technique = 0.L.S

Sample period = 1960-79

R²(ADJ) = 0.8757

D.W. = 1.0709

S.E.E. = 1.4336

YY28	SAHKSFD	Beef, steer and heifer fed slaughter	mil. hd.
YY39	CATPFFD	Cattle, price, slaughter steers, Omaha	\$/cwt.
YY127	CORPF	Corn, average farm price, OctSept.	\$/bu.
YY17	CALSC	Calves, number born	mil. hd.
YY18	CALDD	Calves, death loss	mil. hd.
YY20	CALKS	Calves, slaughter	mil. hd.
	DUM7 5	Dummy variable, 1975	

Beef, non-fed cow slaughter CATKSNF' = COWKSMC + COWKSNF + SAHKS - SAHKSFD

YY29	CATKSNF	Cattle, non-fed, slaughter	mil. hd.
YY26	COWKSMC	Dairy, cow slaughter	mil. hd.
YY25	COWKSNF	Beef, cow non-fed slaughter	mil. hd.
YY27	SAHKS	Beef, steer and heifer slaughter	mil. hd.
YY28	SAHKSFD	Beef, steer and heifer fed slaughter	mil. hd.

Beef, fed production

BEEAPFD = - 1195.34 + 420.715 (.TIME-59)**.5 (-3.68) (4.16)

- + 563.132 SAHKSFD + 39.2952 CATPFFD/CORPF(-1) (22.33) (3.05)
- + 30.6628 CATPFFD(-1)/CORPF(-2) (2.64)

Estimation technique = O.L.S.

Sample period = 1960-79

R²(ADJ) = 0.9956

D.W. = 2.4105

S.E.E. = 198.23

YY30	BEEAPFD	Beef, fed production	mil. lbs.
230	.TIME	Year, 1960=60	
YY28	SAHKSFD	Beef, steer and heifer fed slaughter	mil. hd.
YY127	COMPF	Corn, average price received by farmers	\$/bu.
YY39	CATPFFD	Cattle, price, slaughter steers, Cmaha	\$/cwt.

Beef, non-fed, production

BEEAPNF = -973.439 + 178.657 (.TIME -59)**.5 (3.39)

+ 551.417 CATKSNF (30.28)

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.9791

D.W. = 1.8272

S.E.E. = 246.81

Variable numbers, names and descriptions

YY31 BEEAPNF Beef, non-fed, production mil. lbs.

YY29 CATKSNF Cattle, non-fed, slaughter mil. hd.

Z30 .TIME Year, 1960=60

Beef, total production

BEEAP = BEEAPFD + BEEAPNF

YY32	BEEAP	Beef, total production	mil.	lbs.
YY30	BEEAPFD	Beef, fed production	mil.	lbs.
VV31	RFF A PNF	Reef non-fed production	mil.	lbs.

Beef, total supply

BEEAS = BEEAP + BEEMI + BEEHT(-1)

YY33	BEEAS	Beef, total	supply	mil.	lbs.
YY32	BEEAP	Beef, total	production	mil.	lbs.
Z17	BEEMI	Beef, impor	ts	mil.	lbs.
YY42	BEEHT	Beef. endin	g stocks	mil.	lbs.

Beef, civilian disappearance
BEECT = BEEAS - BEEHT - BEEMX - BEECM

YY34	BEECT	Beef, civilian disappearance	mil.	lbs.
YY33	BEEAS	Beef, total supply	mil.	lbs.
YY42	BEEHT	Beef, ending stocks	mil.	lbs.
Z18	BEEMX	Beef, exports	mil.	lbs.
Z19	BEECM	Beef, military use	mil.	lbs.

Beef, per capita consumption
BEECP = BEECT/.NPC

YY35	BEECP	Beef, per capita consumption	lbs.
YY34	BEECT	Beef, civilian disappearance	mil. lbs.
Z 1	. NPC	Population, total	mil.

Beef, average weight fed slaughter CATKAFD = BEEAPFD/SAHKSFD

YY36	CATKAFD	Beef, average weight fed slaughter	lbs.
YY30	BEEAPFD	Beef, fed production	mil. lbs.
YY28	SAHKSFD	Beef, fed steer and heifer slaughter	mil. hd.

Beef, average weight non-fed slaughter
CATKANF = BEEAPNF/CATKSNF

YY37	CATKANF	Beef, average weight non-fed slaughter	lbs.
YY31	BEEAPNF	Beef, non-fed production	mil. lbs.
YY29	CATKSNF	Beef, non-fed slaughter	mil. hd.

Beef, retail price index

BEEIR = .0567221 .YPD\$/.NPC + .317578 PORIR.67 (1.77) (4.25)

- + .0129931 .PC .0000649128 [(BEECT)(.PC)/.NPC] (12.38) (-7.55)
- .000610397 [(VEAAT) (.PC)/.NPC] (-10.56)
- + .158988 .PCPOU (2.80)

Estimation technique = 0.L.S.

SAMPLE PERIOD = 1960-79

R²(ADJ) = 0.9994

D.W. = 2.2690

S.E.E. = 0.0319

YY38	BEEIR	Beef, retail price index	1967=1.0
Z34	.YPD\$	Personal disposable income	bil. dol.
Z1 -	.NPC	Population, total	mil.
YY1	PORIR.67	Pork, retail price index	1967=1.0
YY201	.PC	Consumer price index, all items	1967=100
YY34	BEECT	Beef, civilian consumption	mil. lbs.
YY21	VEAAT	Veal, commercial production	mil. lbs.
YY195	.PCPOU	Consumer price index, poultry	1967=1.0

Cattle, price, slaughter steers, Omaha

CATPFFD = - 1.58322 - 1.37138 .WRHMP (-2.15) (-2.48)

- 3.35681 .GASIR (-3.30)

+ 34.4378 BEEIR (16.10)

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.9943

D.W. = 2.5158

S.E.E. = 1.0449

YY39	CATPFFD	Cattle, price, slaughter steers, Omaha	\$/cwt.
25	.WRHMP	Wage rate, meat packing industry	\$/hr.
Z 15	.GASIR	Gasoline, regular and premium, CPI	1967=1.0
8EYY	BEEIR	Beef, retail price index	1967=1.0

Beef, price, choice feeder cattle, Kansas City

CATPFFE = - 1.92250 + 1.41263 CATPFFD (-1.77) (32.51)

- 7.94038 CORPF(-1) (-8.66)

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.9884

D.W. = 2.5301

S.E.E. = 1.7198

YY127	CORPF	Corn, average farm price, OctSept.	\$/bu.
YY39	CATPFFD	Cattle, price, slaughter steers Omaha	\$/cwt.
YY40	CATPFFE	Beef, price, choice cattle, Kansas City	\$/cwt.

Deef, utility cow price, Omaha

CATPFNF = 4.66824 + .688152 CATPFFD (2.37) (29.22)

- 6.83346 DUM75 - 17.0546 EEEAPNF/EEEAP (4.66) (-3.68)

Estimation technique = 0.L.S.

Sample period = 1960-79
R²(ADJ) = 0.9861
D.W. = 1.2222
S.E.E. = 1.1993

YY41	CATPFNF	Eeef, utility cow price, Omaha	\$/cwt.
	DUH75	Dummy variable, 1975	
γүзδ	BEEIR	Eeef, retail price index	1967=1.0
YY32	BEEAP	Beef, total production	mil. lbs.
YY31	BEEAPNF	Beef, non-fed production	mil. lbs.
YY39	CATPFFD	Cattle, price, slaughter steer. Omaha	\$/cwt.

Beef, ending stocks

BEEHT = - 22.1913 - 112.374 DUM77 (-1.27) (-3.68)

+ 118.983 DUM73 + .0197342 BEEAS (3.97) (9.43)

- 96.0462 BEEIR/BEEIR(-1) (-1.10)

Estimation technique = 0.L.S.

Sample period = 1961-79

R²(ADJ) = 0.8640

D.W. = 2.4027

S.E.E. = 26.663

YY42	BEEHT	Beef, ending stocks	mil.	lbs.
	DUM77	Dummy variable, 1977		
	DUM73	Dummy variable, 1973		
YY33	BEEAS	Beef, total supply	mil.	lbs.
YY38	BEEIR	Beef, retail price index	1967	=1.0

Chickens, other production

CHIAPOT = 24.2672 + 2.59730 CHISVLA (0.12) (3.07)

- 3.14822 (EGGPF(-1)/FDE(-1) + EGGPF/FDE) (-1.03)

+ 7.5537 (CHIPWXB(-1)/FDE(-1) + CHIPWXB/FDE) (1.07)

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.5239

D.W. = 1.9370

S.E.E. = 28.890

YY43	CHIAPOT	Chickens, other, production	mil. lbs.
`YY61	CHISVLA	Chickens, layers, number on farms	mil. hd.
YY54	CHIPWXB	Chickens, non broiler, wholesale price	cents/lbs.
	FDE	Feed cost index, eggs	
YY68	EGGPF	Eggs, average price received by farmers	cents/doz.

Chickens, young, production

CHISPYO = -13852.6 + 211.806 .TIME + .570838 CHISPYO(-1) (3.22)

+ 94.6545 (CHIPWBR9C(-1)/FDC(-1) + CHIPWBR9C/FDC)
(2.91)

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.9807

D.W. = 1.5530

S.E.E. = 267.09

YY.44	CHISPYO	Chickens, young, production	mil. IDS.
Z30	.TIME	Year, 1960=60	-
YY53	CHIPWBR9C	Broilers, 9-City wholesale price	cents/lb.
	FDC	Feed cost index, chickens	

Chickens, young, ending stocks

CHIHTYO1 = 62.7349 + 19.9557 DUM6667 (3.62) (3.27)

- 26.9081 CHIIRFR/CHIIRFR(-1) (-1.62)

Estimation Technique = 0.L.S.

Sample period = 1961-79

R²(ADJ) = 0.4170

D.W. = 1.2078

S.E.E. = 8.0944

YY45	CHIHTYO1	Chickens, young, ending stocks	mil. lbs.
	DUM6667	Dummy variable, 1966-67	
YY51	CHIIRFR	Chickens, frying, retail price index	1967=1.0

Chicken, other ending stocks

CHIHTOT1 = 93.5894 + .0354460 CHIAPOT (10.92) (0.37)

- 20.1003 CHIIRFR/CHIIRFR(-1) - 28.7933 DUM6869 (-0.54) (-2.25)

Estimation technique = 0.L.S. Sample period = 1961-79 $R^2(ADJ)$ = 0.1434D.W. = 2.1149S.E.E. = 17.043

YY46	CHIHTOT1	Chickens, other, ending stocks	mil. lbs.
	DUM6869	Dummy variable, 1968-69	
YY51	CHIIRFR	Chicken, frying, retail price index	1967=1.0
YY4 3	CHIAPOT	Chickens. other. production	mil. lbs.

Chickens, young, total supply

CHIASYO = CHISPYO + CHIHTYO1(-1)

YY47	CHIASYO	Chickens,	young,	total supply	mil.	lbs.
YY44	CHISPYO	Chickens,	young,	production	mil.	lbs.
YY45	CHTHTY01	Chickens.	voung.	ending stocks	mil.	lbs.

Chickens, other, total supply
CHIASOT = CHIAPOT + CHIHTOT1(-1)

YY48	CHIASOT	Chickens,	other,	total supply	;	mil.	lbs.
YY43	CHIAPOT	Chickens,	other,	production	-	mil.	lbs.
VV46	CHIHTOT1	Chickens,	other,	ending stocks		mil.	lbs.

Chickens, young, civilian disappearance CHICCYO = CHIASYO - CHIHTYO1 - CHICMYO - CHIMXYO

YY49	CHICCYO	Chickens,	young,	civilian disappearance	mil.	lbs.
YY47	CHIASYO	Chickens,	young,	total supply	mil.	lbs.
YY45	CHIHTY01	Chickens,	young,	ending stocks	mil.	lbs.
Z21	CHICMYO	Chickens,	young,	military use	mil.	lbs.
Z24	CHIMXYO	Chickens,	young,	exports	mil.	lbs.

Chickens, other, civilian disappearance

CHICCOT = CHIASOT - CHIHTOT1 - CHIMXOT - CHICMOT

YY50	CHICCOT	Chickens,	other,	civilian disappearance	mil.	lbs.
YY48	CHIASOT	Chickens,	other,	total supply	mil.	lbs.
YY46	CHIHTOT1	Chickens,	other,	ending stocks	mil.	lbs.
Z23	CHIMXOT	Chickens,	other,	exports	mil.	lbs.
Z22	CHICMOT	Chickens,	other.	military use	mil.	1 he

Chickens, frying, retail price index

CHIIRFR = .350530 BEEIR + .227790 PORIR.67 (3.37) (2.50)

+ .00659730 TURPR + .00428652 .PC (2.49) (2.99)

- .000207805[(CHICCYO + CHICCOT) (.PC)/.NPC] (-4.40)

+ .160750 .YPD\$/.NPC (2.11)

- .0979468 DUM72 - .0869418 DUM74 (-2.91) (-2.43)

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.9995

D.W. = 1.7641

S.E.E. = 0.0301

YY51	CHIIRFR	Chickens, frying, retail price index	1967=1.0
YY38	BEEIR	Beef, retail price index	1967=1.0
YY1	PORIR.67	Pork, retail price index	1967=1.0
YY59	TURPR	Turkey, retail price	cents/1b.
YY201	.PC	Consumer price index, all items	1967=100
YY49	CHICCYO	Chicken, young, civilian disappearance	mil. lbs.
YY50	CHICCOT	Chicken, other, civilian disappearance	mil. lbs.
Z 1	.NPC .	Population, total	mil.
Z34	.YPD\$	Personal disposable income	bil. dol.
	DUM72	Dummy variable, 1972	
	DUM74	Dummy variable, 1974	

Chickens, retail price

YY51

CHIPR = 2.100 + 36.5252 CHIIRFR

(2.87) (62.45)

Estimation technique = 0.L.S. = 1960-79 Sample period = 0.9950 R²(ADJ) = 0.3860 D.W. = 0.6850 S.E.E.

Variable numbers, names and descriptions

cents/lb. Chickens, retail price YY52 CHIPR 1967=1.0 Chickens, frying, retail price index CHIIRFR

Broilers, 9-City wholesale price

CHIPWBR9C = - 2.87217 - 1.17604 .WRHPP (-3.96) (-2.57)

- 1.45386 .GASIR

(-3.20)

+ .834765 CHIPR (28.39)

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.9947

D.W. = 2.1965

S.E.E. = 0.5545

YY53	CHIPWBR9C	Broilers, 9-city wholesale price	cents/lb.
Z 10	.WRHPP	Wage rate, poultry processing industry	\$/hr.
Z15	.GASIR	Gasoline, regular and premium, retail price index	1967=1.0
YY52	CHIPR	Chickens, retail price	cents/lb.

Chickens, non broilers, wholesale price

CHIPWXB = 17.7720 - 3.19743 (.TIME-59)**.5 (2.32) (-2.83)

- 2.89117 DUM75 + .326075 CHIPWBR9C (-2.40) (6.89)

- 82.2282 CHICCOT/(CHICCOT + CHICCYO) (-1.91)

Estimation technique = 0.L.S.

Sample period = 1960-79
R²(ADJ) = 0.7435
D.W. = 2.2109
S.E.E. = 1.0287

YY54	CHIPWXB	Chickens, non broilers, wholesale price	cents/1b.
Z30	.TIME	Year, 1960=60	
YY53	CHIPWBR9C	Broilers, 9 city wholesale price	cents/lb.
YY50	CHICCOT	Chickens, other, civilian disappearance	mil. lbs.
	DUM75	Dummy variable, 1975	
YY 49	CHICCYO	Chickens, young, civilian disapearance	mil. lbs.

Turkey, production

TURAP = -2594.40 + 49.6344 .TIME + .210301 TURAP(-1) (-3.44) (4.13) (0.89)

+ 48.4389 (TURPF(-1)/FDT(-1) + TURPF/FDT) (1.96)

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.8759

D.W. = 1.8376

S.E.E. = 106.97

YY55	TURAP	Turkey, production	mil. lbs.
Z30	.TIME	Year, 1960=60	•
YY340	FDT	Feed cost index, turkeys	
YY60	TURPF	Turkeys, average price received by farmers	cents/lb.

Turkey, ending stocks

TURHT1 = 341.184 + .225232 TURHT1(-1) (2.72) (1.38)

- + 127.497 DUM67 (3.32)
- + 115.976 DUM73 (2.24)
- 167.787 TURPR/TURPR(-1) (-1.46)

Estimation technique = 0.L.S.

Sample period = 1961-79

R²(ADJ) = 0.4903

D.W. = 2.3865

S.E.E. = 36.342

Variable numbers, names and descriptions

YY56 TURHT1 Turkeys, ending stocks mil. 1bs.

DUM67 Dummy variable, 1967

DUM73 Dummy variable, 1973

YY59 TURPR Turkey, retail price cents/lb.

Turkey, total supply
TURAS = TURAP + TURHT1(-1)

YY57	TURAS	Turkey,	total supply	mil.	lbs.
YY55	TURAP	Turkey,	production	mil.	lbs.
VV56	ייים מייי	Turkev	ending stocks	mil.	lbs.

Turkey, civilian disappearance

TURCC = TURAS - TURHT1 - TURCM - TURMX

YY58	TURCC	Turkey,	civilian disappearance	mil.	lbs.
YY57	TURAS	Turkey,	total supply	mil.	lbs.
YY56	TURHT1	Turkey,	ending stocks	mil.	lbs.
Z25	TURCM	Turkey,	military use	mil.	lbs.
Z 26	TURMX	Turkey,	exports	mil.	lbs.

Turkey, retail price

TURPR = .621100 .YPD\$/.NPC (0.25)

+ 3.00684 PORIR.67 + 17.1236 BEEIR (0.43) (3.75)

+ 22.0145 CHIIRFR + .348050 .PC (2.37) (3.31)

- .0383407 [(TURCC)*(.PC)/.NPC] (-2.91)

- 6.62700 DUM75 - 4.60619 DUM6869 (-3.30) (-4.02)

Estimtion technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.9994

D.W. = 2.2069

S.E.E. = 1.4869

YY59 TURPR	Turkey, retail price	cents/lb.
Z34 .YPD\$	Personal disposable income	bil. dol.
YY201 .PC	Consumer price index, all items	1967=100
YY58 TURCC	Turkey, civilian disappearance	mil. lbs.
DUM75	Dummy variable, 1975	
DUM6869	Dummy variable, 1968-69	
YY1 PORIR.67	Pork, retail price index	1967=1.0
YY38 BEEIR	Beef, retail price index	1967=1.0
YY51 CHIIRFR	Chickens, frying, retail prics index	1967=1.0

Turkeys, average price received by farmers

TURPF = -7.97843 - 1.09233 .WRHPP -3.11445 .GASIR (-3.05) (-0.72) (-2.61)

- 6.49930 DUM74 + .693958 TURPR + 5.27449 DUM78 (-3.43) (7.81) (2.61)

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.9548

D.W. = 2.2703

S.E.E. = 1.7360

YY 60	TURPF	Turkeys, average price received by farmers	cents/1b.
Z10	.WRHPP	Wage rate, poultry processing industry	\$/hr.
	DUM78	Dummy variable, 1978	
	DUM74	Dummy variable, 1974	
YY59	TURPR	Turkeys, retail price	cents/lb.
Z15	.GASIR	Gasoline, regular and premium, retail price index	1967=1.0

Chickens, layers, number on farms

CHISVLA = 66.8733 + 11.6888 DUM67 +.679571 CHISVLA(-1) (2.54) (2.84) (6.81)

- 1.45308 (CHIPWXB(-1)/FDE(-1) + CHIPWXB/FDE) (-1.47)
- + 1.10264 (EGGPF(-1)/FDE(-1) + EGGPF/FDE) (2.90)

Estimationn technique = 0.L.S.

Sample period = 1960-79
R²(ADJ) = 0.9092
D.W. = 1.0999
S.E.E. = 3.9701

YY 61	CHISVLA	Chickens, layers, numbers on farms	mil. hd.
YY68	EGGPF	Eggs, average price received by by farmers	cents/doz.
YY54	CHIPWXB	Chickens, non broilers, wholesale price	cents/lb.
	FDE	Feed cost index, eggs	
	DUM67	Dummy variable, 1967	

Eggs, used for hatching

EGGBB = 435.293 - 8.74153 .TIME (2.64) (-3.51)

+ .374997 CHISVLA + .0596407 CHISPYO (1.73) (7.62)

Estimation technique = 0.L.S.

Sample period = 1957-79

R²(ADJ) = 0.9783

D.W. = 2.1301

S.E.E. = 8.0557

YY62	EGGBB	Eggs, used for hatching	mil.	doz.
z 30	.TIME	Year, 1957=57		
YY61	CHISVLA	Chickens, layers, number on farms	mil.	hd.
YY44	CHISPYO	Chickens, young, production	mil.	lbs.

Eggs, production

EGGAP = (CHISVLA)*(EGGAA)/12.0

Variable numbers, names and descriptions

YY63 EGGAP Eggs, production mil. doz.

YY61 CHISVLA Chickens, number of layers on farms mil. hd.

YY203 EGGAA Eggs, production per layer

Eggs, ending stocks

EGGHT = -28.7092 + .693292 EGGHT(-1)(-0.38) (3.81)

+ .0184625 EGGAS (1.44)

- 61.3829 EGGIR.67/EGGIR.67(-1) (-3.42)

Estimation technique = 0.L.S.

Sample period = 1961-79

R²(ADJ) = 0.5152

D.W. = 2.0069

S.E.E. = 10.048

YY64	EGGHT	Eggs, ending stocks	mil. doz.
YY65	EGGAS	Eggs, total supply	mil. doz.
YY67	EGGIR.67	Eggs, retail price index	1967=1.0

Eggs, total supply

EGGAS = EGGAP + EGGHT(-1) + EGGMI

YY65	EGGAS	Eggs, total supply	mil.	doz.
YY63	EGGAP	Eggs, production	mil.	doz.
YY64	EGGHT	Eggs, ending stocks	mil.	doz.
7.27	EGGMI	Eggs, imports	mil.	doz.

Eggs, civilian disappearance

EGGCC = EGGAS - EGGHT - EGGBB - EGGCM - EGGMX

Variable	numbers,	names	and descriptions		
YY66	EGGCC	Eggs,	civilian disapearance	mil.	doz.
YY65	EGGAS	Eggs,	total supply	mil.	doz.
YY64	EGGHT	Eggs,	ending stocks	mil.	doz.
YY62	EGGBB	Eggs,	hatching use	mil.	doz.
Z28	EGGCM	Eggs,	military use	mil.	doz
Z29	EGGMX	Eggs.	exports	mil.	doz.

Eggs, retail price index

EGGIR.67 = .0614617 .PC - .000799868 [(EGGCC)*(.PC)/.NPC]
(6.28) (-3.44)

- .000449893 (.TIME)(.PC) (-1.41)

+ .271316 DUM7374 (4.18)

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.9966

D.W. = 1.7378

S.E.E. = 0.0869

YY67	EGGI.67	Eggs, retail price index	1967=1.0
YY201	.PC	Consumer price index, all items	1967=100
YY 66	EGGCC	Eggs, civilian disappearance	mil. doz.
Z 1	.NPC	Population, total	mil.
Z30	.TIME	Year, 1960=60	
	ת727MII	Dummy variable, 1973-74	

Eggs, average price received by farmers

EGGPF = - 9.77410 - .259020 .WRHPP - .398191 .GASIR (7.85) (-0.39) (-0.55)

+ .821078 EGGPRAL (26.79)

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.9927

D.W. = 0.9759

S.E.E. = 0.8839

YY68	EGGPF	Eggs, average price received by farmers	cents/doz.
Z10	.WRHPP	Wage rate, poultry processing industry	\$/hr.
YY69	EGGPRAL	Eggs, large grade A, retail price	cents/doz.
Z 15	.GASIR	Gasoline, regular and premium, retail price index	1967=1.0

Eggs, large grade A, retail price

EGGPRAL = 2.9118 + 47.0872 EGGIR.67 (3.11) (65.34)

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.9950

D.W. = 0.6110

S.E.E. = 0.7950

Variable numbers, names and descriptions

YY69 EGGPRAL Eggs, large grade A, retail price cents/doz.

YY67 EGGIR.67 Eggs, retail price index 1967=1.0

Eggs, number produced per layer

EGGAA = 51.2774 + .552840 EGGAA(-1) (1.86) (2.43)

+ .709783 .TIME (2.05)

Estimation technique = 0.L.S.

Sample period = 1961-79

R²(ADJ) = 0.9540

D.W. = 1.9230

S.E.E. = 1.8000

Variable numbers, names and descriptions

YY203 EGGAA Eggs, number produced per layer

Z30 .TIME Year, 1961=61

Feed cost index, chickens

FDC = .6081 CORPF(-1) + .0513 SORPF*(-1)

+ .0173 OATPF(-1) + .0044 BARPF(-1)

+.0031 WHEPF(-1) + .3157 SOMPF(-1)

YY345	FDC	Feed cost index, chickens	\$/bu.
YY127	CORPF	Corn, average farm price, OctSept.	\$/bu.
YY129	SORPF*	Sorghum, average farm price, OctSept.	\$/bu.
YY128	OATPF	Oats, average farm price, June-May	\$/bu.
YY130	BARPF	Barley, average farm price, June-May	\$/bu.
YY139	WHEPF	Wheat, average farm price, June-May	\$/bu.
YY102	SOMPF	Soybeans, meal price, OctSept.	cents/1b.

Feed cost index, eggs

FDE = .4838 CORPF(-1) + .0852 SORPF*(-1)

- + .1263 OATPF(-1) + .0320 BARPF(-1)
- + .0227 WHEPF(-1) + .2500 SOMPF(-1)

YY346	FDE	Feed cost index, eggs	\$/bu.
YY127	CORPF	Corn, average farm price, OctSept.	\$/bu.
YY129	SORPF*	Sorghum, average farm price, OctSept.	\$/bu.
YY128	OATPF	Oats, average farm price, June-May	\$/bu.
YY130	BARPF	Barley, average farm price, June-May	\$/bu.
YY139	WHEPF	Wheat, average farm price, June-May	\$/bu.
YY102	SOMPF	Soybeans, meal price, OctSept.	cents/1b.

Cows, dairy, number on farms

COWSNMC(+1) = .98 COWSNMC + COWSEMC

- COWKSMC

YY16	COWSNMC	Cows,	dairy,	number on farms, Jan. 1	mil.	hd.
YY75	COWSEMC	Cows,	dairy,	additions to herd	mil.	hd.
VV26	COWKSMC	Cows.	dairy,	slaughter	mil.	hd.

Cows, dairy, slaughter

COWKSMC = 0.738171 + .326629 DUM6569 + .479213 DUM5758 (2.41) (5.59) (6.21)

- + .102808 COWSNMC + .501987 COWSEMC (2.85) (2.33)
- .149505 MILPF/FDD (-3.50)
- .754813 MILPF/CATPFNF (-1.61)

Where

FDD = .5563 CORPF(-1) + .0469 SORPF(-1)

- + .2565 OATPF(-1) + .0462 BARPF(-1)
- +.0102 WHEPF(-1) +.0839 SOMPF(-1)

Estimation technique = 0.L.S.

Sample period = 1955-80

R²(ADJ) = 0.9870

D.W. = 1.4830

S.E.E. = 0.0880

YY26	COWKSMC	Cows, dairy, slaughter	mil. hd.
	DUM6569	Dummy variable, 1965-69	
	DUM5758	Dummy variable, 1957-58	
YY74	MILPF	Milk, all sold to plants, average wholesale price received by farmers	\$/cwt.
	FDD	Dairy, feed cost index	
YY41	CATPFNF	Cattle, utility cow price, Omaha	\$/cwt.
YY75	COWSEMC	Cows, dairy, additions to herd	mil. hd.
YY16	COWSNMC	Cows, dairy, number on farms, Jan. 1	mil. hd.

Milk, fed to Calves

MILBC = - .381728 + .167949 COWSNMC (-5.87) (42.31)

Estimation technique = O.L.S.

Sample period = 1950-79

R²(ADJ) = 0.9840

D.W. = 0.3380

S.E.E. = 0.0880

Variable numbers, names and descriptions

YY72 MILBC Milk, fed to calves bil. lbs.

YY16 COWSNMC Cows, dairy, number on farm, Jan. 1

Milk, total production

MILAP = (COWSNMC(+1) + COWSNMC)/2)

[-3.92481 + .135732 MILPF/FDD
(-2.61) (2.38)

+ .127848 .TIME + .424017 MILAP(-1)/ (2.83) (2.20)

(COWSNMC + COWSNMC(-1))/2]

where

FDD = .5563 CORPF(-1) + .0469 SORPF*(-1)

+ .2565 OATPF(-1) + .0462 BARPF(-1)

+ .0102 WHEPF(-1) + .0839 SOMPF(-1)

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.9910

D.W. = 1.7200

S.E.E. = 0.1260

YY73	MILAP	Milk, total production	bil. lbs.
YY16	COWSNMC	Cows, dairy, number on farms, Jan 1	mil. hd.
YY74	MILPF	Milk, all sold to plants, average wholesale price received by farmers	\$/cwt.
	FDD	Dairy, feed cost index	
Z30	.TIME	Year, 1960=60	

Milk, average price received by farmers

MILPF = [(MILPPFEMAT)(MILASFM) + (MILPPMAT)(MILSPPLTS - MILASFM)]/MILSPPLTS

YY74	MILPF	Milk, all sold to plants, average wholesale price received by farmers	\$/cwt.
YY220	MILPPFEMAT	Milk, fluid eligible, producer price	\$/cwt.
YY212	MILASFM	Milk, production for eligible fluid consumption	bil. lbs.
YY221	MILPPMAT	Milk, producer price, manufacturing grade milk	\$/cwt.
YY223	MILSPPLTS	Milk, total sold to plants and dealers	bil. lbs.

Cows, dairy, additions to herd

COWSEMC =
$$0.203916 + 1.09718 \text{ MILPF}(-1)/\text{CALPF}(-1) + .0841727 \text{ MILPF}(-1)/\text{FDD}(-1)$$

(0.52) (1.74) (1.41)

+ 0.142653 COWSNMC(-2) - .318917 DUM6571 (18.82) (-6.02)

Estimation technique = 0.L.S.

Sample period = 1956-79

R²(ADJ) = 0.9610

D.W. = 1.0620

S.E.E. = 0.1170

YY75	COWSEMC	Cows, dairy, additions to herd	mil. hd.
<u>Y</u> Y74	MILPF	Milk, all sold to plants, av. wholesale price received by farmers	\$/cwt.
YY23	CALPF	Calves, average price received by farmers	\$/cwt.
YY16	COWSNMC	Cows, dairy, number on farms, Jan. 1	mil. hd.
	FDD	Dairy, feed cost index	
	DUM6571	Dummy variable, 1965-71	

Milk, evaporated, retail price index

MILIREV = (- MILSPEC + MILCCEC + MILHTEV(+1)

- MILMIEC + MILMXEC + MILCMEC
- MILHTEV)-1

YY76	MILIREV	Milk, evaporated, retail price index	1967=	1.0
YY217	MILHTEV	Milk, condensed and evaporated, total beginning stocks	bil.	lbs.
YY84	MILCCEC	Milk, condensed and evaporated, civilian disappearance	bil.	lbs.
Z224	MILMIEC	Milk, condensed and evaporated, imports	bil.	lbs.
Z220	MILCMEC	Milk, condensed and evaporated, military disappearance	bil.	lbs.
Z227	MILMXEC	Milk, condensed and evaporated, exports	bil.	lbs.
YY88	MILSPEC	MIlk, condensed and evaporated, production	bil.	lbs.

Milk, fluid, retail price index

MILIR = .221189 + .0491676 .WRHD (14.85) (3.37)

+ .105076 MILECLOP (13.24)

Estimation technique = 0.L.S.

Sample period = 1955-79

R²(ADJ) = 0.9970

D.W. = 1.2690

S.E.E. = 0.0180

YY77	MILIR	Milk, fluid, retail price index	1967=1.0
Z4	.WRHD	Wage rate, dairy industry	\$/hr.
YY215	MILECLOP	Milk, effective class I price paid by dealers	\$/cwt.

Milk, ice cream, retail price index

MILIRIC = 2.35231 + .335003 .WRHD (9.32) (5.50)

- .0382222 .TIME (-8.44)
- + .0423319 MILECLOP (1.79)

Estimationn technique = O.L.S.

Sample period = 1955-79

R²(ADJ) = 0.9820

D.W. = 0.7260

S.E.E. = 0.0410

YY78	MILIRIC	Milk, ice cream, retail price index	1967=1.0
Z 4	.WRHD	Wage rate, dairy industry	\$/hr.
Z30	.TIME	Year, 1955=55	
YY215	MILECLOP	Milk, effective class I price paid by dealers	\$/cwt.

Butter, retail price index

BUTIR = - .0858682 + .0130207 MILBUT (-3.36) (16.24)

+ .0413876 .WRHD + .101378 .GASIR (4.12) (2.95)

Estimation technique = 0.L.S.

Sample period = 1955-79
R²(ADJ) = 0.9960
D.W. = 2.9250
S.E.E. = 0.0200

YY80	BUTIR	Butter, retail price index	1967=1.0
YY214	MILBUT	Butter, wholesale price, grade A, Chicago	cents/lb.
Z 4	.WRHD	Wage rate, all dairy industry	\$/hr.
Z15	.GASIR	Gasoline, regular and premium, consumer price index	1967=1.0

Cheese, American, retail price index

CHEIRAM = .0391632 + .0138097 MILAMCHEE (1.00) (4.20)

+ .0832134 .WRHD + .0832052 .GASIR (1.59) (1.13)

Estimation technique = 0.L.S.

Sample period = 1955-79

R²((ADJ) = 0.9950

D.W. = 1.8430

S.E.E. = 0.0380

YY81	CHEIRAM	Cheese, American, retail price index	1967=1.0
YY211	MILAMCHEE	American Cheese, wholesale price, Wisc. assbly. pts.	cents/lb.
Z 4	.WRHD	Wage rate, all dairy industry	\$/hr.
Z 15	.GASIR	Gasoline, regular and premium, consumer price index	1967=1.0

Frozen dairy products, civilian disappearance

MILCCFZ = .NPC [.0730505 - 1.90300 MILIRIC/.PC (7.28) (-3.46)

-.093076 .YPD\$/(.NPC)(.PC)] (-0.61)

Estimation technique = 0.L.S.

Sample period = 1950-79

R²(ADJ) = 0.7400

D.W. = 0.8240

S.E.E. = 0.0010

YY82	MILCCFZ	Frozen dairy products, civilian disappearance	bil. lbs.
Z 1	.NPC	Population, total	mil.
YY78	MILIRIC	Milk, ice cream, retail price index	1967=1.0
YY201	.PC	Consumer price index, all items	1967=100
734	YPD\$	Personal disposable income	bil. dol.

Milk, condensed and evaporated, civilian disappearance

MILCCEC = .NPC [.0230599 + .00121912 DUM6568 (13.12) (4.06)

- .00241843 MILIREV/ MILIR (-2.15)
- .459281 .YPD\$/(.NPC)(.PC)] (-5.37)

Estimation technique = 0.L.S.

Sample period = 1965-79

R²(ADJ) = 0.9800

D.W. = 1.6660

S.E.E. = 0.0003

YY84	MILCCEC	Milk, condensed and evaporated, civilian disappearance	bil. lbs.
Z 1	. NPC	Population, total	mil.
YY201	.PC	Consumer price index, all items	1967=100
YY 76	MILIREV	Milk, evaporated, retail price index	1967=1.0
YY7 7	MILIR	Milk, fluid, retail price index	1967=1.0
Z34	.YPD\$	Personal disposable income	bil. dol.
	DUM6568	Dummy variable, 1965-68	

Milk, fluid plus cream, civilian disappearance

MILCCMC = .NPC [2.45628 - .0915642 MILIR/.PCNAL (10.67) (-7.86)

- .0470187 MILIR/MILPWDR] (-2.54)
- 6.02686 .TIME (-9.75)

Estimation technique = 0.L.S.

Sample period = 1955-79

R²(ADJ) = 0.9600

D.W. = 0.9890

S.E.E. = 0.0070

YY85	MILCCMC	Milk, fluid plus cream, civilian disappearance	bil. lbs.
YY205	MILPWDR	Milk, non-fat dry, wholesale price index	1967=1.0
YY77	MILIR	Milk, fluid, retail price index	1967=1.0
YY326	.PCNAL	Consumer price index, non-alcoholic beverages	1967=1.0
Z30	.TIME	Year, 1955=55	
Z1	.NPC	Population, total	mil.

Cheese, civilian disappearance

CHECT = .NPC [.00307155 - .955747 CHEIRAM/.PC (1.11) (-2.02)

+ .609481 .YPD\$/(.NPC)(.PC) + .00368518 DUM7480] (7.68) (6.90)

Estimation technique = 0.L.S.

Sample period = 1955-79

R²(ADJ) = 0.9900

D.W. = 1.0790

S.E.E. = 0.0003

YY86	CHECT	Cheese, civilian disappearance	bil. lbs.
Z 1	.NPC	Population, total	mil.
YY81	CHEIRAM	Cheese, American, retail price index	1967=1.0
Z34 .	.YPD\$	Personal disposable income	bil. dol.
Z30	.TIME	Year, 1955=55	
YY201	.PC	Consumer price index, all items	1967=1.0
	DUM7480	Dummy variable, 1974-1980	

Butter, civilian disappearance

BUTCC = .NPC [.0600122 - .00274512 BUTIR/MARIR (9.17) (-2.46)

+ .00114400 DUM7879 - .00080432 DUM74] - .152247 .TIME (3.12) (-1.61) (-8.93)

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.8690

D.W. = 1.0220

S.E.E. = 0.0004

YY87	BUTCC	Butter, civilian disappearance	bil. lbs.
Z 1	.NPC	Population, total	mil.
YY80	BUTIR	Butter, retail price index	1967=1.0
YY327	MARIR	Consumer price index, margarine	1967=1.0
z 30	.TIME	Year, 1960=60	
	DUM74	Dummy variable, 1974	
•	DUM7879	Dummy variable, 1978-79	

Milk, evaporated and condensed production, milk equivalent

MILSPEC* = .313912 + 1.96209 MILSPEC (6.63) (75.60)

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.9970

D.W. = 1.1870

S.E.E. = 0.0640

Variable numbers, names and descriptions

YY88 MILSPEC Evaporated and condensed milk production bil. lbs.

MILSPEC* Milk, evaporated and condensed production, bil. lbs.

milk equivalent

Milk, frozen products, production MILSPFZ = MILCMFZ - MILMIFZ + MILCCFZ

YY89	MILSPFZ	Milk, frozen products, production	bil.	lbs.
Z221	MILCMFZ	Milk, frozen products, military disappearance	bil.	lbs.
Z225	MILMIFZ	Milk, frozen dairy products, imports	bil.	lbs.
YY82	MILCCFZ	Milk, frozen dairy products, civilian disappearance	bil.	lbs.

Cheese, total production

CHESP = - 6.07091 + .111475 MILMFG + 3.12002 MILAMCHEE/MILBUT (-3.74) (10.79) (3.74)

+ .0101392 MILAMCHEE/MILPWDR - .517856 DUM74 + .288983 DUM68 (0.60) (2.15)

Estimation technique = 0.L.S.

Sample period = 1965-79

R²(ADJ) = 0.9660

D.W. = 1.6160

S.E.E. = 0.1210

YY90	CHESP	Cheese, total production	bil. lbs.
YY211	MILAMCHEE	American cheese, wholesale price, Wisc. assbly pts, 40-lb. blks.	cents/1b.
YY214	MILBUT	Butter, wholesale price, grade A, Chicago	cents/1b.
YY210	MILMFG	Milk, available for manufacturing	bil. lbs.
YY205	MILPWDR	Milk, non-fat dry, wholesale price index	1967=1.0
	DUM74	Dummy variable, 1974	
•	DUM68	Dummy variable, 1968	

Dairy, retail price index

DARCPI = - .039374 + .671257 MILIR (-4.80) (39.59)

+ .0775998 MILIRIC (10.26)

+ .102841 BUTIR + .190153 CHEIRAM (11.69) (14.60)

Estimation technique = 0.L.S.

Sample period = 1955-79

R²(ADJ) = 0.9990

D.W. = 1.8380

S.E.E. = 0.0030

YY91	DARCPI	Dairy, retail price index	1967=1.0
YY77	MILIR	Milk, fluid, retail price index	1967=1.0
YY78	MILIRIC	Ice cream, retail price index	1967=1.0
YY80	BUTIR	Butter, retail price index	1967=1.0
		Cheese, American, retail price	1967=1.0
YY81	CHEIRAM	index	

Milk, non-fat dry, civilian disappearance

MILCOND = .NPC [- .00243915 MILPWDR/MILIR (-10.95)

+ .0515417 .YPD\$/(.NPC)(.PC) (2.08)

+ .00667157 + .00140079 DUM73] (14.99) (5.07)

Estimation technique = 0.L.S.

Sample period = 1955-79

R²(ADJ) = 0.9370

D.W. = 1.5090

S.E.E. = 0.0003

YY204	MILCCND	Milk, non-fat dry, civilian disappearance	bil. lbs.
Z 1	.NPC	Population, total	mil.
YY77	MILIR	Milk, fluid, retial price index	1967=1.0
YY201	.PC	Consumer price index, all items	1967=100
Z34	.YPD\$	Personal disposable income	bil. dol.
YY205	MILPWDR	Milk, non-fat dry, wholesale price index	1967=1.0
	DUM73	Dummy variable, 1973	

Milk, non-fat dry, wholesale price index

MILPWDR = (- MILSPND + MILCCND + MILHGND(+1)

- MILHGND MILMIND + MILHBND(+1)
- MILHBND + MILMXND + MILBCND
- + MILCMND)-1

YY205	MILPWDR	Milk, non-fat dry, wholesale price index	1967=1.0
		Milk, non-fat dry, production	bil. lbs.
YY222	MILSPND		bil. lbs.
YY204	MILCCND	Milk, non-fat dry, civilian disappearance	D11. 105.
YY216	MILHGND	Milk, non-fat dry, beginning government stocks	bil. lbs.
Z226	MILMIND	Milk, non-fat dry, imports	bil. lbs.
Z228	MILMXND	Milk, non-fat dry, exports	bil. lbs.
YY213	MILBCND	Milk, non-fat dry, fed to calves	bil. lbs.
Z222	MILCMND	Milk, non-fat dry, military disappearance	bil. lbs.
			ž.

Butter, government stocks

BUTHG(+1) = BUTSP - BUTCC + BUTHG

- BUTHB(+1) + BUTHB - BUTMX

- BUTCM + BUTMI

Variable illimpers, names and account	Variable	numbers.	names	and	description
---------------------------------------	----------	----------	-------	-----	-------------

YY206	BUTHG	Butter, beginning stocks, government	bil. lbs.
YY207	BUTSP	Butter, total production	bil. lbs.
YY87	витсс	Butter, civilian disappearance	bil. lbs.
Z213	витнв	Butter, beginning stocks, commercial	bil. lbs.
	BUTMX	Butter, exports	bil. 1bs.
Z215		Butter, military disappearance	bil. lbs.
Z212	BUTCM		bil. lbs.
Z214	BUTMI	Butter, imports	3230 224

Butter, total production

BUTSP= - .350572 + 1.22365 MILBUT/MILAMCHEE + .0116949 MILMFG (-1.30) (6.31) (2.40)

- .0152769 MILAMCHEE/MILPWDR + .153427 DUM74 (-2.42) (2.40)

Estimation technique = 0.L.S.

Sample period = 1955-79

R²(ADJ) = 0.9260

D.W. = 0.8990

S.E.E. = 0.0570

YY207	BUTSP	Butter, total production	bil. lbs.
YY214	MILBUT	Butter, wholesale price, Grade A, Chicago	cents/lb.
YY211	MILAMCHEE	American cheese, wholesale price, Wisc. assembly pts.	cents/lb.
YY210	MILMFG	Milk, available for manufacturing	bil. lbs.
YY205	MILPWDR	Milk, non-fat dry, wholesale price index	1967=1.0
	DUM74	Dummy variable, 1974	

Cheese, commercial stocks

CHEHB(+1) = -0.139726 + .260058 CHEHB (3.23) (1.48)

+ .0556479 CHESP (3.06)

Estimation technique = 0.L.S.

Sample period = 1956-79

R²(ADJ) = 0.5810

D.W. = 2.0450

S.E.E. = 0.0440

Variable numbers, names and descriptions

YY208 CHEHB Cheese, beginning stocks, commercial bil. 1bs.

YY90 CHESP Cheese, total production bil. lbs.

Cheese, government stocks

CHEHG(+1) = CHESP - CHEHB(+1) - CHECT

- CHEMX - CHECM + CHEMI

+ CHEHB + CHEHG

YY209	CHEHG	Cheese,	beginning stocks, government	bil.	lbs.
YY90	CHESP	Cheese,	total production	bil.	lbs.
YY208	CHEHB	Cheese,	beginning stocks, commercial	bil.	lbs.
YY86	CHECT	Cheese,	civilian disappearance	bil.	lbs.
Z217	CHEMX	Cheese,	total exports	bil.	lbs.
Z216	CHECM	Cheese,	military disappearance	bil.	lbs.
Z233	CHEMI	Cheese,	imports	bil.	lbs.

Milk, available for manufacturing MILMFG = MILAP - MILBC - MILCCMC - MILSPEZ - MILSPEC*

YY210	MILMFG	Milk, available for manufacturing	bil.	lbs.
YY73	MILAP	Milk, total production	bil.	lbs.
YY72	MILBC	Milk, fed to calves	bil.	lbs.
YY85	MILCCMC	Milk, fluid plus cream, civilian disappearance	bil.	lbs.
YY89	MILSPFZ	Milk, frozen products, production	bil.	lbs.
YY361	MILSPEC*	Milk, evaporated and condensed production, milk equivalent	bil.	lbs.

American cheese, wholesale price, Wisc. assemble pts.

MILAMCHEE = (- CHESP + CHECT + CHEHB(+1)

- CHEHB + CHEMX + CHECM
- CHEMI + CHEHG(+1) CHEHG) $^{-1}$

YY211	MILAMCHEE	American cheese, wholesale price, Wisassemble pts.	cents/lbs.
YY90	CHESP	Cheese, total production	bil. lbs.
YY86	CHECT	Cheese, civilian disappearance	bil. lbs.
YY208	СНЕНВ	Cheese, beginning stocks, commercial	bil. lbs.
Z217	CHEMX	Cheese, total exports	bil. lbs.
Z216	CHECM	Cheese, military disappearance	bil. lbs.
Z233	CHEMI	Cheese, imports	bil. lbs.
YY209	CHEHG	Cheese, beginning stocks, government	bil. lbs.

Milk, production eligible for fluid consumption

MILASFM = (MILSPPLTS)(-.0433665 + 1.02736 MILASFM(-1)/MILSPPLTS(-1) (-1.24) (38.61)

+ .0236661 (MILPPFEMAT(-1) - MILPPMAT(-1)) (1.38)

Estimation technique = 0.L.S.

Sample period = 1955-79

R²(ADJ) = 0.9860

D.W. = 2.7270

S.E.E. = 0.0080

YY212	MILASFM	Milk, production eligible for fluid consumption	bil. lbs.
YY223	MILSPPLTS	Milk, total sold to plants and dealers	bil. lbs.
YY220	MILPPFEMAT	Milk, producer price, fluid eligible	\$/cwt.
YY221	MILPPMAT	Milk, producer price, manufacturing grade	\$/cwt.

Milk, non-fat dry, fed to calves

. MILBCND = - 1.14712 - 0.541445 MILPWDR/MILPF (-5.54) (-5.18)

- + .0223521 COWSNMC (5.49)
- 0.0145329 .TIME (5.83)

Estimation technique = 0.L.S.

Sample period = 1955-1979

R²(ADJ) = 0.578

D.W. = 2.213

S.E.E. = 0.013

YY213	MILBCND	Milk, non-fat dry, fed to calves	bil. lbs.
YY205	MILPWDR	Milk, non-dry wholesale price index index	1967=1.0
· YY74	MILPF	Milk, all sold to plants, average wholesale price received by farmers	\$/cwt.
YY16	COWSNMC	Cows, dairy, number on farms, Jan. 1	mil. hd.
z30	.TIME	Year, 1955=55	

Butter, wholesale price, grade A, Chicago

MILBUT = (- BUTSP + BUTCC + BUTHB(+1)

- BUTHB + BUTMX + BUTCM - BUTMI

+ BUTHG(+1) - $BUTHG)^{-1}$

YY214	MILBUT	Butter, wholesale price, grade A, Chicago	cents/1b.
YY207	BUTSP	Butter, total production	bil. lbs.
YY87	BUTCC	Butter, civilian disappearance	bil. 1bs.
z213	витнв	Butter, beginning stocks, commercial	bil. lbs.
Z215	BUTMX	Butter, exports	bil. lbs.
Z212	BUTCM	Butter, military disappearance	bil. lbs.
		Butter, imports	bil. lbs.
Z214	BUTMI	Butter, beginning stocks, government	bil. lbs.
YY 206	BUTHG	Butter, beginning stocks, government	

Milk, effective class I price paid by dealers

MILECLOP = MILOOP + MILOMP

Verichle	numbers.	names	and	descriptions

YY215	MILECLOP	Milk, effective class I price paid by dealers	\$/cwt.
z230	MILOOP	Milk, class I over order payments	\$/cwt. \$/cwt.
YY219	MILOMP	Milk, class I minimum federal order price	\$/CWL•

Milk, non-fat dry, government stocks

MILHGND(+1) = MILCCND + MILSPND

+ MILHGND - MILBCND

+ MILMIND - MILHBND(+1)

+ MILHBND - MILMXND

- MILCMND

YY216	MILHGND	Milk, non-fat stocks	dry,	beginning government	bil.	lbs.
YY204	MILCCND	Milk, non-fat	dry,	civilian disappearance	bil.	lbs.
YY222	MILSPND	Milk, non-fat	dry,	production	bil.	lbs.
YY213	MILBCND	Milk, non-fat	dry,	fed to calves	bil.	lbs.
Z226	MILMIND	Milk, non-fat	dry,	imports	bil.	lbs.
Z223	MILHBND	Milk, non-fat commercial	dry,	beginning stocks,	bil.	lbs.
Z228	MILMXND	Milk, non-fat	dry,	exports	bil.	lbs.
Z222	MILCMND	Milk, non-fat	dry,	military disappearance	bil.	lbs.

Milk, condensed and evaporated, total ending stocks

MILHTEV(+1) = -.0291461 + .0862268 MILSPEC (-1.82) (9.68)

+ .0546571 DUM6667 (3.35)

Estimation technique = 0.L.S.

Sample period = 1956-79

R²(ADJ) = 0.8620

D.W. = 1.6630

S.E.E. = 0.0220

YY217	MILHTEV	Milk, condensed and evaporated, total beginning stocks	bil. lbs.
	DUM6667	Dummy variable, 1966-67	
YY88	MILSPEC	Milk, condensed and evaporated, production	bil. lbs.

Milk, Minnesota-Wisconsin manufacturing price

MILMWAT = -.226964 + .0114579 MILBUT + .449113 MILPWDR (-3.15) (3.34) (3.52)

+ .0663590 MILAMCHEE (9.31)

Estimation technique = 0.L.S.

Sample period = 1955-79

R²(ADJ) = 0.9990

D.W. = 1.5170

S.E.E. = 0.0530

YY218	MILMWAT	Milk, Minnesota-Wisconsin manufacturing price	\$/cwt.
YY214	MILBUT	Butter, wholesale price, grade A, Chicage	cents/lb.
YY211	MILAMCHEE	American cheese, wholesale price, Wisconsin assembly points	cents/1b.
YY205	MILPWDR	Milk, non-fat dry, wholesale price index	1967=1.0

Milk, class I minimun federal price MILOMP = MILCIDF + MILMWAT

YY219	MILOMP	Milk, class I minimum federal order price	\$/cwt.
Z219	MILCIDF	Difference between class one federal order minimum price and Minn-Wisc. manufacturing grade price (class I differential)	\$/cwt.
YY218	MILMWAT	Milk, MinnWisc. manufacturing grade price	\$/cwt.

Milk, producer price, fluid eligible

MILPPFEMAT = MILPFDIF + [(MILECLOP)

(MILCCMC)(MILSPPLTS)/(MILAP -

MILBC) + (MILMWAT)((MILASFM -

MILCCMC)(MILSPPLTS))/(MILAP -

MILBC)]/MILASFM

YY220 MILPPFE	EMAT Milk, producer price, fluid eligible	\$/cwt.
Z231 MILPFDI	IF Difference between actual producer price and computed federal order price	\$/cwt.
YY215 MILECLO	OP Milk, effective Class I price paid by dealers	\$/cwt.
YY85 MILCCMC	Milk, fluid plus cream, civilian disappearance	bil. lbs.
YY223 MILSPPL	LTS Milk, total sold to plants and dealers	bil. lbs.
YY73 MILAP	Milk, total production	bil. lbs.
YY212 MILASFM	M Milk, production eligible for fluid consumption	bil. lbs.
YY218 MILMWAT	Milk, Minnesota-Wisconsin manufacturing grade price	\$/cwt.
YY72 MILBC	Milk, fed to calves	bil. 1bs.

Milk, producer price, manufacturing grade

MILPPMAT = - .283616 + .0178284 MILBUT + .599078 MILPWDR (-1.31) (1.77) (3.15)

+ .0543683 MILAMCHEE (5.13)

Estimation technique = 0.L.S.

Sample period = 1955-79

R²(ADJ) = 0.9990

D.W. = 2.3930

S.E.E. = 0.0790

YY221	MILPPMAT	Milk, producer price, manufacturing grade	\$/cwt.
YY214	MILBUT	Butter, wholesale price, grade A, Chicago	cents/lb.
YY211	MILAMCHEE	American cheese, wholesale price, Wisc. assembly pts.	cents/lb.
YY205 ·	MILPWDR	Milk, non-fat dry, wholesale price index	1967=1.0

Milk, non-fat dry, production

MILSPND = .220950 + 1.50162 BUTSP (0.71) (8.62)

- .225588 CHESP (-4.44)

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.9610

D.W. = 0.5100

S.E.E. = 0.0910

YY222	MILSPND	Milk, non-fat dry, production	bil. lbs.
YY207	BUTSP	Butter, total production	bil. lbs.
YY 90	CHESP	Cheese, total production	bil. lbs.

Milk, total sold to plants and dealers

MILSPPLTS = (MILAP - MILBC)(-1.73964 + .0717014 .TIME - .000473564 .TIME**2) (-17.00) (23.28) (-20.63)

Estimation Technique = 0.L.S.

Sample period = 1955-79

R²(ADJ) = 0.9930

D.W. = 0.2890

S.E.E. = 0.0050

YY223	MILSPPLTS	Milk, total sold to plants and dealers	bil. lbs.
YY73	MILAP	Milk, total production	bil. lbs.
Y Y72	MILBC	Milk, fed to calves	bil. lbs.
Z30	.TIME	Year, 1955=55	

Cheese, cheddar, U.S.D.A purchases

CHEGU = CHEHG(+1) - CHEHG + CHEGG

+ CHEMG - CHEDV

Variable numbers,	names and descriptions		
YY224 CHEGU	Cheese, cheddar, U.S.D.A. purchases	bil.	lbs.
үү209 СНЕНG	Cheese, beginning stocks, government	bil.	lbs.
Z236 CHEGG	Cheese, government donations	bil.	lbs.
Z239 CHEMG	Cheese, government exports	bil.	lbs.
7242 CHEDV	Cheese, unaccounted government residual	bil.	lbs.

Butter, U.S.D.A. purchases

BUTGU = BUTHG(+1) - BUTHG + BUTGG + BUTMG

- BUTDV

YY225	BUTGU	Butter, U.S.D.A. purchases	bil.	lbs.
YY206	BUTHG	Butter, beginning stocks, government	bil.	lbs.
Z235	BUTGG	Butter, government donations	bil.	lbs.
Z238	BUTMG	Butter, government exports	bil.	lbs.
Z241	BUTDV	Butter, unaccounted government residual	bil.	lbs.

Milk, non-fat dry, U.S.D.A. purchases

MILGUND = MILHGND(+1) - MILHGND

+ MILGGND + MILMGND

- MILDVND

Variable	numbers,	names and descriptions	
YY226	MILGUND	Milk, non-fat dry, U.S.D.A. purchases	bil. lbs.
YY216	MILHGND	Milk, non-fat dry, beginning stocks, government	bil. lbs.
z237	MILGGND	Milk, non-fat dry, government donations	bil. İbs.
Z240	MILMGND	Milk, non-fat dry, government exports	bil. lbs.
Z243	MILDVND	Milk, non-fat dry, unaccounted government	bil. lbs.

Butter, commercial stocks

BUTHB(+1) = .0036095 + .0162062 BUTSP (0.32) (2.49)

+ .0156486 DUM7374 (2.49)

Estimation technique = 0.L.S.

Sample period = 1961-79

R²(ADJ) = 0.2030

D.W. = 2.0440

S.E.E. = 0.0080

Variable numbers, names and descriptions

YY331 BUTHB Butter, beginning stocks, commercial bil. lbs.

YY207 BUTSP Butter, total production bil. lbs.

DUM7374 Dummy variable, 1973-74

Milk, non-fat dry, commercial stocks

MILHBND(+1) = .0420496 + .0276756 MILSPND (2.27) (2.35)

+ .0647213 DUM74 (2.65)

Estimation technique = 0.L.S.

Sample period = 1961-79

R²(ADJ) = 0.3010

D.W. = 2.5130

S.E.E. = 0.0230

Variable number, names and descriptions

YY332 MILHBND Milk, non-fat dry, beginning commercial bil. lbs. stocks

YY222 MILSPND Milk, non-fat dry, production bil. lbs.

DUM74 Dummy variable, 1974

Feed cost index, dairy

FDD = .5563 CORPF(-1) + .0469 SORPF*(-1)

+ .2565 OATPF(-1) + .0462 BARPF(-1)

+ .0102 WHEPF(-1) + .0839 SOMPF(-1)

YY347	FDD	Feed cost index, dairy	\$/bu.
YY127	CORPF	Corn, average farm price, OctSept.	\$/bu.
YY129	SORPF*	Sorghum, average farm price, OctSept.	\$/bu.
YY128	OATPF	Oats, average farm price, June-May	\$/bu.
YY130	BARPF	Barley, average farm price, June-May	\$/bu.
YY139	WHEPF	Wheat, average farm price, June-May	\$/bu.
YY102	SOMPF	Soybean meal price, OctSept.	cents/lb.

Butter, government support payments

BUTGP = (BUGU) (MILSPPBUT)/.10

YY350	BUTGP	Butter, government support payments	mil. dol.
YY225	BUTGU	Butter, USDA purchases	bil. lbs.
7232	MILSPPBUT	Butter, support price	cents/lbs

Cheese, government support payments

CHEGP = (CHEGU)(MILCHCHSPP)/.10

YY351	CHEGP	Cheese, government support payments	mil. dol.
YY224	CHEGU	Cheese, cheddar, USDA purchases	bil. lbs.
7218	MILCHCHSPP	Cheese, cheddar, support price	cents/1b.

Non-fat dry milk government support payments

NFDGP = (MILGUND) (MILNFDSPP)/.10

YY352	NFDGP	Non-fat dry milk, government support payments	mil. do	1.
YY226	MILGUND	Non-fat dry milk, USDA purchases	bil. 1)S•
7229	MILNFDSPP	Non-fat dry milk, support price "	cents/	Lb.

Dairy, total Government support payments

DAIGP = BUTGP + CHEGP + NFDGP

YY353	DAIGP	Dairy, total government support payments	bil. cents
YY350	BUTGP	Butter, government support payments	bil. cents
YY351	CHEGP	Cheese, government support payments	bil. cents
YY352	NFDGP	Non-fat dry milk, government support	bil. cents

Soybeans, CCC ending stocks

SOYHH = SOYHT - SOYHCC - SOYHF - SOYHR

Variable names, numbers and descriptions

SOYHH	Soybeans, C	CCC ending stocks	mil.	bu.
SOYHT	Soybeans, t	total ending stocks	mil.	bu.
SOYHCC	Soybeans, G	commercial ending stocks	mil.	bu.
	•		mil.	bu.
		:	mil.	bu.
		SOYHT Soybeans, SoyHCC Soybeans, SoyHF Soybeans,	SOYHT Soybeans, total ending stocks SOYHCC Soybeans, commercial ending stocks SOYHF Soybeans, ending stocks under loan	SOYHT Soybeans, CCC ending stocks SOYHT Soybeans, total ending stocks mil. SOYHCC Soybeans, commercial ending stocks mil. SOYHF Soybeans, ending stocks under loan mil.

Soybean, exports

SOYMX = - 283.930 + 514.492 LIVJP*EC (-4.18) (7.67)

- 83.3499 D71 88.1920 D74 (-2.49) (-2.77)
- + 1.99043 [.FEHJN + .FEHEC9] (2.64)
- 20.7035 SOYPM/.SDR*OCT (-1.68)

Estimation technique = 0.L.S.

Sample period = 1962-79

R²(ADJ) = 0.9717

D.W. = 2.2846

S.E.E. = 29.269

YY96	SOYMX	Soybean, exports, OctSept.	mil. bu.
Z79	LIVJP#EC	Livestock, EEC production index	1964=1.0
	D71	Dummy variable, 1971	
	D74	Dummy variable, 1974	
Z103	.FEHJN	Foreign exchange holdings of Japan	bil. SDR
Z104	.FEHEC9	Foreign exchange holdings of EEC-9 countries	bil. SDR
YY107	SOYPM	Soybean, mkt. price, #1 yellow Ill. pts.	\$/bu.
Z 102	.SDR#OCT	U.S. \$/SDR: Average of quarterly means	\$/SDR

Soybeans, total ending stocks SOYHT = SOYSP + SOYHT(-1) - SOYDV - SOYMX - SOYSC

YY97	SOYHT	Soybeans, total ending stocks	mil. bu.
YY142	SOYSP	Soybeans, production	mil. bu.
YY330	SOYDV	Soybeans, feed, seed, and residual use	mil. bu.
YY96	SOYMX	Soybeans, exports	mil. bu.
YY98	SOYSC	Soybeans, quantity crushed	mil. bu.

Soybeans, quantity crushed

SOYSC = 3072.24 - 191.293 SOYPM (3.85) (-6.01)

+ 64.2088 SOMPF + 16.3838 SOOPM (4.93) (4.73)

- 109.178 .TIME + 1.10329 .TIME**2 (-4.40) (5.64)

Estimation technique = 0.L.S.

Sample Period = 1955-79

R²(ADJ) = 0.9820

D.W. = 2.2590

S.E.E. = 27.428

YY98	SOYSC	Soybeans, quantity crushed, OctSept.	mil. bu.
YY107	SOYPM	Soybeans, mkt. price, #1 yellow Ill. pts.	\$/bu.
YY102	SOMPF	Soybean meal, price	cents/lb.
YY 106	SOOPM	Soybean oil, price	cents/lb.
Z30	.TIME	Year, 1955=55	Index

Soybean meal, production

SOMSP* = -64.5070 + 100.305 (SOMSC*) (SOYSC)(-1.54) (679.51)

Estimation technique = 0.L.S.

Sample period = 1955-79

R²(ADJ) = 1.0000

D.W. = 1.1085

S.E.E. = 67.010

YY99	SOMSP*	Soybean meal, production OctSept.	mil. IDS.
YY98	SOYSC	Soybeans, quantity crushed	mil. bu.
Z87	SOMSC*	Soybean meal, crushing yield	cwt.

Soybean meal, domestic disappearance

- 4189.71 D74 + 824.613 .TIME (-3.29) (17.93)

- 1435.11 SOMPF/LIVIF(+1) (-4.21)

+ 3072.11 CORPF/LIVIF(+1) (2.36)

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(AdJ) = 0.9500

D.W. = 1.7623

S.E.E. = 1004.9

YY100	SOMDD*	Soybean meal, domestic disappearance	mil. Ibs.
	D74	Dummy variable, 1974	
YY 102	SOMPF	Soybean meal, price	cents/lb.
YY92	LIVIF	Livestock, price index	1967=1.0
YY127	CORPF	Corn, average farm price	\$/bu.
YY361	HPAU71	High protein animal units	1971=1.0
Z30	.TIME	Year, 1955=55	

Soybean meal, exports

SOMMX* = - 8650.02 + 11.6631 FIMPW + 13347.4 LIVJP*EC (-7.25) (1.90) (12.40)

- .495395 SOMMXBR - 757.554 SOMPF/.SDR*OCT - 1645.12 D71 (-3.11) (-2.18) (-2.37)

Estimation technique = 0.L.S.

Sample period = 1961-79

R²(ADJ) = 0.9698

D.W. = 2.1231

S.E.E. = 613.05

YY101	SOMMX*	Soybean meal, exports, OctSept.	mil. lbs.
Z 78	FIMPW	Fishmeal price at European ports 65%, adjusted for exchange rates	\$/short ton
z 79	LIVJP*EC	Livestock, EEC production index	1964=1.0
Z85	SOMMXBR	Soybean meal, Brazil, total exports	thou. met. tons
YY102	SOMPF	Soybean meal price	cents/lb.
Z102	.SDR*OCT	U.S. \$/SDR	\$/SDR
	D71	Dummy variable, 1971	•

Soybean meal, price

SOMPF = (SOMSP* + SOMHT*(-1) - SOMHT*- $SOMMX* - SOMDD*)^{-1}$

YY102	SOMPF	Soybean meal, price	cents/1b.
YY99	SOMSP*	Soybean meal, production	mil. lbs.
YY328	SOMHT*	Soybean meal, ending stocks	mil. 1bs.
YY101	SOMMX*	Soybean meal, exports	mil. lbs.
YY100	SOMDD*	Soybean meal, domestic disappearance	mil. lbs.

Soybean oil, production

SOOSP= - 29.3863 + 100.616 (SOOSC*)(SOYSC) (-1.25) (279.61)

Estimation technique = 0.L.S.

Sample period = 1950-79

R²(ADJ) = 0.9990

D.W. = 1.5340

S.E.E. = 37.360

YY103	SOOSP	Soybean oil, production OctSept.	mil. lbs.
YY98	SOYSC	Soybeans, quantity crushed	mil. bu.
Z91	SOOSC#	Soybean oil, crushing yield	cwt.

Soybean oil, total ending stocks

SOOHT = 1397.86 (6.00)

- 3718.60 SOOPM/.PC(+1) - 457.089 D6172 (-2.37) (-4.21)

+ SOOHH

Estimation technique = 0.L.S.

Sample period = 1961-79

R²(ADJ) = 0.4662

D.W. = 1.9557

S.E.E. = 183.78

YY104	SOOHT	Soybean oil, total ending stocks	mil. lbs.
YY106	SOOPM	Soybean oil, price	cents/lb.
Z88	SOOHH	Soybean oil, government ending stocks	mil. lbs.
YY201	.PC	Consumer price index, all items	1967=100
	D6172	Dummy variable, 1961-72	

Soybean oil, domestic demand

SOODD/.NPC(+1) = -46.0157 + .985179 .TIME (-9.75) (5.46)

- + 5.55169 D73 55.4644 SOOPM/.PC(+1) (3.37) (-2.97)
- + 359.367 .YPD\$(+1)/(.PC(+1) NPC(+1)) (1.20)
- + 11.4348 PIPMKSE/.PC(+1) (.98)

Estimation technique = 0.L.S.

Sample period = 1961-79

R²(ADJ) = 0.9706

D.W. = 2.1013

S.E.E. = 1.1222

YY 105	SOODD	Soybean oil, domestic demand	mil. lbs.
Z 1	.NPC	Population, total	mil.
Z30	.TIME	Year, 1955=55	
	D73	Dummy variable, 1973	
YY 106	SOOPM	Soybean oil, price	cents/lb.
YY201	.PC	Consumer price index, all items	1967=100
Z34	.YPD\$	Personal disposable income, current dollars	bil. dol.
Z83	PIPMKSE	Peanuts, wholesale prize of oil at southeastern mills	cents/lb.

Soybean oil, price

SOOPM = (SOOSP + SOOHT(-1) - SOOHT - SOODD - SOOMC**+PL)-1

YY106	SOOPM	Soybean oil, price	cents/lb.
YY103	SOOSP	Soybean oil, production	mil. lbs.
YY104	SOOHT	Soybean oil, ending stocks	mil. lbs.
YY105	SOODD	Soybean oil, domestic disappearance	mil. lbs.
YY329	SOOMC**+PL	Soybean oil, exports	mil. lbs.

Soybeans, market price

SOYPM = (SOYSP + SOYHH(-1) + SOYHCC(-1)

- + SOYHF(-1) + SOYHR(-1) SOYDV
- SOYMX SOYSC SOYHH SOYHCC
- SOYHF SOYHR) -1

YY107	SOYPM	Soybeans, market price, #1 yellow, Ill. pts.	\$/bu•
YY142	SOYSP	Soybeans, production	mil. bu.
YY 70	SOYHH	Soybeans, CCC ending stocks	mil. bu.
YY152	SOYHCC	Soybeans, commercial ending stocks	mil. bu.
Z 94	SOYHF	Soybeans, ending stocks under loan	mil. bu.
296	SOYHR	Soybeans, ending stocks under reseal	mil. bu.
YY330	SOYDV	Soybeans, feed, seed, and residual use	mil. bu.
YY98	SOYSC	Soybeans, quantity crushed	mil. bu.

Soybeans, average farm price

SOYPF = - .0419478 + .940560 SOYPM (-0.79) (65.43)

- 1.43834 D72 + .737607 D74 (-11.74) (6.00)

Estimation technique = 0.L.S.

Sample period = 1950-79

R²(ADJ) = 0.9940

D.W. = 1.7790

S.E.E. = 175.22

YY108	SOYPF	Soybeans, average farm price, Oct-Sept.	\$/bu.
YY107	SOYPM	Soybeans market price, #1 yellow Ill. pts.	\$/bu.
	D72	Dummy variable, 1972	
	D74	Dummy variable, 1974	

Soybeans, total acreage planted

SOYSA =
$$-116.617 + 28.0548$$
 SOYFEXNR/.PC(-1)
(-16.70) (8.50)

- 14.1008 [.5(CORFEMNR + Max(CORFNRNL CORFNRXL))]/.PC(-1) (-4.37)
- + 2.20132 .TIME + 101.331 SOYWRFMY (21.73) (3.43)
- 7.29301 [.5(COLNRXP + COLNRM)]DCOT/.PC(-1) (-4.04)
- 5.80754 [.5(WHEFEMNR + Max(WHEFNRNL, WHEFNRXL))]/.PC(-1) (-1.14)

Estimation technique = 0.L.S.

Sample period = 1959-79

R²(ADJ) = 0.9170

D.W. = 2.5228

S.E.E. = 1.2214

			•
YY140	SOYSA	Soybeans, total acreage planted	mil. ac.
YY311	SOYFEXNR	Soybeans, expected net return	\$/ac.
YY201	.PC	Consumer price index, all items	1967=100
YY262	CORFEMNR	Corn, expected market net return	\$/ac.
YY270	CORFNRNL	Corn, expected program net return at the minimum level of participation	\$/ac.
YY261	CORFNRXL	Corn, expected program net return at the maximum level of participation	\$/ac.
YY263	WHEFNRNL	Wheat, expected program net return at minimum level of participation	\$/ac.
YY264	WHEFNRXL	Wheat, expected program net return at maximum level of participation	\$/ac.
YY272	WHEFEMNR	Wheat, expected market net return	\$/ac.
z 30	.TIME	Year, 1959=59	`\
Z125	SOYWRFMY	Soybeans, rainfall in May	inches
YY356	COLNRXP ,	Cotton, expected net return at the maximum level of participation	\$/ac.
YY360	COLNRM	Cotton, expected market net return	\$/ac.
Z276	DCOT	Cotton, dummy variable for years when there were no marketing orders	

Soybean, yield per acre harvested

SOYSY = - 0.587870 + 23.0783 SOYPF(-1)/FERTM (-2.20) (0.40)

+ 3.97317 INDEXJA + 0.320408 .TIME (4.12) (5.83)

- 3.88404 D74 (-4.21)

Estimation technique = 0.L.S.

Sample period = 1961-79

R²(ADJ) = 0.8835

D.W. = 1.7301

S.E.E. = 0.8499

YY141	SOYSY	Soybeans, yield per acre harvested	bu.
YY108	SOYPF	Soybeans, average farm price	\$/bu.
Z32	FERTM	Fertilizer price index	1967=100
Z33	INDEXJA	Weather variable, July-Aug., prec. (IA, IL, IN, NEB, and OH.)	index
Z30	.TIME	Year, 1961=61	
	D74	Dummy variable, 1974	

Soybean, total production SOYSP = (SOYSH)(SOYSY)

Variable	numbers,	names and	descriptions		
YY142			total production	mil.	bu.
11142				mil.	ac.
YY253		•	harvested acreage	.	
vv141	SOYSY	Soybeans,	yield per acre harvested	bu.	

Soybeans, commercial stocks

SOYHCC = 429.365 - 56.9842 D6172 (3.23) (-1.64)

- + .115381 (SOYSC + SOYMX + SOYDV) 816.573 SOYPM/.PC(+1) (3.41) (-.45)
- .294908 (SOYHR + SOYHF + SOYHH) (-2.55)
- 372.591 SOYSA(+1)/SOYSA (-2.55)

Estimation technique = 0.L.S.

Sample period = 1961-79

R²(ADJ) = 0.8557

D.W. = 2.0529

S.E.E. = 35.226

YY152	SOYHCC	Soybeans, ending commercial stocks	mil. bu.
	D6172	Dummy variable, 1961-72	
YY107	SOYPM	Soybeans, market price, #1 yellow, Ill. pts.	\$/bu.
Z94	SOYHF	Soybeans, ending stocks, under loan	mil. bu.
YY70	SOYHH	Soybeans, ending government stocks	mil. bu.
Z 96	SOYHR	Soybeans, ending stocks, reseal	mil. bu.
YY98	SOYSC	Soybeans, quantity crushed	mil. bu.
YY96	SOYMX	Soybeans, exports	mil. bu.
YY330	SOYDV	Soybeans, feed, seed and residual use	mil. bu.
YY140	SOYSA	Soybeans, total planted acreage	mil. ac.
YY201	.PC	Consumers price index, all items	1967-1.0

Soybeans, harvested acreage

SOYSH = - 1.06242 + .999651 SOYSA (-7.33) (279.53)

Estimation technique = 0.L.S.

Sample period = 1950-80

R²(ADJ) = 0.9996

D.W. = 0.8325

S.E.E. = 0.3309

Variable numbers, names and descriptions

YY253 SOYSH Soybeans, harvested acreage mil. ac.
YY140 SOYSA Soybeans, planted acreage mil. ac.

Soybeans, expected farm price

SOYPEXP* = -.0268319 + 1.00357 SOYPF(-1)(-0.48) (72.06)

Estimation technique = 0.L.S.

Sample period = 1959-79

R²(ADJ) = 0.9962

D.W. = 2.2033

S.E.E. = 0.1083

Variable numbers, names and descriptions

YY285 SOYPEXP Soybean, expected farm price \$/bu.

YY108 SOYPF Soybeans, average farm price, \$/bu.

Sept.-Aug.

^{*} Average farm price 5 months prior to planting adjusted to reflect the average difference in this price and the average crop year price during the previous 3 years.

Soybeans, expected yield per harvested acre, Sept. - Aug.

SOYYEXP* = 21.3740 + .331538 (.TIME - 54) (35.30) (8.14)

Estimation technique = 0.L.S.

Sample period = 1955-79

R²(ADJ) = 0.7312

D.W. = 1.9852

S.E.E. = 1.4682

Variable numbers, names and descriptions

YY291 SOYYEXP Soybeans, expected yield per harvested bu./ac.

YY141 SOYSY Soybeans, yield per harvested acre bu./ac.

Z30 .TIME Year, 1955=55

^{*} Regression parameters obtained by regressing SOYSY on (.TIME - 54)

Soybeans, expected net returns SOYFEXNR = Max(SOYPEXP, SOYLRPP) SOYYEXP - SOYVC**

YY311	SOYFEXNR	Soybeans, expected net returns	\$/ac.
YY285	SOYPEXP	Soybeans, expected farm price	\$/bu.
YY291	SOYYEXP	Soybeans, expected yield per harvested acre	bu./ac.
Z120	SOYLRPP	Soybeans, loan rate prior to planting	\$/bu•
Z119	SOYVC**	Soybeans, variable cost	\$/ac.

Soybean meal, total ending stocks

SOMHT* = 27.7461 + .0105644(SOMDD* + SOMMX*)(.26) (3.46)

+ 577.410 D73 (7.38)

Estimation technique = 0.L.S.

Sample period = 1961-79

R²(ADJ) = 0.6677

D.W. = 0.9663

S.E.E. = 121.21

YY328	SOMHT*	Soybean meal, total ending stocks	mil. lbs.
	D73	Dummy variable, 1973	•
YY 100	SOMDD*	Soybean meal, domestic disappearance	mil. lbs.
YY101	SOMMX*	Soybean meal, exports	mil. lbs.

Soybean oil, exports

SOOMC**+PL = 1142.56 - 23.2683 SOOPM/.SDR*OCT (8.87) (-1.96)

+ 18.4054 (.FEHJN + .FEHEC9) (6.53)

- 561.568 D72 + 487.597 D6970 (-2.87) (3.43)

- 583.697 D75 (-3.02)

Estimation technique = 0.L.S.

Sample period = 1961-79

R²(ADJ) = 0.8017

D.W. = 1.8920

S.E.E. = 184.22

YY329	SOOMC**+PL	Soybean oil, exports	mil. lbs.
YY106	SOOPM	Soybean oil, price, SeptAug.	cents/1b.
Z102	.SDR*OCT	U.S. dol./SDR, average of quarterly means, Oct. basis	\$/SDR
Z103	.FEHJN	Foreign exchange holdings of Japan	bil. SDR
Z104	.FEHEC9	Foreign exchange holdings of EC-9 countries	bil. SDR
	D75	Dummy variable, 1975	
	D72	Dummy variable, 1972	
	D6970	Dummy variable, 1969-70	V

Soybeans, feed, seed and residual use

SOYDV = 6.48962 + 1.26604 SOYSA(+1)(1.63) (14.53)

- 11.5011 D77 (-2.44)

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.9327

D.W. = 1.3011

S.E.E. = 4.2433

Variable numbers, names and descriptions

YY330 SOYDV Soybeans, feed, seed and residual use mil. bu.

YY140 SOYSA Soybeans, total planted acreage mil. ac.

D77 Dummy variable, 1977

Wheat, seed use

Estimation teachnique = 0.L.S.

Sample period = 1950-79

R²(ADJ) = 0.9930

D.W. = 1.1320

S.E.E. = 1.0670

YY131	WHEDS	Wheat, seed use	mil. bu.
Z30	.TIME	Year, 1950=50	
YY139	WHEPF	Wheat, average farm price, June-May	\$/bu.
YY153	WHESA	Wheat, total acreage planted	mil. ac.

Wheat, CCC stocks

WHEHH*JM = WHEHT*JM - WHEHCC*JM - WHEHPRRE

YY132	WHEHH*JM	Wheat, CCC stocks, end of crop year	mil.	bu.
YY138	WHEHT*JM	Wheat, total ending stocks	mil.	bu.
YY243	WHEHCC*JM	Wheat, commercial stocks, end of crop year	mil.	bu•
YY151	WHEHPRRE	Wheat, farmer owned reserve stocks, end of crop year	mil.	bu.

Wheat, food use

WHEDH*JM = 4.09427 + .309491 DUM7579 .NPC (0.12) (11.38)

- .0251026 .TIME (-16.76)
- + 3.57741 BARPF/.PC (0.42)
- 9.93612 WHEPF/.PC (-3.25)
- + 26.4757 CORPF/.PC (3.23)

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.9580

D.W. = 1.3200

S.E.E. = 0.0410

YY133	WHEDH*JM	Wheat, food use, May-June	mil. bu.
YY201	.PC	Consumer price index, all items	1967=10
Z3 0	.TIME	Year, 1950=50	
Z 1	.NPC	Population, total	mil.
	DUM7579	Dummy variable, 1975-79	
YY139	WHEPF	Wheat, average farm price, June-May	\$/bu.
YY127	CORPF	Corn, average farm price, Oct-Sept.	\$/bu.
YY130	BARPF	Barley, average farm price, June-May	\$/bu.

Wheat, total exports

WHEMX*JM = 1212.49 - 8.67830 WHESP+HWME + .462792 (.POPW-CPE - .NPC) (2.75) (-2.88) (1.16)

- + 538.487 DUM72F + 330.478 DUM78 (5.73) (3.60)
- 105.961 (WHEPF WHEPX)/.SDR *OCT (-1.98)
- + 10.2264 (RICPSMGHO RICPXMG)/.SDR*OCT (1.11)

Estimation technique = 0.L.S.
Sample period = 1963-79
R²(ADJ) = 0.9075
D.W. = 2.3147
S.E.E. = 69.282

YY136	ML*XM3HW	Wheat, total exports	mil. bu.
Z249	WHESP+HWME	Wheat, production plus beginning stocks, LDC, Canada, EEC-9 and other Western European countries	mil. met. tons
Z248	.POPW-CPE	Population, world less USSR, PRC, Eastern Europe	mil.
Z 1	.NPC	Population, total US	mil.
z 53	WHEPX	Wheat, average export payment rate	\$/bu.
Z35	RICPSMGHO	Rice, medium grain price, FOB Houston	\$/cwt.
Z 36	RICPXMG	Rice, season average export payment rate	\$/cwt.
YY139	WHEPF	Wheat, average farm price, June-May	\$/bu.
	DUM72F	Dummy variable, equals one after 1971	
•	DUM78	Dummy variable, 1978	
Z102	.SDR*OCT	U.S. \$/SDR: Average of quarterly means	\$/SDR

Wheat, feed use

WHEDF*JM = 233.210 + 4.15107 SAHKSFD (5.04) (2.19)

- 34.8630 DUM581 + 70.3499 DUM73 (-1.39) (1.97)
- 82.8267 DUM6467 (-3.54)
- 162.213 WHEPF/LIVIF (-4.89)
- + 69.4171 CORPF/LIVIF (1.21)

Estimation technique = 0.L.S.

Sample period = 1950-79

R²(ADJ) = 0.7863

D.W. = 1.6362

S.E.E. = 30.250

YY137	WHEDF*JM	Wheat, feed use, June-May	mil. bu.
YY28	SAHKSFD	Steer and heifer fed slaughter plus slaughter	mil. hd.
	DUM581	Dummy variable to splice data	•
	DUM6467	Dummy variable, 1964 and 1967	
YY139	WHEPF	Wheat, average farm price, June-May	\$/bu.
YY92	LIVIF	Livestock price index	1967=1.0
YY127	CORPF	Corn, average farm price, OctSept.	\$/bu.
	DUM73	Dummy variable, 1973	

Wheat, total ending stocks
WHEHT*JM = WHEST*JM - WHEDT*JM

YY138	WHEHT*JM	Wheat, total ending stocks	mil. bu.
YY244	WHEST*JM	Wheat, total supply	mil. bu.
VV246	WHEDT*JM	Wheat, total demand	mil. bu.

Wheat, farmer owned reserve stocks

WHEHPRRE = WHEHT*JM - WHEHCC*JM - WHEHH*JM

YY151	WHEHPRRE	Wheat, farmer owned reserve stocks, end of crop year	mil.	bu.
YY138	WHEHT*JM	Wheat, total ending stocks	mil.	bu.
YY243	WHEHCC*JM	Wheat, commercial stocks, endo	mil.	bu.
YY132	WHEHH*JM	Wheat, CCC stocks, end of crop year	mil.	bu.

Wheat, total planted acreage

WHESA = WHESAINP + WHESAOSP

YY153	WHESA	Wheat, total planted acreage	mil.	ac.
YY305		Wheat, total acreage planted by government program participants	mil.	ac.
YY306	WHESAOSP	Wheat, total acreage planted by government program nonparticipants	mil.	ac.

Wheat, yield per acre harvested

WHESY =
$$-9.85935 + .584274$$
 .TIME (-6.29) (28.61)

- + .131197 (WHESDINP WHESAINP) + 5.4787 DUM58 (3.53) (6.85)
- + 3.42366 DUM60 2.81527 DUM74 (4.20) (-3.48)
- .0459109 WHESA + 2.97571 DUM71 2.33171 DUM78 (-2.26) (3.71) (-2.85)

Estimation technique = 0.L.S.

Sample period = 1951-79

R²(ADJ) = 0.9793

D.W. = 1.7859

S.E.E. = 0.7513

YY154	WHESY	Wheat, yield per acre harvested	bu.
Z30	.TIME	Year, 1951=51	
YY153	WHESA	Wheat, total acreage planted	mil. ac.
	DUM58	Dummy variable, 1958	
	DUM60	Dummy variable, 1960	
	DUM74	Dummy variable, 1974	
	DUM71	Dummy variable, 1971	•
	DUM78	Dummy variable, 1978	
YY304	WHESDINP	Wheat, total government program acreage	mil. ac.
YY305	WHESAINP	Wheat, total acreage planted by government program participants	mil. ac.

Wheat, production

WHESP*JM = (WHESH)(WHESY)

YY155	WHESP*JM	Wheat, production	mil. bu.
YY251	WHESH	Wheat, harvested acreage	mil. ac.
VV15/4	WHFSY	Wheat, vield per harvested acre	bu•

Wheat, program participation rate

WHEPICP = WHESAINP/WHESA

YY193	WHEPICP	Wheat, program participation rate	
YY305	WHESAINP	Wheat, total acreage planted by government program participants	mil. ac.
YY153	WHESA	Wheat, total acreage planted	mil. ac.

Wheat, commercial stocks, end of crop year

WHEHCC*JM = 844.590 - .553116 WHEHPRRE (10.26) (-3.53)

- 14273.7 WHEPF/.PC + 407.536 DUM7677 - 211.156 DUM70 (-3.32) (5.90) (-2.19)

- 246.902 DUM6566 (-3.56)

Estimation technique = 0.L.S.

Sample period = 1965-80

R²(ADJ) = 0.8135

D.W. = 2.2134

S.E.E. = 87.375

YY243	WHEHCC*JM	Wheat, commercial stocks, end of crop year	mil. Du.
YY139	WHEPF	Wheat, average price received by farmers.	\$/bu.
YY151	WHEHPRRE	Wheat, farmer owned reserve stocks	mil. bu.
YY201	.PC	Consumer price index, all items	1967=100
4	DUM70	Dummy variable, 1970	•
	DUM7677	Dummy variable, 1976 and 1977	
	DUM6566	Dummy variable, 1965 and 1966	

Variab	le numbers,	names and descriptions		
YY244	WHEST*JM	Wheat, total supply	mil.	bu.
YY155	WHESP*JM	Wheat, production	mil.	bu.
YY132	wненн*Jм	Wheat, CCC stocks, end of crop year	mil.	bu.
YY151	WHEHPRRE	Wheat, farmer owned reserve stocks, end of crop year	mil.	bu.
YY243	WHEHCC*JM	Wheat, commercial stocks, end of crop year	mil.	bu.
Z61	WHEMI*JM	Wheat, imports	mil.	bu,

Wheat, domestic demand

WHEDD*JM = WHEDH*JM + WHEDS + WHEDF*JM

YY245	WHEDD*JM	Wheat,	domestic demand	mil.	bu.
YY133	WHEDH*JM	Wheat,	food use	mil.	bu.
YY131	WHEDS	Wheat,	seed use	mil.	bu.
VV1 37	WHEDE*.IM	Wheat.	feed use	mil.	bu.

Wheat, total demand

WHEDT*JM = WHEDD*JM + WHEMX*JM

Variable	numbers.	names	and	descriptions
ASTIGNIE	Humbers			•

YY246	WHEDT*JM	Wheat, total demand	mil. bu.
YY245	WHEDD*JM	Wheat, domestic demand	mil. bu.
VV 136	WHEMX*JM	Wheat, exports	mil. bu.

Wheat, harvested acreage

WHESH = -.0537433 + .892091 WHESA (-0.02) (22.72)

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.9644

D.W. = 1.3597

S.E.E. = 1.6124

Variable numbers, names and descriptions

YY251 WHESH Wheat, harvested acreage

YY153 WHESA Wheat, planted acreage

mil. ac.

mil. ac.

Wheat, deficiency payments

WHEPF = (.001) Max(WHPT - Max(WHEPFWG, WHEPL),0)

(.01)(WHEPICP) (WHESA) (WHYGVUS)(WHAALUS/WHESH)

YY260	WHEFP	Wheat, deficiency payments	mil. dol.
Z65	WHPT	Wheat, target price	\$/bu.
YY276	WHEPFWG	Wheat, farm price weighted by market, JeOct.	\$/bu.
Z 52	WHEPL	Wheat, loam rate	\$/bu.
YY153	WHESA	Wheat, planted acreage	mil. ac.
Z 55	WHYGVUS	Wheat, administrative yield	bu./ac.
Z69	WHAALUS	Wheat, allotted acreage	thous. ac.
YY251	WHESH	Wheat, harvested acreage	mil. ac.
YY193	WHEPICP	Wheat, program participation rate	percent

Wheat, expected program net return at the minimum level of participation

WHEFNRNL = [Max(WHEPEXP, WHELRPP) (WHEYEXP)

- WHEVC**] (WHESAPMP)
- + [(WHESPEMP)[(DUM5970)(WHEPGMLP) + (1 DUM5970)[(DUM7173) Max(WHEPGMLP - WHEPEXP,0)
- + (1 DUM7173) Max(WHEPGMLP Max(WHEPEXP, WHELRPP),0)]]]
- + WHEPDMLP

YY263	WHEFNRNL	Wheat, expected program net return at the minimum level of participation	\$/ac.
YY281	WHEPEXP	Wheat, expected farm price	\$/bu.
Z117	WHELRPP	Wheat, loan rate prior to planting	\$/bu.
YY288	WHEYEXP	Wheat, expected yield per harvested acre	bu./ac.
Z38	WHEVC**	Wheat, variable cost	\$/ac.
Z39	WHESAPMP	Wheat, fraction of each acre planted at minimum level of program participation	
~Z54	WHESPEMP	Wheat, production eligible for support at the minimum level of program participation	bu./ac.
Z44	WHEPGMLP	Wheat, support payment rate basis at minimum level of program participation	\$/bu.
z99 ·	WHEPDMLP	Wheat, export certificate payments and diversion payments at the minimum level of program participation	\$/ac.
	DUM5970	Dummy variable for years when the support rate was not computed as a function of farm price 1959-70	
	DUM7173	Dummy variable for years when the support rate was computed as the difference between farm price and 100% parity, 1971-73	t.

Wheat, expected program net returns at the maximum level of participation

WHEFNRXL = [Max(WHEPEXP, WHELRPP)(WHEYEXP)

- WHEVC**] (WHESAPXP)
- + [(WHESPEXP) [(DUM5970)(WHEPGXLP)
- + (1 DUM5970)[(DUM7173) Max(WHEPGXLP WHEPEXP), 0)
- + (1 DUM7173) Max(WHEPGXLP Max(WHEPEXP, WHELRPP), 0)]]]
- + WHEPDXLP

YY264	WHEFNRXL	Wheat, expected net returns at the the maximum level of participation	\$/ac.
YY281	WHEPEXP	Wheat, expected farm price	\$/bu.
Z117	WHELRPP	Wheat, loan rate prior to planting	\$/bu.
YY288	WHEYEXP	Wheat, expected yield per harvested acre	bu/.ac.
Z38	WHEVC**	Wheat, variable cost	\$/ac.
Z43	WHESAPXP	Wheat, fraction of each acre planted at the maximum level of participation	
Z80	WHESPEXP	Wheat, production eligible for support at the maximum level of program participation	bu./ac.
Z48	WHEPGXLP	Wheat, support payment rate basis at maximum level of program participation	\$/bu.
Z51	WHEPDXLP	Wheat, export certificate payments and diversion payments at the maximum level of program participation	\$/ac.
	DUM5970	Dummy variable for years when the support rate was not computed as a function of farm price, 1959-70	
	DUM7173	Dummy variable for years when the support rate was computed as the difference between farm price and 100% parity, 1971-73	

wheat, total farmer owned reserve storage payments

WHEFS = .5 [(WHPSRUS)(WHEHPRRE) + (WHPSRUS(-1))(WHEHPRUS(-1))]

YY269	WHEFS	Wheat, total farmer owned reserve storage payments		q01•
YY151	WHEHPRRE	Wheat, farmer owned reserve stocks, end of crop year	mil.	
274	WHPSRUS	Wheat, farmer owned reserve storage payment rate	\$/bu	l•

Wheat, expected market net return WHEFEMNR = Max[(WHEPEXP) (WHEYEXP) - WHEVC**, (DUMWHE)(WHEFNRNL)]

YY272	WHEFEMNR	Wheat, expected market net return	\$/ac.
YY281	WHEPEXP	Wheat, expected farm price	\$/bu.,
YY288	WHEYEXP	Wheat, expected yield per harvested acre	bu./ac.
YY263	WHEFNRNL	Wheat, expected program net return at the minimum level of participation	\$/ac.
z38	WHEVC**	Wheat, variable cost	\$/ac.
	DUMWHE	Dummy variable for years when there was no program, 1973-1977	

Wheat, farm price weighted by marketings, June-Oct.

WHEPFWG = .138239 + .977557 WHEPF (1.23) (32.19)

- .127619 WHEHCC*JM(-1)/WHEHCC*JM (-2.21)

+ .382371 DUM76 - .247762 DUM7273 (4.05) (-3.33)

+ .188155 DUM74 (1.84)

Estimation technique = 0.L.S.

Sample period = 1970-79

R²(ADJ) = 0.9940

D.W. = 2.4376

S.E.E. = 0.0848

YY276	WHEPFWG	Wheat, farm price weighted by marketings, June-Oct.	\$/bu.
YY139	WHEPF	Wheat, average farm price, June-May	\$/bu.
YY243	WHEHCC*JM	Wheat, commercial stocks, end of crop year	mil. bu.
	DUM76	Dummy variable, 1976	
Į.	DUM7273	Dummy variable, 1972-73	•
	Dum74	Dummy variable, 1974	

Wheat, expected farm price

WHEPEXP* = - .140248 + 1.08460 WHEPF(-1) (-3.43) (57.94) - .483534 DUM78 - .297690 DUM79 (-6.52) (-3.92)

Estimation technique = 0.L.S.

Sample period = 1959-79
R(ADJ) = 0.9909
D.W. = 1.7334
S.E.E. = 0.0720

YY281	WHEPEXP	Wheat, expected farm price	\$/bu.
YY139	WHEPF	Wheat, average farm price, June-May	\$/bu.
	DUM78	Dummy variable, 1978	
	DUM79	Dummy variable, 1979	

^{*}Average farm price 5 months prior to planting adjusted by the average difference in this price and the average crop price during the previous 3 years.

Wheat, expected yield per harvested acre

WHESYEXP* = 16.6248 + 3.18426 (.TIME - 54) (13.14) (9.07)

Estimation technique = 0.L.S. Sample period = 1955-79

R²(AdJ) = 0.7723 D.W. = 1.6573 S.E.E. = 1.9743

Variable numbers, names and descriptions

YY288 WHEYEXP Wheat, expected yield per harvested bu./ac.

acre

YY154 WHESY Wheat, yield per harvested acre bu./ac.

Z30 .TIME Year, 1955=55

^{*} Regression parameters obtain by regressing WHEYEXP On (.TIME - 54).

Wheat, total government program acreage

WHESDINP = 65.1077 - 31.2244 WHEFEMNR/.PC(-1) (7.81) (-1.53)

- + 57.7378 Max(WHEFNRNL, WHEFNRXL)/.PC(-1) (5.79)
- 18.9346 COLFVNR/.PC(-1) (-2.25)
- 25.2172 SOYFEXNR/.PC(-1) (-2.75)
- + .0000855956 (WHAALUS)(1 Min(WHESAPMP, WHESAPXP))
 (1.13)
- 9.18484 DUM6264 17.3175 DUM63 (-2.75) (-6.09)

Estimation technique = 0.L.S.

Sample period = 1957-79

R²(ADJ) = 0.9513

D.W. = 1.8341

S.E.E. = 2.1356

YY304	WHESDINP	Wheat, total government program acreage	mil. ac.
YY272	WHEFEMNR	Wheat, expected market net return	\$/ac.
YY263	WHEFNRNL	Wheat, expected program net return at the minimum level of participation	\$/ac.
YY264	WHEFNRXL	Wheat, expected program net return at maximum level of participation	\$/ac.
Z134	COLFVNR	Cotton, expected net return	\$/ac.
YY201	.PC	Consumer price index, all items	1967=100
YY311	SOYFEXNR	Soybeans, expected net return	\$/ac.
269	WHAALUS	Wheat, allotted acreage	mil. ac.
Z39	WHESAPMP	Wheat, fraction of each acre planted at minimum level of participation	
Z43	WHESAPXP	Wheat, fraction of each acre planted at maximum level of participation	
	DUM6264	Dummy variable, 1962-1964	•
	DUM63	Dummy variable, 1963	

Wheat, total acreage planted by government program participants

WHESAINP = (WHESDINP)(WHESAPMP)

- .166363 [(WHESAPXP/WHESAPMP) (-3.55)

(WHESAPMP - Min(WHESAPMP, WHESAPXP)) (WHESDINP)]

+ 6.53259 DUM7173 + 12.5417 DUM73 (1.35) (2.47)

Estimation technique = 0.L.S.

Sample period = 1962-73,1978-79

 $R^{2}(ADJ)$ = 0.8566 D.W. = 1.1550 S.E.E. = 1.7499

DUM73

Variable numbers, names and descriptions

YY305	WHESAINP	Wheat, total acreage planted in the program	mil.	ac.
YY304	WHESDINP	Wheat, total acreage in the program	mil.	ac.
z ₃ 9	WHESAPMP	Wheat, fraction of each acre planted at minimum level of participation		
Z43	WHESAPXP	Wheat, fraction of each acre planted at maximum level of participation		
	DUM7173	Dummy variable, 1971-73		

Dummy variable, 1973

Wheat, total acreage planted by government program nonparticipants

WHESAOSP = 46.6158 + 37.3868 WHEFEMNR/.PC(-1) (19.38) (7.90)

- .672425 (WHESDINP WHESAINP) (-5.32)
- .844038 WHESAINP (-23.52)
- + 15.5355 DUM7679 (11.69)
- + 8.59396 DUM72 (3.11)
- 6.50448 DUM6164 (-4.95)

Estimation technique = 0.L.S.
Sample period = 1959-79
R₂(ADJ) = 0.9914
D.W. = 1.8385
S.E.E. = 2.4221

YY306	WHESAOSP	Wheat, total acreage planted by government program nonparticipants	mil. ac.
YY272	WHEFEMNR	Wheat, expected market net return	\$/ac.
YY201	.PC	Consumer price index, all items	1967=100
YY304	WHESDINP	Wheat, total government program acreage	mil. ac.
YY305	WHESAINP	Wheat, total acreage planted by government program participants	mil. ac.
	DUM6164	Dummy variable, 1961-64	
	DUM72	Dummy variable, 1972	
	DUM7679	Dummy variable, 1976-79	•

Corn, program participation rate

CORPICP = CORSAINP/CORSA

YY19	CORPICP	Corn, program participation rate		
YY297	CORSAINP	Corn, total acreage planted by government program participants	mil.	ac.
VV1//3	CORSA	Corn. total acreage planted	mil.	ac.

Corn, total demand

CORDT = CORDD + CORMX

YY79	CORDT	Corn,	total demand	mil.	bu.
YY247	CORDD	Corn,	domestic demand	mil.	bų.
VV121	CORMX	Corn.	exports	mil.	bu.

Corn, CCC stocks

CORHHUN(+1) = CORHT - CORHPRRE - CORHCC1*

YY110	CORHHUN	Corn, CCC stocks, beginning of crop year	mil. b	u.
YY114	CORHT	Corn, total ending stocks	mil. b	ou.
YY229	CORHPRRE	Corn, farmer owned reserve stocks, end of crop year	mil. b	ou.
YY228	CORHCC1*	Corn, commercial stocks, end of crop year	mil. b	วน。

Corn, total ending stocks

CORHT = CORST - CORDT

Variable numbers, names and descriptions

YY114 CORHT Corn, total ending stocks mil. bu.

YY171 CORST Corn, total supply mil. bu.

YY79 CORDT Corn, total demand mil. bu.

Corn, food use

CORDH* = -.590557 .NPC(+1) (-2.18)

- 76.6986 (CORPF)(.NPC(+1))/.PC(+1) (-3.23)
- + 136.123 (.PCSS(+1))(.NPC(+1))/.PC(+1) (4.81)
- + 19.5667 (WHEPF)(.NPC(+1))/.PC(+1) (1.34)
- + 56.6381 .YPD\$(+1)/.PC(+1) + COUGSUS (4.04)

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.9971

D.W. = 1.6572

S.E.E. = 24.265

YY118	CORDH*	Corn, food use, Oct-Sept.	mil. bu.
Z1	.NPC	Population, total —	mil.
YY127	CORPF	Corn, average farm price, OctSept.	\$/bu.
YY201	.PC	Consumer price index, all items	1967=100
YY325	.PCSS	Consumer price index, sugar and sweets	1967=1.0
YY1 39	WHEPF	Wheat, average farm price, June-May	\$/bu.
Z34	.YPD\$	Personal disposable income in current dollars	bil. dol.
Z114	COUGSUS	Corn, gasohol use, OctSept.	mil. bu.

Corn, total U.S. exports

CORMX = -871.220 + 1687.47 LIVJP*EC (-1.78) (4.07)

- + .175520 CORME*USSR + 580.778 DUM72F + 303.117 DUM65 (2.97) (3.35) (1.96)
- .0415394 CORSP+HE6 (-1.79)
- 216.543 CORPF/.SDR*OCT (-1.52)

Estimation technique = 0.L.S.

Sample period = 1967-80

R²(ADJ) = 0.9540

D.W. = 1.9774

S.E.E. = 123.45

YY121	CORMX	Corn, total exports, OctSept.	mil. bu.
z 79	LIVJP*EC	Livestock, EEC production index	1964=1.0
Z100	CORME*USSR	Soviet Union net exports from non-U.S. sources	1000 met. tons
Z45	CORSP+HE6	Corn production plus beginning stocks in EEC-6 countries	1000 met. tons
Z102	.SDR*OCT	U.S. \$/SDR; average of quarterly means	\$/SDR
YY127	CORPF	Corn, average farm price, OctSept.	\$/bu.
•	DUM72F	Dummy variable, equals one after 1971	
	DUM65	Dummy variable, 1965	

Corn, feed use

- + 617.918 DUM7879 (5.29)
- + 148.927 SOMPF/LIVIF(+1) (3.48)
- + 29.8186 GCAU*(+1) (9.05)
- 842.851 CORPF/LIVIF(+1) (-4.09)

Estimation technique = 0.L.S.

Sample period = 1951-80

R²(ADJ) = 0.9486

D.W. = 1.7654

S.E.E. = 149.27

enot

tons

Variable numbers, names and descriptions

YY123 CORDF Corn, feed use, Oct-Sept. mil. bu. DUM74 Dummy variable, 1974 DUM73 Dummy variable, 1973 DUM7879 Dummy variable, 1978-79 YY102 SOMPF Soybeans, meal price cents/1b. **YY92** LIVIF Livestock price index 1967=1.0 **YY95** GCAU* Livestock, number of grain consuming animal units

Corn, average farm price, Oct.-Sept.

\$/bu.

2

YY127

CORPF

Corn, total acreage planted

CORSA = CORSAOSP + CORSAINP

YY143	CORSA	Corn, total acreage planted	mil.	ac.
YY298	CORSAOSP	Corn, total acreage planted by government program participants	mil.	ac.
YY297	CORSAINP	Corn, total acreage planted by government program nonparticipants	mil.	ac.

Corn, production

CORSPGR = -40.5969 + .878697 (CORSH)(CORSYGR) (-0.92) (89.21)

Estimation technique = 0.L.S.
Sample period = 1950-79
R²(ADJ) = 0.9965
D.W. = 0.7741
S.E.E. = 75.445

YY147	CORSPGR	Corn, production	mil. bu.
YY230	CORSYGR	Corn, yield per harvested acre	bu.
YY252	CORSH	Corn, total acreage harvested	mil. ac.

Corn, total supply CORST = CORSPGR + CORHHUN + CORHPRRE(-1) + CORHCC1*(-1) + CORMI

YY171	CORST	Corn, total supply	mil.	bu.
YY147	CORSPGR	Corn, production for grain	mil.	bu.
YY110	CORHHUN	Corn, CCC stocks, beginning of crop year	mil.	bu•
YY229	CORHPRRE	Corn, farmer owned reserve stocks, end of crop year	mil.	bu•
YY228	CORHCC1*	Corn, commercial stocks, end of crop year	mil.	bu.
Z167	CORMI	Corn, imports	mil.	bu.

Corn, seed use

CORDS = - 18.4512 + .971593 CORPF (-7.06) (2.30)

- + .178895 CORSA(+1) (6.50)
- + .272890 .TIME (12.51)

Estimation technique = 0.L.S.

Sample period = 1950-79

R²(ADJ) = 0.9500

D.W. = 1.0230

S.E.E. = 0.6700

YY227.,	CORDS	Corn,	seed use, OctSept.	mil.	bu.
YY127	CORPF	Corn,	average farm price, OctSept.	\$/bu	•
YY143	CORSA	Corn,	total acreage planted	mil.	ac.
Z30	.TIME	Year,	1950=50		•

Corn, commercial stocks, end of grop year

CORHCC1* = 1328.35 + .0258677 CORDT (9.89) (1.02)

- 238.734 DUM70 215.067 DUM75 (-3.15) (-2.62)
- 57985.3 CORPF/.PC(+1) (-7.77)
- .376267 CORHPRRE (-2.43)

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.8100

D.W. = 2.1008

S.E.E. = 72.836

YY228	CORHCC1*	Corn, commercial stocks, end of crop year	mil. bu.
YY79	CORDT	Corn, total demand	mil. bu.
	DUM70	Dummy variable, 1970	
	DUM75	Dummy variable, 1975	
YY127	CORPF	Corn, average farm price, OctSept.	\$/bu.
YY229	CORHPRRE	Corn, farmer owned reserve stocks, end of crop year	mil. bu.
YY201	.PC	Consumer price index, all items	1967=100.

Corn, farmer owned reserve stocks
CORHPRRE = CORHT - CORHCC1* - CORHUN(+1)

YY229	CORHPRRE	Corn, farmer owned reserve stocks, end of crop year	mil.	bu.
YY114	CORHT	Corn, total ending stocks	mil.	bu.
YY228	CORHCC1*	Corn, commercial stocks, end of crop year	mil.	bu.
YY110	CORHHUN	Corn, CCC stocks, beginning of crop year	mil.	bu.

Corn, yield per harvested acre

CORSYGR = - 137.652 - 13.7286 DUM70 (-7.67) (-3.49)

- 8.70058 DUM74 + 7.88956 DUM67 (-2.00) (2.24)
- + 3.19986 JULPRCP + 2.78384 .TIME (3.24) (12.65)
- + 469.556 CORPF/FERTM (0.72)
- + .473039 (CORSDINP CORSAINP) (3.57)

Estimation technique = 0.L.S.

Sample period = 1961-79

R²(ADJ) = 0.9401

D.W. = 2.0745

S.E.E. = 3.2534

YY230	CORSYGR	Corn, yield per harvested acre	bu.
	DUM70	Dummy variable, 1970	
	DUM74	Dummy variable, 1974	
	DUM67	Dummy variable, 1967	
Z16	JULPRCP	<pre>Index, precipitation, July, (ILL, IN, IO, OH)</pre>	
z 30	.TIME	Year, 1961=61	
YY127	CORPF	Corn, average farm price, OctSept.	\$/bu.
Z32	FERTM	Fertilizer index	
YY296	CORSDINP	Corn, total government program acreage	mil. ac.
YY297	CORSAINP	Corn, acreage planted by government program participants	mil. ac.

Corn, domestic demand

CORDD = CORDH* + CORDF + CORDS

YY247	CORDD	Corn,	domestic demand	mil.	bu.
YY118	CORDH*	Corn,	food use	mil.	bu.
YY123	CORDF	Corn,	feed use	mil.	bu.
YY227	CORDS	Corn,	seed use	mil.	bu.

Corn, harvested acreage

CORSH = 2.54042 + .952060 CORSA (2.32) (65.42)

Estimation technique = 0.L.S.

Sample period = 1950-79

R²(ADJ) = 0.9933

D.W. = 1.9473

S.E.E. = 0.5637

Variable numbers, names and descriptions

YY252 CORSH Corn, harvested acreage mil. ac.

YY143 CORSA Corn, planted acreage mil. ac.

Corn, deficiency payments

CORFP = (.001)Max(COPT - Max(CORPFWG,CORPL),0)

(.01)(CORPICP) (CORSA) (COYGVUS) (COAALUS/CORSH)

YY257	CORFP	Corn, deficiency payments	mil. dol.
Z62	COPT	Corn, target price	\$/bu.
YY273	CORPFWG	Corn, farm price weighted by marketings, OctFeb.	\$/bu.
Z110	CORPL	Corn, loan rate	\$/bu.
YY19	CORPICP	Corn, program participation rate	percent
YY143	CORSA	Corn, planted acreage	mil. ac.
Z58	COYGVUS	Corn, administrative yield	bu./ac.
Z 66	COAALUS	Corn, allotted acreage	thous. ac.
YY252	CORSH	Corn, harvested acreage	mil. ac.

Corn, expected program net returns at the maximum level of participation

CORFNRXL = [(1 - DUM6162) Max(CORPEXP, CORLRPP)(CORYEXP)

- + (DUM6162)[(DUMCP)(CORPEXP)(CORYEXP)
- + (1 DUMCP)[(CORLRPP) Min(CORYEXP, COYGVUS)
- + (CORPEXP) Max(CORYEXP COYGVUS,0)]]
- CORVC**](CORSAPXP)
- + [(CORSPEXP)[(DUM5973)(CORPGXLP)
- + (1 DUM5973) Max(CORPGXLP Max(CORPEXP,CORLRPP),0)]]
- + CORPDXLP

YY261	CORFNRXL	Corn, expected program net return at the maximum level of program participation	\$/ac.
YY282	CORPEXP	Corn, expected farm price	\$/bu.
Z142	CORLRPP	Corn, loan rate prior to planting	\$/bu.
YY289	CORYEXP	Corn, expected yield per harvested acre	bu./ac.
Z58	COYGVUS	Corn, administrative yield	bu./ac.
Z121	CORVC**	Corn, variable cost	\$/ac.
Z124	CORSAPXP	Corn, fraction of each acre planted at the minimum level of participation	
Z137	CORSPEXP	Corn, production eligible for support at the maximum level of program participation	bu./ac.
Z133	CORPGXLP	Corn, support payment rate at the maximum level of program participation	\$/bu.
Z141	CORPDXLP	Corn, diversion payments at the maximum level of program participation	\$/ac.
	DUM6162	Dummy variable for years when the loan rate applied to at most normal production on harvested acreage, 1961-62=1	
	DUMCP	Dummy variable, if COREXP > CORLRPP, DUMCP=1	•
	DUM5973	Dummy variable for years when the support rate was not computed as a function of farm price, 1959-73=1	

Corn, expected market net returns

CORFEMNR = Max[(CORPEXP)(CORYEXP) - CORVC**,

(DUMCOR)(CORFNRNL)]

YY262	CORFEMNR	Corn, expected market net returns	\$/ac.
YY282	CORPEXP	Corn, expected farm price	\$/bu.
YY289	CORYEXP	Corn, expected yield per harvested acre	bu./ac.
YY261	CORFNRNL	Corn, expected program net return at the minimim level of participation	\$/ac.
Z121	CORVC**	Corn, variable cost	\$/ac.
	DUMCOR	Dummy variable for year when there was no program, 1959-60, 1973-77	

Corn, farmer-owned reserve storage payments

CORFS = .5[(COPSRUS)(CORHPRRE) + (COPSRUS(-1))(CORHPRRE(-1))]

YY265	CORFS	Corn, farmer-owned reserve storage payments	mil. d	lol.
YY229	CORHPRRE	Corn, farmer-owned reserve stocks, end of crop year	mil. b	ou•
Z71	COPSRUS	Corn, farmer-owned reserve storage payment rate	\$/bu.	

Corn, expected program net returns at the mimimum level of participation

CORFNRNL = [(1 - DUM6162) Max(CORPEXP, CORLRPP)(CORYEXP)

- + (DUM6162)[(DUMCP)(CORPEXP)(CORYEXP)
- + (1 DUMCP)[(CORLRPP) Min(CORYEXP, COYGVUS)
- + (CORPEXP) Max(CORYEXP COYGVUS,0)]]
- CORVC**](CORSAPMP)
- + [(CORSPEMP)[(DUM5973)(CORPGMLP)
- + (1 DUM5973) Max(CORPGMLP Max(CORPEXP, CORLRPP), 0)]]
- + CORPDMLP

YY270	CORFNRNL	Corn, expected program net returns at the minimum level of participtation	\$/ac.
YY282	CORPEXP	Corn, expected farm price	\$/bu.
Z142	CORLRPP	Corn, loan rate prior to planting	\$/bu.
YY289	CORYEXP	Corn, expected yield per harvested acre	bu./ac.
z 58	COYGVUS	Corn, administrative yield	bu./ac.
Z121	CORVC**	Corn, variable cost	\$./ac.
Z123	CORSAPMP	Corn, fraction of each acre planted at minimum level of program participation	
Z135	CORSPEMP	Corn, production eligible for support at at the minimum level of program participation	bu./ac
Z131	CORPGMLP	Corn, support payment rate basis at the minimum level of program participation	\$/bu.
Z140	CORPDMLP	Corn, diversion payments at the minimum level of program participation	\$/ac.
	DUM6162	Dummy variable for years when the loan rate applied to at most normal production on harvested acreage, 1961-62=1	
	DUMCP	Dummy variable, it CORPEXP > CORLRPP, DUMCP=1	
	DUM5973	Dummy variable for years when the support rate was not computed as a function of farm price, 1959-73=1	

Corn, farm price weighted by marketings, Oct.-Feb.

CORPFWG = .0556593 + 1.06670 CORPF (0.87) (35.57)

- .296180 CORHCC1*(-1)/CORHCC1*(-7.12)

+ .300710 DUM70 + .143467 DUM74 (6.00) (2.92)

Estimation technique = 0.L.S.

Sample period = 1970-79

R²(ADJ) = 0.9966

D.W. = 2.3035

S.E.E. = 0.0372

YY273	CORPFWG	Corn, farm price weighted by marketings, OctFeb.	\$/bu.
YY127	CORPF	Corn, average farm price, OctSept.	\$/bu.
YY228	CORHCC1*	Corn, ending commercial stocks, end of crop year	mil. bu.
	DUM70	Dummy variable, 1970	
	DUM74	Dummy variable, 1974	

Corn, expected farm price

Estimation technique = 0.L.S.

Sample period = 1959-79

R²(ADJ) = 0.9941

D.W. = 1.6474

S.E.E. = 0.4866

YY282	CORPEXP	Corn, expected farm price	\$/bu.
YY127	CORPF	Corn, average farm price, OctSept.	\$/bu.
Z30	.TIME	Year, 1959=59	
	DUM73	Dummy variable, 1973	
	DUM77	Dummy variable, 1977	

^{*} Average farm price 5 months prior to planting adjusted by the average difference in that price and the average crop year farm price during the 3 previous years.

Corn, expected yield per harvested acre

CORSYGR* = 43.8250 + 2.30485 (.TIME - 54) (16.44) (12.83)

Estimation technique = 0.L.S.

Sample period = 1955-79

R²(ADJ) = 0.8722

D.W. = 1.5529

S.E.E. = 6.4736

YY289	CORYEXP	Corn, expected yield per harvested acre	bu./ac.
YY230	CORSYGR	Corn, yield per harvested acre	bu./ac.
Z30	.TIME	Year, 1955-55	<i>(</i>

^{*} Regression parameters obtained by regressing CORSYGR on (.TIME - 54).

Corn, total government program acreage

CORSDINP = 34.8847 - 13.3523 SOYFEXNR/.PC(-1) (4.57) (-1.89)

- + 16.5632 [.5(CORFNRNL + CORFNFXL)]/.PC(-1) (1.69)
- 10.3249 [.5(WHEFEMNR + .5(WHEFNRNL + WHEFNRXL))]/.PC(-1) (-1.65)
- + 5.01181 DUM6770 + 27.9041 DUM7173 (5.58) (25.35)
- 16.8024) DUM79 (-8.99)
- + .000355764 [(COAALUS) (1 min(CORSAPMP, CORSAPXP))] (6.77)

Estimation technique = 0.L.S.

Sample period = 1961-73, 1978-79

 $R^{2}(ADJ)$ = 0.9903 D.W. = 3.2191 S.E.E. = 1.2505

Variable numbers, names and descriptions

YY296	CORSDINP	Corn, total government program acreage	mil. ac.
YY311	SOYFEXNR	Soybeans, expected net returns	\$/ac.
YY270	CORFNRNL	Corn, expected program net return at the minimum level of participation	\$/ac.
YY261	CORFNRXL	Corn, expected program net return at the maximum level of participation	\$/ac.
YY272	WHEFEMNR	Wheat, expected market net return	\$/ac.
YY263	WHEFNRNL	Wheat, expected program net return at the minimum level of participation	\$/ac.
YY264	WHEFNRXL	Wheat, expected program net return at the maximum level of participation	\$/ac.
YY201	.PC	Consumer price index, all items	1967=1.0
	DUM6770	Dummy variable, 1967-70	
	DUM7173	Dummy variable, 1971-73	•
	DUM79	Dummy variable, 1979	
Z66	COAALUS	Corn, alloted acreage	
Z123	CORSAPMP	Corn, fraction of each acre planted at th minimum level of program participation	e
Z124	CORSAPXP	Corn, fraction of each acre planted at th	e

maximum level of program participation

Corn, total acreage planted by government program participants

CORSAINP = (CORSDINP)(CORSAPMP)

egi e sasse e e e Ellas di e

-.421504 (CORFNRXL/CORFNRNL) (CORSDINP) (-4.97)

(CORSAPMP - Min(CORSAPMP,CORSAPXP))

- 1.15223 DCORN .993390 DUM6770 (-1.25) (-1.09)
- 5.86686 DUM6170 (-7.12)

Estimation technique = 0.L.S.

Sample period = 1961-73, 1978-79

 $R^{2}(ADJ)$ = 0.9866 D.W. = 2.5471 S.E.E. = 1.2763

YY297	CORSAINP	Corn, total acreage planted by government program participants	mil. ac.
YY296	CORSDINP	Corn, total government program acreage	mil. ac.
Z123	CORSAPMP	Corn, fraction of each acre planted at the minimum level of program participation	\$/ac.
YY270	CORFNRNL	Corn, expected program net return at the minimum level of participation	\$/ac.
YY261	CORFNRXL	Corn, expected program net return at the maximum level of participation	\$/ac.
Z124	CORSAPXP	Corn, fraction of each acre planted at the maximum level of program participation	
	DCORN	Dummy variable, 1967,1971	
	DUM6770	Dummy variable, 1967-70	
	DUM6170	Dummy variable, 1961-70	

Corn, total acreage planted by government program nonparticipants

CORSAOSP = 87.4462 - .600503 (CORSDINP - CORSAINP) (53.16) (-12.09)

- 1.03948 CORSAINP + 2.87836 DUM72 + .840516 (TIME-58)**.5 (-39.16) (2.18) (1.44)
- + 16.5491 CORFEMNR/.PC(-1) (2.77)
- 13.4840 SOYFEXNR/.PC(-1) (-4.55)
- 14.8203 [.5(SORFEMNR + Max(SORFNRNL, SORFNRXL))]/.PC(-1) (-1.49)
- 14.1000 [.5(WHEFEMNR + Max(WHEFNRNL, WHEFNRXL))]/.PC(-1) (-3.05)

Estimation technique = 0.L.S.

Sample period = 1959-79

R²(ADJ) = 0.9977

D.W. = 1.6009

S.E.E. = 1.0939

YY298	CORSAOSP	Corn, total acreage planted by government program nonparticipants	mil. ac.
YY296	CORSDINP	Corn, total government program acreage	mil. ac.
YY297	CORSAINP	Corn, total acreage planted by government program participants	mil. ac.
YY262	CORFEMNR	Corn, expected market net returns	\$/ac.
YY311	SOYFEXNR	Soybeans, expected net return	\$/ac.
YY309	SORFEMNR	Sorghum, expected market net return	\$/ac.
YY307	SORFNRNL	Sorghum, expected program net return at the minimum level of participation	\$/ac.
YY308 .	SORFNRXL	Sorghum, expected program net return at the maximum level of participation	\$/ac.
YY272	WHEFEMNR	Wheat, expected market net return	\$/ac.
YY201	.PC	Consumer price index, all items	1967=1.0

Corn, total acreage planted by government program nonparticipants (cont.)

	DUM72	Dummy variable, 1972	
YY263	WHEFNRNL	Wheat, expected program net return at the minimum level of participation	\$/bu.
YY264	WHEFNRXL	Wheat, expected program net return at the maximum level of participation	\$/bu.
Z30.	.TIME	Year, 1959=59	

Sorghum, exports to all importing regions except PRC & USSR

SORMC = 64.3294 + 56.5487 LIVJP*EC + 62.6119 DUM65 (1.22) (1.10) (3.24)

- .00608365 CORSP+HE6 + .0103404 CORME*USSR (-1.96) (1.28)
- 147.621 SORPF*/.SDR*OCT + 62.0757 DUM72F (-1.82) (2.90)
- + 175.849 CORPF/.SDR*OCT (2.26)

Estimation technique = 0.L.S.

Sample period = 1961-79

R²(ADJ) = 0.8958

D.W. = 1.7710

S.E.E. = 16.515

YY83	SORMC	Sorghum, exports, all importing regions, except PRC and USSR, OctSept.	mil. bu.
YY127	CORPF	Corn, average farm price, OctSept.	\$/bu.
Z45	CORSP+HE6	Corn production plus beginning stocks in EEC-6 countries	1000 m.t.
Z79	LIVJP*EC	Livestock, EEC production index	1964=1.0
Z102	.SDR*OCT	U.S. \$/SDR; average of quarterly means,	\$/SDR
YY129	SORPF*	Sorghum, average farm price. OctSept.	\$/bu.
2100	CORME*USSR	Soviet Union net exports from non-U.S. sources	1000 net. tons
	DUM65	Dummy variable, 1965	
	DUM72F	Dummy variable, equals one after 1971.	•

Sorghum, program participation rate SORPICP = SORSAINP/SORSA

YY109	SORPICP	Sorghum, program participation rate		
YY294	SORSAINP	Sorghum, total acreage planted by government program participants	mil.	ac.
YY144	SORSA	Sorghum, total planted acreage	mil.	ac.

Sorghum, CCC stocks

SORHHUN(+1) = SORHT - SORHPRRE - SORHCC1*

YY111	SORHHUN	Sorghum, CCC stocks, beginning of crop year	mil.	bu.
YY115	SORHT	Sorghum, total ending stocks	mil.	bu.
YY242	SORHPRRE	Sorghum, farmer owned reserve stocks, end of crop year	mil.	bu.
YY240	SORHCC1*	Sorghum, commercial stocks, end of crop year	mil.	bu.

Sorghum, total ending stocks
SORHT = SORST - SORDT

YY115	SORHT	Sorghum,	total	ending	stocks	mil.	bu.
YY165	SORST	Sorghum,	total	supply		mil.	bu.
YY161	SORDT	Sorghum,	total	use		mil.	bu.

Sorghum, total exports

SORMX = SORMC + SORMG + SORMI

YY122	SORMX	Sorghum, total exports	mil.	bu.
YY83	SORMC	Sorghum, exports to all regions except PRC and USSR	mil.	bu.
Z40	SORMG	Sorghum, net exports minus SORMC	mil.	bu.
Z159	SORMI	Sorghum, imports	mil.	bu.

Sorghum, utilized for feed

SORDF = -930.027 - 164.224 DUM7678 (-6.01) (-6.73)

- + 748.230 CORPF/LIVIF(+1) (4.70)
- 828.341 SORPF*/LIVIF(+1) (-4.75)
- + 12.2446 GCAU*(+1) (10.97)

Estimation technique = 0.L.S.

Sample period = 1961-79

R²(ADJ) = 0.8947

D.W. = 2.6966

S.E.E. = 34.679

YY124	SORDF	Sorghum, feed use, OctSept.	mil. bu.
YY127	CORPF	Corn, average farm price, OctSept.	\$/bu.
YY92	LIVIF	Livestock, price index	1967=1.0
YY129	SORPF*	Sorghum, average farm price, OctSept.	\$/bu.
YY95	GCAU#	Livestock, grain consuming animal units	mil. hd.
	DUM7678	Dummy variable 1976-78	

Sorghum, total planted acreage SORSA = SORSAINP + SORSAOSP

YY144	SORSA	Sorghum, total planted acreage	mil.	ac.
YY294	SORSAINP	Sorghum, total acreage planted by government program participants	mil.	ac.
YY292	SORSAOSP	Sorghum, total acreage planted by government program nonparticipants	mil.	ac.

Sorghum, production

SORSPGR = -89.6409 + .924377 (SORSYGR)(SORSH) (-2.63) (24.10)

Estimation technique = 0.L.S.

Sample period = 1950-79

R²(ADJ) = 0.9683

D.W. = 0.7766

S.E.E. = 21.274

YY148	SORSPGR	Sorghum, production, OctSept.	mil. bu.
YY241	SORSYGR	Sorghum, yield per harvested acre, OctSept.	bu.
YY255	SORSH	Sorghum, total acreage harvested, OctSept.	mil. ac.

Sorghum, total demand

SORDT = SORDF + SORDS + SORMX + SORDU

YY161	SORDT	Sorghum,	total use	mil.	bu.
YY124	SORDF	Sorghum,	feed use	mil.	bu.
YY239	SORDS	Sorghum,	seed use	mil.	bu.
YY122	SORMX	Sorghum,	total exports	mil.	bu.
Z49	SORDU	Sorghum,	utilized for food stry	mil.	bu.

Sorghum, total supply

SORST = SORSPGR + SORHHUN + SORHCC1*(-1) + SORHPRRE(-1)

+ SORMI

YY165	SORST	Sorghum, total supply	mil.	bu.
YY148	SORSPGR	Sorghum, grain production	mil.	bu.
YY111	SORHHUN	Sorghum, CCC stocks, beginning of crop year	mil.	bu.
YY240	SORHCC1*	Sorghum, commercial stocks, end of crop year	mil.	bu.
YY242	SORHPRRE	Sorghum, farmer owned reserve stocks, end of crop year	mil.	bu.
Z159	SORMI	Sorghum, imports	mil.	bu.

Sorghum, domestic demand ;

SORDD = SORDF + SORDS + SORDU

Variable numbers, names and descriptions mil. bu. Sorghum, domestic use YY194 SORDD mil. bu. SORDF Sorghum, feed use **YY124** mil. bu. Sorghum, seed use **YY239** SORDS mil. bu. Sorghum, utilized for food SORDU Z49

and industry

Sorghum, seed use

SORDS = - .0950405 + .128923 SORSA(+1) (-0.55) (14.50)

+ 0.458085 SORPF* (1.14)

Estimation technique = 0.L.S.

Sample period = 1950-79

R²(ADJ) = 0.9050

D.W. = 0.7430

S.E.E. = 0.1050

YY239	SORDS	Sorghum, seed use, OctSept.	mil. bu.
YY144	SORSA	Sorghum, total acreage planted	mil. ac.
YY129 .	SORPF#	Sorghum, average farm price, OctSept.	\$/bu.

Sorghum, commercial stocks, end of crop year

SORHCC1* = 60.4770 - 4340.30 SORPF*/.PC(+1) (1.51) (-1.84)

- + .0693073 SORDT + 85.8559 DUM65 (1.72) (3.67)
- + 61.1236 DUM77 (2.65)

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.5978

D.W. = 2.3128

S.E.E. = 22.133

YY240	SORHCC1*	Sorghum, commercial stocks, end of crop year	mil. bu.
YY129	SORPF#	Sorghum, average farm price, OctSept.	\$/bu.
YY161	SORDT	Sorghum, total demand	mil. bu.
	DUM65	Dummy variable, 1965	
	DUM77	Dummy variable, 1977	
YY201	.PC	Consumer price index, all items	1967=100

Sorghum, yield per acre

SORSYGR = - 56.7858 + 1.73464 SORWRJUNAUG (-14.14) (6.71)

- + 1.22965 .TIME + 4.50025 DUM66 (19.79) (1.72)
- + 7.26135 DUM73 8.22017 DUM51 (2.84) (-2.81)
- + 1.33179 [SORSDINP SORAINP] (8.10)

Estimation technique = 0.L.S.

Sample period = 1951-79

R²(ADJ) = 0.9713

D.W. = 2.1156

S.E.E. = 133.08

YY241	SORSYGR	Sorghum, yield per acre	bu.
Z186	SORWRJUNAUG	Sorghum, precipitation, JunAug., (TX, KS, NE, MO,OK)	inches
z3 0	.TIME	Year, 1951=51	
	DUM66	Dummy variable, 1966	
	DUM73	Dummy variable, 1973	i e e e e e e e e e e e e e e e e e e e
	DUM51	Dummy variable, 1951	
YY293	SORSDINP	Sorghum, total government program acreage	mil. ac.
YY294	SORSAINP	Sorghum, total acreage planted by government program participants	mil. ac.

Sorghum, farmer owned reserve stocks
SORHPRRE = SORHT - SORHHUN(+1) - SORHCC1*

YY242	SORHPRRE	Sorghum, farmer owned reserve stocks, end of crop year	mil.	bu.
YY115	SORHT	Sorghum, total ending stocks	mil.	bu.
YY111	SORHHUN	Sorghum, CCC stocks, beginning of crop year	mil.	bu.
YY240	SORHCC1*	Sorghum, commercial stocks, end of crop year	mil.	bu.

Sorghum, harvested acreage

SORSH = .948592 + .912386 SORSA (1.51) (25.40)

Estimation teachnique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.9714

D.W. = 2.5095

S.E.E. = 0.2366

Variable numbers, names and descriptions

YY255 SORSH Sorghum, harvested acreage mil. ac.

YY144 SORSA Sorghum, planted acreage mil. ac.

Sorghum, deficiency payments

YY255

SORSH

Variable numbers, names and descriptions mil. dol. Sorghum, deficiency payments **YY258** SORFP \$/bu. Sorghum, target price Z63 SGPT \$/cwt. YY275 SORPFWG Sorghum, farm price weighted by marketings, Oct.-Feb. \$/bu. Z111 SORPL* Sorghum, loan rate Sorghum, program participation rate percent YY109 SORPICP mil. ac. YY144 SORSA Sorghum, planted acreage bu./ac. Z57 SGYGVUS Sorghum, administrative yield thous. ac. Z67 SGAALUS Sorghum, allotted acreage

mil. ac.

Sorghum, harvested acreage

Sorghum, total farmer owned reserve storage payments

SORFS =	.5[(SGPSRUS)(SORHPRRE) + (SGPSRUS(-1))(SORHPRRE(-1))]	
YY267	SORFS	Sorghum, total farmer owned reserve storage payments	mil. dol.
YY242	SORHPRRE	Sorghum, farmer owned reserve stocks, end of crop year	mil. bu.
Z72	SGPSRUS	Sorghum, farmer owned reserve storage payment rate	\$/bu•

Sorghum, farm price weighted by marketings, Oct.-Feb.

SORPFWG = - .0397488 + 1.72206 SORPF* + .592703 DUM74 (-0.32) (5.05)

Estimation technique = 0.L.S.

Sample period = 1970-79

R²(ADJ) = 0.9938

D.W. = 1.4577

S.E.E. = 0.0886

Variable numbers, names and descriptions

YY275 SORPFWG Sorghum, farm price weighted by marketings, \$/bu.
Oct.-Sept.

YY129 SORPF* Sorghum, average farm price, Oct.-Sept. \$/bu.

DUM74 Dummy variable, 1974

Sorghum, expected farm price

SORPEXP* = .0274363 + .976225 SORPF*(-1) (1.00) (52.34)

Estimation technique = 0.L.S.

Sample period = 1955-79

R²(ADJ) = 0.9927

D.W. = 1.4283

S.E.E. = 0.0481

Variable numbers, names and descriptions

YY284 SORPEXP Sorghum, expected farm price \$/bu.

YY129 SORPF* Sorghum, average farm price, \$/bu.
Oct.-Sept.

^{*}Average farm price 5 months prior to planting adjusted by the average difference in that price and the average crop year farm price during the 3 previous years.

Sorghum, expected yield per harvested acre

Estimation technique = 0.L.S.

Sample period = 1955-79

R²(ADJ) = 0.8603

D.W. = 1.4653

S.E.E. = 4.2453

YY290	SORYEXP	Sorghum, expected yield per harvested acre	bu./ac.
YY241	SORSYGR	Sorghum, yield per harvested acre	bu./ac.
z 30	.TIME	Year, 1955=55	

^{*} Regression parameters obtained by regression SORSYGR on (.TIME - 54) and (.TIME - 54)**.5.

Sorghum, total acreage planted by government nonparticipants

SORSAOSP = 15.4314 - .651856 SORSAINP (11.33) (-12.59)

- .354187 (SORSDINP SORSAINP) (-3.78)
- + 18.2686 SORFEMNR/.PC(-1) (7.69)
- 9.65890 SOYFEXNR/.PC(-1) (-4.92)
- + 4.38708 DUM5960 + 3.92383 DUM77 (4.47) (4.30)

Estimation technique = 0.L.S.

Sample period = 1959-79

R²(ADJ) = 0.9844

D.W. = 1.6789

S.E.E. = 0.6502

YY292	SORSAOSP	Sorghum, total acreage planted by government program nonparticipants	mil. ac.
YY294	SORSAINP	Sorghum, total acreage planted by government program participants	mil. ac.
YY293	SORSDINP	Sorghum, total government program acreage	mil. ac.
YY309	SORFEMNR	Sorghum, expected market net returns	\$/ac.
YY311	SOYFEXNR	Soybeans, expected net returns	\$/ac.
YY201	.PC	Consumer price index, all items	1967=1.0
	DUM5960	Dummy variable, 1959-60	
	DUM77	Dummy variable, 1977	

Sorghum, total government program acreage

SORSDINP = 8.61281 - 8.75317 SOYFEXNR/.PC(-1) (1.93) (-2.77)

- 12.9320 SORFEMNR/.PC(-1) (-1.25)
- + 22.7022 [.5(SORFNRNL + SORFNRXL)]/.PC(-1) (1.49)
- + .000986077 (SGAALUS)(1 Min(SORSAPMP,SORSAPXP))
 (1.14)
- + .000270838 SGAALUS 1.68398 DUM6164 (2.47) (-3.65)
- + 3.78787 DUM7173 (7.29)

Estimation technique = 0.L.S.

Sample period = 1961-73,1978-79

R²(ADJ) = 0.9350 D.W. = 2.2091 S.E.E. = 0.6342

YY293	SORSDINP	Sorghum, total government program acreage	mil. ac.
YY311	SOYFEXNR	Soybeans, expected net return	\$/ac.
YY309	SORFEMNR	Sorghum, expected market net returns	\$/ac.
YY307	SORFNRNL	Sorghum, expected program net returns of the minimum level of participation	\$/ac.
YY308	SORFNRXL	Sorghum, expected program net returns at the maximum level of participation	\$/ac.
YY201	.PC	Consumer price index, all items	1967=1.0
Z67	SGAALUS	Sorghum, allotted acreage	thous. ac.
Z 177	SORSAPMP	Sorghum, fraction of each acre planted at the minimum level of program participation	
Z 182	SORSAPXP	Sorghum, fraction of each acre planted at the maximum level of program participation	
	DUM6164	Dummy variable, 1961-64	
	DUM7173	Dummy variable, 1971-73	

Sorghum, total acreage planted by government program participants

SORSAINP = (SORSDINP)(SORSAPMP) - .691261 [(SORFNRXL/SORFNRNL) (-10.35)

(SORSDINP)(SORSAPMP - Min(SORSAPMP, SORSAPXP))]

- 1.01259 DUM6170 (-3.83)

Estimation technique = 0.L.S.

Sample period = 1961-73,1978-79

R²(ADJ) = 0.9815 D.W. = 2.1139 S.E.E. = 0.4218

YY294	SORSAINP	Sorghum, total acreage planted by government program participants	mil. ac.
YY293	SORSDINP	Sorghum, total government program acreage	mil. ac.
YY307	SORFNRNL	Sorghum, expected program net returns at the minimum level of participation	\$/ac.
YY308	SORFNRXL	Sorghum, expected program net returns at the maximum level of participation	\$/ac.
Z 177	SORSAPMP	Sorghum, fraction of each acre planted at the minimum level of program participation	•
Z 182	SORSAPXP	Sorghum, fraction of each acre planted at the maximum level of program participation	
	DUM6170	Dummy variable, 1961-70	

Sorghum, expected program net returns at the minimum level of participation

SORFNRNL = [(1 - DUM6162) Max(SORPEXP, SORLRPP)(SORYEXP)

- + (DUM6162)[(DUMSP)SORPEXP)(SORYEXP)
- + (1 DUMSP)[(SORLRPP) Min(SORYEXP,SGYGVUS)
- + (SORPEXP) Max(SORYEXP SGYGVUS,0)]]
- SORVC**](SORSAPMP)
- + [(SORSPEMP)[(DUM5973)(SORPGMLP)
- + (1 DUM5973) Max(SORPGMLP Max(SORPEXP, SORLRPP), 0)]]
- + SORPDMLP

Variable numbers, names and descriptions

c.

c.

YY307	SORFNRNL	Sorghum, expected program net returns at the minimum level of participation	\$/ac.
YY284	SORPEXP	Sorghum, expected farm price	\$/bu.
Z250	SORLRPP	Sorghum, loan rate prior to planting	\$/bu.
YY290	SORYEXP	Sorghum, expected yield per harvested acre	bu./ac.
Z57	SGYGVUS	Sorghum, administrative yield	bu./ac.
Z176	SORVC**	Sorghum, variable cost	\$/ac.
Z177	SORSAPMP	Sorghum, fraction of each acre planted at the minimum level of program participation	
Z189	SORSPEMP	Sorghum, production eligible for support at the minimum level of program participation	bu./ac.
Z183	SORPGMLP	Sorghum, support payment rate basis of minimum level of program participation	\$/bu.
2196	SORPDMLP	Sorghum, diversion payments at the minimum level of program participation	\$/bu.
	DUM6162	Dummy variable for years when the loan rate applied to at most normal production on harvested acres, 1961-62=1	
	DUMSP	Dummy variable, if SORPEXP > SORLRPP, DUMSP=1	
	DUM5973	Dummy variable for years when the support rate was not computed as a function of farm price, 1959-73=1	

Sorghum, expected program net returns at the maximum level of participation

SORFNRXL = [(1 - DUM6162) Max(SORPEXP, SORLRPP)(SORYEXP)

- + (DUM6162)[(DUMSP))(SORPEXP)(SORYEXP)
- + (1 DUMSP)[(SORLRPP) Min(SORYEXP,SGYGVUS)
- + (SORPEXP) Max(SORYEXP SGYGVUS,0)]]
- SORVC**](SORSAPXP)
- + [(SORSPEXP)[(DUM5973)(SORPGXLP)
- + (1 DUM5973) Max(SORPGXLP Max(SORPEXP, SORLRPP),0)]]
- + SORPDXLP

YY308	SORFNRXL	Sorghum, expected program net return at the maximum level of participation	\$/ac.
YY284	SORPEXP	Sorghum, expected farm price	\$/bu.
Z250	SORLRPP	Sorghum, loan rate prior to planting	\$/bu.
YY290	SORYEXP	Sorghum, expected yield per harvested acre	bu./ac.
Z57	SGYGVUS	Sorghum, administrative yield	bu./ac.
Z176	SORVC**	Sorghum, variable cost	\$/ac.
Z182	SORSAPXP	Sorghum, fraction of each acre planted at the maximum level of program participation	
Z192	SORSPEXP	Sorghum, production eligible for support at the maximum level of program participation	bu./ac.
Z188	SORPGXLP	Sorghum, support payment rate basis at the maximum level of program participation	\$/bu.
Z200	SORPDXLP	Sorghum, diversion payments at the maximum level of program participation	\$/ac.
	DUM6162	Dummy variable for years when the loan rate applied to at most normal production on harvested acre, 1961-62=1	
	DUMSP	Dummy variable, it SORSPEXP > SORLRPP, DUMSP=1	
	DUM5973	Dummy variable for years when the support rate was not computed as a function of farm price, 1959	9-73=1

Sorghum, expected market net returns SORFEMNR = Max[(SORPEXP)(SORYEXP) -SORVC**,

(DUMSOR)(SORFNRNL)] .

YY309	SORFEMNR	Sorghum, expected market net returns	\$/ac.
YY284	SORPEXP	Sorghum, expected farm price	\$/bu.
YY290	SORYEXP	Sorghum, expected yield per harvested acre	bu./ac.
YY307	SORFNRNL	Sorghum, expected program net return at the minimum level of participation	\$/ac.
Z176	SORVC**	Sorghum, variable cost	\$/ac.
	DUMSOR	Dummy variable for year when there is no program, 1959-60, 1974-1977	\$/ac.

Barley, CCC stocks

BARHH1*JM = BARHT*JM - BARHPRRE - BARHCC1*JM

YY113	BARHH1*JM	Barley, CCC stocks, end of crop year	mil.	bu•.
YY117	BARHT*JM	Barley, total ending stocks	mil.	bu.
YY234	BARHPRRE	Barley, farmer-owned reserve stocks, end of crop year	mil.	bu.
YY232	BARHCC1*JM	Barley, commercial stocks, end of crop year	mil.	bu.

Barley, total ending stocks BARHT*JM = BARST*JM - BARDT*JM

YY117	BARHT*JM	Barley,	total	ending	stocks	mil.	bu.
YY249	BARST*JM	Barley,	total	supply		mil.	bu.
VV248	RARDT*™	Rarlow	total	demand		mil	b

Barley, domestic use for food & alc. bev.

BARDH*JM = .106584 .NPC (1.46)

- + 13.0242 .YPD\$/.PC (6.48)
- 23.3271 (.NPC)(BARPF)/.PC (-2.17)
- + 14.9892 (.NPC)(CORPF)/.PC (2.65)
- + 26.5748 (.NPC)(OATPF)/.PC (1.93)

Estimation technique = 0.L.S.

Sample period = 1950-78

R²(ADJ) = 0.9250

D.W. = 0.7920

S.E.E. = 6.0200

YY120	BARDH*JM	Barley, domestic use for food & alc. bev., June-May	mil. bu.
Z1	. NPC	Population, total	mil.
Z34	.YPD\$	Personal disposable income, current dollars	bil. dol.
YY201	.PC	Consumer price index, all items	1967=1.0
YY130	BARPF	Barley, average farm price, June-May	\$/bu.
YY127	CORPF	Corn, average farm price, OctSept.	\$/bu.
YY128	OATPF	Oats, average farm price, June-May	\$/bu.

Barley, domestic feed use

BARDF*JM = 347.710 + 1.35012 SAHKSFD(-1) + 57.2118 DUM71 - 2.21785..TIME(-1) (5.04) (0.69) (2.87) (-1.45)

- 214.598 BARPF/LIVIF (-3.81)

+ 183.720 CORPF/LIVIF (3.23)

Estimation technique = 0.L.S.
Sample period = 1960-80
R²(ADJ) = 0.7863
D.W. = 2.0023
S.E.E. = 17.059

YY126	BARDF*JM	Barley, domestic feed use, June-May	mil. bu.
YY28	SAHKSFD	Beef, steer and heifer, fed, slaughter	mil. hd.
YY130	BARPF	Barley, average farm price, June-May	\$/bu.
YY92	LIVIF	Livestock price index	1967=1.0
YY127	CORPF	Corn, average farm price, OctSept.	\$/bu.
	DUM71	Dummy variable, 1971	
Z30	.TIME	Year, 1960=60	

Barley, total acreage planted BARSA = BARSAOSP + BARSAINP

YY146	BARSA	Barley, total acreage planted	mil.	ac.
YY301	BARSAINP	Barley, total acreage planted in the program,	mil.	ac.
YY302	BARSAOSP	Barley, total acreage planted outside the program.	mil.	ac.

Barley, production

BARSP = BARSH* BARSY

Variable	numbers,	names	and	descriptions
----------	----------	-------	-----	--------------

YY150	BARSP	Barley, production	mil.	bu.
YY254	BARSH	Barley, harvested acreage	mil.	ac.
YY233	BARSY	Barley, yield per harvested acre	bu.	

Barley, program participation rate

BARPICP = BARSAINP/BARSA

YY191	BARPICP	Barley,	program participation rate		
YY146	BARSA	Barley,	total acreage planted	mil.	ac.
YY301	BARSAINP	Barlev.	total program acreage planted	mil.	ac.

Barley, domestic seed use

BARDS*JM = -.275488 + 1.57235 BARSA(+1) (-0.56) (52.47)

+ .604765 BARPF (3.97)

Estimation technique = 0.L.S.
Sample period = 1950-79
R²(ADJ) = 0.9930
D.W. = 1.2620
S.E.E. = 0.3610

YY231	BARDS*JM	Barley, domestic seed use, June-May	mil. bu.
YY146	BARSA	Barley, total acreage planted	mil. ac.
YY130	BARPF	Barley, average farm price, June-May	\$/bu.

Barley, commercial stocks, end of crop year

BARHCC1*JM = 137.077 + .214386 BARDT*JM (1.97) (1.55)

+ 70.6860 DUM6869 - 6375.91 BARPF/.PC (4.00) (-3.29)

Estimationn technique = 0.L.S.

Sample period = 1965-80

R²(ADJ) = 0.7689

D.W. = 2.2036

S.E.E. = 20.222

YY232	BARHCC1*JM	Barley, commercial stocks, end of crop year	mil. bu.
YY248	BARDT*JM	Barley, total demand	mil. bu.
	DUM6869	Dummy variable, 1968-69	
YY201	.PC	Consumer price index, all items	1967=100.
YY130	BARPF	Barley, average farm price, June-May	\$/bu.

Barley, yield per harvested acre

BARSY = 29.8541 + 1.70842 BARPF(-1)/FERIW + 344312 (BARSAIPT - BARSAINP) (2.42) (0.71) (1.71)

- 0.748330 JNJLTEM + 0.842869 .TIME - 4.10566 DUM73 (-4.18) (21.84) (-2.47)

- 5.65520 DUM74 + 4.00810 DUM65 (-3.22) (2.36)

Estimation technique = 0.L.S.

Sample period = 1950-79

R²(ADJ) = 0.9538

D.W. = 1.4216

S.E.E. = 1.5766

YY233	BARSY	Barley, yield per acre harvested	bu./ac.
Z184	FERIW	Fertilizer price index	1967=1.0
Z31	JNJLTEM	Weather variable, STD, WGHTD., precip. July, (IN., IA., IL., and OH.)	index
z30	.TIME	Year, 1950=50	
	DUM74	Dummy variable, 1974	
YY130	BARPF	Barley, average farm price, June-May	\$/bu.
YY300	BARSAIPT	Barley, total program acreage	mil. ac.
YY301	BARSAINP	Barley, total program acreage planted	mil. ac.
	DUM73	Dummy variable, 1973	
	DUM65	Dummy variable, 1965	

Barley, producer held reserve stocks BARHPRRE = BARHT*JM - BARHCCC1*JM - BARHH1*JM

YY234	BARHPRRE	Barley, farmer-owned reserve stocks, end of crop year	mil.	bu.
YY117	BARHT*JM	Barley, total ending stocks	mil.	bu.
YY232	BARHCC1*JM	Barley, commercial stocks, end of crop year	mil.	bu.
YY113	BARHH1*JM	Barley, CCC stocks, end of crop year	mil.	bu.

Barley, total demand BARDT*JM = BARDF*JM + BARDH*JM + BARDS*JM + BARMX*JM

YY248	BARDT*JM	Barley,	total demand	mil.	bu.
YY126	BARDF*JM	Barley,	domestic feed use	mil.	bu.
YY120	BARDH*JM	Barley,	domestic food use	mil.	bu.
YY231	BARDS*JM	Barley,	domestic seed use	mil.	bu.
742	BARMX*IM	Rarley	total exports	mil.	bu.

Barley, total supply BARST*JM = BARSP + BARHCC1*JM(-1) + BARHH1*JM(-1) + BARHPRRE(-1) + BARMI*JM

YY249	BARST*JM	Barley, total supply	mil.	bu.
YY150	BARSP	Barley, production	mil.	bu.
YY232	BARHCC1*JM	Barley, commercial stocks, end of crop year	mil.	bu.
YY234	BARHPRRE	Barley, farmer-owned reserve stocks	mil.	bu.
Z46	BARMI*JM	Barley, imports	mil.	bu.
YY113	BARHH1*JM	Barley, CCC stocks, end of crop year	mil.	bu.

Barley, domestic demand BARDD*JM = BARDF*JM + BARDH*JM + BARDS*JM

YY250	BARDD*JM	Barley,	domestic	demand	mil.	bu.
YY126	BARDF*JM	Barley,	domestic	feed use	mil.	bu.
YY120	BARDH*JM	Barley,	domestic	food use	mil.	bu.
YY231	BARDS*JM	Barley,	domestic	seed use	mil.	bu.

Barley, harvested acreage

BARSH = .443535 + .865974 BARSA - .901840 DUM6163 (-6.46)

(2.33)(54.59)

Estimation technique = 0.L.S. Sample period = 1950-79 R²(ADJ) = 0.9908 D.W. = 1.2731 S.E.E. = 0.2176

YY254	BARSH	Barley, harvested acreage	mil.	ac.
YY146	BARSA	Barley, planted acreage	mil.	ac.
	DUM6163	Dummy variable, 1961-63		

Barley, deficiency payments

BARFP = (.001) Max(BAPT - Max(BARPFWG, BARPL), 0)

(.01) (BARPICP) (BARSA) (BAYGVUS) (BAAALUS/BARSH)

YY259	BARFP	Barley, deficiency payments	mil. dol.
Z64	BAPT	Barley, target price	\$/bu.
YY274	BARPFWG	Barley, farm price weighted by marketings, JeOct.	\$/bu.
Z113	BARPL	Barley, loan rate	\$/bu.
YY191	BARPICP	Barley, program participation rate	percent
YY146	BARSA	Barley, planted acreage	mil. ac.
z 56	BAYGVUS	Barley, administrative yield	bu./ac
Z68	BAAALUS	Barley, allotted acreage	thous. ac.
YY254	BARSH	Barley, harvested-acreage	mil. ac.

Barley, total farmer-owned reserve storage payments

BARFS = .5[(BAPSRUS) (BARHPRRE) + (BAPSRUS(-1)) (BARHPRRE(-1))]

YY268	BARFS	Barley, farmer-owned reserve storage payments	mil.	dol.
YY234	BARHPRRE	Barley, farmer-owned reserve stocks, end of crop year	mil.	bu.
z73	BARSRUS	Barley, farmer-owned reserve storage payment	\$/bu	• .

Barley, farm price weighted by marketings, June-Oct.

BARPFWG = .135443 + 1.00260 BARPF (1.01) (21.50)

- .189210 BARHCC1*JM(-1)/BARHCC1*JM (-2.01)

+ .198236 DUM76 - .137906 DUM77 (2.01) (-1.44)

Estimatin technique = 0.L.S.

Sample period = 1970-79

R²(ADJ) = 0.9827

D.W. = 1.3056

S.E.E. = 0.0864

YY274	BARPFWG	Barley, farm price weighted by marketings, June-Oct.	\$/bu.
YY130	BARPF	Barley, average farm price received, June-May	\$/bu.
YY232 .	BARHCC1*JM	Barley, commercial stocks, end of crop year	mil. bu.
	DUM76	Dummy variable, 1976	
	DUM77	Dummy variable, 1977	

Barley, expected farm price

BARPEXP = .0286550 + .968911 BARPF(-1)(1.64) (75.00)

+ .233705 DUM75 (6.40)

Estimation technique = 0.L.S.

Sample period = 1959-79

R²(ADJ) = 0.9978

D.W. = 1.8275

S.E.E. = 0.2964

Variable numbers, names and descriptions

YY283 BARPEXP Barley, expected farm price* \$/bu.

YY130 BARPF Barley, average farm price, June-May \$/bu.

DUM75 Dummy variable, 1975

^{*}Weighted farm price 5 months prior to planting adjusted by the average difference between this price and the average crop year price for the previous three years.

Barley, expected yield per harvested acre, Jul.-Je.

BARSYEXP¹/= 20.3553 + 5.37658 (.TIME-54)**.5 (11.20) (10.67)

Estimation technique = 0.L.S.

Sample period = 1955-79

R²(ADJ) = 0.8247

D.W. = 1.1249

S.E.E. = 2.8352

YY287	BARYEXP	Barley, expected yield per harvested acre	bu./ac.
YY233	BARSY	Barley, yield per harvested acre	bu./ac.
Z30	.TIME	Year, 1955=55	

 $[\]overline{\mbox{1/ Regression parameters obtained by regressing BARSY against the square root of (.TIME-54).$

Barley, expected program net returns at the minimum level of participation

BARFNRNL = [(1 - DUM6162) Max(BARPEXP, BARLRPP) (BARYEXP)

- + (DUM6162) [(DUMBP) (BARPEXP) (BARYEXP)
- + (1 DUMBP) [(BARLRPP) Min(BARYEXP, BAYGVUS)
- + (BARPEXP) Max(BARYEXP BAYGVUS,0)]]
- BARVC**] (BARSAPMP)
- + [(BARSPEMP) [(DUM5973) (BARPGMLP)
- + (1 DUM5973) Max(BARPGMLP Max(BARPEXP, BARLRPP),0)]]
- + BARPDMLP

YY295	BARFNRNL	Barley, expected program net returns at the minimum level of participation	\$/ac.
YY283	BARPEXP	Barley, expected farm price	\$/bu•
Z175	BARLRPP	Barley, loan rate prior to planting	\$/bu•
YY287	BARYEXP	Barley, expected yield per harvested acre	bu./ac.
Z 56	BAYGVUS	Barley, administrative yield	bu/ac•
Z143	BARVC**	Barley, variable cost	\$/ac.
Z149	BARSAPMP	Barley, fraction of each acre planted at the minimum level of program participation	
Z155	BARSPEMP	Barley, production eligible for support at the minimum level of program participation	bu./ac.
Z152	BARPGMLP	Barley, support payment rate basis at the minimum level of program participation	\$/bu•
Z173	BARPDMLP	Barley, diversion payments at the minimum level of program participation	\$/ac.
	DUM6162	Dummy variable for years when the loan rate applied to at most normal production on harvested acres, 1961-62	
	DUMBP	<pre>Dummy variable, if BARPEXP > BARLRPP, DUMBP=1</pre>	
	DUM5973	Dummy variable for years when the support rate was not computed as a function of farm price, 1959-73	

Barley, expected program net returns at the minimum level of participation

BARFNRNL = [(1 - DUM6162) Max(BARPEXP, BARLRPP) (BARYEXP)

- + (DUM6162) [(DUMBP) (BARPEXP) (BARYEXP)
- + (1 DUMBP) [(BARLRPP) Min(BARYEXP, BAYGVUS)
- + (BARPEXP) Max(BARYEXP BAYGVUS,0)]]
- BARVC**] (BARSAPMP)
- + [(BARSPEMP) [(DUM5973) (BARPGMLP)
- + (1 DUM5973) Max(BARPGMLP Max(BARPEXP, BARLRPP), 0)]]
- + BARPDMLP

ac.

ıc.

ac.

YY295	BARFNRNL	Barley, expected program net returns at the minimum level of participation	\$/ac.
YY283	BARPEXP	Barley, expected farm price	\$/bu.
Z175	BARLRPP	Barley, loan rate prior to planting	\$/bu.
YY287	BARYEXP	Barley, expected yield per harvested acre	bu./ac.
Z 56	BAYGVUS	Barley, administrative yield	bu/ac.
Z143	BARVC**	Barley, variable cost	\$/ac.
Z149	BARSAPMP	Barley, fraction of each acre planted at the minimum level of program participation	
Z155	BARSPEMP	Barley, production eligible for support at the minimum level of program participation	bu./ac.
Z152	BARPGMLP	Barley, support payment rate basis at the minimum level of program participation	\$/bu.
Z173	BARPDMLP	Barley, diversion payments at the minimum level of program participation	\$/ac.
	DUM6162	Dummy variable for years when the loan rate applied to at most normal production on harvested acres, 1961-62	
	DUMBP	<pre>Dummy variable, if BARPEXP > BARLRPP, DUMBP=1</pre>	
	DUM5973	Dummy variable for years when the support rate was not computed as a function of farm price, 1959-73	

Barley, total program acreage

BARSAIPT = 4.32228 - 36.5190 BARFEMNR/.PC(-1) (1.24) (-2.33)

- 3.77914 [.5(WHEFEMNR + .5(WHEFNRNL + WHEFNRXL))]/.PC(-1) (-0.97)
- + 31.0948 [.5(BARFNRNL + BARFNRXL)]/.PC(-1) (2.00)
- + 6.98606 DUM7273 (10.28)
- + .000591175 (BAAALUS) (1.- MIN(BARSAPMP,BARSAPXP)) (4.37)

Estimation technique = 0.L.S.

Sample period = 1962-66 1969-73, 1978-79

 $R^{2}(ADJ)$ = 0.9262 D.W. = 2.4779 S.E.E. = 0.7040

YY300	BARSAIPT	Barley, total program acreage	mil. ac.
YY303	BARFEMNR	Barley, expected market net returns	\$/ac.
YY272	WHEFEMNR	Wheat, expected market net returns	\$/ac.
YY263	WHEFNRNL	Wheat, expected program net returns at the minimum level of participation	\$/ac.
YY264	WHEFNRXL	Wheat, expected program net returns at the maximum level of participation	\$/ac.
YY295	BARFNRNL	Barley, expected program net returns at the maximum level of participation	\$/ac.
YY201	.PC	Consumer price index, all items	1967=1.0
Z68	BAAALUS	Barley, allotted acreage	thous. ac.
	DIMMINOD	Dailey, allotted acreage	0.10 0.0 0
2149	BARSAPMP	Barley, fraction of each acre planted at the minimum program participation level	
Z149 Z150		Barley, fraction of each acre planted	•
	BARSAPMP	Barley, fraction of each acre planted at the minimum program participation level Barley, fraction of each acre planted at	•

Barley, total program acreage planted

BARSAINP = (BARSAIPT) (BARSAPMP)

- .729575 (BARFNRXL/BARFNRNL) (BARSAIPT) (-7.73)

(BARSAPMP - MIN(BARSAPMP, BARSAPXP))

- .669470 DUM6270 (-3.11)

Estimation technique = 0.L.S.

Sample period = 1962-66, 1969-73, 1978-79

= 0.9756 $R^2(ADJ)$ = 2.9414D.W. = 0.2986S.E.E.

YY301	BARSAINP	Barley, total program acreage planted	mil. ac.
YY300	BARSAIPT	Barley, total program acreage	mil. ac.
Z149	BARSAPMP	Barley, fraction of each acre planted at the minimum program participation level	
Z150	BARSAPXP	Barley, fraction of each acre planted at the maximum program participation level	
YY295	BARFNRNL	Barley, expected program net returns at the minimum level of participation	\$/ac.
YY299	BARFNRXL	Barley, expected program net returns at the maximum level of participation	\$/ac.
	DUM6270	Dummy variable, 1962-70	

Barley, total acreage planted outside the program

BARSAOSP = 20.9210 - .354127 (BARSAIPT - BARSAINP) (59.72) (-6.43)

- .852341 BARSAINP + 5.07896 BARFEMNR/.PC(-1) (-25.39) (3.22)
- 9.32885 WHEFEMNR/.PC(-1) (-7.57)
- 1.72159 DUMBAR + 2.37581 DUM6164 (-6.11) (8.69)
- 1.06801 DUM6768 1.45698 DUM6465 (-3.92) (-6.60)
- 2.11910 (.TIME 58)**.5 (-18.92)

Estimation technique = 0.L.S.

Sample period = 1959-79

R²(AdJ) = 0.9960

D.W. = 1.2870

S.E.E. = 0.2566

YY302	BARSAOSP	Barley, total acreage planted outside of the program	mil. ac.
YY300	BARSAIPT	Barley, total program acreage	mil. ac.
YY301	BARSAINP	Barley, total program acreage planted	mil. ac.
YY303	BARFEMNR	Barley, expected market net returns	\$/ac.
YY272	WHEFEMNR	Wheat, expected market net returns	\$/ac.
YY201	.PC	Consumer price index, all items	1967=1.0
	DUM6164	Dummy variable, 1961-64	
	DUM6768	Dummy variable, 1967-68	
	DUM6465	Dummy variable, 1964-65	
Z30	.TIME	Year, 1959=59	•
	DUMBAR	Dummy variable, for years when there was either a wheat or a feed grain program	

YY303	BARFEMNR	Barley, expected market net returns	\$/ac.
YY 283	BARPEXP	Barley, expected farm price	\$/bu.
YY287	BARYEXP	Barley, expected yield per acre	bu./ac.
YY295	BARFNRNL	Barley, expected program net return at the minimum level of participation	\$/bu.
Z143	BARVC**	Barley, variable production cost	\$/ac.
	DUMBAR	Dummy variable for years when there is no program 1959-61, 1967-68, 1971, 1974-77	

Grain consuming animal units

GCAU* = .2285 (HOGSNBR(-1) + HOGSM(-1) + PIGSC)

- + 1.0475 (COWSNMC + COWSEMC/.6)
- + 1.5323 (1.5(SAHKSFD))
- + .0547 (COWSNBE + HEISBBE)
- + .0217 CHISVLA + .002 CHISPYO/2.7
- + .0054 CHIAPOT/2.7
- + .0015 TURAP/14.4

YY95	GCAU*	Grain consuming animals units	animal u
YY6	HOGSNBR	Hogs, breeding, numbers on farms, Dec. 1	mil. hd.
YY12	HOGSM	Hogs, market, number on farms, Dec. 1	mil. hd.
YY7	PIGSC	Pigs, crop	mil.
YY16	COWSNMC	Cows, dairy, number on farms, Jan. 1	mil. hd.
YY75	COWSEMC	Cows, dairy, additions to herd	mil. hd.
YY28	SAHKSFD	Steer and heifer, fed slaughter plus farm slaughter	mil. hd.
YY15	COWSNBE	Cows, beef, number on farms, Jan. 1	mil.
YY24	HEISBBE	Beef, heifer, added to breeding herd	mil. hd.
YY61	CHISVLA	Chickens, layers, number on farms	mil. hd.
YY44	CHISPYO	Chickens, young, production	mil. 1bs.
YY43	CHIAPOT	Chickens, other, production	mil. 1bs.
YY55	TURAP	Turkey, production	mil. 1bs'

Oats, CCC stocks

OATHH1*JM = OATHT*JM - OATHCC1*JM - OATHPRRE

Variable numbers, names and descriptions

YY112	OATHH1*JM	Oats, CCC stocks, end of crop year	mil.	bu.
YY116	OATHT*JM	Oats, total ending stocks	mil.	bu.
YY236	OATHCC1*JM	Oats, commercial stocks, end of crop year	mil.	bu•
YY238	OATHPRRE	Oats, farmer owned reserve stocks, end of crop year	mil.	bu.

al u

hd.

hd.

hd.

hd.

hd.

hd o

hd.

lbs.

lbs.

Oats, total ending stocks

OATHT*JM = OATST*JM - OATDT*JM

YY116	OATHT*JM	Oats, total ending stocks	mil.	bu.
YY174	OATST*JM	Oats, total supply	mil.	bu.
YY169	OATDT*JM	Oats, total demand	mil.	bu.

Oats, domestic food use

OATDH*JM = .307843 .NPC (17.87)

- 2.77079 .YPD\$/.PC (-6.27)

- 3.09033 (.NPC)(OATPF)/.PC (-2.30)

Estimation technique = 0.L.S.

Sample period = 1950-78

R²(ADJ) = 0.7140

D.W. = 0.4950

S.E.E. = 2.1560

YY119	OATDH*JM	Oats, domestic food use, June-May	mil. bu.
Z1 .	.NPC	Population, total U.S.	mil.
Z34	.YPD\$	Personal disposable income, current dollars	bil. dol.
YY201	.PC	Consumer Price Index, all items	1967=1.0
YY128	OATPF	Oats, average farm price, June-May	\$/bu.

Oats, domestic feed use

OATDF*JM = - 122.327 - 3679.59 OATPF/MILPF (-0.84) (-5.78)

+ 1161.15 CORPF/MILPF (4.31)

+ 36.9291 (COWSNMC + COWSEMC/.6) (13.38)

+ 1.78818 PIGSC - 169.19 DUM7779 (1.43) (-6.64)

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.9500

D.W. = 0.8640

S.E.E. = 30.850

YY125	OATDF*JM	Oats, domestic feed use, June-May	mil. bu.
YY128	OATPF	Oats, average farm price, June-May	\$/bu.
YY74	MILPF	Milk, all sold to plants, average wholeseale price received by farmers	\$/cwt.
YY127	CORPF	Corn, average farm price, OctSept.	\$/bu.
YY16	COWSNMC	Cows, dairy, number on farms, Jan.1	mil. hd.
YY7	PIGSC	Hogs, pig crop	mil. hd.
YY75	COWSEMC	Cows, dairy, additions to herd	mil. hd.
	DUM7779	Dummy variable 1977-79	

Oats, domestic demand

OATDD*JM = OATDF*JM + OATDH*JM + OATDS*JM

YY135	OATDD*JM	Oats,	domestic	demand	mil.	bu.
YY125	OATDF*JM	Oats,	domestic	feed use	mil.	bu.
YY119	OATDH*JM	Oats,	domestic	food use	mil.	bu.
YY235	OATDS*IM	Oats.	domestic	seed use	mil.	bu.

Oats, total planted acreage

OATSA = 41.8755 + 6.70449 OATFEXNR/.PC(-1) (35.17) (0.89)

- 7.96613 [.5(WHEFEMNR + .5(WHEFNRNL + WHEFNRXL))]/.PC(-1) (-2.21)
- 2.19819 DUM6566 (-2.24)
- 5.50613 (.TIME 58)**.5 (-18.74)

Estimation technique = 0.L.S.

Sample period = 1959-79

R²(ADJ) = 0.9537

D.W. = 1.6483

S.E.E. = 1.2607

YY145	OATSA	Oats, total planted acreage	mil. ac.
YY310	OATFEXNR	Oats, expected net return	\$/ac.
YY272	WHEFEMNR	Wheat, expected market net return	\$/ac.
YY263	WHEFNRNL	Wheat, expected program net return at the minimum level of participation	\$/ac.
YY264	WHEFNRXL	Wheat, expected program net return at the maximum level of participation	\$/ac.
	DUM6566	Dummy variable, 1965-66	
Z30	.TIME	Year, 1959=59	
YY201	.PC	Consumer price index, all items	1967=100

Oats, production

OATSP = (OATSH)(OATSY)

YY149	OATSP	Oats,	production	mil.	bu.
YY237	OATSY	Oats,	yield per harvested acre	bu.	
YY256	OATSH	Oats.	harvested acreage	mil.	ac.

Oats, total disappearance

OATDT*JM = OATDF*JM + OATDH*JM + OATDS*JM + OATMX*JM

YY169	OATDT*JM	Oats,	total disappearance	mil.	bu.
YY125	OATDF*JM	Oats,	domestic feed use	mil.	bu.
YY119	OATDH*JM	Oats,	domestic food use	mil.	bu.
YY235	OATDS*JM	Oats,	domestic seed use	mil.	bu.
Z41	OATMX*JM	Oats,	total exports	mil.	bu.

Oats, total supply OATST*JM = OATSP + OATHH1*JM(-1) + OATHCC1*JM(-1) + OATHPRRE(-1) + OATMI*JM

Variable names, numbers and descriptions

YY174	OATST*JM	Oats, total supply	mil.	bu.
YY149	OATSP	Oats, production	mil.	bu.
YY112	OATHH1*JM	Oats, CCC stocks end of crop year	mil.	bu.
YY238	OATHPRRE	Oats, farmer owned reserve stocks, end of crop year	mil.	bu•
z 50	OATMI*JM	Oats, imports	mil.	bu•
YY236	OATHCC1*JM	Oats, commercial stocks, end of crop year	mil.	bu.

Oats, domestic seed use

Estimation technique = 0.L.S.

Sample period = 1950-79

R² (ADJ) = 0.9999

D.W. = 0.6630

S.E.E. = 0.6630

YY235	OATDS*JM	Oats, domestic seed use, June-may	mil.	bu.
YY145	OATSA	Oats, total acreage planted	mil.	ac.
z3 0	.TIME	Year, 1950=50		

Oats, commercial stocks, end of crop year.

OATHCC1*JM = 285.484 + .261164 OATDT*JM (3.78) (4.42)

- 28477.8 OATPF/.PC + 113.230 DUM69 (-4.28) (2.77)

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.7773

D.W. = 1.1848

S.E.E. = 38.506

YY236	OATHCC1*JM	Oats, commercial stocks, end of crop year	mil. bu.
YY169	OATDT*JM	Oats, total disappearance	mil. bu.
YY128	OATPF	Oats, average farm price, June-May	\$/bu.
	DUM69	Dummy variable, 1969	•
YY201	.PC	Consumer price index, all items	1967=100

Oats, yield per acre harvested

- + 5.73592 D6869 (2.92)
- 7.10991 DUM76 + 6.89330 DUM71 (-2.92) (2.58)
- .314783 OATSA (-1.75)
- + 916.038 OATPF(-1)/FERTM (0.87)

Estimation technique = 0.L.S.

Sample period = 1955-79

R²(ADJ) = 0.8103

D.W. = 2.3722

S.E.E. = 2.5777

YY237	OATSY	Oats, yield per acre harvested	bu.
Z30	.TIME	Year, 1955=55	
	D6869	Dummy variable, 1968 and 1969	
	DUM76	Dummy variable, 1976	
	DUM71	Dummy variable, 1971	
YY145	OATSA	Oats, total acreage planted	mil. ac.
YY128	OATPF	Oats, average farm price, June-May	\$/bu.
Z32	FERTM	Fertilizer price index	1967=100

Oats, farmer owned reserve stocks OATHPRRE = OATHT*JM - OATHCC1*JM - OATHH1*JM

		· · · · · · · · · · · · · · · · · · ·		
YY238	OATHPRRE	Oats, farmer owned reserve stocks, end of crop year	mil.	bu.
YY116	OATHT*JM	Oats, total ending stocks	mil.	bu.
YY236	OATHCC1*JM	Oats, commercial stocks, end of crop year	mil.	bu•
YY112	OATHH1*JM	Oats, CCC stocks, end of crop year	mil.	bu.

Oats, harvested acreage

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.9921

D.W. = 1.4145

S.E.E. = 0.3995

YY256	OATSH	Oats, harvested acreage	mil. ac.
YY145	OATSA	Oats, planted acreage	mil. ac.
	DUM60	Dummy variable, 1960	
	DUM71	Dummy variable, 1971	
	DUM72	Dummy variable, 1972	
	DUM75	Dummy variable, 1975	

Oats, total farmer owned reserve storage payments OATFS = .5[(OAPSRUS)(OATHPRRE) + (OAPSRUS(-1))(OATHPRRE(-1))]

YY266	OATFS	Oats, total farmer owned reserve storage payments	mil. dol.
YY238	OATHPRRE	Oats, farmer owned reserve stocks, end of crop year	mil. bu.
Z 75	OAPSRUS	Oats, farmer-owned reserve storage payment rate	\$/bu.

Oats, expected farm price

Estimation technique = 0.L.S.

Sample period = 1959-79

R²(ADJ) = 0.9995

D.W. = 2.0694

S.E.E. = 0.0073

YY280	OATPEXP	Oats, expected farm price*	\$/bu.
YY1 28	OATPF	Oats, average farm price, JulJe.	\$/bu.
	DUM75	Dummy variable, 1975	

^{*}Price 5 months prior to planting adjusted by the average difference in this price and the average crop year price over the previous three years.

Oats, expected yield per harvested acre

OATSYEXP* = 32.2910 + 4.27780 (.TIME - 54.)**5 (14.96) (7.14)

Estimation technique = 0.L.S.

Sample period = 1955-79

R²(ADJ) = 0.6760

D.W. = 1.9539

S.E.E. = 3.3689

Variable numbers, names and descriptions

YY286 OATYEXP Oats, expected yield per harvested bu./ac.
YY237 OATSY Oats, yield per harvested acre bu./ac.
Z30 .TIME Year, 1955=55

^{*} Regression parameters obtained by regressing OATSY on (.TIME - 54)**.5.

Oats, expected net return

OATFEXNR = .5[OATPEXP + Max(OATPEXP,OATLRPP)]OATYEXP - OATVC**

YY310	OATFEXNR	Oats, expected net return	\$/ac.
YY280	OATPEXP	Oats, expected farm price	\$/bu.
YY286	OATYEXP	Oats, expected yield per acre	bu./ac.
Z20	OATLRPP	Oats, loan rate prior to planting	\$/bu.
Z11	OATVC**	Oats, variable cost	\$/ac.

Cotton, total production

COLSP = (COLSH) (COLSY)/480

YY315	COLSP	Cotton, total production	mil. bales
YY333	COLSH	Cotton, total acreage harvested	mil. ac.
YY334	COLSY	Cotton, yield per harvested acre	lbs./ac.

Cotton, average farm price, American upland, Aug.-Jul.

$$COLPFAU = -6.02106 + 1.00924(COLPCM + COLPCMEQ)$$
 (DUM6169)
(-2.82) (5.79)

- + .889805 (1-COLCRT)(COLPCM + COLPCMEQ) (DUM7079) . (22.44)
- + .0182948 (COLPCM(-1) + COLPCMEQ(-1)) (DUM6169) (.10)
- + 1.13728 (COLCRT) (COLPCM(-1)COLPCMEQ(-1)) (DUM6169) (15.12)

Estimation technique = 0.L.S.

Sample period = 1961-79

R²(ADJ) = 0.9822

D.W. = 2.1431

S.E.E. = 1.8988

YY316	COLPFAU	Cotton, average farm price, American upland, AugJul.	cents/1b.
YY339	COLPCM	Cotton, average mill price	cents/lb.
Z197	COLPCMEQ	Cotton, equilization payments	cents/lb.
Z146	COLCRT	Cotton, share of crop forward traded	
	DUM6169	Dummy variable, 1961-69	
	DUM7079	Dummy variable, 1970-79	

Cotton, total acreage planted

COLSA = 11.8614 + .346331 COLMAX(1-DUM7179) + 2.63796 DUM79 (8.49) (4.28) (2.53)

- 3.69992 DUM6668 - 2.37409 DUM6970 (-5.01) (-2.98)

+ .623135 COLNRMP/.PC(-1) (.91)

+ 6.16381 [(.5) DUM7179(COLNRM + COLNRXP)/.PC(-1)] (2.66)

- 4.06173 SOYFEXNR/.PC(-1) (-2.32)

Estimation technique = 0.L.S.

Sample period = 1959-79

R²(ADJ) = 0.8233

D.W. = 2.1565

S.E.E. = 0.9044

YY317	COLSA	Cotton, total acreage planted	mil. ac.
YY360	COLNRM	Cotton, expected market net return	\$/ac.
YY359	COLNRMP	Cotton, marginal net return for planting the additional allotment	\$/ac.
YY356	COLNRXP	Cotton, expected net return of the maximum level of program participation	\$/ac.
YY311	SOYFEXNR	Soybeans, expected net return	\$/ac.
YY201	.PC	Consumer price index, all items	1967=100
Z275	COLMAX	Cotton, maximum acreage that could be planted and stay within the minimum effective allotment	mil. ac.
	DUM79	Dummy variable, 1979	•
	DUM6970	Dummy variable, 1969-70	
	DUM6668	Dummy variable for years when there was a diversion program; 1966-68	
	DUM7179	Dummy variable for years when there were no marketing quotas, 1971-79	

Cotton, total acreage harvested

COLSH = .428909 + .909778 COLSA (-2.46) (85.72)

- 1.02749 DUM69 (-3.51)

Estimation technique = 0.L.S.

Sample period = 1950-79

R²(ADJ) = 0.9966

D.W. = 1.9039

S.E.E. = 0.2797

YY333	COLSH	Cotton, total acreage harvested	mil.	ac.
YY317	COLSA	Cotton, total planted acreage	mil.	ac.
	DU1169	Dummy variable, 1969		

Cotton, yield per harvested acre

- 79.1699 DUM78 (-3.05)

Estimation technique = 0.L.S.

Sample period = 1955-79

R²(ADJ) = 0.6996

D.W. = 1.8525

S.E.E. = 23.604

DUM78

Variable numbers, names and descriptions

YY334	COLSY	Cotton, yield per harvested acre	lbs./ac.
YY316	COLPFAU	Cotton, average farm price, American upland, AugJul.	cents/lb.
YY317	COLSA	Cotton, total acreage planted	mil. ac.
Z184 .	FERIW	Fertilizer price index	1967=1.0
z3 0	.TIME	Year, 1955-55	
	DUM57	Dummy variable, 1957	•
	DUM6365	Dummy variable, 1963-65	

Dummy variable, 1978

Cotton, mill demand

COLDM = 4.80274 - 3.55452(COLPCM/.PC) (2.57) (-3.89)

- + .978713 (MMFPW/.PC) (1.15)
- + 165.669 (.YPD\$/((.PC)(.NPC)) (2.85)
- + 2.09728 COLMXREQ 406443 TREND (2.70) (-8.99)
- .684999 DUM6869 1.68211 DUM74 (-4.21) (-8.72)

Estimation techniques = 0.L.S.

Sample period = 1961-79

R²(ADJ) = 0.9756

D.W. = 2.1247

S.E.E. = 0.1807

YY335	COLDM	Cotton, mill demand	mil. bales
YY339	COLPCM	Cotton, average mill price	cents/lb.
Y Y201	.PC	Consumer price index, all items	1967=1.0
z 9	MMFPW	Man made fiber price	index
Z 34	.YPD\$	Personal disposable income, calendar year, current dollars	bil. dol.
21	• NPC	Population, total	mil.
Z 106	COLMXREO	Raw cotton, equivalence in textile exports	mil. bales
	TREND	Trend; if t<1966, 0, and if t>1966, t-1966	
	DUM6869	Dummy variable, 1968-69	
	DUM74	Dummy variable, 1974	

Cotton, total ending stocks

COLHT*(.001) = 7.67821 - 1.74566 COLPCMEQ/COLPCM (4.37) (-1.76)

+ 7.81843 DUM65 + 2.33256 DUM66 + .384820 COLHT*(-1) (5.04) (1.54) (3.80)

- 3.07443 COLSA(+1)/COLSA (-1.34)

Estimation technique = 0.L.S.

Sample period = 1965-80

R²(ADJ) = 0.9591

D.W. = 1.9194

S.E.E. = 0.7829

YY336	COLHT*	Cotton, total ending stocks, Jul. 31	thous. bales
YY339	COLPCM	Cotton, average mill price	cents/1b.
2197	COLPCMEQ	Cotton, equalization payment	cents/1b.
	DUM65	Dummy variable, 1965	
	DUM66	Dummy Variable, 1966	
YY317	COLSA	Cotton, total acreage planted	mil. ac.

Cotton, total supply

COLST = COLSP + COLHT*(-1)

YY337	COLST	Cotton,	total	supply	mil.	bales
YY315	COLSP	Cotton,	total	production	mil.	bales
YY336	COLHT*	Cotton.	total	ending stocks	mil.	bales

Cotton, average calendar year farm price

- + .609561 COLPFAU(-1) (7.18)
- 1.01089 (COLMT*(-1)/COLHT*) (-0.64)
- + 7.83369 DUM74 (3.87)

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.9812

D.W. = 2.2754

S.E.E. = 1.8632

YY338	COLPF*	Cotton, average calendar year farm price	cents/1b.
YY316	COLPFAU	Cotton, average farm price of American upland, AugJul.	cents/1b.
YY336	COLHT*	Cotton, total ending stocks	mil. bales
	DUM74	Dummy variable, 1974	

Cotton, total disappearance COLDT = COLDM + COLMX

			1	1
Variable	numbers.	names	and	descriptions
variable	Humbers			-

YY341	COLDT	Cotton,	total disappearance	mil.	bales
YY335	COLDM	Cotton,	mill use	mil.	bales
vv3//3	COLMX	Cotton.	total US. exports	mil.	bales

Cotton, Foreign, non-Communist imports, less India

COLMIF-I = 13.5837 - .0345475 (COLPCM(-1) .EXCICTW(-1)) (5.43) (-1.54)

- .120513 MMFSPFOR - .832128 COLSPHIC (-0.65) (-2.58)

+ 7.35409 .YDDC (1.60)

Estimation technique = 0.L.S.

Sample period = 1961-79

R²(ADJ) = 0.7100

D.W. = 2.1508

S.E.E. = 0.4614

YY342	COLMIF-I	Cotton, foreign non-communist imports, less India	mil. bales
YY339	COLPCM	Cotton, mill price	cents/1b.
Z107	.EXCICTW	Exchange rate of importing countries	index
Z108	MMFSPFOR	Man made fiber production, world minus U.S.	bil. lbs.
Z127	COLSPHIC	Cotton, total supply in importing countries, less India	mil. bales
Z128	.YDDC	Real gross disposable income in developed	1970=1.0

Cotton, total US exports

COLMX = COLMIF-I - COLMXF + COLMICC

+ COLMIIND + COLADJF

YY343	COLMX	Cotton, total US exports	mil.	bales
YY342	COLMIF-I	Cotton, imports, foreign non-communist countries less net India imports	mil.	bales
YY348	COLMXF	Cotton, exports, foreign non-communist countries	mil.	bales
Z201	COLMICC	Cotton, net imports, Communist countries	mil.	bales
Z202	COLMIIND	Cotton, net imports, India	mil.	bales
Z203	COLADJF	Cotton, adjustment factor in US export identity	mil.	bales

```
Cotton, non-communist foreign exports
```

COLMXF-I = .545967 + .0398122 (COLPCM) (ERX)(1.10) (2.79)

+ .532474 COLSPHEC (10.16)

- 4.90640 .YDLDC (-10.25)

oales

ales

ales

ales

ales

ales

- 2.84167 DUM7374 - 1.84312 DUM76 (-10.34) (-4.58)

Estimation technique = 0.L.S.

Sample period = 1962-79

R²(ADJ) = 0.9619

D.W. = 2.4664

S.E.E. = 0.2600

YY348	COLMXF-I	Cotton, non-communist foreign exports	mil. bales
YY339	COLPCM	Cotton, mill price	cents/1b.
Z129	ERX	Exchange rate, cotton exporting countries	1970=1.0
Z130	COLSPHEC	Cotton, supply in foreign exporting countries	mil. bales
Z132	.YDLDC	Real gross disposable income, LDC's	1970=1.0
	DUM7374	Dummy variable, 1973-74	
	DUM76	Dummy variable, 1976	

Cotton, deficiency payments

COLPDEF = (.01) Max(100.CTPT - Max(COLPF*, COLPL), 0)

(.01)(COLPICP)(COLSA)(COLSYG)(COLSL/COLSH)(.001)

YY349	COLPDEF	Cotton, d	deficiency payments	mil. dol.
Z259	CTPT	Cotton, A	American upland, target price	\$/1b.
YY338	COLPF*	Cotton, c	calendar year, farm price	cents/1b.
Z126	COLPL	Cotton, A	American upland, loan rate	cents/1b.
Z260	COLPICP	Cotton, p	program participation rate	percent
YY317	COLSA	Cotton, t	total acreage planted	mil. ac.
Z261	COLSYG	Cotton, a	administrative yield	lbs./ac.
YY333	COLSH	Cotton, t	total harvested acres	mil. ac.
Z258	COLSL	Cotton, t	total acreage allotted	thous. ac.

Cotton, expected farm price

COLPFEX = -.593218 + 1.00664 COLPFAU(-1) (-.70) (44.80)

Estimation technique = 0.L.S.

Sample period = 1959-79

R²(ADJ) = 0.9901

D.W. = 2.0012

S.E.E. = 1.2228

YY354	COLPFEX	Cotton, expected farm price	cents/1b.
YY316	COLPFAU	Cotton, average farm price, American upland, AugJul.	cents/lb.

Cotton, expected yield per harvested acre

COLSYEXP =
$$437.410 + 2.26077$$
 (.TIME-54) (26.14) (2.00)

Estimation technique = 0.L.S.

Sample period = 1955-79

R²(ADJ) = 0.1123

D.W. = 1.7356

S.E.E. = 40.578

YY355	COLSYEXP	Cotton, expected yield per harvested acre	lbs./ac.
YY334	COLSY	Cotton, yield per harvested acre	lbs./ac.
Z30	.TIME	Year, 1954=54	

^{1/} Regression parameters obtained by regressing COLSY on (.TIME-54)

Cotton, expected net returns at the maximum level of program participation

COLNRXP = [(.01)(DUM5960 Max(COLPFEX, COLPLMD)

+ (1 - DUM5960) Max(COLPFEX, COLPLPP))

COLSYEXP - COLVC*] COLSAXLP

- + COLSEXLP [(.01) (DUM5973)(COLSUPXL)
- + (1 DUM5973) Max(COLSUPXL Max(COLPFEX, COLPLPP),0))]
- + COLDPXLP

ac.

YY356	COLNRXP	Cotton, net returns at the maximumn level of program participation	\$/ac.
YY354	COLPFEX	Cotton, expected farm price	cents/1b.
Z263	COLPLMD	Cotton, special loan rate for maximum level of program participation	cents/1b.
Z262	COLPLPP	Cotton, loan rate prior to planting	cents/lb.
YY355	COLSYEXP	Cotton, expected yield per harvested acre	lbs./ac.
Z266	COLVC*	Cotton, variable cost	\$/ac.
Z270	COLSAXLP	Cotton, fraction of acre planted with maximum level of program participation	
Z271	COLSEXLP	Cotton, production eligible for support payments at the maximum level of program participation	lbs./ac.
Z272	COLDPXLP	Cotton, diversion payments at the maximum level of program participation	\$/ac.
	DUM5960	Dummy for years when there were special loan rates, 1959-60	
	DUM5973	Dummy for years when there were no target prices, 1959-73	
2265	COLSUPXL	Cotton, basis for support payment rate at the maximum level of program participation	cents/1b.

Cotton, expected net returns at the minimum level of program participation

COLNRNP = [(.01) Max(COLPFEX, COLPLPP)

COLSYEXP - COLVC*] COLSANLP

- + COLSENLP [(.01)((DUM5973)(COLSUPNL)
- + (1-DUM5973)Max(COLSUPNL-Max(COLPFEX, COLPLPP), 0))]
- + COLDPNLP

YY358	COLNRNP	Cotton, expected net returns at the minimum level of program participation	\$/ac.
YY354	COLPFEX	Cotton, expected farm price	cents/1b
Z262	COLPLPP	Cotton, loan rate prior to planting	cents/10
YY355	COLSYEXP	Cotton, expected yield per harvested acre	lbs./ac.
Z266	COLVC*	Cotton, variable cost	\$/ac.
Z267	COLSANLP	Cotton, fraction of acre planted with with minimum level of program participation	
Z268	COLSENLP	Cotton, production eligible for support payments at the minimum level of program participation	lbs./ac.
Z264	COLSUPNL	Cotton, basis for support payment rate at the minimum level of program participation	cents/1b'
Z269	COLDPNLP	Cotton, diversion payments at the minimum level of program participation	\$/ac.
	DUM5973	Dummy variable for years when there were no target prices, 1959-73	ı

Cotton, marginal net return for planting the additional allotment

COLNRMP = (1-DUM6668)[COLNRNP(COLMAX + COLMAXAD)

- (COLNRXP)(COLMAX)]/COLMAXAD
- + DUM6668[(COLNRNP COLDPNLP)
- (COLNRXP COLDPXLP)]/(COLSANLP COLSAXLP)

Variable numbers, names and descriptions

C.

ts/^{1b}

ts/^{1b}′

./ac·

./ac·

:s/1b'

YY359	COLNRMP	Cotton, marginal net return for planting the additional allotment	dol./ac.
YY358	COLNRNP	Cotton, expected net return at the minimum level of program participation	dol./ac.
Z275	COLMAX	Cotton, total acreage that could be planted to stay within minimum effective allotment	mil. ac.
Z274	COLMAXAD	Cotton, additional acreage that could be planted to stay within total allotment	mil. ac.
Z269	COLDPNLP	Cotton, deficiency payments at the minimum level of program participation	dol. ac.
Z272	COLDPXLP	Cotton, deficiency payments at the maximum level of program participation	dol. ac.
Z267	COLSANLP	Cotton, fraction of each acre planted at minimum level of program participation	
2270	COLSAXLP	Cotton, fraction of each acre planted at the maximum level of program participation	
	DUM6668	Dummy variable for years when there was a diversion program, 1966-69	
YY356	COLNRXP	Cotton, expected net return at the maximum level of program participation	dol./ac.

Cotton, expected market net returns

COLNRM = DUM7179 Max((.01)(COLPFEX)

(COLSYEXP) - COLVC*, DUM7479 COLNRXP)

YY360	COLNRM	Cotton, expected market net returns	\$/ac.
YY355	COLSYEXP	Cotton, expected yield per planted acre	lbs./ac.
YY354	COLPFEX	Cotton, expected farm price	cents/1b.
YY356	COLNRXP	Cotton, expected net returns at the minimum level of program participation	\$/ac.
Z266	COLVC*	Cotton, variable cost	\$/ac.
	DUM7179	Dummy variable for years when there were no marketing quotes in effect; 1971-79	
	DUM7479	Dummy variable for years when there are no requirements for program eligibility; 1974-79	

Total acreage planted, seven major crops

TOTACRE = CORSA + SORSA + BARSA + OATSA

+ SOYSA + WHESA + COLSA

YY320	TOTACRE	Total acreage planted, seven major crops	mil. ac.
YY143	CORSA	Corn, total acreage planted	mil. ac.
YY144	SORSA	Sorghum, total acreage planted	mil. ac.
YY146	BARSA	Barley, total acreage planted	mil. ac.
YY145	OATSA	Oats, total acreage planted	mil. ac.
YY140	SOYSA	Soybeans, total acreage planted	mil. ac.
YY153	WHESA	Wheat, total acreage planted	mil. ac.
YY317	COLSA	Cotton, total acreage planted	mil. ac.

Crops, deficiency payments

CROFP = RICFP + CORFP + SORFP + BARFP

+ WHEFP + COLPDEF

YY71	CROFP	Crops, deficiency payments	mil. dol.
Z81	RICFP	Rice, deficiency payments	mil. dol.
YY257	CORFP	Corn, deficiency payments	mil. dol.
YY258	SORFP	Sorghum, deficiency payments	mil. dol.
YY259	BARFP	Barley, deficiency payments	mil. dol.
YY260	WHEFP	Wheat, deficiency payments	mil. dol.
YY349	COLPDEF	Cotton, deficiency payments	mil. dol.

Cash receipts, cattle and calves

CACFC - 2034.66 + .0173436 (BEEAPFD)(CATPFFD) (-8.36) (12.16)

- + .00718393 (BEEAPNF)(CATPFNF) (4.67)
- + 5.14618 [(CALSC(-1) CALDD(-1) (6.56)
- CALKS(-1) HEISBBE
- COWSEMC) (CATPFFE)]
- + 13.3990 (CALKS)(CALPF) (10.10)

Estimation technique = 0.L.S.

Sample period = 1955-80
R²(ADJ) = 0.9993
D.W. = 2.0292
S.E.E. = 238.39

YY156	CACFC	Cash receipts, cattle and calves	mil. dol.
YY30	BEEAPFD	Beef fed production	mil. lbs.
YY39	CATPFFD	Cattle, price, slaughter steers, Omaha	\$/cwt.
YY31	BEEAPNF	Ben, non-fed production	mil. lbs.
YY41	CATPFNF	Beef, utility cow price, Omaha	\$/cwt.
YY17	CALSC	Calves, number born	mil. hd.
YY18	CALDD	Calves, death loss	mil. hd.
YY20	CALKS	Calves, slaughter	mil. hd.
YY24	HEISBBE	Beef, heifers added to breeding herd	mil. hd.
YY75	COWSEMC	Cows, dairy, additions to herd	mil. hd.
YY40	CATPFFE	Beef, price, choice feeder cattle, Kansas City	\$/cwt.
YY23	CALPF	Calves, average price received by farmers	\$/cwt.

Cash receipts, cattle and calves cont.

Z30	.TIME	Year, 1950=50
	D69	Dummy variable, 1969
	D50	Dummy variable, 1950
	D53	Dummy variable, 1953
	D74	Dummy variable 1070

Cash receipts, hogs

HOGFC = -198.515 + 4.83679 (SOWKS)(SOWPM7C)(-1.60) (1.95)

+ 2.26901 (BAGPM7C)(BAGKS) (17.42)

Estimation technique = 0.L.S.

SAmple period = 1960-80

R²(ADJ) = 0.9956

D.W. = 1.0948

S.E.E. = 146.12

YY157	HOGFC	Cash receipts, hogs	mil. dol.
YY4	SOWKS	Sows, slaughter	mil. hd.
YY2	SOWPM7C	Sows, market price, seven markets	\$/cwt.
YY3	BAGPM7C	Barrows and gilts, market price, seven markets	\$/cwt.
YY8	BAGKS	Barrows and gilts, slaughter	mil. hd.

Cash receipts, poultry and eggs

POUFC = -201.215 + .00810359 (CHISPYO)(CHIPWBR9C) (-2.14) (9.56)

- + .00330590 (CHIAPOT)(CHIPWXB) (1.47)
- + .0227709 (TURAP)(TURPF) (7.38)
- + .00959384 (EGGAP)(EGGPF) (17.13)
- 6.08587 (.TIME 49) (-1.03)

Estimation technique = 0.L.S.

SAmple period = 1950-79

R²(ADJ) = 0.9998

D.W. = 1.0167

S.E.E. = 51.065

YY158	POUFC	Cash receipts, poultry and eggs	mil. dol.
YY53	CHIPWBR9C	Broilers, 9 city wholesale price	cents/lb.
YY43	CHIAPOT	Chickens, other, production	mil. 1bs.
YY54	CHIPWXB	Chickens, non-broiler wholesale price	cents/1b.
YY55	TURAP	Turkey, production	mil. 1bs.
YY 60	TURPF	Turkey, average price received by farmers	cents/1b.
YY63	EGGAP	Eggs, production	mil. doz.
YY 68	EGGPF	Eggs, average price received by farmers	cents/doz.
Z30	.TIME	Year, 1950=50	
YY44	CHISPYO	Chickens, young, production	mil. lbs.

Cash receipts, dairy products

DAIFC = 290.148 + 9.97787 (MILPF)(MILSPPLTS) (10.42) (282.07)

Estimation technque = O.L.S.

Sample period = 1970-79

R²(ADJ) = 0.9999

D.W. = 0.2305

S.E.E. = 46.831

YY159	DAIFC	Cash receipts, dairy products	mil. dol.
YY73	MILAP	Milk, total production	bil. lbs.
YY223	MILSPPLTS	Milk, total sold to plants and dealers	bil. lbs.
YY74	MILPF	Milk, all sold to plants, average wholesale price received by farmers	\$/cwt.

Cash receipts, sheep, lamb, other livestok

LIVFCO = - 140.488 + .105613 (LBPFMUS) (MLSCPUS) (-1.39) (17.94)

- 5.8669 GCAU*(-1) (-5.66)

Estimation technique = 0.L.S.

Sample period = 1952-79

R²(ADJ) = 0.9517

D.W. = 1.4222

S.E.E. = 34.241

YY160	LIVFCO	Cash receipts, sheep, lamb, other livestock	mil. dol.
Z154	LBPFMUS	Lamb, season average price received by farmers	\$/cwt.
Z 157	MLSCPUS	Mutton and lamb, commercial production	mil. lbs.
YY95	GCAU*	Grain consuming animal units	

Cash receipts, food grains

FOGFC = FIRWH + .001 (RIPFMUS)(RISPRUS)

Variable names, numbers and descriptions

YY162	FOGFC	Cash receipts, food grains	mil. dol.
2165	RIPFMUS	Rice, rough, average price received by farmers	\$/cwt.
Z166	RISPRUS	Rice, rough, production	thou. cwt.
YY187	FIRWH	Cash receipts from marketings, wheat	mil. dol.

Cash receipts, feed grains

FEGFC = FIRCO + FIRSG + FIRBA + FIROA + HAYFCCAL

YY163	FEGFC	Cash	receipts,	feed grains	mil.	dol.
YY183	FIRCO	Cash	receipts,	corn	mil.	dol.
YY186	FIRSG	Cash	receipts,	sorghum	mil.	dol.
YY182	FIRBA	Cash	receipts,	barley	mil.	dol.
YY184	FIROA	Cash	reciepts,	oats	mil.	dol.
z193	HAYFCCAL	Cash	receipts.	hay	mil.	dol.

Cash receipts, oil-bearing crops
OISFC = FIRSB + PEAFC

YY164	OISFC	Cash receipts,	oil-bearing crops	mil.	dol.
YY185	FIRSB	Cash receipts,	soybeans	mil.	dol.
7.194	PEAFC	Cash receipts.	peanuts	mil.	dol.

Cash receipts, all livestock

LIVFCT = CACFC + DAIFC + HOGFC + LIVFCO + POUFC

YY177	LIVFCT	Cash receipts, all livestock	mil.	dol.
YY156	CACFC	Cash receipts, cattle and calves	mil.	dol.
YY159	DAIFC	Cash rceipts, dairy products	mil.	dol.
YY157	HOGFC	Cash receipts, hogs	mil.	dol.
YY160	LIVFCO	Cash receipts, sheep, lamb, other livestock	mil.	dol.
YY158	POUFC	Cash receipts, poultry and eggs	mil.	dol.

Cash receipts, all crops
CROFCT = FEGFC + FOGFC + OISFC + CROFCO + COLSFC

Variable	numbers, n	ames and descri	ptions		
YY178	CROFCT	Cash receipts,	all crops	mil.	dol.
YY163	FEGFC	Cash receipts,	feed grains	mil.	dol.
YY162	FOGFC	Cash receipts,	food grains	mil.	dol.
YY164	OISFC	Cash receipts,	oil-bearing crops	mil.	dol.
z 70	CROFCO	Cash receipts, other crops	fruits, vegetables,	mil.	dol.
YY357	COLSFC	Cash receipts,	cotton	mil.	dol.

Cash receipts, total

LACFCT = LIVFCT + CROFCT

YY179	LACFCT	Cash recipts, total	mil. o	iol.
YY177	LIVFCT	Cash receipts, livestock	mil. o	iol.
VV178	CROFCT	Cash receipts, crops	mil. o	dol.

Cash receipts from marketings, barley

(BARSP(-1)) (FIMBA(-1)) (1.-

BARSSDEC(-1)) + (BARPF)(BARSP)

(FIMBA)(BARSSDEC)]

+ 97.9771 D74 (5.03)

Estimation technique = 0.L.S.

Sample period = 1966-79

R²(ADJ) = 0.9913

D.W. = 2.3810

S.E.E. = 16.611

YY182	FIRBA	Cash receipts from marketings, barley	mil. dol.
YY130	BARPF	Barley, average farm price, June-May	\$/bu.
YY150	BARSP	Barley, total production	mil. bu.
Z195	FIMBA	Barley, percent of crop marketed	%
Z187	BARSSDEC	Barley, percent sold by Dec. 31	%
	D74	Dummy variable, 1974	

```
Cash receipts from marketings, corn
```

Estimation technique = 0.L.S.

Sample period = 1961-79

R₂(ADJ) = 0.9933

D.W. = 1.8749

S.E.E. = 247.31

YY183	FIRCO	Cash receipts from marketing, corn	mil. dol.
YY127	CORPF	Corn, average farm price, OctSep.	\$/bu.
YY147	CORSPGR	Corn, production for grain	mil. bu.
	DUM7374	Dummy variable, 1973 and 1974	
	D71	Dummy variable, 1971	
	D6062	Dummy variable, 1960 through 1962	

Cash receipts from marketing, oats

(OATSP) + 54.2354 D73 (5.84)

+ 120.998 D74 (11.91)

Estimation technique = 0.L.S.

SAmple period = 1961-79

R²(ADJ) = 0.9869

D.W. = 1.8755

S.E.E. = 8.6991

YY184	FIROA	Cash receipts from marketings, oats	mil. dol.
Z30	.TIME	Year, 1961=61	
YY128	OATPF	Oats, average farm price, June-May	\$/bu.
YY149	OATSP	Oats, total production	mil. bu.
	D73	Dummy variable, 1973	
	D74	Dummy variable, 1974	

Cash receipts from marketing, soybeans

FIRSB = 105.419 + .0100905 [(SOYPF(-1))(SOYSP(-1)) (0.78) (45.41)

(FIMSB(-1)) (1.- SOYSSDEC(-1))

+ (SOYPF)(SOYSP)(FIMSB)

(SOYSSDEC)]

- 778.490 D72 - 1060.86 D75 (-2.93) (-3.93)

Estimation technique = 0.L.S.

Sample period = 1966-79

R²(ADJ) = 0.9939

D.W. = 2.2540

S.E.E. = 255.01

YY185	FIRSB	Cash receipts from marketing, soybeans	mil. dol.
YY108	SOYPF	Soybeans, average farm price, OctSept.	\$/bu.
YY142	SOYSP	Soybeans, total production	mil. bu.
Z 198	FIMSB	Soybeans, percent of crop marketed	%
Z191	SOYSSDEC	Soybeans, percent sold by Dec. 31	%
	D72	Dummy variable, 1972	
	D75	Dummy variable, 1975	

Cash receipts from marketing, sorghum

FIRSG = 19.5284 + .00996356 [(SORPF*)(SORSPGR(-1)) FIMSG(-1)) (0.59) (27.86)

(1.- SORSSDEC(-1)) + (SORPF*)

(SORSPGR)(FIMSG)(SORSSDEC)]

Estimation technique = 0.L.S.

Sample period = 1966-79

R²(ADJ) = 0.9835

D.W. = 1.7801

S.E.E. = 43.552

YY186	FIRSG	Cash receipts from marketing, sorghum	mil. dol.
YY129	SORPF*	Sorghum, average farm price, OctSept.	\$/bu.
YY148	SORSPGR	Sorghum, production of grain	mil. bu.
Z199	FIMSG	Sorghum, percent of crop marketed	%
Z190	SORSSDEC	Sorghum, percent sold by Dec. 31.	%

Cash receipts from marketings, wheat

FIRWH = 64.2221 + .0842717 (WHEPF(-1)) (0.76) (1.90)

(WHESP*JM(-1))] + .831228 [(WHEPF)]

(WHESP*JM)] + 508.414 D7274 (3.53)

+ 560.741 D77 (2.72)

Estimation technique = 0.L.S.

Sample period = 1962-79

R²(ADJ) = 0.9912

D.W. = 2.1919

S.E.E. = 184.29

YY187	FIRWH	Cash receipts from marketings, wheat	mil. dol.
YY139	WHEPF	Wheat, average farm price, JulJe.	\$/bu.
YY155	WHESP*JM	Wheat, total production	mil. bu.
	D7274	Dummy variable, 1972 and 1974	
	D77	Dummy variable, 1977	

Farm income, other receipts

FIFOT = (LACFIHC + LACFIIR + LACFIO

+ LACFPG)/1000

YY188	FIFOT	Farm income,	other receipts	bil.	dol.
Z151	LACFIHC	Farm income,	from home consumption	mil.	dol.
Z234	LACFIO	Farm income,	other sources	mil.	dol.
Z206	LACFIIR	Farm income,	from imputed rent	mil.	dol.
YY271	LACFPG	Farm income,	government payments	mil.	dol.

Farm income, gross

FIF = FIFOT + LACFCT/1000

Variable	numbers, na	ames and descriptions	bil.	dol.
YY189	FIF	Farm income, gross		
YY188	FIFOT	Farm income, other receipts excluding farm marketings	bil.	dol.
YY179	LACFCT	Cash receipts, total	mil.	dol.

Farm income, realized net FIYRN = FIF - LACET/1000

Variable numbers, n	ames	and	descriptions
---------------------	------	-----	--------------

YY190	FIYRN	Farm income, realized net	bil. dol.
YY189	FIF	Farm income, gross	bil. dol.
VV180	LACET	Production expenses, total	mil. dol.

Farm income, net

FIYTN = FIYRN + FIYINV

YY192	FIYTN	Farm income, net	bil.	dol.
YY190	FIYRN	Farm income, realized net	bil.	dol.
YY314	FIYINV	Farm income, change in value of farm inventories	bil.	dol.

Total government payments

LACFPG = CROFP + LACFPG*

YY271	LACFPG	Total government payments	mil.	dol.
YY71	CROFP	Total deficiency payments	mil.	dol.
z 59	LACFPG*	Total government payments less	mil.	dol.

Farm income, change in farm inventory

FIYINV =
$$.311008 - 1.84070 \text{ DUM}74 + 2.91009 \text{ DUM}75$$

(2.40) (-3.68) (5.86)

- 2.12312 DUM76 + 2.10198 DUM79 (-4.12) (3.86)
- + .000240053[(CORSPGR)(CORPF) (6.23)
- + (SORSPGR)(SORPF*) + (BARSP)(BARPF)
- + (OATSP)(OATPF) + (SOYSP)(SOYPF)
- + (WHESP+JM)(WHEPF) + (4.8)(COLSP)(COLSPFAU)
- (CORSPGR(-1)CORPF(-1)) (SORSPGR(-1)SORPF*(-1))
- (BARSP(-1)BARPF(-1)) (OATSP(-1)OATPF(-1))
- (SOYSP(-1) SOYPF(-1)) (WHESP*JM(-1)WHEPF(-1))
- (4.8) (COLSP(-1)) (COLSPFAU(-1))]

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.9041

D.W. = 3.0976

S.E.E. = 0.4814

YY314	FIYINV	Farm income, change in farm inventory	bil. dol.
YY147	CORSPGR	Corn, production for grain	mil. bu.
Y127	CORPF	Corn, average farm price, OctSept.	\$/bu.
YY148	SORSPGR	Sorghum, production for grain	mil. bu.
YY129	SORPF*	Sorghum, average farm price, OctSept.	\$/bu.
YY150	BARSP	Barley, total production	mil. bu.
YY130	BARPF	Barley, average farm price, June-May	\$/bu.
YY149	OATSP	Oats, total production .	mil. bu.
YY128	OATPF	Oats, average farm price, June-May	\$/bu.
YY155	WHESP*JM	Wheat, total production	mil. bu.
YY139	WHEPF	Wheat, average farm price, June-May	\$/bu.
YY142	SOYSP	Soybeans, total production	mil. bu.
YY108	SOYPF	Soybeans, average farm price, OctSept.	\$/bu.

Farm income, change in farm inventory cont.

YY315	COLSP	Cotton, total production, AugJul.	mil. bales
YY316	COLPFAU	Cotton, average farm price, American upland, AugJul.	cents/1b.
	DUM74	Dummy variable, 1974	
	DUM75	Dummy variable, 1975	
	DUM76	Dummy variable, 1976	
	DIM79	Dummy variable, 1979	

Cash receipts, cotton, seed and lint

COLSFC = 238.846 + 2.96022 (COLSP)(COLPFAU)
(3.38) (13.31)

- + 1.76446 (COLSP(-1))(COLPFAU(-1)) (6.79)
- + 491.263 DUM76 (4.04)

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.9843

D.W. = 1.6666

S.E.E. = 106.21

YY357	COLSFC	Cash receipts, cotton, seed and lint	mil. dol.
YY315	COLSP	Cotton, total production	mil. bales
YY316	COLPFAU	Cotton, average American upland farm price, AugJul.	cents/lb.
	DUM76	Dummy variable, 1976	

Production expenses, purchased livestock

LACELIV = 517.867 + 5.72621 (SAHKSFD) (CATPFFE) (2.99) (13.89)

+ .365442 (BAGKS) (BAGPM7C) (2.33)

- 37.1051 (.TIME - 49) (-2.41)

Estimation technique = 0.L.S.

Sample period = 1950-79

R²(ADJ) = 0.9814

D.W. = 1.1823

S.E.E. = 295.74

YY166	LACELIV	Production expenses, purchased livestock	mil. dol.
YY28	SAHKSFD	Steer and heifer, fed slaughter plus farm slaughter	mil. hd.
YY40	CATPFFE	Beef, choice feeder cattle price, Kansas City	\$/cwt.
YY8	BAGKS	Barrow and gilts, slaughter	mil. hd.
YY3	BAGPM7C	Barrows and gilts, market price	\$/cwt.
Z30	.TIME	Year, 1950=50	

Production expenses, purchased feed

LACEF = 762.945 + .507330 [(CORDF(-1))(CORPF(-1)) (6.64) (18.37)

- + (SORDF(-1))(SORPF(-1))
- + (OATDF*JM(-1))(OATPF(-1))
- + (BARDF*JM(-1))(BARPF(-1)) + (WHEDF*JM(-1))(WHEPF(-1))]
- + .0227597 (SOMDD*(-1))(*SOMPF(-1)) (19.72)
- + 98.5877 (.TIME 54) (7.62)

Estimation technique = 0.L.S.

Sample period = 1955-79

R²(ADJ) = 0.9987

D.W. = 2.6503

S.E.E. = 205.78

Z30

.TIME

Year, 1955=55

YY167	LACEF	Production expenses, purchased seed	mil. dol.
YY123	CORDF	Corn, feed use	mil. bu.
YY127	CORPF	Corn, average farm price, OctSept.	\$/bu.
YY124	SORDF	Sorghum, feed use	mil. bu.
YY129	SORPF*	Sorghum, average farm price, OctSept.	\$/bu.
YY128	OATPF	Oats, average farm price, June-May	\$/bu.
YY126	BARDF*JM	Barley, feed use	mil. bu.
YY130	BARPF	Barley, average farm price, June-May	\$/bu.
YY137	WHEDF*JM	Wheat, feed use	mil. bu.
YY137 YY139	WHEDF*JM WHEPF	Wheat, feed use Wheat, average farm price, June-May	mil. bu. \$/bu.
YY139	WHEPF	Wheat, average farm price, June-May	\$/bu.

Production expenses, depreciation

LACEDPR = -4413.58 + 57.5430 PP7PT (-4.17) (38.41)

- + 41.2231 MPOWM (3.36)
- + .0348924[(CORSPGR) (CORPF) (8.51)
- + (SORSPGR) (SORPF*)
- + (BARSP) (BARPF) + (OATSP)

(OATPF) + (SOYSP) (SOYPF)

- + (WHESP*JM) (WHEPF)
- + (COLSP) (COLPFAU)(4.8)]

Estimation technique = 0.L.S.

Sample period = 1965-79

R²(ADJ) = 0.9996

D.W. = 1.9230

S.E.E. = 74.444

b•

YY168	LACEDPR	Production expenses, depreciation	mil. dol.
Z164	PP7PT	Prices paid by farmers, tractors and services	1967=100
Z158	MPOWN	Index of farm inputs, machinery	1967=1.0
YY147	CORSPGR	Corn, production for grain	mil. bu.
YY127	CORPF	Corn, average farm price, OctSept.	\$/bu.
YY148	SORSPGR	Sorghum, production for grain	mil. bu.
YY129	SORPF*	Sorghum, average farm price, OctSept.	\$/bu.
YY150	BARSP	Barley, total production	mil. bu.
YY149	OATSP	Oats, total production	mil. bu.
YY142	SOYSP	Soybeans, total production	mil. bu.
YY108	SOYPF	Soybeans, average price, OctSept.	\$/bu.

Production expenses, depreciation cont.

YY155	WHESP*JM	Wheat, total production	mil. bu.
YY139	WHEPF	Wheat, average farm price, June-May	\$/bu•
YY315	COLSP	Cotton, total production	mil. bales
YY316	COLPFAU	Cotton, upland, average farm price, AugJul.	cents/1b.
YY130	BARPF	Barley, average farm price, June-May	\$/bu•
YY128	OATPF	Oats, average farm price, June-May	\$/bu•

Crops, total farmer-owned reserve storage payments

CROFS = RICFS + CORFS + OATFS + SORFS

+ BARFS + WHEFS

1es

ъ

YY170	CROFS	Crops, total farmer owned reserve storage payments	mil.	dol.
z 76	RICFS	Rice, farmer-owned reserve storage payments	mil.	dol.
YY265	CORFS	Corn, farmer-owned reserve storage payments	mil.	dol.
YY266	OATFS	Oats, farmer-owned reserve storage payments	mil.	dol.
YY267	SORFS	Sorghum, farmer-owned reserve storage payments	mil.	dol.
YY268	BARFS	Barley, farmer-owned reserve storage payments	mil.	dol.
YY269	WHEFS	Wheat, farmer-owned reserve storage payments	mil.	dol.

Production expenses, net rent

- 10.8915 PP7PC(-1) + 584.269 D75F (-6.14) (2.15)
- 977.674 D79F + .157527[(CORSPGR(-1)) (-1.78) (3.11)

(CORPF) + (SORSPGR(-1)) (SORPF*)

+ (BARSP(-1)) (BARPF) + (OATSP(-1)

(OATPF) + (SOYSP(-1)) (SOYPF)

- + (WHESP*JM(-1)) (WHEPF)
- + (COLSP(-1)) (COLPFAU) *4.8]

Estimation technique = 0.L.S.

Sample period = 1965-79

R²(ADJ) = 0.9214

D.W. = 1.9631

S.E.E. = 0.0437

YY172	LACERNT	Production expenses, net rent	mil. dol.
Z32	FERTM	Fertilizer index	Index
Z163	PP7PC	Index of prices paid by farmers, production items, agricultural chemicals	1967=100
	D75F	Dummy variable, 1975	
-	D79F	Dummy variable, 1979	
YY147	CORSPGR	Corn, production for grain	mil. bu.
YY127	CORPF -	Corn, average price received by farmers, OctSept.	\$/bu.
YY148	SORSPGR	Sorghum, production for grain	mil. bu.
YY129	SORPF*	Sorghum, average price received by farmers, OctSept.	\$/bu.
YY150	BARSP	Barley, total production	mil. bu.
YY130	BARPF	Barley, average price received by farmers, June-May	\$/bu.
YY149	OATSP	Oats, production	mil. bu.
YY128	OATPF	Oats, average price received by farmers, June-May	\$/bu.

Production expenses, net rent (cont.)

YY142	SOYSP	Soybeans, total production	mil. bu.
YY108	SOYPF	Soybeans, average farm price, OctSept.	.\$/bu.
YY155	WHESP*JM	Wheat, production	mil. bu
YY139	W HEPF	Wheat, average price received by farmers, JulJun.	\$/bu.
YY315	COLSP	Cotton, total production	mil. bales
YY316	COLPFAU	Cotton, average farm price,	cents/lb.

Production expenses, miscellaneous

LACEMSC = -11908.2 + 53.6370 GCAU* (-9.2) (6.84)

+ 179.355 .FRMCP4M + 8641.28 .PW051* (3.87) (37.24)

+ 5.49789 TOTACRES + 1891.74 DUM79 (1.55) (5.66)

- 621.299 DUM74 (-1.98)

Estimation technique = 0.L.S.

Sample period = 1951-79

R²(ADJ) = 0.9975

D.W. = 1.4376

S.E.E. = 239.48

YY173	LACEMSC	Production expenses	mil. dol.
YY320	TOTACRES	Total acreage planted, seven major crops	mil. ac.
YY95	GCAU*	Grain consuming animal units, calendar year	animal units
27	.FRMCP4M	Interest rate, prime commercial paper, 4-6 months	percent
Z8	.PW051*	Fuel and utilities, consumer price index	1967=1.0
	DUM74	Dummy variable, 1974	
	DUM79	Dummy variable, 1979	

Production expenses, fertilizer and lime

LACEU = -10967.7 + 22.9151 FERTM (-8.02) (8.86)

+ 115.096 .TIME + 685.108 D74 (3.78) (3.11)

+ 14.4968[CORSA + SORSA + (1.72)

BARSA + OATSA + SOYSA +

COLSA + WHESA]

Estimation technique = 0.L.S.

Sample period = 1965-79

R²(ADJ) = 0.9879

D.W. = 1.9883

S.E.E. = 207.83

YY175	LACEU	Production expenses, fertilizer and lime	mil. dol.
Z32	FERTM	Fertilizer, price index	1967=100
Z30	.TIME	Year, 1965=65	
	.D74	Dummy variable, 1974	
YY143	CORSA	Corn, total acreage planted	mil. ac.
YY144	SORSA	Sorghum, total acreage planted	mil. ac.
YY146	BARSA	Barley, total acreage planted	mil. ac.
YY145	OATSA	Oats, total acreage planted	mil. ac.
YY140	SOYSA	Soybeans, total acreage planted	mil. ac.
YY317	COLSA	Cotton, total acreage planted	mil. ac.
YY153	WHESA	Wheat, total acreage planted	mil. ac.

Production expenses, purchased seeds

LACESD = -1577.15 + 1.06806(-3.68) (15.55)

[(CORRS)(CORSA)(CORPSD)/56)

+ (COLSA)(COLRS)(COLPSD)/100

(SORSA)(SORRS)(SORPSD)/100

- + (BARSA)(BARRS)(BARPSD)
- + (OATSA)(OATRS)(OATPSD)
- + (SOYSA)(SOYRS)(SOYPSD)
- + (WHESA) (.5) [(WHESRS) (WHESPSD)
- + (WHEWRS)(WHEWPDS)]] + 23.5958 .TIME 386.830 D75 (3.27) (-3.28)

Estimation technique = 0.L.S.

Sample period = 1959-79

R²(ADJ) = 0.9756

D.W. = 1.0392

S.E.E. = 103.94

YY	176 LACES	D Production expenses, purchased seeds	mil. dol.
YY	143 CORSA	Corn, total acreage planted	mil. ac.
Z14	48 CORRS	Seeding rate, corn	lbs./ac.
Z14	47 CORPS	D Price of hybrid corn seed	\$/bu.
YY.	317 COLSA	Cotton, total acreage planted	mil. ac.
Z14	45 COLRS	Seeding rate, cotton	lbs./ac.
Z14	44 COLPS	D Price of cotton seeds	\$/cwt.
Z16	59 SORRS	Seeding rate, sorghum	lbs./ac.
Z16	68 SORPS	D Price of hybrid sorghum seed	\$/cwt.
YY	146 BARSA	Barley, total acreage planted	mil. ac.
Z13	39 BARRS	Seeding rate, barley	bu./ac.
Z 13	38 BARPS	D Price of spring barley seed	\$/bu
YY	145 OATSA	Oats, total acreage planted	mil. ac.
Z16	61 OATRS	Seeding rate, oats	bu./ac.
Z16	60 OATPS	D Price of spring oats seed	\$/bu.

Production expenses, purchased seeds cont.

Z139	BARRS	Barley, seeding rate	mil.ac.
Z171	SOYRS	Seeding rate, soybeans	bu./ac.
Z170	SOYPSD	Price of soybean seed	\$/bu.
YY153	WHESA	Wheat, total acreage planted	mil. ac.
Z179	WHESRS	Seeding rate, spring wheat	bu./ac.
Z178	WHESPSD	Price of spring wheat seed	\$/bu.
Z181	WHEWRS	Seeding rate, winter wheat	bu./ac.
Z30	.TIME	Year, 1959=59	
	D75	Dummy variable, 1975	
YY140	SOYSA	Soybeans, total acreage planted	mil. ac.
YY144	SORSA	Sorghum, total acreage planted	mil. ac.
Z180	WHEWPDS	Price of winter wheat seed	S/bu.

Production expenses, total

LACET = LACEDPR + LACEF + LACELIV + LACEMSC + LACERNT

+ LACESD + LACEU + LACEHLB + LACEINT + LACERCO

+ LACETAX

YY180	LACET	Production expenses,	total	mil.	dol.
YY168	LACEDPR	Production expenses,	depreciation	mil.	dol.
YY167	LACEF	Production expenses,	purchased feed	mil.	dol.
YY166	LACELIV	Production expenses,	livestock	mil.	dol.
YY173	LACEMSC	Production expenses,	miscellaneaous	mil.	dol.
YY172	LACERNT	Production expenses,	net rent	mil.	dol.
YY176	LACESD	Production expenses,	seed	mil.	dol.
YY175	LACEU	Production expenses,	fertilizer and lime	mil.	dol.
YY318	LACEHLB	Production expenses,	hired labor	mil.	dol.
YY321	LACEINT	Production expenses, farm mortgage	interest on	mil.	dol.
YY319	LACERCO	Production expenses, operation of capital	repair and	mil.	dol.
YY312	LACETAX	Production expenses,	tax on property	mil.	dol.

Production expenses, taxes on property

Estimation technique = 0.L.S.

Sample period = 1951-79

R²(ADJ) = 0.9927

D.W. = 1.8014

S.E.E. = 51.768

YY312	LACETAX	Production expenses, taxes on property	mil. dol.
YY313	VLAND	Index of farm real estate value	1967=1.0
Z30	.TIME	Year, 1951=51	

Production expenses, hired labor

LACEHLB = 108.825 + 2.75061 TOTACRES + 29.9802 .WRAHFI (0.16) (0.95) (33.21)

Estimation technique = 0.L.S.

Sample period = 1954-79

R²(ADJ) = 0.9852

D.W. = 0.4862

S.E.E. = 228.13

YY318	LACEHLB	Production expenses, hired labor	mil. dol.
YY320	TOTACRES	Total acreage planted	mil. ac.
Z 2	.WRAHFI	Wage index, all hired farm labor	1967=1.0

Production expenses, repair, operation of capital

LACERCO = -3058.19 + 8.19318 TOTACRES (-7.57) (4.70)

+ 5537.75 .GASIR - 1255.21 DUM74 (65.75) (-7.30)

- 735.099 DUM75 + 1256.03 DUM78 (-4.22) (6.93)

Estimation technique = 0.L.S.

Sample period = 1951-79

R²(ADJ) = 0.9961

D.W. = 1.4297

S.E.E. = 163.51

YY319	LACERCO	Production expenses, repair, operation of capital	mil. dol.
YY320	TOTACRES	Total acreage planted, seven major major crops	mil. ac.
Z15	.GASIR	Gasoline, regular and premium, consumer price price index	1967=1.0
	DUM74	Dummy variable, 1974	
	DUM75	Dummy variable, 1975	
	DUM78	Dummy variable, 1978	

Production expenses, interest on farm mortgages

LACEINT = - 331.479 + .721361 LACEINT(-1) (-4.31) (5.13)

+ 673.910 VLAND + 29.0819 .FRMCP4M (3.15) (2.98)

Estimation technique = 0.L.S.

Sampel period = 1951-79

R²(ADJ) = 0.9981

D.W. = 0.9364

S.E.E. = 69.301

YY321	LACEINT	Production expenses, interest on farm mortages	mil. dol.
YY313	VLAND	Index of farm real estate, value per acre	bil. dol.
Z7	•FRMCP4M	Interest rate, prime commercial paper,	percent

Livestock, market price index

LIVIF = (14075.0 CATPFFD + 6144.0 CATPFNF

- + 11612.0 BAGPM7C + 969.0 SOWPM7C)
- + 6552.0 CHIPWBR9C + 827.0 CHIPWXB
- + 5777.0 EGGPF + 1870.0 TURPF)/1086142.1

YY92	LIVIF	Livestock, market price index	196/=1.0
YY39	CATPFFD	Cattle, price, slaughter steers, Omaha	\$/cwt.
YY41	CATPFNF	Cattle, utility cow price, Omaha	\$/cwt.
YY3	BAGPM7C	Barrows and gilt, market price	\$/cwt.
YY2	SOWPM7C	Sows, market price	\$/cwt.
YY 53	CHIPWBR9C	Broilers, wholesale price	cents/lb.
YY54	CHIPWXB	Chickens, non-broiler, wholesale price	cents/lb.
YY 68	EGGPF	Eggs, average price received by farmers	cents/1b.
YY60	TURPF	Turkeys, average price received by farmers	cents/1b.

Livestock, output index

LIVJF = .2488 BEEAPFD + .1722 BEEAPNF

- + .1920 PORAP-77 + .2515 CHISPYO
- + .0790 CHIAPOT + .3130 EGGAP
- + .1950 TURAP
- + .0502 [(MILAP MILBC)(1000)]/16726.421

YY93	LIVJF	Livestock output index	1967=1.0
YY31	BEEAPNF	Beef, non-fed production	mil. lbs.
YY30	BEEAPFD	Beef, fed production	mil. lbs.
YY9	PORAP-77	Pork, production, carcass weight	mil. lbs.
YY44	CHISPYO	Chickens, young, production	mil. lbs.
YY43	CHIAPOT	Chickens, other, production	mil. lbs.
YY63	EGGAP	Eggs, production	mil. lbs.
YY55	TURAP	Turkeys, production	mil. lbs.
YY73	MILAP	Milk, total production	bil. lbs.
YY72	MILBC	Milk, fed to calves	bil. lbs.

1.0

lbs.

lbs.

lbs.

lbs•

1bs∙

1bs.

1bs.

1bs•

1bs.

LIVIR =[.0805 PORIR.67 + .1245 BEEIR

+ .0294 CHIIRFR + .0057 TURPR/48.8]/.24

YY94	LIVIR	Meat, retail price index	1967=1.0
YY1	PORIR.67	Pork, retail price index	1967=1.0
YY38	BEEIR	Beef, retail price index	1967=1.0
YY51	CHIIRFR	Chickens, frying, retail price index	1967=1.0
YY 59	TURPR	Turkeys, retail price	cents/lb.

Consumer price index, poultry

.PCPOU = .030092 + .896133 CHIIRFR (3.85) (41.44)

+ .001477 TURPR (3.21)

Estimation technique = 0.L.S.

Sample period = 1956-79

R²(ADJ) = 0.9999

D.W. = 1.8170

S.E.E. = 0.0074

YY195	.PCPOU	Consumer price index, poultry	1967=1.0
YY51	CHIIRFR	Chickens, frying, retail price index	1967=1.0
YY 59	TURPR	Turkeys, retail price	cents/1b.

Consumer price index, cereal and baking products

.PCCB = .0449896 + .183503 .WRHLBP (1.55) (8.57)

+ .327797 .PPIP + .0771631 WHEPF(-1) (3.47) (4.97)

Estimation technique = 0.L.S.

Sample period = 1950-79

R²(ADJ) = 0.9940

D.W. = 1.3900

S.E.E. = 0.0329

YY196	• PCCB	Consumer price index, cereal and baking products	1967=1.0
Z209	.WRHLBP	Average earnings, baking product industry	\$/hr.
Z210	.PPIP	Producer price index, paper and pulp products	1967=1.0
YY139	WHEPF	Wheat, average farm price, June-May	\$/bu.

Consumer price index, fats and oils

.PCFO = .151466 + .533934 .PPIGL (3.11) (12.31)

+ .02663061 SOOPM (11.35)

Estimation technique = 0.L.S.

Sample period = 1967-79
R²(ADJ) = 0.9890
D.W. = 1.1520
S.E.E. = 0.0450

YY197	.PCFO	Consumer price index, fats and oils	1967=1.0
Z211	.PPIGL	Producer price index, glass containers	1967=1.0
YY106	SOOPM	Soybean oil, price	cents/lb.

Consumer price index, food at home

.PCH = [.395 FISIR + 1.701 .PCFV]

- + .439 .PCSS + 1.375 .PCNAL
- + 1.013 .PCPF]
- + 1.814 BEEIR + .826 PORIR.67
- + .535 .PCOM + .392 .PCPOU
- + .226 EGGIR.67 + .346 .PCFO
- + 1.641 DARCPI + 1.517 .PCCB]

YY198	.PCH	Consumer price index, food at home	1967=1.0
YY323	.PCFV	Consumer price index, fruits and vegetables	1967=1.0
YY325	.PCSS	Consumer price index, sugar and sweets	1967=1.0
YY326	.PCNAL	Consumer price index, non-alcoholic beverages	1967=1.0
YY324	.PCPF	Consumer price index, prepared or partially prepared foods	1967=1.0
YY38	BEEIR	Beef, retail price index	1967=1.0
YYI	PORIR.67	Pork, retail price index	1967=1.0
YY202	.PCOM	Consumer price index, other meats	1967=1.0
YY195	.PCPOU	Consumer price index, poultry	1967=1.0
YY67	EGGIR.67	Eggs, retail price index	1967=1.0
YY197	.PCFO	Consumer price index, fats and oils	1967=1.0
YY91	DARCPI	Dairy, retail price index	1967=1.0
YY196	.PCCB	Consumer price index, cereal and baking products	1967=1.0
YY322	FISIR	Fish, retail price index	1967=1.0

Consumer price index, food away from home

.PC-U = -.078009 + .366250 .WEDPL (-3.93) (7.22)

+ .520488 .PCH (6.79)

Estimation technique = 0.L.S.

Sample period = 1964-79

R²(ADJ) = 0.9988

D.W. = 1.0530

S.E.E. = 2.3500

YY199	.PC-U	Consumer price index, food away from home	1967=1.0
Z208	.WEDPL	Wage rate, eating and drinking establishments	\$/hr.
YY198	.PCH	Consumer pirce index food at home	1967=1.0

Consumer price index, all food

.PCF = (12.210 .PCH + 5.450 .PC-U)/.17660

YY200	.PCF	Consumer price index, all food	1967=100
YY198	• PCH	Consumer price index, food at home	1967=1.0
YY199	.PC-U	Consumer price index, food away from home	1967=1.0

Consumer price index, all items

.PC = 82.340 .PCALL-F + .17660 .PCF

YY201	.PC	Consumer price index, all items	1967=100
Z204	• PCALL-F	Consumer price index, all items less food	1967=100
YY200	.PCF	Consumer price index, all food	1967=100

Consumer price index, other meats

.PCOM = - .0274802 + .596414 BEEIR (-1.50) (13.65)

+ .404264 PORIR.67 (9.47)

Estimation technique = 0.L.S.

Sample period = 1953-79

R²(ADJ) = 0.9944

D.W. = 1.1180

S.E.E. = 0.0260

YY202	.PCOM	Consumer price index, other meats	1967=1.0
YY38	BEEIR	Beef, retail price index	1967=1.0
YY1	PORIR.67	Pork, retail price index	1967=1.0

Index of farm real estate value

VLAND - VLAND(-1) = -.142689 + .0158652 FIYTN(-1) (-6.41) (12.22)

+ .175064 DUM7779 (7.83)

Estimation technique = 0.L.S.

Sample period = 1961-79

R²(ADJ) = 0.9414

D.W. = 1.9905

S.E.E. = 0.0340

YY313	VLAND	Index of farm real estate	1967=1.0
YY192	FIYTN	Farm income, total net	bil. dol.
	DUM7779	Dummy variable, 1977-79	

Fish, retail price index

.FISIR = - .000109180 .PC (-0.11)

+ .409634 (.YPD\$/.NPC) (13.65)

- .167060 DUM6872 (-5.23)

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.9986

D.W. = 0.9018

S.E.E. = 0.0630

YY322	.FISIR	Fish, retail price index	1967=1.0
YY201	.PC	Consumer price index, all items	1967=1.0
Z34	.YPD\$	Personal disposable income in current dollars	bil. dol.
Z1	.NPC	Population, total	mil.
	DUM6872	Dummy variable, 1968-72	

Consumer price index, fruits and vegetables

.PCFV = .00856799 .PC + .0611471 (.YPD\$/.NPC) (25.81) (5.40)

Estimation technique = 0.L.S.

Sample period = 1950-79

R²(ADJ) = 0.9991

D.W. = 0.1317

S.E.E. = 0.0368

YY323	.PCFV	Consumer price index, fruits and vegetables	1967=1.0
YY201	.PC	Consumer price index, all items	1967=1.0
Z34	.YPD\$	Personal disposable income, calendar year, current dol.	bil. dol.
Z1	.NPC	Population, total	mil.

Consumer price index, prepared or partially prepared foods

.PCPF = .0114430 .PC - .0552175 (.YPD\$/.NPC) (10.70) (-1.62)

Estimation technique = 0.L.S.

Sample period = 1965-79

R²(ADJ) = 0.9987

D.W. = 0.5568

S.E.E. = 0.0504

YY324	.PCPF	Consumer price index, prepared and partially prepared foods	1967=1.0
YY201	.PC	Consumer price index, all items	1967=1.0
Z34	.YPD\$	Personal disposable income in current dollars	bil. dol.
Z1	.NPC	Population, total	mil.

Consumer price index, sugar and sweets

.PCSS = .00546836 .PC + .203285(.YPD\$/.NPC) (5.73) (6.15)

- .315968 DUM73 + .199727 DUM74 (-2.91) (1.83)

+ .546116 DUM75 (4.98)

Estimation technique = 0.L.S.

Sample period = 1950-79

R²(ADJ) = 0.9944

D.W. = 0.4296

S.E.E. = 0.1044

YY325	.PCSS	Consumer price index, sugar and sweets	1967=1.0
YY201	.PC	Consumer price index, all items	1967=1.0
Z34	.YPD\$	Personal disposable income, calendar year, current dol.	bil. dol.
Z 1	.NPC	Population, total	mil.
	DUM73	Dummy variable, 1973	
	DUM74	Dummy variable, 1974	
	DUM7 5	Dummy variable, 1975	

Consumer price index, non-alcoholic beverages

.PCNAL = - .529311 + 1.52546 .PCSS (-8.99) (37.17)

- .892389 DUM74 - 1.43737 DUM75 (-8.39) (12.67)

- .659245 DUM76 (-6.04)

Estimation technique = 0.L.S.

Sample period = 1960-79

R²(ADJ) = 0.9869

D.W. = 1.2246

S.E.E. = 0.1008

YY326	• PCNAL	Consumer price index, non-alcoholic beverages	1967=1.0
YY201	.PC	Consumer price index, all items	1967=1.0
	DUM74	Dummy variable, 1974	
	DUM75	Dummy variable, 1974	
	DUM76	Dummy variable, 1976	

Consumer price index, margarine

MARIR = .092302 + .0354703 SOOPM(-1)(.40) (9.85)

+ .235860 .GASIR (2.09)

+ .140260 .WRHD (3.38)

Estimation technique = 0.L.S.

Sample period = 1961-79

R²(ADJ) = 0.9861

D.W. = 1.5624

S.E.E. = 0.0653

YY327	MARIR	Consumer price index, margarine	1967=1.0
YY106	SOOPM	Soybean oil price, crop year	cents/1b.
Z15	.GASIR	Gasoline, regular and premium, consumer price index	1967=1.0
Z 4	.WRHD	Wage rate, dairy industry	\$/hr.

GLOSSARY

-- ENDOGENOUS VARIABLES --

NUMBER & NAM	E DESCHIPTION	UNITS	PAGE
	PORK, RETAIL PRICE INDEX SUMS, MARKET PRICE, SEVEN MARKETS BARROWS AND GILTS, MARKET PRICE, SEVEN MARKETS SUMS, SLAUGHTER PIGS, ADDITIONS TO BPEEDING HERD HUGS, BREEDING, NUMBER ON FARMS, DEC 1 PIGS, CROP BARROWS AND GILTS, SLAUGHTER PORK, PRODUCTION, CARCASS WT. PURK, ENDING STOCKS, HUGS, TOTAL SLAUGHTER HUGS, MARKET, NUMBER ON FARMS, DEC. 1 PURK, TOTAL SUPPLY PURK, CIVILIAN DISAPPEARANCE COWS, BEEF, NUMBER ON FARMS, JAN 1 COWS, DAIRY, NUMBER ON FARMS, JAN 1 CALVES, NUMBER BORN CALVES, DEATH LOSS CURN, PROGRAM PARTICIPATION RATE CALVES, SLAUGHTER VEAL, COMMERCIAL PRODUCTION, CARCASS WEIGHT		
PURIR.67	PORK, RETAIL PRICE INDEX SUMS, MARKET PRICE, SEVEN MARKETS BARROMS AND GILTS, MARKET PRICE, SEVEN MARKETS	1967=1.0	
SOMPH7C	SUNS, MARKET PRICE, SEVEN MARKETS	S/CHT.	17
BAGPH7C	BARROWS AND GILTS, MARKET PRICE, SEVEN MARKETS	\$/CHT.	18
BOWKS	SUNS, SLAUGHTER	MIL. HD.	19
PIGSFUR	PIGS, ADDITIONS TO BPEEDING HERD	MIL. HD.	20
HOGSNER	HOGS, BREEDING, NUMBER ON FARMS, DEC 1 Pigs, Crop	HIL. HD.	51
PIGSC.	PIGS. CROP	MIL.	22
BAGKS	BARROWS AND GILTS, SLAUGHTER	MIL. HD., MIL. LBS.	23
PURAP-77	PORK, PRODUCTION, CARCASS HT.	MIL. LBS.	
PORHT1	PURK, ENDING STOCKS,	MIL. LAS.	25
HOGKS	HOGS, TOTAL SLAUGHTER	MIL. HD.	56
HOGSH	HOGS, MARKET, NUMBER ON FARMS, DEC. 1	MIL. HD.	27
	PURK, TOTAL SUPPLY	MIL. LBS,	
PURCC-77	PURKA CIVILIAN DISAPPEARANCE	MIL. LBS.	29
COMBNUE	PURK, CIVILIAN DISAPPEARANCE Coms, Beef, Number on Farms, Jan 1	MIL. HD.	30
COMSNMC	CONS, DATRY, NUMBER ON FARMS, JAN 1	MIL. LBS. HIL. HD. HIL. HD. HIL. HD.	85
CALSC	CALVES, NUMBER BORN	MIL. HD.	31
CALDD	CALVES. DEATH LOSS	MIL. HD. Pergent Mil. HD.	32
CORPTOR	CALVES, DEATH LOSS CURN, PROGRAM PARTICIPATION RATE	PERCENT	187
CALKS	CALVES, SLAUGHTER	MIL. HD.	33
VEAAT	VEAL. COMMERCIAL PRODUCTION, CARCASS WEIGHT	MIL. LBS.	.34
VEAIR		1967=1.0	35
CALPE	VEAL, RETAIL PRICE INDEX CALVES, AVERAGE PRICE RECEIVED BY FARMERS	S/CWT.	-36
HEISABE	REFE. HETEERS ADDED TO BREEDING HERD	MIL. HD.	37
COHKSNF	COMS. BEEF. NON-FED SLAUGHTER	MIL. HD.	38
CONKSMC	COMS. DATRY. SI AUGHTER	MIL. HD.	86
SAHKS	REFE. STEER AND HEIFER SLAUGHTER	MIL. HD.	39
SAHKSFD	BEFF. STEER AND HEIFER. FED. SLAUGHTER	MIL. HD.	40
CATKSHF	BEEF, NON-FED CATILE SLAUGHTER	MIL. HD.	41
BEEAPFO	BEFF. FED. PRUDUCTION	Mil. LBS.	42
REEAPNE	BEEF, FED, PRUDUCTION BEEF, NON-FLD, PRODUCTION	MIL. LBS,	43
BEEAP	BEEF, TOTAL PRODUCTION	HIL. LBS.	44
	BEEF, TOTAL SUPPLY	MIL. LRS,	45
OCEAS 1 OFFCT	BEEF, NON-FED CATILE SLAUGHTER BEEF, FED, PRUDUCTION BEEF, NON-FED, PRODUCTION BEEF, TOTAL PRODUCTION BEEF, TOTAL SUPPLY BEEF, CIVILIAN DISAPPEARANCE BEEF, CONSUMPTION PER CAPITA BEEF, AVERAGE WEIGHT, FED SLAUGHTER BEEF, AVERAGE WEIGHT, NON-FED SLAUGHTER BEEF, RETAIL PRICE INDEX	MIL. LPS.	46
1. DEEC1	BEEF, CIVILIAN DISAPPEARANCE BEEF, CONSUMPTION PER CAPITA BEEF, AVERAGE WEIGHT, FED SLAUGHTER	LBS.	. 47
J 055.65	DEEE. AVECAGE WEIGHT. FFD SI AUGHTER	LBS.	48
T CATRARD	HEEF, AVERAGE WEIGHT, NON-FED SLAUGHTER	LBS.	49
7 CATKANF B BEEIR	BEEF, RETAIL PRICE INDEX	1967=1.0	50

-1
L
\overline{c}
$\overline{}$

NUHB	ER & NAME	DESCRIPTION CATILE, PRICE, SLAUGHTER STEERS, UMAHA RLEF, PRICE, CHOICE, CATTLE, KANSAS CITY REEF, UTILITY COW PRICE, OMAHA BEEF, ENDING STOCKS CHICKENS, OTHER, PRODUCTION CHICKENS, YOUNG, PRODUCTION CHICKENS, YOUNG, ENDING STOCKS CHICKENS, OTHER, ENDING STOCKS CHICKENS, OTHER, ENDING STOCKS CHICKENS, OTHER, FOTAL SUPPLY CHICKENS, OTHER, TOTAL SUPPLY CHICKENS, OTHER, TOTAL SUPPLY CHICKENS, OTHER, TOTAL SUPPLY CHICKENS, OTHER, CIVILIAN DISAPPEARANCE CHICKENS, FRYING, RETAIL PRICE INDEX CHICKENS, FRYING, RETAIL PRICE INDEX CHICKENS, PRODUCTION TURKEY, PRODUCTION TURKEY, PRODUCTION TURKEY, ENDING STOCKS TURKEY, TOTAL SUPPLY TURKEY, TOTAL SUPPLY TURKEY, TOTAL SUPPLY TURKEY, CIVILIAN DISAPPEARANCE TURKEYS, AVERAGE PRICE RECEIVED BY FARMERS CHICKENS, LAYERS, NUMBER ON FARMS EGGS, USED FOR HATCHING EGGS, PRODUCTION EGGS, PRODUCTION EGGS, ENDING STOCKS EGGS, TOTAL BUPPLY EGGS, CIVILIAN DISAPPEARANCE EGGS, RETAIL PRICE INDEX EGGS, AVERAGE PRICE RECEIVED BY FARMERS EGGS, AVERAGE PRICE RECEIVED BY FARMERS EGGS, LARGE GRADE A, RETAIL PRICE SUYBEANS, CCC ENDING STOCKS CROPS, DEFICIENCY PAYMENTS	UNITS	PAGE
t o	CATREED	CATTLE, PRICE, SLAUGHTER STEERS, UHAHA_	S/CHT.	51
40	CATPFFE	REEF, PRICE, CHUICE, CATTLE, KANSAS CITY	S/CHT.	52
41	CATPENE	REEF, PRICE, CHOICE, CATTLE, KANSAS CITY REEF, UTILITY COW PRICE, OMAHA	S/CWT.	53
	BEEHT	BEEF, ENDING STOCKS	MIL. LBS.	54
	CHIAPOT	CHICKENS. OTHER. PRODUCTION	MIL. LBS.	55
	CHISPYO .	CHICKENS, YOUNG, PRODUCTION	MIL. LBS.	56
	CHIHTYOI	CHICKENS, YUUNG, ENDING STOCKS	MIL. LAS.	57
	CHIHTOT1	CHICKENS, OTHER, ENDING STOCKS	HIL. LBS.	58
	CHIASYO	CHICKENS, YOUNG, TOTAL SUPPLY	MIL. LRS.	59
	CHIASOT	CHICKENS, OTHER, TOTAL SUPPLY	MIL. LRS.	60
	CHICCYO	CHICKENS, YOUNG, CIVILIAN DISAPPEARANCE	MIL. LBS.	. 61
-	CHICCUT	CHICKENS, OTHER, CIVILIAN DISAPPEARANCE	MIL. LRS.	62
•	CHIIRFR	CHICKENS, FRYING, RETAIL PRICE INDEX	1967=1.0	63
	CHIPR	CHICKENS. RETAIL PRICE	CENTS/LB,	64
	CHIPHBRAC	CHICKENS. 9-CITY WHOLERALE PRICE	CENTS/LB.	65
	CHIPWXB	CHICKENS NUMBROTLER HOOLESALE PRICE	CENTS/LB.	66
-	TURAP	TURKEY. PRODUCTION	MIL. LRS.	67
	TURHT1	TURKEY, FADING STOCKS	MIL. LBS.	68
	TURAS	TIRKEY TOTAL SUPPLY	MIL. LRS.	69
	TURCC	TURKEY, CIVILIAN DISAPPEARANCE	MIL. LRS,	70
	TURPR	THOREY, DETAIL PRICE	CENTS/LB,	71
	TURPF	TURKEY, RETAIL PRICE TURKEYS, AVERAGE PRICE RECEIVED BY FARMERS CHICKENS, LAYERS, NUMBER ON FARMS	CENTS/LB.	72.
-	CHISVLA	CHICKENS, LAYERS, NUMBER ON FARMS	MIL. HO.	73
	EGGBB	EGGS. USED FOR HATCHING	HIL. DOZ.	74
	EGGAP	ECGS. PRODUCTION	MIL. DOZ.	75
-	EGGHT	EGGS. FNDING STOCKS	MIL. DOZ,	76
	EGGAB	EGGC. TOTAL RUPPLY	MIL. DOZ.	77
	EGGCC	EGGS. CIVILIAN DISAPPEARANCE	MIL. DOZ.	78
	EGGIR.67	EGGS. BETAIL PRICE INDEX	1967=1.0	79
-	EGGPF	EGGS, RETAIL PRICE INDEX EGGS, AVERAGE PRICE RECEIVED BY FARMERS	CENTS/DUZ.	80
	EGGPRAL	EGGS. LARGE GHADE A. RETAIL DRICE	CEN19/DUZ.	81
		SUYBEANS, CCC ENDING STOCKS	HIL. BU.	135
	SUYHH CKOFP	CROPS, DEFICIENCY PAYMENTS	HIL. DOL.	308
		HILK, FED TO CALVES	RIL. LAS.	87
	MILÉC	MILK, TOTAL PRODUCTION	HIL. LAS.	88.
	HILAP	HILK, SULD TO PLANTS, AVERAGE WHOLESALE PRICE	S/CHT.	89
74	HILPF	RECEIVED BY FARMERS	6, 6,	
75	COMSEMC	CONS, DAIRY, ADDITIONS TO HERD	HIL. HD.	90
	HILIREV	MILK, EVAPORATED, RETAIL PRICE INDEX	1967=1.0	91
	MILIR	MILK, FLUID, RETAIL PRICE INDEX	1967=1.0 1967=1.0	92
	HILIRIC	HILK, ICE CREAM, RETAIL PRICE INDEX	1967=1.0	93
	CURUT	CURN, TUTAL DEMAND	MIL. BU.	188
	BUTIR	BUTTER, RETAIL PRICE INDEX	1967=1,0 .	94
	CHEIRAH	CHEESE, AMERICAN, RETAIL PRICE INDEX	1967=1.0	95
	HILCOFZ	MILK, FROZEN DAIRY PRODUCTS, CIVILIAN DISAPPEARANCE	BIL. LBS	96
	SURHC	SURGHUM, EXPORTS TO ALL IMPORTING REGIONS, EXCEPT PRO	MIL. BII.	215
-		AND U.S.S.R. UCTSEPT.		

NUMBER & MAHE DESCRIPTION ### MILCCEC #### MILK, CUNDERSER AND EVAPORATED, CIVILIAN DISAPPEARANCE #### MILCCEC #### MILK, FLUID PLUS CREAM, CIVILIAN DISAPPEARANCE #### MILCCEC #### MILK, FLUID PLUS CREAM, CIVILIAN DISAPPEARANCE #### MILL LBS, #### BUTCC #### MILSPEC #### MILK, FROZEN PRODUCTION ##### MILL LBS, ##### MILSPEC ##### MILL LBS, ##### MILSPEC ##### MILL LBS, ####################################	97 98 99 100 101 102 103 104 351
## NILCERC HILK, FLUID PLIS CREAM, CIVILIAN DISAPPEARANCE RIL. LBS, BT CHESTS, CIVILIAN DISAPPEARANCE RIL. LBS, BTUTC RUTTER, CIVILIAN DISAPPEARANCE RIL. LBS, BUTCC RUTTER, CIVILIAN DISAPPEARANCE RIL. LBS, BIL. LBS, BY MILSPEC EVAPORATED AND CONDENSED HILK PHODUCTION BIL. LBS, OF CHEST CONDENSED HILK PRODUCTION RIL. LBS, DIAMETER CONDENSE RUTTER CONDEN	99 100 101 102 103 104 -351
87 CHECT CHEESE, CIVILIAN DISAPPEARANCE 88 HILSPEC BYAPORATED AND CONDENSED HILK PHODUCTION 89 HILSPEZ MILK, FROZEN PRODUCTION 81 L. LRS, 89 HILSPEZ MILK, FROZEN PRODUCTION 81 L. LRS, 91 DARCPI DATRY, RETAIL PRIDE INDEX 91 DARCPI DATRY, RETAIL PRIDE INDEX 92 LIVIF LIVESTOCK, MARKET PRICE INDEX 93 LIVIF LIVESTOCK, MARKET PRICE INDEX 94 LIVIR HEAT, RETAIL PRICE INDEX 95 GCAU* GRAIN CONSUMING ANIMAL UNITS 96 SUYHX SUYBEANS, EAPGRTS 97 SUYHT SUYBEANS, TUTAL ENDING STOCKS 98 SUYSC SUYBEANS, OUABLITY CRUSHED, OCTSEPT. 99 SUNSP* SOYBEAN HEAL, PRODUCTION, OCTSEPT. 99 SUNSP* SOYBEAN HEAL, PRODUCTION, OCTSEPT. 101 SUHHX* SUYBEAN BALD DHESTIC DISAPPEARANCE 102 SOMPF SOYBEAN HEAL, EXPURTS, OCTSEPT. 103 SOOSP SOYBEAN HEAL, PRODUCTION 104 SOODT SOYBEAN OIL, PRICE 105 SOODD SUYBEAN OIL, PRICE 106 SOODD SUYBEAN OIL, PRICE 107 SOYPH SOYBEAN OIL, PRICE, SIYBEAN OIL, PRICE, SOODD MIL. LRS, 106 SOODD SUYBEAN OIL, PRICE, SIYBEAN OIL, PRICE, SOODD MIL. LRS, 107 SOYPH SOYBEAN OIL, PRICE, SIYBELON, ILL. PTS. 108 SOYPE SOYBEAN OIL, PRICE, SIYBELON, ILL. PTS. 109 SORPICP SOYGHUM, PRUGRAM PARTICIPATION RATE 100 CORNHUN SURGHUM, CCC STOCKS, REGINNING OF CROP YEAR 111 SORPHUN SURGHAM, ACCC STOCKS, BEGINNING OF CROP YEAR 112 OATHHIAJH OATS, CCC STOCKS, END OF CROP YEAR 113 SORPH SORGHUM, TOTAL ENDING STOCKS 114 BU. 115 SORPHT CORN, TOTAL ENDING STOCKS 116 OATHTIAJH OATS, TOTAL ENDING STOCKS 117 BU. 118 SORPHT SORGHUM, TOTAL ENDING STOCKS 119 BU. 110 OATHTIAJH OATS, TOTAL ENDING STOCKS 111 BU. 111 SORPHT CORN, TOTAL ENDING STOCKS 111 BU. 112 OATHTIAJH OATS, TOTAL ENDING STOCKS 114 BU. 115 SORPHT CORN, TOTAL ENDING STOCKS 116 BU. 117 SORPHT CORN, TOTAL ENDING STOCKS 117 BU. 118 SORPHT CORN, TOTAL ENDING STOCKS 119 BU. 111 BU. 111 BURNHUN SURGHUM, TOTAL ENDING STOCKS 111 BU. 112 BOATHTIAJH OATS, TOTAL ENDING STOCKS 114 BU. 115 SORPHT CORN, TOTAL ENDING STOCKS 115 BU. 116 OATHTIAJH OATS, TOTAL ENDING STOCKS 117 BURNHUN SURGHUM, TOTAL ENDING STOCKS 118 BU. 119 OATHTIAJH OATS, TOTAL ENDING STOCKS 119 BURNHUN SURGHUM, TOTAL ENDING STOCKS 1	100 101 102 103 104 -351 352
87 BUTCC 80 HILSPEC 87 BUTCC 88 HILSPEC 89 HILSPEC 89 HILSPEC 89 HILSPEC 80 HILSPEC 80 HILSPEC 80 HILSPEC 80 HILSPEC 81 LESS 81 HILSPEC 81 HILSPEC 81 LESS 81 HILSPEC 81 LESS 81 HILSPEC 82 LIVIF 10 ARCPI 11 BULL BB. 11 BU	101 102 103 104 351 352
BY HILSPEC EVAPORATED AND CONDENSED HILK PRODUCTION BY HILSPFZ MILK, FROZEN PRODUCTION BIL. LRS. BY HILSPFZ MILK, FROZEN PRODUCTION CHESP CHESSE, TUTAL PRODUCTION DIARCPI DAIRY, RETAIL PRICE INDEX LIVIF LIVESTOCK, HARKET PRICE INDEX LIVIF LIVESTOCK, UNIPUT INDEX LIVIF LIVESTOCK, UNIPUT INDEX LIVIF LIVESTOCK, UNIPUT INDEX LIVIF LIVESTOCK, UNIPUT INDEX GRAIN CONSINTING ANTHAL UNITS MILL BU. SUYHX SUYBEANS, EAPGRTS SUYHX SUYBEANS, EAPGRTS MILL BU. SUYHX SUYBEANS, TUTAL ENDING STOCKS SUYBEANS, UNABEANS, UNIFICE COT.—SEPT. MILL BU. SUYSC SUYBEANS, UNIFICE DISAPPEARANCE MILL LRS. MILL LRS. MILL BU. MILL LRS. MILL LRS. MILL BU. MILL LRS. MILL LRS. MILL BU. MILL LRS. MILL LRS. MILL LRS. MILL BU. MILL LRS. MILL LRS. MILL BU. MILL LRS. MILL LRS. MILL LRS. MILL BU. MILL LRS. MILL LRS. MILL LRS. MILL BU.	102 103 104 -351 352
## ## ## ## ## ## ## ## ## ## ## ## ##	103 104 -351 352
90 CHESP CHESE, TUTAL PRODUCTION 91 DARCPI DAINY, RETAIL PHICE INDEX 92 LIVIF LIVESTOCK, HARKET PRICE INDEX 93 LIVJF LIVESTOCK, UNIPUT INDEX 94 LIVIR HEAT, RETAIL PPICE INDEX 95 GCAU* GRAIN CONSUMTING ANIMAL UNITS 96 SUYMX SUYBEANS, TUTAL ENDING STOCKS 97 SUYHT SUYBEANS, TUTAL ENDING STOCKS 98 SUYSC SUYBEANS, OUANTITY CRUSHED, CCTSEPT. 99 SOMSP* SOYBEAN HEAL, PRODUCTION, OCTSEPT. 100 SOHDD* SOYBEAN HEAL, PRODUCTION, OCTSEPT. 101 SUHMX* SUYBEAN HEAL, DUMESTIC DISAPPEARANCE 102 SOHPF SOYBEAN HEAL, PRICE 103 SOOSP SOYBEAN OIL, PRICE CENTS/LB, 104 SOOHT SOYBEAN OIL, PRODUCTION 105 SOODD SUYBEAN OIL, TOTAL ENDING STOCKS 106 SOODD SUYBEAN OIL, DOMESTIC DEMAND 107 SOYPH SUYBEANS, AVERAGE FARM PRICE, UCTSEPT. 108 SOYPF SUYBEANS, AVERAGE FARM PRICE, UCTSEPT. 109 SORPICP SOUGHUM, PRUGHAM PARTICIPATION RATE 100 SORPH SOYBEAN OIL, CORN, CCC STOCKS, BEGINNING OF CROP YEAR 111 SDRHHUN SURGHUM, CCC STOCKS, REGINNING OF CROP YEAR 112 OATHHISJH OATS, CCC STOCKS, END OF CROP YEAR 113 BARNHISJH OATS, CCC STOCKS, END OF CROP YEAR 114 CORNT CORN, TUTAL ENDING STOCKS 115 SORHT SORGHUM, TOTAL ENDING STOCKS 116 OATHTBJH OATS, TOTAL ENDING STOCKS 117 SORHT SORGHUM, TOTAL ENDING STOCKS 118 OATHTBJH OATS, TOTAL ENDING STOCKS 119 SORHT SORGHUM, TOTAL ENDING STOCKS 110 OATHTBJH OATS, TOTAL ENDING STOCKS 111 OATHTBJH OATS, TOTAL ENDING STOCKS 111 OATHTBJH OATS, TOTAL ENDING STOCKS 112 OATHTBJH OATS, TOTAL ENDING STOCKS 113 DATHTBJH OATS, TOTAL ENDING STOCKS 114 CORNT SORGHUM, TOTAL ENDING STOCKS 115 OATHTBJH OATS, TOTAL ENDING STOCKS 116 OATHTBJH OATS, TOTAL ENDING STOCKS 117 CORNT SORGHUM, TOTAL ENDING STOCKS 118 CORNT SORGHUM, TOTAL ENDING STOCKS 119 CATHTBJH OATS, TOTAL ENDING STOCKS 110 OATHTBJH OATS, TOTAL ENDING STOCKS	104 -351 -352
91 DARCPI DAINY, RETAIL PRICE INDEX 92 LIVIF LIVESTOCK, HARKET PRICE INDEX 93 LIVIF LIVESTOCK, DUIPDUT INDEX 94 LIVIR MEAT, RETAIL PRICE INDEX 95 GCAU* GRAIN CONSUMING ANIMAL UNITS 96 GCAU* GRAIN CONSUMING ANIMAL UNITS 97 SUYHT SUYBEANS, TUTAL ENDING STOCKS 98 SUYYSC SUYBEANS, OUANTITY CRUSHED, OCTSEPT. 99 SUMSD* SOYBEAN HEAL, PRODUCTION, OCTSEPT. 100 SOMDD* SOYBEAN HEAL, PRICE HILL BIS, 101 SUMHX* SUYBEAN HEAL, DUMESTIC DISAPPEARANCE 101 SUMHX* SUYBEAN HEAL, PRICE 102 SOMPF SOYBEAN HEAL, PRICE 103 SOOSP SOYBEAN OIL, PRODUCTION 104 SOOTH SOYBEAN HEAL, PRICE 105 SOODD SUYBEAN OIL, TOTAL ENDING STOCKS 106 SOODD SUYBEAN OIL, DOMESTIC DEMAND 107 SOVPH SOYBEAN OIL, DOMESTIC DEMAND 108 SOYPF SOYBEAN OIL, PRICE 107 SOVPH SOYBEAN OIL, PRICE, #1 YELLOH, ILL_PTS. 108 SOYPF SOYBEAN OIL, PRICE, #1 YELLOH, ILL_PTS. 109 SORPICP SORGHUM, PRUGHAM PARTICIPATION RATE 100 CORNHUN CORN, CCC STOCKS, REGINNING OF CROP YEAR 111 SORHHUN SURGHUM, PRUGHAM PARTICIPATION RATE 112 OATHHI*JH OATS, CCC STOCKS, BEGINNING OF CROP YEAR 113 BARHHI*JH BARLEY, CCC STOCKS, END OF CROP YEAR 114 CORNT CORN, TUTAL ENDING STOCKS 115 SORHT SORGHUM, TOTAL ENDING STOCKS 116 OATHT#JH OATS, TOTAL ENDING STOCKS 117 SORHT SORGHUM, TOTAL ENDING STOCKS 118 SORHT SORGHUM, TOTAL ENDING STOCKS 119 SORHT SORGHUM, TOTAL ENDING STOCKS 110 OATHT#JH OATS, TOTAL ENDING STOCKS 111 DOATHT#JH OATS, TOTAL ENDING STOCKS 115 OATHT#JH OATS, TOTAL ENDING STOCKS 116 OATHT#JH OATS, TOTAL ENDING STOCKS 117 SORHT SORGHUM, TOTAL ENDING STOCKS 118 OATHT#JH OATS, TOTAL ENDING STOCKS 119 SOR	-351 352
92 LIVIF LIVESTOCK, MARKET PRICE INDEX 93 LIVJF LIVESTOCK, UITPUT INDEX 94 LIVIR HEAT, RETAIL PRICE INDEX 95 GCAU* GRAIN CONSURING ANIMAL UNITS 96 SUYHX SUYBEANS, FAPGRTS 97 SUYHX SUYBEANS, TUTAL ENDING STOCKS 98 SUYSC SUYBEANS, OUANTITY CRUSHED, OCTSEPT. 99 SUNSP* SOYBEAN HEAL, PRODUCTION, OCTSEPT. 100 SOMDD* SUYBEAN HEAL, PRODUCTION, OCTSEPT. 101 SUHHX* SUYBEAN HEAL, PRICE 101 SUHHX* SUYBEAN MEAL, EXPURTS, OCTSEPT. 102 SOMPF SUYBEAN MEAL, EXPURTS, OCTSEPT. 103 SOOSP SOYBEAN HEAL, PRICE 104 SOORT SUYBEAN OIL, PRODUCTION 105 SOODD SUYBEAN OIL, FRICE 106 SOOPH SOYBEAN OIL, TOTAL ENDING STOCKS 106 SOOPH SOYBEAN OIL, DOMESTIC DEMAND 107 SOYPH SOYBEAN OIL, DOMESTIC DEMAND 108 SOYPF SUYBEAN OIL, PRICE, #1 YELLOM, ILL_PIS. 109 SORPTICP SORGHUM, PRICE, #1 YELLOM, ILL_PIS. 109 SORPTICP SORGHUM, PRICE, #1 YELLOM, TATE 100 SORPTICP SORGHUM, CCC STOCKS, BEGINNING OF CROP YEAR 110 CORNHUN CORN, CCC STOCKS, BEGINNING OF CROP YEAR 111 SURRHHUN SURGHUM, CCC STOCKS, BEGINNING OF CROP YEAR 112 OATHHI*JM OATS, CCC STOCKS, BEGINNING OF CROP YEAR 113 BARHHI*JM BARLEY, CCC STOCKS, BEGINNING OF CROP YEAR 114 CORHT CORN, TOTAL ENDING STOCKS 115 SORRT SORGHUM, TOTAL ENDING STOCKS 116 OATHT*JH OATS, TOTAL ENDING STOCKS 117 SORGHUM, TOTAL ENDING STOCKS 118 SORRT SORGHUM, TOTAL ENDING STOCKS 119 SORRT SORGHUM, TOTAL ENDING STOCKS 110 OATHT*JH OATS, TOTAL ENDING STOCKS 111 SORRHT SORGHUM, TOTAL ENDING STOCKS 112 OATHT*JH OATS, TOTAL ENDING STOCKS 114 OATHT*JH OATS, TOTAL ENDING STOCKS 115 OATHT*JH OATS, TOTAL ENDING STOCKS 116 OATHT*JH OATS, TOTAL ENDING STOCKS	352
93 LIVJF LIVESTOCK, OUTPUT INDEX 94 LIVIR MEAT, RETAIL PPICE INDEX 95 GCAU* GRAIN CONSUMING ANIMAL UNITS 95 GCAU* SUYBEANG, EXPURTS 97 SUYHT SUYBEANG, EXPURTS 98 SUYSC SUYBEANG, OUANTITY CRUSHED, OCTSEPT. 99 SUYSC SUYBEANS, OUANTITY CRUSHED, OCTSEPT. 100 SOMDD* SOYBEAN MEAL, PRODUCTION, OCTSEPT. 101 SUHHX* SUYBEAN MEAL, DOMESTIC DISAPPEARANCE 102 SOMPF SOYBEAN MEAL, EXPURTS, OCTSEPT. 103 SOOSP SOYBEAN MEAL, PRICE 104 SOURT SOYBEAN OIL, PRODUCTION 105 SOODD SUYBEAN OIL, PRODUCTION 106 SOODT SOYBEAN OIL, PRODUCTION 107 SOODH SOYBEAN OIL, PRICE 107 SOYDH SOYBEAN OIL, PRICE 108 SOYPH SOYBEAN, MARRET PRICE, MI YELLOH, ILL. PTS. 109 SORPTCP SORGHUM, PRUGRAM PARTICIPATION RATE 109 SORPTCP SORGHUM, PRUGRAM PARTICIPATION RATE 110 CORNHUN CORN, CCC STOCKS, BEGINNING OF CROP YEAR 111 SORHHUN SURGHUM, CCC STOCKS, BEGINNING OF CROP YEAR 112 OATHHI*JM HARLEY, CCC STOCKS, END OF CROP YEAR 113 BARHHI*JM HARLEY, CCC STOCKS, END OF CROP YEAR 114 CORNT CORN, TUTAL ENDING STOCKS 115 SORPT SORGHUM, TOTAL ENDING STOCKS 116 OATHT*JH OATS, TOTAL ENDING STOCKS 117 BORGHUM, TOTAL ENDING STOCKS 118 BU. 119 SORHT SORGHUM, TOTAL ENDING STOCKS 110 OATHT*JH OATS, TOTAL ENDING STOCKS 1110 OATHT*JH OATS, TOTAL ENDING STOCKS 1110 OATHT*JH OATS, TOTAL ENDING STOCKS 1111 BU. 1111 BU. 1112 DATHT*JH OATS, TOTAL ENDING STOCKS 1113 BORTHT SORGHUM, TOTAL ENDING STOCKS 1114 BU. 115 OATHT*JH OATS, TOTAL ENDING STOCKS 116 OATHT*JH OATS, TOTAL ENDING STOCKS 117 BURGHUM, TOTAL ENDING STOCKS 118 BU. 119 OATHT*JH OATS, TOTAL ENDING STOCKS 110 OATHT*JH OATS, TOTAL ENDING STOCKS 1116 OATHT*JH OATS, TOTAL ENDING STOCKS 1117 BU. 1118 BU. 1119 OATHT*JH OATS, TOTAL ENDING STOCKS 1110 OATHT*JH OATS, TOTAL ENDING STOCKS 1111 BU. 1111 BU.	352 353
194 LIVIR HEAT, RETAIL PPICE INDEX 95 GCAU* GRAIN CONSUMING ANIMAL UNITS 96 SUYHX SUYBEANS, EAPGRTS 97 SUYHT SUYBEANS, TUTAL ENDING STOCKS 98 SUYSC SUYBEANS, OUANTITY CRUSHED, OCTSEPT. 99 SOMSP* SOYBEAN MEAL, PRODUCTION, OCTSEPT. 100 SOMDD* SUYBEAN HEAL, DUMESTIC DISAPPEARANCE 101 SUMMX* SUYBEAN MEAL, PRODUCTION, OCTSEPT. 102 SOMPF SOYBEAN MEAL, PRODUCTION 103 SOOSP SOYBEAN OIL, PRODUCTION 104 SOOPT SOYBEAN OIL, PRODUCTION 105 SOODD SOYBEAN OIL, TOTAL ENDING STOCKS 105 SOODD SUYBEAN OIL, DOMESTIC DEMAND 106 SOOPH SOYBEAN OIL, PRICE 107 SOYPH SOYBEAN OIL, PRICE 108 SOYPH SOYBEAN OIL, PRICE 109 SOOPH SOYBEAN, MARRET PRICE, MI YELLOM, ILL. PTS. 109 SOYPH SOYBEANS, AVENAGE FARM PRICE, UCTSEPT. 109 SOYPF SORGHUM, PRUGRAM PARTICIPATION RATE 110 CORHHUN CORN, CCC STOCKS, REGINNING OF CROP YEAR 111 SURHHUN SURGHUM, PRUGRAM PARTICIPATION RATE 112 OATHHISJM HARLEY, CCC STOCKS, END OF CROP YEAR 113 BARHHISJM HARLEY, CCC STOCKS, END OF CROP YEAR 114 CORHT CONN, TUTAL ENDING STOCKS 115 SORTT SORGHUM, TOTAL ENDING STOCKS 116 OATHT#JM OATS, TOTAL ENDING STOCKS 117 BORGHUM, TOTAL ENDING STOCKS 118 BU. 111 BORTHT#JM OATS, TOTAL ENDING STOCKS 112 OATHT#JM OATS, TOTAL ENDING STOCKS 113 BORTT SORGHUM, TOTAL ENDING STOCKS 114 BU. 115 SORTT SORGHUM, TOTAL ENDING STOCKS 116 OATHT#JM OATS, TOTAL ENDING STOCKS 117 BORTH#JM OATS, TOTAL ENDING STOCKS 118 BU. 119 OATHT#JM OATS, TOTAL ENDING STOCKS 110 OATHT#JM OATS, TOTAL ENDING STOCKS 1110 OATHT#JM OATS, TOTAL ENDING STOCKS 1111 BU. 1111 BURHHING OATS, TOTAL ENDING STOCKS 1111 BURHHING OATS, TOTAL ENDING STOC	161
95 GCAU* GRAIN CONSUMING ANIMAL UNITS 96 SUYHX SUYBEANS, EAPGRIS MIL. BU. 97 SUYHT SUYBEANS, TUTAL ENDING STOCKS MIL. BU. 98 SUYSC SUYBEANS, OUANTITY CRUSHEU, OCTSEPT. MIL. BU. 99 SOMSP# SOYBEAN MEAL, PRODUCTION, OCTSEPT. MIL. LAS, 100 SOMDD# SOYBEAN MEAL, DOMESTIC DISAPPEARANCE MIL. LAS, 101 SUMMX# SUYBEAN MEAL, EXPORTS, OCTSEPT. MIL. LAS, 102 SUMPF SOYBEAN MEAL, PRICE CENTS/LB, 103 SOOSP SOYBEAN OIL, PRODUCTION MIL. LAS, 104 SOOHT SOYBEAN OIL, PRODUCTION MIL. LAS, 105 SOODD SUYBEAN OIL, DOMESTIC DEMAND MIL. LAS, 106 SOOPH SOYBEAN OIL, PRICE CENTS/LB. 107 SOYPH SOYBEANS, ARNET PRICE, #1 YELLOH, ILL. PTS. 108 SOYPF SOYBEANS, AVENAGE FARM PRICE, OCTSEPT. S/BU. 109 SORPICP SURGHUM, PRUGHAM PARTICIPATION RATE 110 CORHHUN SURGHUM, CCC STOCKS, BEGINNING OF CROP YEAR MIL. BU. 111 SORHHUN SURGHUM, CCC STOCKS, BEGINNING OF CROP YEAR MIL. BU. 112 OATHHIAJM OATS, CCC STOCKS, END OF CROP YEAR MIL. BU. 113 BARHHI*JM HARLEY, CCC STOCKS, END OF CROP YEAR MIL. BU. 114 CORHT CORN, TUTAL ENDING STOCKS MIL. BU. 115 SORHT SORGHUM, TOTAL ENDING STOCKS MIL. BU. 116 OATHT#JH OATS, TOTAL ENDING STOCKS MIL. BU. 117 SORHT SORGHUM, TOTAL ENDING STOCKS MIL. BU. 118 OATHT#JH OATS, TOTAL ENDING STOCKS MIL. BU.	ت ر ت
96 SUYHX SUYBEANS, EXPGRTS 97 SUYHT SUYBEANS, TUTAL ENDING STOCKS 98 SUYSC SUYBEANS, GUANTITY CRUSHED, OCTSEPT. 99 SONSP# SOYBEAN MEAL, PRUDUCTION, OCTSEPT. 100 SOMDD* SOYBEAN MEAL, PRUDUCTION, OCTSEPT. 101 BUHHX# SUYBEAN MEAL, EXPORTS, OCTSEPT. 102 SOMPF SOYBEAN MEAL, EXPORTS, OCTSEPT. 103 SOOSP SOYBEAN OIL, PRODUCTION 104 SODHT SOYBEAN OIL, PRODUCTION 105 SOODD SUYBEAN OIL, PRODUCTION 106 SOOPH SOYBEAN OIL, DOMESTIC DEMAND 107 SOOPH SOYBEAN OIL, DOMESTIC DEMAND 108 SOYPF SOYBEAN OIL, PRICE 107 SOYPH SOYBEANS, MARKET PRICE, #1 YELLOH, ILL. PTS. 108 SOYPF SOYBEANS, MARKET PRICE, #1 YELLOH, ILL. PTS. 109 SORPICP SORGHUM, PRUGNAM PARTICIPATION RATE 109 SORPICP SORGHUM, PRUGNAM PARTICIPATION RATE 110 CORNHUN CORN, CCC STOCKS, BEGINNING OF CROP YEAR 111 SORNHUN SURGHUM, CCC STOCKS, BEGINNING OF CROP YEAR 112 OATHHIAJH DATS, CCC STOCKS, END OF CROP YEAR 113 BARHHHUM BARLEY, CCC STOCKS, END OF CROP YEAR 114 CORNT CORN, TUTAL ENDING STOCKS 115 SORHT SORGHUM, TOTAL ENDING STOCKS 116 OATHT#JH DATS, TOTAL ENDING STOCKS 117 OATHT#JH DATS, TOTAL ENDING STOCKS 118 BU. 119 OATHT#JH DATS, TOTAL ENDING STOCKS 110 OATHT#JH DATS, TOTAL ENDING STOCKS 111 BU. 112 OATHT#JH DATS, TOTAL ENDING STOCKS 113 BU. 114 OATHT#JH DATS, TOTAL ENDING STOCKS 115 BU. 116 OATHT#JH DATS, TOTAL ENDING STOCKS 117 BU. 118 BU. 119 OATHT#JH DATS, TOTAL ENDING STOCKS 110 DATHT#JH DATS, TOTAL ENDING STOCKS 111 BU.	8 268
97 SUYHT SUYBEANS, TUTAL ENDING STOCKS 98 SUYSC SUYBEANS, QUANTITY CRUSHED, QCTSEPT. 99 SUNSP# SOYBEAN MEAL, PRUDUCTION, QCTSEPT. 100 SOMDD# SOYBEAN MEAL, DUMESTIC DISAPPEARANCE 101 SUMMX# SUYBEAN MEAL, EXPURTS, QCTSEPT. 102 SUMPF SOYBEAN MEAL, EXPURTS, QCTSEPT. 103 SOOSP SOYBEAN OIL, PRODUCTION 104 SOOHT SOYBEAN OIL, PRODUCTION 105 SOODD SUYBEAN OIL, DOMESTIC DEMAND 105 SOODH SOYBEAN OIL, PRICE 107 SOYPH SOYBEAN, MARRET PRICE,#1 YELLOH, ILL. PTS. 108 SOYPF SUYBEANS, AVERAGE FARM PRICE, QCTSEPT. 109 SORPICP SOURGHUM, PRUGRAM PARTICIPATION RATE 109 SORPICP SOURGHUM, PRUGRAM PARTICIPATION RATE 110 CORNHUN CORN, CCC STOCKS, BEGINNING OF CROP YEAR 111 SORHHUN SURGHUM, CCC STOCKS, BEGINNING OF CROP YEAR 112 OATHHI*JM OATS, CCC STOCKS, END OF CROP YEAR 113 BARHHI*JH HARLEY, CCC STOCKS, END OF CROP YEAR 114 CORHT CORN, TUTAL ENDING STOCKS 115 SORHT SORGHUM, TOTAL ENDING STOCKS 116 OATHT#JH OATS, TOTAL ENDING STOCKS 117 BORTHMUN TOTAL ENDING STOCKS 118 BUSHIT#JH OATS, TOTAL ENDING STOCKS 119 OATHT#JH OATS, TOTAL ENDING STOCKS 110 OATHT#JH OATS, TOTAL ENDING STOCKS 111 BUSHIT#JH OATS, TOTAL ENDING STOCKS 111 BUSHIT#JH OATS, TOTAL ENDING STOCKS 112 OATHT#JH OATS, TOTAL ENDING STOCKS 113 BORHT#JH OATS, TOTAL ENDING STOCKS 114 BUSHIT#JH OATS, TOTAL ENDING STOCKS 115 OATHT#JH OATS, TOTAL ENDING STOCKS 116 OATHT#JH OATS, TOTAL ENDING STOCKS	136
98 SUYSC 99 SOMSP* SOYBEAN MEAL, PRUDUCTION, OCT.=SEPT. 100 SOMDD* SOYBEAN MEAL, PRUDUCTION, OCT.=SEPT. 101 BUMMX* SOYBEAN MEAL, DUMESTIC DTSAPPEARANCE 102 SOMPF SOYBEAN MEAL, EXPORTS, OCT.=SEPT. 103 SOOSP SOYBEAN MEAL, PRICE 104 SOOHT SOYBEAN OIL, PRODUCTION 105 SOODD SUYBEAN OIL, TOTAL ENDING STOCKS 106 SOOPH SOYBEAN OIL, DOMESTIC DEMAND 107 SOYPH SOYBEAN OIL, PRICE 107 SOYPH SOYBEAN, MARNET PRICE, #1 YELLOW, ILL. PTS. 108 SOYPF SOYBEANS, AVENAGE FARM PRICE, UCT.=SEPT! 109 SORPICP SOURGHUM, PRUGHAM PARTICIPATION RATE 110 CORNHUN CORN, CCC STOCKS, BEGINNING OF CROP YEAR 111 SORNHUN SURGHUM, CCC STOCKS, BEGINNING OF CROP YEAR 112 OATHHI*JM OATS, CCC STOCKS, END OF CROP YEAR 113 BARHHI*JM OATS, CCC STOCKS, END OF CROP YEAR 114 CORNT 115 SORTT SORGHUM, TOTAL ENDING STOCKS 116 OATHT*JH OATS, TOTAL ENDING STOCKS 117 OATHT*JH OATS, TOTAL ENDING STOCKS 118 OATHT*JH OATS, TOTAL ENDING STOCKS 119 OATHT*JH OATS, TOTAL ENDING STOCKS 110 OATHT*JH OATS, TOTAL ENDING STOCKS 111 OATHT*JH OATS, TOTAL ENDING STOCKS 112 OATHT*JH OATS, TOTAL ENDING STOCKS 114 OATHT*JH OATS, TOTAL ENDING STOCKS 115 OATHT*JH OATS, TOTAL ENDING STOCKS 116 OATHT*JH OATS, TOTAL ENDING STOCKS 117 OATHT*JH OATS, TOTAL ENDING STOCKS 118 OATHT*JH OATS, TOTAL ENDING STOCKS 119 OATHT*JH OATS, TOTAL ENDING STOCKS 110 OATHT*JH OATS, TOTAL ENDING STOCKS 111 OATHT*JH OATS, TOTAL ENDING STOCKS	137
99 SONSP# SOYBEAN MEAL, PRUDUCTION, OCT.=SEPT. 100 SOHDD# SOYBEAN MEAL, DUMESTIC DTSAPPEARANCE HIL. LRS, 101 BUHMX# SOYBEAN MEAL, EXPORTS, OCT.=SEPT. 102 SOMPF SOYBEAN MEAL, PRICE CENTS/LB, 103 SOOSP SOYBEAN OIL, PRODUCTION MIL. LRS, 104 SOOHT SOYBEAN OIL, TOTAL ENDING STOCKS HIL. LRS, 105 SOODD SOYBEAN OIL, PRICE CENTS/LB, 106 SOOPH SOYBEAN OIL, PRICE CENTS/LB, 107 SOYPH SOYBEANS, MARRET PRICE, #1 YELLOH, ILL. PTS. 108 SOYPF SOYBEANS, AVEHAGE FARM PRICE, OCT.=SEPT! S/BU. 109 SORPICP SORGHUM, PRUGHAM PARTICIPATION RATE PERCENT 110 CORHHUN CORN, CCC STOCKS, REGINNING OF CROP YEAR MIL. BU. 111 SORHHUN SORGHUM, CCC STOCKS, BEGINNING OF CROP YEAR MIL. BU. 112 OATHH1*JH OATS, CCC STOCKS, END OF CROP YEAR MIL. BU. 113 BARHH1*JH BARLEY, CCC STOCKS, END OF CROP YEAR MIL. BU. 114 CORHT CORN, TUTAL ENDING STOCKS MEGINNING OF CROP YEAR MIL. BU. 115 SORHT SORGHUM, TOTAL ENDING STOCKS MIL. BU. 116 OATHT*JH OATS, TOTAL ENDING STOCKS	138
100 SOMDD* SOYBEAN MEAL, DOMESTIC DISAPPEARANCE 101 SUMMX* SOYBEAN MEAL, EXPORTS, OCT.=SEPT. 102 SOMPF SOYBEAN MEAL, PRICE 103 SOOSP SOYBEAN OIL, PRODUCTION 104 SOOHT SOYBEAN OIL, TOTAL ENDING STOCKS 105 SOODD SUYBEAN OIL, DOMESTIC DEMAND 106 SOOPH SOYBEAN OIL, PRICE 107 SOYPH SOYBEAN, MARKET PRICE,*1 YELLOW, ILL. PTS. 108 SOYPF SOYBEANS, AVENAGE FARM PRICE, UCT.=SEPT. 109 SORPICP SORGHUM, PRUGHAM PARTICIPATION RATE 110 CORHHUN CORN, CCC STOCKS, BEGINNING OF CROP YEAR 111 SORHHUN SURGHUM, CCC STOCKS, BEGINNING OF CROP YEAR 112 DATHHI*JH GATS, CCC STOCKS, END OF CROP YEAR 113 BARHHI*JH BARLEY, CCC STOCKS, END OF CROP YEAR 114 CORHT CORN, TUTAL ENDING STOCKS 115 SORHT SORGHUM, TOTAL ENDING STOCKS MIL. BU. 116 DATHT*JH GATS, TOTAL ENDING STOCKS MIL. BU.	139
101 SUHHX# SUYBEAN MEAL, EXPURTS, OCT.=SEPT. 102 SUMPF SUYBEAN MEAL, PRICE 103 SOOSP SUYBEAN OIL, PRODUCTION MIL. LRS, 104 SOUNT SUYBEAN OIL, TOTAL ENDING STOCKS MIL. LRS, 105 SOUND SUYBEAN OIL, DOMESTIC DEMAND MIL. LRS, 106 SOUPH SUYBEAN OIL, PRICE CENTS/LB. 107 SUYPH SUYBEANS, MARRET PRICE,#1 YELLOW, ILL. PTS. 108 SUYPF SUYBEANS, AVEHAGE FARM PRICE, UCT.=SEPT. S/BU. 109 SURPICP SURGHUM, PRUGHAM PARTICIPATION RATE PERCENT 110 CORIHUN CORN, CCC STOCKS, REGINNING OF CROP YEAR MIL. BU. 111 SURHHUN SURGHUM, CCC STOCKS, EBGINNING OF CROP YEAR MIL. BU. 112 OATHH1*JM DATS, CCC STOCKS, END OF CROP YEAR MIL. BU. 113 BARHH1*JM RARLEY, CCC STOCKS, EBGINNING UF CROP YEAR MIL. BU. 114 CORHT CORN, TUTAL ENDING STOCKS, BEGINNING UF CROP YEAR MIL. BU. 115 SORHT SURGHUM, TOTAL ENDING STOCKS MEGINNING UF CROP YEAR MIL. BU. 116 OATHT*JM OATS, TOTAL ENDING STOCKS	140
102 SUMPF SOYBEAN MEAL, PRICE 103 SOOSP SOYBEAN OIL, PRODUCTION 104 SOOHT SOYBEAN OIL, TOTAL ENDING STOCKS 105 SOODD SUYBEAN OIL, DOMESTIC DEMAND 100 SOOPH SOYBEAN OIL, PRICE 107 SOYPH SOYBEANS, MARKET PRICE,#1 YELLOW, ILL. PTS. 108 SOYPF SOYBEANS, AVENAGE FARM PRICE, UCT. SEPT! 109 SORPICP SOURGHUM, PRUGHAM PARTICIPATION RATE 110 CORHHUN CORN, CCC STOCKS, BEGINNING OF CROP YEAR 111 SORHHUN SURGHUM, CCC STOCKS, BEGINNING OF CROP YEAR 112 OATHHI*JM OATS, CCC STOCKS, END OF CROP YEAR 113 BARHHI*JH BARLEY, CCC STOCKS, END OF CROP YEAR 114 CORHT CORN, TOTAL ENDING STOCKS 115 SORHT SORGHUM, TOTAL ENDING STOCKS 116 OATHT*JH OATS, TOTAL ENDING STOCKS 116 OATHT*JH OATS, TOTAL ENDING STOCKS MIL. BU.	141
103 SOOSP SOYBEAN OIL, PRODUCTION 104 SOOHT SOYBEAN OIL, TOTAL ENDING STOCKS 105 SOODD SUYBEAN OIL, DOMESTIC DEMAND 106 SOOPH SOYBEAN OIL, PRICE 107 SOYPH SOYBEANS, MARKET PRICE, #1 YELLOW, ILL. PTS. 108 SOYPF SOYBEANS, AVERAGE FARM PRICE, UCT. SEPT. 109 SORPICP SORGHUM, PRUGHAM PARTICIPATION RATE 110 CORHHUN CORN, CCC STOCKS, BEGINNING OF CROP YEAR 111 SORHHUN SURGHUM, CCC STOCKS, BEGINNING OF CROP YEAR 112 OATHHI*JH GATS, CCC STOCKS, END OF CROP YEAR 113 BARHHI*JH BARLEY, CCC STOCKS, END OF CROP YEAR 114 CORHT CORN, TUTAL ENDING STOCKS 115 SORHT SORGHUM, TOTAL ENDING STOCKS 116 OATHT*JH GATS, TOTAL ENDING STOCKS MIL. BU. MIL. BU. MIL. LRS, MIL.	142
104 SODHT SOYBEAN OIL, TOTAL ENDING STOCKS 105 600DD SUYBEAN OIL, DOMESTIC DEMAND 106 SOOPH SOYBEAN OIL, PRICE 107 SOYPH SOYBEANS, MARKET PRICE,#1 YELLOH, ILL. PTS. 108 SOYPF SUYBEANS, AVERAGE FARM PRICE, UCT. SEPT! S/BU. 109 SORPICP SORGHUM, PRUGHAM PARTICIPATION RATE 110 CORHHUN CORN, CCC STOCKS, BEGINNING OF CROP YEAR 111 SURHHUN SURGHUM, CCC STOCKS, BEGINNING OF CROP YEAR 112 OATHH1*JH DATS, CCC STOCKS, END OF CROP YEAR 113 BARHH1*JH BARLEY, CCC STOCKS, END OF CROP YEAR 114 CORHT CORN, TUTAL ENDING STOCKS, BEGINNING UF CROP YEAR 115 SORHT SORGHUM, TOTAL ENDING STOCKS 116 OATHT*JH DATS, TOTAL ENDING STOCKS 116 OATHT*JH OATS, TOTAL ENDING STOCKS 117 BORTH*JH DATS, TOTAL ENDING STOCKS 118 BUGHTH*JH DATS, TOTAL ENDING STOCKS 119 OATHT*JH OATS, TOTAL ENDING STOCKS 110 OATHT*JH OATS, TOTAL ENDING STOCKS 111 BUGHTH*JH DATS, TOTAL ENDING STOCKS 111 BUGHTH*JH DATS, TOTAL ENDING STOCKS 112 OATHT*JH OATS, TOTAL ENDING STOCKS	143
105 SOODD SUYBEAN OIL, DOHESTIC DEMAND 106 SOOPH SOYBEAN OIL, PRICE 107 SOYPH SOYBEANS, MARKET PRICE, #1 YELLOH, ILL. PTS. 108 SOYPF SOYBEANS, AVERAGE FARM PRICE, UCT. SEPT! \$/BU. 109 SORPICP SORGHUM, PRUGHAM PARTICIPATION RATE 110 CORHHUN CORN, CCC STOCKS, BEGINNING OF CROP YEAR 111 SORHHUN SURGHUM, CCC STOCKS, BEGINNING OF CROP YEAR 112 OATHHI*JH OATS, CCC STOCKS, END OF CROP YEAR 113 BARHHI*JH BARLEY, CCC STOCKS, END OF CROP YEAR 114 CORHT CORN, TUTAL ENDING STOCKS, BEGINNING UF CROP YEAR 115 SORHT SORGHUM, TOTAL ENDING STOCKS 116 OATHT*JH OATS, TOTAL ENDING STOCKS 116 OATHT*JH OATS, TOTAL ENDING STOCKS 117 OATHT*JH OATS, TOTAL ENDING STOCKS 118 OATHT*JH OATS, TOTAL ENDING STOCKS 119 OATHT*JH OATS, TOTAL ENDING STOCKS 110 OATHT*JH OATS, TOTAL ENDING STOCKS 111 ORTHITALE CORN MILL BU.	144
106 SOOPH SOYBEAN OIL, PRICE 107 SOYPH SOYBEANS, MARKET PRICE, #1 YELLOW, ILL_ PTS. 108 SOYPF SOYBEANS, AVERAGE FARM PRICE, UCT. SEPT! \$/BU. 109 SORPICP SORGHUM, PRUGRAM PARTICIPATION RATE 110 CORHHUN CORN, CCC STOCKS, BEGINNING OF CROP YEAR 111 SORHHUN SURGHUM, CCC STOCKS, BEGINNING OF CROP YEAR 112 OATHH1*JH OATS, CCC STOCKS, END OF CROP YEAR 113 BARHH1*JH BARLEY, CCC STOCKS, END OF CROP YEAR 114 CORHT CORN, TUTAL ENDING STOCKS, BEGINNING UF CROP YEAR 115 SORHT SORGHUM, TOTAL ENDING STOCKS 116 OATHT*JH OATS, TOTAL ENDING STOCKS 117 OATHT*JH OATS, TOTAL ENDING STOCKS 118 OATHT*JH OATS, TOTAL ENDING STOCKS 119 OATHT*JH OATS, TOTAL ENDING STOCKS	145
107 SOYPH 108 SOYPF 108 SOYPF 109 SORPICP 109 SORPICP 110 CORHHUN 111 SORHHUN 112 OATHHI*JH 113 BARHHI*JH 114 CORH 115 SORHT 116 CORH 117 SORHT 118 SORHT 119 SORHUM 110 CORN, CCC STOCKS, BEGINNING OF CROP YEAR 111 OATS, CCC STOCKS, END OF CROP YEAR 112 OATHHI*JH 113 BARHHI*JH 114 CORHT 115 SORHT 116 OATHT*JH 117 SORHT 118 SORHT 119 SORGHUM, TOTAL ENDING STOCKS 110 OATHT*JH 111 SORHT 112 SORHT 113 SORHT 114 CORHT 115 SORHT 116 OATHT*JH 117 SORHT 118 SORGHUM, TOTAL ENDING STOCKS 119 OATS, TOTAL ENDING STOCKS 110 OATHT*JH 111 SORHT 112 SORHT 113 SORHT 114 CORHT 115 SORHT 116 OATHT*JH 117 SORHT 118 SORHT 119 OATS, TOTAL ENDING STOCKS MIL BU.	146
108 SOYPF BOYBEANS, AVERAGE FARM PRICE, UCT. SEPT. \$780. 109 SORPICP BORGHUM, PRUGHAM PARTICIPATION RATE 110 CORHHUN CORN, CCC STOCKS, BEGINNING OF CROP YEAR 111 SORHHUN SURGHUM, CCC STOCKS, BEGINNING OF CROP YEAR 112 OATHHI*JM OATS, CCC STOCKS, END OF CROP YEAR 113 BARHHI*JM BARLEY, CCC STOCKS, END OF CROP YEAR 114 CORHT CORN, TUTAL ENDING STOCKS, BEGINNING OF CROP YEAR 115 SORHT SORGHUM, TOTAL ENDING STOCKS 116 OATHT*JM OATS, TOTAL ENDING STOCKS 117 OATHT*JM OATS, TOTAL ENDING STOCKS 118 OATHT*JM OATS, TOTAL ENDING STOCKS 119 OATHT*JM OATS, TOTAL ENDING STOCKS	147
109 SORPICP 110 CORHUN 110 CORHUN 111 SURHHUN 111 SURHHUN 112 DATHHI*JH 113 BARHHI*JH 114 CORH 115 SORHT 115 SORHT 116 DATHT*JH 117 SORHT 118 SORHT 119 SORHT 119 SORHT 110 CORH 110 CORH 110 CORH 110 CORH 111 SORHT 111 CORH 111 C	148
110 CORHHUN CORN, CCC STOCKS, BEGINNING OF CROP YEAR 111 SURHHUN SURGHUM, CCC STOCKS, BEGINNING OF CROP YEAR 112 DATHHI*JM DATS, CCC STOCKS, END OF CROP YEAR 113 BARHHI*JM BARLEY, CCC STOCKS, END OF CROP YEAR 114 CORHT CORN, TUTAL ENDING STOCKS, BEGINNING OF CROP YEAR 115 SORHT SORGHUM, TOTAL ENDING STOCKS 116 DATHT*JM DATS, TOTAL ENDING STOCKS MIL. BU.	216
111 SURHHUN SURGHUM, CCC STOCKS, BEGINNING OF CROP YEAR 112 DATHHI*JM DATS, CCC STOCKS, END OF CROP YEAR 113 BARHHI*JM BARLEY, CCC STOCKS, END OF CROP YEAR 114 CORHT CORN, TUTAL ENDING STOCKS, BEGINNING OF CROP YEAR 115 SORHT SORGHUM, TOTAL ENDING STOCKS 116 DATHT*JM DATS, TOTAL ENDING STOCKS MIL. BU.	189
112 OATHI#JH OATS, CCC STOCKS, END OF CROP YEAR 113 BARHHI#JH BARLEY, CCC STOCKS, END OF CROP YEAR 114 CORHT CORN, TUTAL ENDING STOCKS, BEGINNING OF CROP YEAR 115 SORHT SORGHUM, TOTAL ENDING STOCKS 116 OATHT#JH OATS, TOTAL ENDING STOCKS MIL. BU.	217
113 BARHHIAJH BARLEY, CCC STOCKS, END OF CROP YEAR 114 CORHT CORN, TUTAL ENDING STOCKS, BEGINNING OF CROP YEAR 115 SORHT SORGHUM, TOTAL ENDING STOCKS 116 OATHT#JH OATS, TOTAL ENDING STOCKS HIL. BU.	269
114 CORHT CORN, TUTAL ENDING STOCKS, BEGINNING OF CROP YEAR 115 SORHT SORGHUM, TOTAL ENDING STOCKS 116 DATHT*JH DATS, TOTAL ENDING STOCKS MIL. BU. MIL. BU.	242
115 SORHT SORGHUM, TOTAL ÉNDING STOCKS MIL. BU. 116 DATHT#JH DATS, TOTAL ENDING STOCKS MIL. BU.	190
116 DATHT#JH DATS, TOTAL ENDING STUCKS	218
Mai Kii	270
117 BARHT#JH BARLEY, TOTAL ENDING STOCKS MIL. BU.	243
118 CORDINA CORDI, FOOD USE, OCT. ASEPT	191
119 OATDHAJH OATS, DOMESTIC FOOD USE, JUNE-MAY HIL. BU.	271
120 BARDH*JM BARLEY, DOMESTIC USE FOR FOUD AND ALC. BEV., JUNE-MAY MIL. BIL. 121 CORMX CORN, TOTAL EXPURTS, OCT.—SEPT. MIL. BIL.	244
121 CORMX CORN, TOTAL EXPURTS, OCTSEPT. HIL. BII.	192
122 SURHX SURGHUM, TOTAL EXPORTS, OCT SEPT. 123 CURUF CORN, FEED USE, OCT SEPT. MIL. BIJ. MIL. BIJ.	219
123 CORUF CORN, FEED USE, OCTSEPT. MIL. BII.	193
119 OATDH*JH DATS, DÜMESTIC FOOD USE, JUNE=MAY 120 BARDH*JM BARLEY, DÜMESTIC USE FOR FOUD AND ALC. BEV., JUNE=MAY 121 CORHX CORN, TOTAL EXPURTS, OCT.=SEPT. 122 SÜRHX SÜRGHUM, TOTAL EXPORTS, OCT.=SEPT. 123 CÜRUF CORN, FEED USE, OCT.=SEPT. 124 SÜRÜF SÜRGHUM, FEED USE, OCT.=SEPT. 125 OATDF*JH OATS, FEED USE, JUNE=HAY 126 BARDF*JH BARLEY, FEED USE, JUNE=HAY 127 CORPF CURN, AVERAGE PHICE RECEIVED BY FARMERS, OCT.=SEPT. 128 OATPF OATS, AVERAGE PRICE RECEIVED BY FARMERS, JUNE=MAY 129 SÜRF* SÜRGHUM, AVERAGE PRICE RECEIVED BY FARMERS, OCT.=SEPT. 130 BARPF BARLEY, AVERAGE PRICE RECEIVED BY FARMERS, JUNE=MAY 130 BARPF BARLEY, AVERAGE PRICE RECEIVED BY FARMERS, JUNE=MAY 150 BARPF BARLEY, AVERAGE PRICE RECEIVED BY FARMERS, JUNE=MAY 150 BARPF BARLEY, AVERAGE PRICE RECEIVED BY FARMERS, JUNE=MAY 150 BARPF BARLEY, AVERAGE PRICE RECEIVED BY FARMERS, JUNE=MAY 150 BARPF BARLEY, AVERAGE PRICE RECEIVED BY FARMERS, JUNE=MAY 150 BARPF BARLEY, AVERAGE PRICE RECEIVED BY FARMERS, JUNE=MAY 150 BARPF BARLEY, AVERAGE PRICE RECEIVED BY FARMERS, JUNE=MAY 150 BARPF BARLEY, AVERAGE PRICE RECEIVED BY FARMERS, JUNE=MAY 150 BARPF BARLEY, AVERAGE PRICE RECEIVED BY FARMERS, JUNE=MAY 150 BARPF BARLEY, AVERAGE PRICE RECEIVED BY FARMERS, JUNE=MAY 150 BARLEY, AVERAGE PRICE RECEIVED BY FARMERS, JUNE=MAY 151 BARLEY, AVERAGE PRICE RECEIVED BY FARMERS, JUNE=MAY 151 BARLEY, BURGERS 151 B	550
125 OATDF#JH OATS, FEED USE, JUNE-HAY MIL. BU.	272
126 BARDF#JH BARLEY, FEED USE, JUNE-MAY	. 245
127 CORPF CURN, AVERAGE PRICE RECEIVED BY FARHERS, OCTSEPT. \$/RU.	*
128 DATPF DATS, AVERAGE PRICE RECEIVED BY FARMERS, JUNE-MAY \$/BU.	*
128 OATPF OATS, AVERAGE PRICE RECEIVED BY FARMERS, JUNE-MAY \$78U. 129 SORPF* SORGHUM, AVERAGE PRICE RECEIVED BY FARMERS, OCTSFPT. \$78U. 130 BARPF BARLEY, AVERAGE PRICE RECEIVED BY FARMERS, JUNE-MAY \$78U.	*
130 BARPE BARLEY, AVERAGE PRICE RECEIVED BY FARMERS, JUNE-MAY \$/BU.	*

activities are recorded

•	
u	٥
•	1
١	٥

UMBER & NAME	DESCRIPTION WHEAT, SEED USE WHEAT, CCC STUCKS, END UF CROP YEAR WHEAT, FOUD USE OATS, DUMESITC DEHAND WHEAT, TOTAL EXPORTS, JUNE-MAY WHEAT, FEED USE, JUNE-MAY WHEAT, TOTAL LNDING STOCKS WHEAT, AVERAGE PRICE RECEIVED BY FARMERS, JUNE-MAY SOYBEANS, TUTAL ACREAGE PLANTED SUYBEANS, YIELD PER ACRE HARVESTED SOYBEANS, TUTAL PRODUCTION CORN, TOTAL PLANTED ACREAGE SURGHUM, TOTAL PLANTED ACREAGE OATS, TOTAL PLANTED ACREAGE BARLEY, TOTAL PLANTED ACREAGE CORN, PRODUCTION, OCTSEPT. SURGHUM, PRUDUCTION OATS, PRODUCTION OATS, PRODUCTION WHEAT, TOTAL PHODUCTION WHEAT, FARHER. UHNED RESERVE STOCKS, LND OF CROP YEAR SOYBEANS, ENDING COMMEPICAL STOCKS WHEAT, TOTAL PLANTED ACREAGE WHEAT, TOTAL PLANTED ACREAGE	UNITS	PAGE
31 WHEDS	WHEAT, SEED USE	MIL. BU.	160
32 WHEHH*JM	WHEAT, CCC STUCKS, END UF CROP YEAR	MII BII.	161
33 WHEDH*JM	WHEAT, FOUD USE	HIL. UI.	162
35 NATUD#JH	DATS, DOMESTIC DEHAND	MIL. BU.	162 273 163 164 165
36 WHEMX*JH	WHEAT, TOTAL EXPORTS, JUNE-MAY	MIL. BU.	163
37 WHEDF*JH .	WHEAT, FEED USE, JUNE-MAY	MIL. BU.	164
38 WHEHT#JH	WHEAT, TOTAL ENDING STOCKS	MII . BU.	
39 WHEPF	WHEAT, AVERAGE PRICE RECEIVED BY FARMERS, JUNE-MAY	s/Bu.	*
40 SOYSA	SOYBEANS, TUTAL ACREAGE PLANTED	HIL. AC.	149
41 SUYSY	SUYBEANS, YIELD PER ACRE HARVESTED	BU.	150
42. SOYSP	SOYBEANS, TUTAL PRODUCTION	MIL. BIJ.	151
43 CORSA	CORN, TOTAL PLANTED ACREAGE	MIL. AC.	194
44 SURSA	CORN, TOTAL PLANTED ACREAGE SURGHUM, TOTAL PLANTED ACREAGE	MIL. AC.	221
45 OATSA	OATS, TOTAL PLANTED ACREAGE	MIL. AG.	274
40 BARSA	BARLEY, TOTAL PLANTED ACREAGE	MIL. AC.	246
47 CORSPER	CORN, PRODUCTION, OCTSEPT.	MIL. BU.	195
48 SURSPGR	SURGHUM. PRUDUCTION	MII. BII.	555
49 DATSP	OATS. PRODUCTION	MIL. BU.	275
50 BARSP	BARLEY, TUTAL PRODUCTION	MIL. BII.	247
51 WHEHPRRE	WHEAT, FARMER, OWNED RESERVE STOCKS, END OF CROP YEAR	MIL. BU.	166
52 SOYHCC	SOYHEANS, ENDING COMMEPICAL STOCKS	MIL. BU.	152
53 HHESA	WHEAT, TOTAL PLANTED ACREAGE	MIL. AC.	167
54 WHESY	WHEAT, YIELD PER ACKE HARVESTED	BU.	168
55 WHESPAJM	WHEAT. PRODUCTION	HIL. BU.	169
56 CACFC	CASH RECEIPIS. CATTLE AND CALVES	MIL. DOL.	309
57 HOGFC	CASH RECEIPTS. HOGS	MIL. DOL.	311
58 POUFC	CASH RECEIPTS. POULTRY AND EGGS	MIL.DOL.	312
59 DAIFC	CASH RECEIPTS. DAIRY PRODUCTS	MIL. DOL.	313
60 LIVECO	CASH RECEIPTS, SHEEP, LAMB, OTHER LIVESTOCK	MIL. DOL.	314
61 SURUT	SURGHUM. TOTAL DEMAND	MIL. BU.	223
62 FOGEC	CASH RECEIPTS. FOOD GRAINS	HIL. DOL.	315
63 FEGFC	CASH RECEIPTS. FEED GRAINS	MIL. DOL.	316
64 DISFC	CASH RECEIPTS. OT -BEARING CROPS	MIL. DOL.	317
65 SURST	SORGHUM. TOTAL SUPPLY	MIL. BU.	224
66 LACELIV	PRODUCTION EXPENSES. PURCHASED LIVESTOCK	MIL. DOL.	335
67 LACEF	PRODUCTION EXPENSES. PURCHASED FEED	MIL. DOL.	336
68 LACEDPR	PRODUCTION EXPENSES. DEPRECIATION	MIL. DOL.	337
69 DATDT*JH	DATS. TOTAL DISAPPERANCE	MIL. BU.	276
70 CROFS	CROPS. TOTAL FARMER-OWNED RESERVE PAYMENTS	MIL. UNL.	339
71 CORST	CORN. TOTAL SUPPLY	MIL. BII.	196
72 LACERNT	RARLEY, TOTAL PRODUCTION WHEAT, FARHER. UMNED RESERVE STOCKS, END OF CROP YEAR SOYBEANS, ENDING COMMEPICAL STOCKS HHEAT, TOTAL PLANTFU ACREAGE WHEAT, YIELD PER ACRE HARVESTED WHEAT, PRODUCTION CASH RECEIPIS, CATTLE AND CALVES CASH RECEIPIS, POULTRY AND EGGS CASH RECEIPIS, POULTRY AND EGGS CASH RECEIPIS, DAIRY PRODUCTS CASH RECEIPIS, SHEEP, LAMB, OTHER LIVESTOCK SURGHUM, TOTAL DEMAND CASH RECEIPIS, FOOD GRAINS CASH RECEIPIS, FEED GRAINS CASH RECEIPIS, FEED GRAINS CASH RECEIPIS, OIL-BEARING CROPS SURGHUM, TOTAL SUPPLY PRODUCTION EXPENSES, PURCHASED LIVESTOCK PRODUCTION EXPENSES, PURCHASED FEED PRODUCTION EXPENSES, DEPRECIATION OATS, TOTAL DISAPPERANCE CROPS, TOTAL FARMER-OWNED RESERVE PAYMENTS CORN, TOTAL SUPPLY PRODUCTION EXPENSES, MISCELLANEOUS OATS, TUTAL SUPPLY PRODUCTION EXPENSES, MISCELLANEOUS OATS, TUTAL SUPPLY PRODUCTION EXPENSES, FERTILIZER AND LIME PRODUCTION EXPENSES, PURCHASED SEEDS CASH RECEIPIS, ALL LIVESTOCK CASH RECEIPIS, ALL LIVESTOCK CASH RECEIPIS, ALL LIVESTOCK	MIL. DOL.	340
73 LACEMSC	PRODUCTION EXPENSES. MISCELLANEOUS	MIL. DOL.	342
74 OATST*JH	OATS. TOTAL SUPPLY	MIL. BU.	. 277
75 LACEU	PRODUCTION EXPENSES. FERTILIZER AND LIME	MIL DOL'	343
76 LACESD	PRODUCTION EXPENSES. PURCHASED SEEDS	HIL. DOL.	344
77 LIVECT	CASH RECEIPIS, ALL LIVESTACK	MIL DOL	318
78 CROFCT	CHOIT HEREAT TOF ALL MATEURAN	MIL DOL	319

	ı	
(۰	د
•		J
(J	ز

NUMBER & NAME	CASH RECEIPIS, TOTAL PRODUCTION EXPENSES, TOTAL CASH RECEIPIS FROM MARKETINGS, BARLEY CASH RECEIPIS FROM MARKETINGS, CORN CASH RECEIPIS FROM MARKETINGS, UATS CASH RECEIPIS FROM MARKETINGS, SOVBEANS CASH RECEIPIS FROM MARKETINGS, SOVBEANS CASH RECEIPIS FROM MARKETINGS, SOVBEANS CASH RECEIPIS FROM MARKETINGS, SOUREND CASH RECEIPIS FROM MARKETINGS, HEAT FARM INCOME, CHIER RECEIPIS FARM INCOME, GROSS FARM INCOME, REALIZED NET BARLEY, PROGRAM PARTICIPATION RATE FARM INCOME, NET WHATA, PROGRAM PARTICIPATION RATE SURGHUM, DOMESTIC DEMAND CONSUMER PRICE INDEX, CEREAL AND BAKERY PRODUCTS CONSUMER PRICE INDEX, FOOD AT MOME CONSUMER PRICE INDEX, FOOD AWAY FROM HOME CONSUMER PRICE INDEX, FOOD AWAY FROM HOME CONSUMER PRICE INDEX, ALL FOOD CONSUMER PRICE INDEX, SOTHER MEATS EGGS, NUMBEN PRODUCED PER LAYER MILK, NON-FAT DRY, GIVILIAN DISAPPEARANCE MILK, NON-FAT DRY, GIVILIAN DISAPPEARANCE MILK, NON-FAT DRY, HOLESALE PRICE INDEX BUTTER, GEGINNING STOCKS, GOVERNMENT MILK, AVAILABLE FOR MANUFACIURING AMENICAN CHESSE, HOULESALE PRICE, MISC. ASSEMBLY PTS. MILK, PRODUCTION ELIGIBLE FOR FLUID CONSUMPTION MILK, NON-FAT DRY, FED TO CALVES. RUTTER, WHOLESALE PRICE, GRADE A, CHICAGO MILK, EFFECTIVE CLASS I PRICE PAID BY DEALERS MILK, OND-FAT DRY, BEGINNING GOVERNMENT STOCKS MILK, CONDENSED AND EXPORATED, TOTAL ENDING STUCKS MILK, MINNESDIA-WISCONSIN MANUFACTIVING PRICE MILK, MINNESDIA-WISCONSIN MANUFACTIVING PRICE MILK, MON-FAT DRY, PRODUCTION MILK, PRODUCTE ARY PRICE, FLUID ELIGIBLE MILK, NON-FAT DRY, PRODUCTION MILK, NON-FAT D	UNITS	PAGE
179 LACFCT	CASH RECEIPIS, TOTAL	HIL. DOL'	.320
180 LACET	PRODUCTION EXPENSES, TOTAL	MIL. DOL.	346
182 FIRBA	CASH RECEIPIS FROM HARKETINGS, BARLEY	MIL. DOL,	321
183 FIRCO	CASH RECEIPTS FROM MARKETINGS, CORN	MIL. DOL.	322
184 FIRUA	CASH RECEIPTS FROM MARKETINGS, UATS	MIL. DOL,	323
185 FIRSB -	CASH RECEIPTS FROM MARKETINGS, SOYBEANS	HIL. DOL.	324
186 FIRSG	CASH RECEIPTS FROM MARKETINGS, SORGHUM	MIL. DOL,	325
187 FIRWH	CASH RECEIPTS FROM MARKETINGS, WHEAT	HIL. DOL.	326
188 FIFUT	FARM INCOME, OTHER RECEIPTS	BIL. DOL.	327
189 FIF	FARM INCOME, GROSS	BIL. DOL.	328
190 FIYRN	FARM INCOME, KEALIZED NET	BIL. DOL.	329
191 BARPICE	BARLEY, PROGRAM PARTICIPATION RATE	PERCENT	248
192 FIYTH	FARM INCOME, NET	BIL. DOL.	330
193 WHEPICP	WHEAT, PROGRAM PARTICIPATION RATE	PERCENT	170
94 SURDD	SORGHUM. DOMESTIC DEMAND	MIL. BIL.	225
95 PCPOU	CONSUMER PRICE INDEX. POULTRY	1967=1.0	354
196 PCCB	CONSUMER PRICE INDEX. CEREAL AND BAKERY PRODUCTS	1967=1.0	355
97 PCFO	CONSUMER PRICE INDEX. FATS AND UTLS	1967=1.0	356
98 PCH	CONSUMER PRICE INDEX. FOOD AT HOME	1967#1.0	357
99 PC=U	CONSUMER PRICE INDEX. FOOD AWAY FROM HOME	1967=1.0	358
OO PCF	CONSUMER PRICE INDEX. ALL FOOD	1967=1.0	359
01 PC	CONSUMER PRICE INCEX. ALL TIEMS	1967=1.0	360
MUDE SOS	CONSUMER PRICE INDEX. OTHER MEATS	1967=1.0	-361
203 FGGAA	EGGS. NUMBER PRODUCED PER LAVER	NUMBER	82
PO4 HILCOND	MILK NON-EAT DRY. CIVILIAN DISAPPEARANCE	ATL LAS	105
205 HILPWOR	MILK NON-FAT DRY WHOLESALE PRICE THREY	1967=1.0	106
PO6 BUTHG	BUITER, REGINNING STOCKS, GOVERNMENT	RIL IRS	107
207 BUTSP	BUTTER TOTAL PRODUCTION	BIL I BS	108
20A CHEHR	CHEESE COMMENCIAL STOCKS	ATL LAS	109
209 CHEHR	CHEESE RECINITION SICKS COVERNMENT	RIL LAS	110
PIA MILMEG	MTIK, AVATIARIE FOR MANIFACTIIDING	RIL - IRS	iii
11 MILAHOHER	AMENTRAN CHEESE WHOLESALE DOTCE WISC. ASSEMBLY DIS	CENTSZIA	112
212 MILASEM	MILK. BOOGLETION OF TETRIC FOR SHILL CONSIDERATION	AII IAS	113
oli Milacun	MILK. NAMERAT ROV. FED TO CALVES	RII IRC	114
1/1 471 4117	HILLY MUNICAL EDITOR OF THE PARTS OF	CENTEZIE'	115
15 MILCON	MILE RECEIVE FLACE A DUTCE DATO AV DELIEDE	e/cut	116
12 HILLION	MILY EFFECTIVE CLASS I PRICE PAID BY PEACERS	9/CH'	117
17 MILHORD	MILE CONDENSED AND EVADOUATED TOTAL FARMING STOCKS	011 106	118
AD MILHIEV	MILK, CUNDENSED AND EYAFORMIED, IDIAL -NDING STOCKS	OIL+ EDG+	119
TO PILITAL	MIN 6116 4 MINIMUM EEDEDVI ODDED DO <u>l</u> ce	7/671 ₀	150
IN MILLORE CHAP	MILM BORDUCE CHIP ELFTADE FREDE	3/UNI.	121
EU MILPPPEMAI	MILE, PRODUCER PRICE, PLUIV ELIGIBLE	3/LRT.	121
TAMPLEPHAT	MILLS PRODUCE PRICES MANUFACTURING GRADE	S/CWT. BIL. LBS,	122
CC MILDAND	MILL, NUMERAL DRY, PRUDUCITUM	nile Lno	. 153
CT WILPHALLS	MILT, IVIAL SULD IV PLANTS AND DEALERS	BIL. LBS,	124
CH CHEGU	CHEESE, CHEDDAR, U.S.U.A. PURCHASES	nit. ths.	125
LES BUIGU	HUTTER, U.S.U.A. PURCHASES	HIL. LHS.	126

genomman and and agree to the

L	٥
Ξ	
_	•
+	•

NUMB	ER & NAME		UNTTS	PAGE
_				127
27	CURUS	CORN, SEED USE, OCTSEPT.	MIL. BU.	197
85	CORHCC1 #	MILK, NON-FAT DRY, U.S.D.A. PURCHASES CORN, SEED USE, OCTSEPT. CORN, COMMERCIAL STOCK, END OF CRUP YEAR CORN, FARMER-UMNED RESERVE STOCKS, END OF CROP YEAR CORN, YIELD PER HARVESTED ACRE BARLEY, DOMESTIC SEED USE, JUNE-MAY BARLEY, CUMMERCIAL STOCKS, END OF CROP YEAR BARLEY, YIELD PER ACRE HARVESTED BARLEY, FARMER-UMNED RESERVE STOCKS, END OF CROP YEAR	MIL. BU. MIL. BU. MIL. BU. BU./AC.	198
29	CURHPKRE	CORN, FARMER-UWNED RESERVE STUCKS, END OF CROP YEAR	MIL. BU.	199
30	CORSYGR	CORN, YIELD PER HARVESTED ACRE	RU./AC.	200
31	BARDS*JM ·	BARLEY, DOMESTIC SEED USE, JUNE-MAY	MIL. BU.	249
3Ž	BARHCC1*JH	BARLEY, CUMMERCIAL STOCKS, END OF CROP YEAR	MIL. BU. MIL. BU.	250
33	BARSY	BARLEY, YIELD PER ACRE HARVESTED	BU. ⊤	251
34	BARSY BARHPRRE OATDS*JH OATHCC1*JH	BARLEY, FARMER-OWNED RESERVE STOCKS, END OF CROP YEAR	MIL. BU. MIL. BU. MIL. BU.	252
35	DATOS#JH	DATS, DOMESTIC SEED USE, JUNE-MAY	MIL. BU.	278
Sá	OATHCC1+JH	DATS. COMMERCIAL STUCKS. END OF CROP YEAR	MIL. BU.	279
57			B11 '	280
3 A	DATSY DATHPRRE SORDS	DATS. FARMER UNNED RESERVE STOCKS. END OF CROP YEAR	MIL. BU.	281
59	SORDS	SORGHUM. SEED USE. UCTSEPT.	MIL. BII.	226
10	SORUS SURHCC1*	DARLEY, FARRENDURED RESERVE STOCKS, END OF CRUP YEAR OATS, DOMESTIC SEED USE, JUNE-MAY OATS, COMMERCIAL STUCKS, END OF CROP YEAR OATS, YIELD PER ACRE HARVESTED OATS, FARMER UNNED RESERVE STOCKS, END OF CROP YEAR SORGHUM, SELD USE, OCTSEPT. SURGHUM, COMMERCIAL STOCKS, END OF CROP YEAR	MIL. BII. MIL. LRS. Bu.	227
41	SORSYGR	SORGHUM. YTELD PER ACRE	BU.	828
خ	SORSYGR SORHPHRE	SORGHUM. FARMER-OWNED STOCKS. END OF CROP YEAR	MIL. BU.	229
17	WHENCC#JM	WHEAT, COMMERCIAL STOCKS, END OF CRUP YEAR	MIL. BU.	171
44	WHESTA.IN	WHEAT, TOTAL SUPPLY	MIL. BU.	172
45	HHEOD#JH	WHEAT DOMESTIC DEMAND	MIL. BU.	173
4.5	WHENTAIN	NHEAT, TOTAL DEMAND	MIL BU	174
47	CUBUU	CORN. DOMESTIC DEMAND	MIL BU	201
ΔA	BARDTAIN	BARLEY, TOTAL DEMAND	MIL. BU.	253
40	WHENCE*JM WHEST*JM WHEDD*JM WHEDT*JM CORDD BARDT*JM BARST*JH BARRDD*JM	DATS, FARMER UMNED RESERVE STOCKS, END OF CROP YEAR SORGHUM, SELD USE, OCTSEPT. SURGHUM, COMMERCIAL STOCKS, END OF CROP YEAR SORGHUM, YIELD PER ACRE SORGHUM, FAHMER-OWNED STOCKS, END OF CROP YEAR WHEAT, COMMERCIAL STOCKS, END OF CRUP YEAR WHEAT, TOTAL SUPPLY WHEAT, DOMESTIC DEMAND WHEAT, TOTAL DEMAND CORN, DOMESTIC DEMAND BARLEY, TOTAL SUPPLY BARLEY, TOTAL ACREAGE HARVESTED, CORN, HARVESTED ACREAGE SUYBEANS, HARVESTED ACREAGE BARLEY, ACREAGE HARVESTED, SORGHUM, HARVESTED ACREAGE	MIL. BII.	254
50	BARROD+.IM	BARLEY- DOMESTIC DEMAND	MIL. BU.	255
51	NHESH	WHEAT, TOTAL ACREAGE HARVESTED.	MIL. BU. MIL. AC. MIL. AC. MIL. AC.	175
	CURSH	CORN. HARVESTED ACREAGE	MIL. AC.	202
	SOYSH	SUYBEANS, HARVESTED ACREAGE	MIL. AC.	153
	BARSH	BARLEY, ACREAGE HARVESTED.	MIL. AC. MIL. AC.	250
	SORSH	SORGHUM. HARVESTED ACREAGE	MIL. AC.	230
	DATSH	DATS. HARVESTED ACREAGE	MIL. AC.	282
	CORFP	CORN. DEFICIENCY PAYMENTS	MIL. AC. MIL. DOL,	203
	SORFP	SORGHUM. DEET TENCY PAYMENTS	MIL DOL	231
	BARFP	RARIEVA DEFICIENCY PAYMENTS	MIL. DOL, MIL. DOL,	257
50	WHEFP	WHEAT. DEFICIENCY PAYMENTS	MIL. DOL.	176
	CORFNRXL	CURN, HARVESTED ACREAGE SUYBEANS, HARVESTED ACREAGE BARLEY, ACREAGE HARVESTED, SURGHUM, HARVESTED ACREAGE OATS, HARVESTED ACREAGE CORN, DEFICIENCY PAYMENTS SURGHUM, DEFICIENCY PAYMENTS BARLEY, DEFICIENCY PAYMENTS HHEAT, DEFICIENCY PAYMENTS COPN, EXPECTED PRUGRAM HET RETURN AT THE MAXIMUM LEVEL OF PRUGRAM PARTICIPATION	S/AC.	204
52	CORFEHNR	CORN. EXPECTED MARKET NET RETURNS	S/AC.	205
	WHEFNRNL	WHEAT, EXPECTED PROGRAM NET RETURN AT THE MINIMUM LEVEL OF PRUGHAM PARTICIPATION	S/AC.	177
4	WHEFNRXL.	WHEAT, EXPECTED PROGRAM NET RETURN AT THE MAXIMUM LEVEL OF PRUGKAM PARTICIPATION	S/AC.	178
5	CORFS	CURN, FARMER-UNNED RESERVE STOPAGE PAYMENTS	MIL. DOL.	. 206
56	DATES	NATS. FARMEN⇒UHNED RESERVE STURAGE PAYMENTS	MIL. DOL.	283
57	SORFS	SORGHUM, FARMER-OHNED RESERVE STORAGE PAYMENTS	HIL DOL	232
6 B	SORFS BARFS	BARLEY, FARHEH-OWNED RESERVE STURAGE PAYMENTS	MIL. DOL, MIL. DOL, MIL. DOL.	258
	WHEFS	WHEAT, FARMER-DHNED RESERVE STORAGE PAYHENTS	MIL. DOL.	179

LENT TO THE SOLD HOUSE SELECTION OF SOLD SE

NUH	BER & NAHE	DESCRIPTION	UNITS	PAGE
270	CORFNRNL	DESCRIPTION CURN, EXPECIEU PRUGRAH NET RETURN AT THE MINIMUM	s/AC.	207
271	LACEOG	LEVEL OF PRUGHAH PARTICIPATION TUTAL GOVERNMENT PAYMENTS	HIL. DOL.	331
277	LACFFO	DUFAT - EVOFTED MADKET NET RETURN	S/AC.	180
271	WUEL CUAR	CODY FARM PRICE WEIGHTED BY MARKETINGS, OCTFEB.	DOL./BII.	208
273	DADDENC .	BARLEY, FARM PRICE WEIGHTED BY MARKETINGS, JUN OCT.	DOL./BU.	259
275	DAKELUG .	MORGHUM. FARM PRICE WEIGHTED BY MARKETINGS. OCT. FEB.	DOL./CHT.	233
274	DUKELNO:	WHEAT FARM PHICE WEIGHTED BY MARKETINGS. JUN-OCT.	DUL./811.	181
340	OATDEXP	DATS. EXPECTED FARM PRICE	S/BU.	284
284	UNITENT	WHEAT - EXPECTED FARM PRICE	\$/9U.	185
282	CUDDEXD	CORN. EXPECTED FARH PRICE	S/RU.	209
281	DADDEXD	BARLEY. EXPECTED FARM PRICE	\$/BU,	260
284	#UDDEXD	SORGHUM. EXPECTED FARM PRICE	\$/BU.	234
285	SOKFEAR	SOVAFANS. EXPECTED FARM PRICE	S/RU.	154
284	0174E40	OATS. FERFEIED VIELD PER HARVESTED ACRE	BU./AC'.	285
2A7	DADVEYD	BARLEY FXPECTED YTELD PER HARVESTED ACRE	RU./AC.	261
286	PARTEAL	HHEAT FYDERTED VIELD PER HARVESTED ACRE	BU./AC.	183
280	CODVEYD	CORN. EXPECTED VIELD PER HARVESTED ACKE	BU./AC.	210
207	CORTEAR	SORCHUM. EXPECTED VIFID PER HARVESTED ACRE	BU./AC.	235
291	COVVEYD	ENVREAS EXPECTED VIELD PER HARVESTED ACRE	BU./AC.	155
545	80R\$A08P	CURN, EXPECIEU PRUGRAM NET RETURN AT THE MINIMUM LEVEL OF PRUGRAM PARTICIPATION TUTAL GOVERNMENT PAYMENTS WHEAT, EXPECTED MARKET NET RETURN CORN, FARM PRICE WEIGHTED BY MARKETINGS, UCTFEB. BARLEY, FARM PRICE WEIGHTED BY MARKETINGS, UCTFEB. WHEAT, FARM PRICE WEIGHTED BY MARKETINGS, OCTFEB. MHEAT, EXPECTED FARM PRICE WHEAT, EXPECTED FARM PRICE CORN, EXPECTED FARM PRICE SORGHUM, EXPECTED FARM PRICE SORGHUM, EXPECTED FARM PRICE OATS, EXPECTED FARM PRICE BARLEY, EXPECTED FARM PRICE OATS, EXPECTED FIELD PER HARVESTED ACRE WHEAT, EXPECTED YIELD PER HARVESTED ACRE CORN, EXPECTED YIELD PER HARVESTED ACRE SORGHUM, TOTAL ACRES PLANTED BY GOVERNMENT PROGRAM NUN-PARTICIPANTS	HIL. DOL. S/AC. DOL./BII. DOL./BU. DOL./CHT. DOL./GHI. S/BU. BU./AC. 236	
207	CODENTAD	NUN-PARTICIPANTS SURGHUM, TOTAL GOVERNMENT PROGRAM ACREAGE SURGHUM, ACRES PLANTED BY GOVERNMENT PROGRAM PARTICIPANTS BARLEY, EXPECIED PROGRAM NET RETURN AT THE MIMIMMUME PROGRAM PARTICIPATION CORN. TOTAL GOVERNMENT PROGRAM ACREAGE	HIL. AC.	237
293	SORSDINP SORSAINP	SORGHUM. APPES DI ANTED BY GOVERNMENT PRUGDAM PARTICIPANTS	HIL. AC.	238
	BARFNRNL	BADIEV. EVERGIEN BENGGIAM NET DETIMEN AT THE MINIMUM	S/AC.	262
273	DAKLNUUL	LEVEL AS DOUGLAM DASTICIPATION		
204	CORSOLNO	CORN. TOTAL COVERNMENT PROGRAM ACREAGE	HIL. AC.	211
297	CORSDINP	LEVEL OF PRUGKAH PARTICIPATION CORN, TOTAL GUVERNMENT PROGRAH ACKEAGE CORN, TOTAL ALREAGE PLANTED BY GOVERNMENT PROGRAM	MIL. AC.	212
		PARTICIPANTS CORN, TOTAL ACREAGE PLANTED BY GOVERNMENT PROGRAM		
298	CORSAUSP			
599	BARFNRXL	NON-PARTICIPANTS BARLEY, EXPECTED PROGRAM NET RETURN AT THE MAXIMUM LEVEL OF PROGRAM PARTICIPATION		
300	BARSAIPT	BARLEY. TOTAL PROGRAM ACREAGE	MIL. AC.	264
	BARSAINP	BARLEY. TOTAL PROGRAM ACREAGE PLANTED	MIL. AC. MIL. AC.	265
	BARSAUSP	BARLEY. TOTAL ACREAGE PLANTED OUTSIDE OF THE PRUGRAM	HIL. AC.	266
	BARFEMNR	BARLEY. EXPECTED MARKET NET RETURNS	S/AC.	267
	WHESPINP	WHEAT. TOTAL GOVERNMENT PROGRAM ACREAGE	HIL. AC.	184
	WHESAINP	LEVEL OF PRUGRAM PARTICIPATION BARLEY, TUTAL PROGRAM ACREAGE BARLEY, TOTAL PROGRAM ACREAGE PLANTED BARLEY, TUTAL ACREAGE PLANTED OUTSIDE OF THE PRUGRAM BARLEY, EXPLCTED MARKET NET RETURNS WHEAT, TOTAL GOVERNMENT PROGRAM ACREAGE WHEAT, TOTAL ACREAGE PLANTED BY GOVERNMENT PROGRAM	HIL. AC. \$/AC. HIL. AC. HIL. AC.	185
306	WHESAOSP	WHEAT, TOTAL ACREAGE PLANTED BY GOVERNMENT PROGRAM	HIL. AC.	186
307	SORFNRNL	SURGHUM, EXPECTED PROGRAM NET RETURNS AT THE HIMIMUM		. 239
308	SORFNRXL	LEVEL OF PRUGRAM PARTICIPATION SORGHUM, EXPECTED PROGRAM NET RETURNS AT THE MAXIMUM	S/AC.	240
		LEVEL OF PPUGKAH PARTICIPATION SURGHUM, EXPECTED MARKET NET RETURNS	M/AC.	241

UMBER & NAME	DESCRIPTION OATS, EXPECIED NET HETURNS SOYBEANS, EXPLCTED NET RETURNS PRODUCTION EXPENSES, TAX ON PROPERTY INDEX OF FARM REAL ESTATE FARM INCOME, CHANGE IN FARM INVENTORY CUTTON, TOTAL PRODUCTION COTTON, AVERAGE FARM PRICE, AMERICAN UPLAND, AUG-JULY COTTON, AVERAGE FARM PRICE, AMERICAN UPLAND, AUG-JULY COTTON, AVERAGE, FARM PRICE, AMERICAN UPLAND, AUG-JULY COTTON, AVERAGE, FARM PRICE, AMERICAN UPLAND, AUG-JULY COTTON, EXPENSES, HIRED LABOR PRODUCTION EXPENSES, REPAIR, DEPARTION OF CAPITAL TOTAL ACREAGE PLANTED, SEVEN MAJOR CRUPS PRODUCTION EXPENSES, INTEREST ON FARM MORTGAGE FISH, RETAIL PPICE INDEX CONSUMER PRICE INDEX, FRUITS AND VEGETABLES CONSUMER PRICE INDEX, FRUITS AND VEGETABLES CONSUMER PRICE INDEX, FRUITS AND VEGETABLES CONSUMER PRICE INDEX, NON-ALCOMOLIC BEVERAGES CONSUMEN PRICE INDEX, NON-ALCOMMERCIAL MILK, NONFAI DRY, BEGINNING COMMERCIAL COTTON, TUTAL ENDING STUCKS COTTON, TOTAL DISAPPEARANCE COTTON, TOTAL DISAPPEARANCE COTTON, TOTAL DISAPPEARANCE COTTON, TOTAL DISAPPEARANCE COTTON, TOTAL LISA EXPONTS FEED COST INDEX, CHICKENS FEED COST INDEX, COUTON, CEPTECTED FARM PRICE COTTON, EXPECTED FARM PRICE COTTON, EXP	UNITS	PAGE
10 OATFEXNE	OATS, EXPECTED NET KETURNS	S/AC,	286
S11 SOYFEXNR	SDYBEANS, EXPECTED NET RETURNS	S/AC. Mil. Dol.	156
SIZ LACETAX	PRODUCTION EXPENSES, TAX ON PROPERTY	MIL. DOL.	347
S13 VLAND	INDEX OF FARM REAL ESTATE	1967=1.0	362
14 FIYINV	FARM INCOME, CHANGE IN FARM INVENTORY	BIL. DOL.	332
115 CULSP .	CUTTON, TOTAL PRODUCTION	MIL. BALES	287
16 COLPFAU	COTTON, AVERAGE FARM PRICE, AMERICAN UPLAND, AUG-JULY	CENTS/LB.	288
17 CULSA	COTTON, TOTAL PLANTED ACREAGE	MIL. AC.	289
18 LACEHLB	PRODUCTION EXPENSES, HIRED LABOR	MIL. DOL,	348
119 LACERCO	PRODUCTION EXPENSES, REPAIR, OPERATION OF CAPITAL	MIL. DOL.	349
20 TOTACRE	TUTAL ACREAGE PLANTED, SEVEN MAJOR CRUPS	HIL. AC.	307
21 LACEINT	PRODUCTION EXPENSES, INTEREST ON FARM MORTGAGE	MIL. DOL.	350
22 FISIR	FISH, RETAIL PRICE INDEX	1967#1,0	363
23 PCFV	CONSUMER PRICE INDEX, FRUITS AND VEGETABLES	1967#1,0	364
324 PCPF	CONSUMER PRICE INDEX, PREPARED AND PARTIALLY PREPARED FOODS	1967#1.0	365
S25 PCSS	CONSUMER PRICE INDEX, SUGAR AND SWEETS	196/=1.0	366
SZO PCNAL	CONSUMER PRICE INDEX, NON-ALCOHOLIC BEVERAGES	1967=1.0	367
S27 MARIR	CONSUMER PRICE INDEX, MARGARINE	1967=1.0	368
*THMOS 85	SDYBEAN MEAL, TOTAL ENDING STOCKS	MIL. LBS, MIL. LBS.	157
29 SOOMC**+PL	SOYBEAN OIL, EXPORTS	MIL. LBS.	158
30 SOYDV	SOYBEANS, FEED, SEED, AND RESIDUAL USE	MIL. BU.,	159
31 BUTHB	BUTTER, BEGINNING STOCKS, CUMBERCIAL	MIL. BU., BIL. LBS, RIL. LBS. HIL. AC. LBS./AC.	128
332 HILHBND	MILK, NONFAT DRY, BEGINNING COMMERCIAL STOCKS	RIL. LAS.	129
333 COLSH	COTTON, TOTAL ACREAGE HARVESTED	MIL. AC.	. 290
334 COLSY	COTTON, YIELD PER HARVESTED ACRE	IBS./AC.	291
335 COLDM	COTTON, MILL CONSUMPTION	MIL. BALES	292
S36 COLHT#	COTTON, TUTAL ENDING STUCKS	MIL. BALFS	293
337 COLST	COTTON, TUTAL SUPPLY	MIL. BALFS	294
38 CULPF*	COTTON, AVERAGE CALENDAR YEAR FARN PRICE	CENTS/LB,	295
339 COLPCM	COTTON, BLM. PRICE, GROUP MILL PTS.	CENTS/LB.	*
41 COLOT	COTTON, TOTAL DISAPPEARANCE	MIL. BALES	296
342 COLMIF=I	COTTON, FOREIGN, NON-COMMUNIST IMPORTS, LESS INDIA	MIL. TONS	297
843 COLMX	CUTTON, TUTAL U.S. EXPORTS	HIL. BALES	298
545 FDC	FEED COST INDEX, CHICKENS	S/AU.	83
46 FDE	FEED COST INDEX, EGGS	\$/BU.	84
47 FDD	FEED COST INDEX, DAIRY	1/BU.	130
48 COLMXF=I	COTTON, NON-CUMHUNNIST FOREIGN PAYMENTS	MIL. TONS	299
49 COLPDEF	CUTTON, DEFICIENCY PAYMENTS	CENTS/LB, MIL. BALES MIL. TONS MIL. BALES \$/BU. \$/BU. MIL. TONS MIL. DOL,	500
SO BUTGP	BUTTER, GUVERNMENT SUPPORT PAYMENTS	MIL. DOL,	131
51 CHEGP	CHEESE, GUVERNMENT SUPPORT PAYMENTS	MIL. DOL,	132
SS2 NFDGP	NON-FAT DRY HILK, GOVERNMENT SUPPORT PAYMENTS	HIL. DOL,	133
SS3 DAIGP	DAIRY, TOTAL GOVERNMENT SUPPORT PAYHENTS	MIL. DOL,	134
154 COLPFEX	CUTTON, EXPECTED FARM PRICE	CENTS/LB.	. 303
355 COLSYEXP	CUTTON, EXPECTED YIELD PER HARVESTED ACRE	LBS./AC.	304

NUH	BER & NAME	DESCRIPTION	UNITS .	PAGE
35ó	COLNRXP	COTTON, EXPECIED NET RETURN AT THE MAXIMUM	DOL./AC. *	303
357	COLSFC	LEVEL OF PRUGRAM PARTICIPATION CASH RECEIPTS, COTTON, SEED AND LINT	MIL. DOL.	334
358	COLNRNP	COTTON, EXPECTED NET RETURN AT THE HINIMUM LEVEL OF PRUGHAM PARTICIPATION	S/AC.	304
359	COLNRHP .	CUTTON, MARGINAL NET RETURNS FOR PLANTING ADDITIONAL	S/AC.	305
360	COLNRH	COTTON, EXPECTED MARKET NET RETURNS	S/AC.	306

^{*} VARIABLE 18 SOLVED FOR BY INVERTING SUPPLY-DEHAND IDENTITY (SEE PAGE 14).

-378

-- EXOGENOUS VARIABLES --

الطابية للياليان فيلي المحاور والمواجعة والمحاورة والمعادل المحاورة والمعادل المعادات المعادات

NUMBER & NAME	DESCRIPTIONS	UNITS
	, 	
NPC	POPULATION, TOTAL	HIL.
WRAHFI	WAGE INDEX, ALL HIRED FARM HANDS	1967=1.0
IPD*	TMPLICIT PRICE DEFLATOR	TNDEX
WRHD	HAGE RATE, DAIRY INDUSTRY	S/HR.
WRHHP	HAGE RATE, HEAT PACKING INDUSTRY	S/HR.
PIGUD	HUGS. DEATH LUSS	PERCENT
FRMCP4H	INTEREST RATE, PRIME COMMERCIAL PAPER, 4-6 HONTHS	PEPCENT
PH051*	CONSUMER PRICE INDEX, FUEL AND UTILITIES	1967=1.0
HHFPH	MAN MADE FIBER PRICE	TNDEX
NRHPP	HAGE RATE, POULTRY PROCESSING INDUSTRY	\$/HR.
DATVC	DATS, VARIABLE COST	DOL.
PORMX-77	PORK, EXPORTS	MIL. LBS.
PORMI-77	PORK, IHPORIS	MIL. LRS,
PORCH-77	PORK, HILITARY USE	MIL. LAS.
5 GASIR	CONSUMER PRICE INDEX, GASOLINE, REGULAR AND PREMIUM	1967=1.0
6 JULPRCP	INDEX, PRECIPITATION, JULY (ILL., IN., 10., OH.)	INDEX
	REEF, IMPURIS	MIL. LBS.
7 REEMI	BEEF, EXPORTS	MIL. LBS.
B BEENX	REEF, MILITARY USE	MIL. LAS.
9 BEECH	NATS, LUAN HATE PRIOR TO PLANTING	S/RU.
0 DATLRPP	CHICKEN, YOUNG, MILITARY USE	MIL. LAS.
1 CHICHYD		MIL. LAS.
2 CHICHUT	CHICKEN, OTHER, MILITARY USE	HIL. LBS.
3 CHIMXOT	CHICKENS, OTHER, EXPORTS	MIL. LAS.
4 CHIMXYO	CHICKENS, YOUNG, EXPORTS	MIL. LAS.
5 TURCH	TURKEY, HILITARY USE	HIL. LRS,
TURHX	TURKEY, EXPURTS	MIL. DOZ.
7 EGGMT	EGGS, IMPURIS	HIL. DOZ.
B EGGCM	EGGS, MILITARY USE	MIL. DOZ.
9 EGGHX	EGGS, EXPORTS	INDEX
TIME C	YEAR	DEGS.
1 JNJLTEH	WEATHER VARIABLE, JUNE-JULY AVERAGE	nrea.
	TEMPERATURE (MONT., MINN., AND UH)	1967=100
2. FERTH	FERTILIZER INDEX	1NDEX
3 INDEXJA	WHEATHER VARIABLE, JULY-AUG., PRECIP.	TUNEX
	(IA., IL., NB.,ON)	221 221
4 YPDS	PERSONAL DISPUSABLE INCOME IN CURRENT	RIL. DOL.
· ·	DOLLARS	6.46W=
5 RICSHGHO	RICE, HEDIUM GRAIN PRICE, FOB-HOUSTON, DOLLARS AUGSEPT.	S/CHT.
6 RICPXHG	RICE, SEASON AVERAGE EXPORT PAYMENT RAIE	S/CHT.
7 .YPD**	PERSONAL REAL DISPOSABLE INCOME, JULJE.	BIL. DOL.
B WHEVC*	WHEAT, VANIABLE COST	DOL.

- 1	
w	
7	
9	

NU	HBEK & NAME	DESCRIPTION	UNITS
39	WHESAPMP	WHEAT, FRACTION OF EACH AGRE PLANTED AT THE MINIMUM LEVEL OF PROGRAM PARTICIPATION SURGHUM, NET EXPORTS MINUS SORMC OATS, TOTAL EXPORTS BARLEY, TOTAL EXPORTS HHEAT, FRACTION OF EACH AGRE PLANTED AT THE MAXIMUM	PERCENT
40	RORMG	SURGHUM. NET EXPORTS MINUS SORMC	HIL. BU.
41	OATHY*JM	NATS. TOTAL EXPORTS	MIL. BU.
42	BARHY#.TH	BARLEY. TOTAL EXPORTS	HIL. BU.
43	WHESAPXP .	HHEAT, FRACTION OF EACH ACRE PLANTED AT THE MAXIMUM LEVEL OF PRUGRAM PARTICIPATION	PERCENT
44	WHEPGHLP	WHEAT, SUPPURT PAYMENT RATE BASIS AT THE HINIHUM LEVEL OF PROGRAM PARTICIPATION	\$/BU.
n c -		CORN, PRODUCTION PLUS BEGINNING STOCKS IN ECC-6 COUNTRIES	THOU, MET, TON
45	CORSP+HE6 Barhi*Jh	BARLEY, TUTAL IMPORTS	MIL. BU.
		HARLEY, IUIAL INFUNIO SECTIMINE STOCKS IN COMPETITIVE COUNTRIES	THOU. HET. TON
•	CORSP+HCC	CORN, PODUCTION PLUS BEGINNING STOCKS IN COMPETITIVE COUNTRIES	S/RU.
48	WHEPGXLP	WHEAT, SUPPURT PAYHENT RATE BASIS AT THE HAXIMUM	47.110
		LEVEL OF PRUGRAM PARTICIPATION	MIL. BU.
	SORDU	SORGHUM, UTILIZED FOR FOOD AND INDUSTRY, OCTSEPT.	MIL. BU.
	OATHI#JH	DATS, TOTAL IMPURTS	S/AC.
51	MHEDDXLD	WHEAT, EXPORT CERTIFICATE AND DIVERSION PAYMENT AT THE MAXIMUM	0 / - 0 •
_		LEVEL OF PRUGHAM PARTICIPATION	S/RU.
	WHEPL	WHEAT, LOAN RATE	
	WHEPX	WHEAT, AVERAGE EXPORT PAYMENT RATE	BU./AC.
54	WHESPEMP	WHEAT, AVERAGE EXPORT PAYMENT RATE WHEAT, PRUDUCTION, ELIGIBLE FOR SUPPORT AT THE MINIMUN	BU./*C.
		WHEAT, PRODUCTION, ELIGIBLE FOR SUPPORT AT THE MINIMON LEVEL OF PROGRAM PARTICIPATION WHEAT, ADMINISTRATIVE YIELD BARLEY, ADMINISTRATIVE YIELD CORN, ADMINISTRATIVE YIELD CORN, ADMINISTRATIVE YIELD TOTAL GOVERNMENT PAYMENTS LESS DEFICIENCY PAYMENTS SOYBEANS, LUAN RATE WHEAT, IMPORTS CORN, TARGET PRICE	Du AAC'
55	WHYGVUS	WHEAT, ADMINISTRATIVE YIELD	BU./AC.
56.	BAYGVUS	BARLEY, ADMINISTRATIVE YIELD	BU./AC.
57	SGYGVUS	SORGHUM, ADHINISTRATIVE YIELD	BU./AC.
58	COYGVUS	CORN, ADMINISTRATIVE YIELD	Bu./AC.
59	LACFPG*	TOTAL GOVERNMENT PAYMENTS LESS DEFICIENCY PAYMENTS	HIL. DUL.
60	SUPL	SOYBEANS, LUAN RATE	DOL./BU.
61	WHEMI#JM	WHEAT, IMPORTS	MIL. BII.
62	COPT	CORN. TARGET PRICE	DOL./BU.
63	SGPT	SORGHUM, TARGET PRICE	noi. • /Bii •
64	RAPT	BARLEYA TARGET PRICE	DOL./BU.
65	NHPT	WHEAT. TARGET PHICE	NOL./BII.
66	COAALUS	TOTAL GOVERNMENT PAYMENTS LESS DEFICIENCY PAYMENTS SOYBEANS, LUAN HATE WHEAT, IMPORTS CORN, TARGET PRICE SORGHUM, TAKGET PRICE BARLEY, TARGET PRICE CORN, ALLUTTED ACREAGE SORGHUM, ALLOTTED ACREAGE SORGHUM, ALLOTTED ACREAGE HHEAT, ALLOTTED ACREAGE CASH RECEIPTS, FRUIT, VEGETABLE, UTHER CROPS CORN, FARMEN-OWNED RESERVE STORAGE PAYMENT RATE SORGHUM, FARMER-OWNED RESERVE STORAGE PAYMENT RATE BARLEY, FARMER-OWNED RESERVE STORAGE PAYMENT RATE HHEAT, FARMER-OWNED RESERVE STORAGE PAYMENT RATE OATS, FARMER-OWNED RESERVE STORAGE PAYMENT RATE OATS, FARMER-OWNED RESERVE STORAGE PAYMENT RATE PICE, FARMER-OWNED RESERVE STORAGE PAYMENT RATE HIGH PRUTEIN	THOU, AC,
67	RGAAL US	SORGHUM. ALLOTTED ACREAGE	THOU. AC.
68	RAAAI IIR	BARLEY, ALLUTTED ACREAGE	THOU. AC.
60	HUAAI IIQ	WHEAT, ALLOITED ACREAGE	THOU. AC.
74	MUNATOS	CACH DECETORS FOUTT. VEGETARIES OTHER CROPS	MIL. DOL.
70	CADCOUR	CADIL BADMEU AND SECOND STORAGE PAYMENT RATE	DOL./BU.
71	COCOUP	enorum Eadmed_numen deserve Stonage Payment RATE	S/BU.
16	3642KA2	SUNGHUNG FARTERSUNNED RESERVE CTOPAGE DAVMENT BATE	S/BU.
13	BAPSRUS	DARLET FARMER-UNDER DESERVE STORAGE FRITZEN DATE	S/BU.
74	WHPSRU8	HHEAI, FARMEN-UNNEY RESERVE STURAUE FAIMENT RAIS	\$/BU
75	OAPSRUS	DAID, PANTER-UNNED RESERVE STUNDE PATTENT BATE	MIL. DOL.
76	RICFS	RICE, PARMEK-UNNED RESERVE PAYMENTS	THOU. TONS
77	FEEDHP=8	FEED, HIGH PRUTEIN	\$/SHORT: TON
78	FIMPW	MHEAT, FARHER-UNNED RESERVE STORAGE PAYMENT RATE RICE, FARHER-UNNED RESERVE PAYMENTS FEEU, HIGH PRUTEIN FISHMEAL PRICE AT EUROPEAN PORTS 65%, ADJ FOR EXCHANGE RATES LIVESTOCK, EEC PRODUCTION INDEX	1964=1.0
79	LIVJP*EC	LIVESTOCK, EEC PRODUCTION INDEX	1 707-1 . V

	BEK 4 NAHE	DESCRIPTION	UNITS
80	WHESPEXP	WHEAT, PRODUCTION ELIGIBLE FOR SUPPORT AT THE MAXIMUM	Bu./AC.
-		LEVEL OF PRUGRAM PARTICIPATION	MIL.DOL.
31	RICFP	RICE, DEFICIENCY PAYMENTS	X OF LOAN RATE
12	CUPGRUS	CORN, FARMER-UNNED RESERVE STUCK RELEASE PRICE	BIL. OOL.
3	.YPD*D	CYPD** PERCENTAGE CHANGE	X OF LOAN RATE
14	CUPCRUS	RICE, DEFICIENCY PAYMENTS CORN, FARMER-UNNED RESERVE STOCK RELEASE PRICE TYPOAR PERCENTAGE CHANGE CORN, FARMER-UNNED RESERVE CCC STOCK RELEASE PRICE SOYBEAN MEAL, BRAZIL, TOTAL EXPORTS SORGHUM, FARMER-ONNED RESERVE STOCK RELEASE PRICE SOYBEAN MEAL, CRUSHING YIELD	THOU HET TONS
35	SUMMXBR	SUYBEAN MEAL, BRAZIL, TOTAL EXPORTS	X OF LOAN RATE
36	SGPGRUS	SORGHUM, FAKMER-OHNED RESERVE STOCK RELEASE PRICE	CHT.
	SUMSC*	SOYBEAN MEAL, CHUSHING YIELD	CHT. MIL. LRS. X OF LOAN RATE X OF LOAN RATE CHT.
	SOOHH	SOYBEAN DIL, GOVERNHENT ENDING STOCKS	MILO LOSO .
	SGPCRUS	SORGHUM, FARMER-OWNED RESERVE CCC STOCK RELEASE PRICE	# OF LOAN RATE
	BAPGRUS	BARLEY, FARMER-OWNED RESERVE STOCK RELEASE PRICE	A DE LUAN RAIL
_	500SC#	COVAFAN DILA CRUSHING VIELD	CHT. Hil. Bales
	COLMINEQ	COTTON, RAH EUNIVALENT OF U.S. IMPORTS FOR CONS. OF	HIL DATES
_		CT' MANUE (III -JF.)	% OF LOAN RATE
93	BAPCRUS	RARLEY, FARHER-OWNED RESERVE CCC STOCK RELEASE PRICE	
	SUYHF	SOYHFANS. FNDING STUCKS UNDER LUAN	MIL. BU.
	OAPGRUS	NATS, FARMEN-UNNED RESERVE STOCK RELEASE PRICE	X OF LOAN RATE
	SOYHR	SOYBEANS, ENDING STUCKS UNDER RESEAL	MIL. BU.
	SOYHXBR	BOYBEANS, BRAZIL, TOTAL EXPURTS	THOU, MET, TONS % OF LOAN RATE
	OAPCRUS	DATS, FARHER-UNNED RESERVE CCC STUCK RELEASE PRICE	A UP LUAN HATE
	WHEPDHLP	OATS, FARMEN-UMMED RESERVE STOCK RELEASE PRICE SOYBEANS, ENDING STUCKS UNDER RESEAL SOYBEANS, BRAZIL, TOTAL EXPURTS DATS, FARMER-UMMED RESERVE CCC STOCK RELEASE PRICE WHEAT, EXPORT CERTIFICATE PAYMENT AND DIVERSION PAYMENT	S/AC. THOU, MET. TONS
	CORMERUSSR	SOATEL MUTON WEL EXENCIS ENOW WOMENS SOURCES	
	SOOMXPL	SUVREAN OIL A US EXPORTS PLANO	MIL. LBS.
02	,SDR*OCT	U_S_ \$/SDR, AVERAGE OF QUARTERLY MEANS/ OCT. BASIS	\$/\$UR
03		FORFIGN FYCHANGE HOLDINGS OF JAPAN	BIL. SDR
	FEHEC9	MORETGN EXCHANGE HOLDINGS OF EEC-9 COUNTRIES	BIL. SOR
	WHPGRU8	WHEAT. FARMER BOWNED RESERVE STOCK RELEASE PRICE	X OF LOAN RATE
	COLHXREQ	RAW CUTTON, EQUIVALENCE IN TEXTILE EXPORTS	MIL. BALES
07	EXCICTH	FXCHANGE RATES OF IMPORTING COUNTRIES	TNDEX
	MMFSPFOR	MAN MADE FIBER PRODUCTION, HORLD MINUS U.S.	HIL. LBS.
	CORPL	CORNA LUAN HATE	\$/BU.
	SURPL#	SURGHUM, LOAN RATE	\$/RU.
	DATPL	DATS, LOAN HATE	\$/BU,
	BARPL	BARLEY, LUAN RATE	\$/AU.
	COUGSUS	CORN. HTT: 12FD FOR GASOHOLA OCT. SEPT.	MIL. BU.
	WHPCRUS	WUFAT, FARMFRAHFID RESERVE CCC STOCK RELEASE PRICE	X OF LOAN RATE
	SBPCLUS	SOYBEANS, CCC STOCK RELEASE PRICE UNDER LOAN PULLUT	X OF LOAN RATE
	WHELRPP	WHEAT, LOAN RATE PRIOR TO PLANTING	\$/BU.
	SOYVC*	SOYBFANS. VARIABLE COSTS	001.
	SUYLRPP	SOYBEANS, LOAN RATE PRIOR TO PLANTING	\$/RU,
	CORVC*	CORN. VARIABLE COST	S/AC.
	CURSAPHP	CURN, FRACTION OF EACH ACRE PLANTED AT THE HIMIMUN	PERCENT .
,	##!!##!!!	LEVEL OF PRUGRAM PARTICIPATION	

Service Systematics (September 1997)

(i	2
è	Y	7
- 2	_	
•	•	

MUHE	BER & HAHES	DESCHIPTION	UNITS
124	CORSAPXP	CORN, FRACTION OF EACH ACRE PLANTED AT THE HAXIMUM	PERCENT
125	COLLUDERY	AVERAGE RAINFALL IN MAY, MIDHEST STATES	Inches
125	COLPL COLSPHIC YDDC	COTTON. AMERICAN UPLAND, LOAN RATE	\$/LB'.
127	COLFE	COTTON, TOTAL SUPPLY IN THPORTING COUNTRIES, LESS INDIA	HIL. BALES
124	COCOLUIC	REAL GROSS DISPUSABLE INCOME, DEVELOPED COUNTRIES	1470=1,0
159	FOV	EXCHANGE RATE, COTTON EXPURTING COUNTRIES	1970=1.0
120	CUI COMEC	COTTON. SUPPLY IN FORFIGN EXPORTING COUNTRIES	MIL. BALES
130	CULSPHEC CURPGHLP	EXCHANGE RATE, COTTON EXPURTING COUNTRIES COTTON, SUPPLY IN FOREIGN EXPORTING COUNTRIES CORN, SUPPORT PAYMENT RATE AT MIN.LEVEL OF PROGRAM PARTICIPATION	\$/RU.
133	.YDLDC	REAL GROSS DISPOSABLE INCOME, LESS DEVELOPED COUNTRIES	INDEX
132.	CORPGXLP	CURN, SUPPORT PAYMENT RATE BASIS AT THE MAXIMUM	5/BU.
122	CORPUALP	A CHARLE OF THE COUNTY TARTETON TION	-
. 7.		CORN, PRODUCTION ELIGIBLE FOR SUPPORT AT THE MIMIHUM	BU./AC.
122	CORSPEMP		
	- " DDACMD	LEVEL OF PRUGRAM PARTICIPATION CORN, PRODUCTION ELIGIBLE FOR SUPPORT AT THE MAXIMUM	BU./AC.
137	CORSPEXP	CORNA PRODUCTION ELIGIBLE FOR SOFFORT OF THE TRANSPORT	
		LEVEL OF PRUGRAM PARTICITIPATION	\$/RU`
	RARPSD	PRICE OF SPRING BARLEY SEED	BU./AC.
	BARRS	SEEDING RATE, BARLEY	S/AC.
140	CORPDHLP	CURN, DIVERSION PAYMENTS AT THE MINIMUM	57 FG \$
		LEVEL OF PRUGRAM PARTICIPATION	S/AC.
141	CORPDXLP	CORN, DIVERSION PAYMENTS AT THE MAXIMUM	
		LEVEL OF PRUGHAH PARTICIPATION	s/BU.
	CORLRPP	CORN, LOAN HATE PRIOR TO PLANTING	DOL./AC.
	BARVC*	LEVEL OF PRUGHAH PARTICIPATION CORN, LOAN HATE PRIOR TO PLANTING BARLEY, VARIABLE PRODUCTION COSTS PRICE OF COTTON SEEDS SEEDING RATE, COTTON COTTON, SHARE OF CROP FORWARD TRADED PRICE OF HYBRID CORN SEED	S/CHT.
	COLPSD	PRICE OF COTTON SEEDS	LBS./AC.
	COLRS	SEEVING RATE, COTTON	PERCENT
140	COLCRT	CUTTON, SHARE OF CROP FORWARD TRADED	PERCENT
147	CORPSO.		\$/8U.
	CORRS	SEEDING RATE, CORN	LUS./AC. Percent
149	BARSAPMP	BARLEY, FRACTION OF EACH ACRE PLANTED AT THE HINIHUM	PERCENT
		LEVEL OF PRUGHAM PARTICIPATION	BEBCENE
150	BARSAPXP	BARLEY, FRACTION OF EACH ACRE PLANTED AT THE HAXIMUM	PERCENT
		LEVEL OF PRUGHAM PARTICIPATION	ue
151	LACFIHC	LEVEL OF PRUGKAM PARTICIPATION FARM INCOME, FROM HOME CONSUMPTION BARLEY, SUPPORT PAYMENT RATE AT THE MINIMUM LEVEL OF PRUGRAM PARTICIPATION	MII. DOL.
	BARPGHLP	BARLEY, SUPPORT PAYMENT RATE AT THE MINIMUM LEVEL	\$/BU.
• -			
153	BARPGXLP	BARLEY, SUPPORT PAYHENT RATE AT THE MAXIMUM LEVEL	\$/BU.
	200 0 200	OF PROGRAM PARTICIPATION	
154	LBPFHUS	LAMB. SEASON AVERAGE PRICE RECEIVED BY FARMERS	DUL./CHT.
	BARSPEMP	BARLEY, PRODUCTION ELIGIBLE FUR SUPPORT AT THE MINIMUM	BU./AC.
		LEVEL OF PRUGRAM PARTICIPATION	
154	HILBU	TUTAL HILK USED ON FARMS WHERE PRODUCED	BIL. LBS,
	HLSCPU8	HUTTON AND LAMB, COMMERCIAL PRODUCTION	HIL. LAS.
	HPOWM	INDEX OF FARM INPUTS, MACHINERY	1967=1.0
		SORGHUM, IMPORTS	HIL. BU.
	SURMI	PRICE OF SPHING DATS SEED	\$/BU.
100	OATPSD	ENTER OF SENTING DATA SEEN	-

ı
u
α
7

NUHB	ER & NAMES	DE5CRIPTION	UNITS
161	OATRS	SEEDING RATE, DATS	RU. AC.
163	PP7PC	SEEDING RATE, DATS INDEX OF PRICES PAID BY FARMERS, PRODUCTION ITEMS,	1967=100
164	PP7PT	AGRICULTURAL CHEMICALS INDEX OF PRICES PAID BY FARMERS, PRODUCTION ITEMS,	1967=100
	RIPFHUS .	TRACTORS AND SEEDS RICE, ROUGH, AVERAGE PRICE RECEIVED BY FARMERS	\$/CHT.
	RISPRUS	RICE, ROUGH, PRODUCTION	THOU. CWT.
			•
168	SORPSD	CURN, IHPURTS PRICE OF HYBRID SURGHUM SEED SEEDING RATE, SURGHUM PHICE OF SOYBEAN SEED SEEDING RATE, SUYBEANS	S/CAT.
160	SORRS	SEEDING RATE - SORGHUM	LBS./AC.
170	SOYPSD	SEEDING RATE, SURGHUM PHICE OF SOYBEAN SEED	S/BU.
171	9011 0D	SEEDING RATE, SOYBEANS	BU./AC.
	BARSPEXP	SEEDING RATE, SOYGEANS BARLEY, PRODUCTION ELIGIBLE FOR SUPPORT AT THE MAXIMUM	BU./AÇ.
1,5	DANGELER	LEVEL OF PRUGRAH PARTICIPATION	
173	BARPOHLP	BARLEY, DIVERSION PAYMENTS AT THE MINIMUM LEVEL	S/AC.
113	DAKFUILE	OF DOUGDAM PARTICIPATION	
174	BARPDXLP	OF PROGRAM PARTICIPATION BARLEY, DIVERSION PAYMENTS AT THE MAXIMUM LEVEL OF PROGRAM SANTICIPATION	S/AC.
114	DARFUALF	OF PROGRAM PARTICIPATION	• •
175	BARLRPP	BARLEY, LOAN RATE PRIOR TO PLANTING	\$/BU.
	SORVC*	SORGHUM, VARIABLE COST	DUL. /AC.
	SORSAPHP	SURGHUM, FRACTION OF EACH AGRE PLANTED AT THE MINIMUM	PERCENT
1,,	SUNSAFRE		· - · • · · · · · · · · · · · · · · · · ·
178	WHESPSD		S/RU.
		BEETING DATE - CONTING WHEAT	BU./AC.
. 117	WHESRS WHEWPSD	SECULD RAILS SPRING MICAL	\$/BU.
181	HACHEOG	OFFINE OF MINICA MICH. OLL.	BU./AC.
101	MUENKO BUDGABADA	SCENING RAILS MINICE MEAN AFRE DIANTED AT THE MAXIMUM	PERCENT
102	WHEWRS Sorsapxp	LEVEL OF PRUGRAH PARTICIPATION	
		SURGHUM, SUPPORT PAYMENT RATE AT THE MINIMUM LEVEL	\$/RU.
103	SORPGHLP	OF PROGRAM PARTICIPATION	
184	FERIW	EFRITITIES PRICE INDEX	1967=1.0
	SURWRJUNAUG	FERTILIZER PRICE INDEX SORGHUM PRECIPITATION, JUNAUG.(TX.,K5.,NE.,HO., OK.)	INCHES
•	BARSSDEC	BARLEY, PERCENT SOLD BY DEC 31	PERCENT
	SURPGXLP	SURGHUM, SUPPORT PAYMENT RATE AT THE MAXIMUM LEVEL	\$/BU.
100	JUNI BALF	OF ODGCDAN PARTICIPATION	
180	SURSPEMP	SORGHUM, PRUDUCTION ELIGIBLE FOR SUPPORT AT THE MIMIMUM	BU./AC.
101	SUNUI EMP	LEVEL OF PRUGRAM PARTICIPATION	
100	SURSSDEC	SURGHUM, PENCENT SOLD BY DEC 31	PERCENT
• -		SOYBEANS, PERCENT SOLD BY DEC 31	PERCENT
	SOYSSDEC SORSPEXP	SURGHUM, PRUDUCTION ELIGIBLE FOR SUPPURT AT THE MAXIMUM	BU./AC.
176	SURGERM	LEVEL OF PRUGRAM PARTICIPATION	**************************************
407	MAYECCAL		MIL. DOL.
173	HAYFCCAL	CASH RECEIPTS, HAY CASH RECEIPTS, PEANUTS	HIL. DOL.
174	FINAL	LADO REGETTIO, PLANUIS Didley Benefit of Food Marketen	PERCENT
175	LIMDA	BARLEY, PERCENT OF CROP MARKETED BORGHUM, DIVERSION PAYMENTS AT THE MIHIHUM LEVEL	S/AC.
140	SUKPOMLP	BURGHUM, DIVERSION PAYMENTS AT THE MIHIHUM LEVEL	₩ / ₩ B

	ı
Ĺ	,
()
Ĺ	,
	•

	ER & NAHES	DESCRIPTION	UNITS	
		OF PROGRAM PARTICIPATION		
197	COLPCHEO	COTTON, EQUILIZATION PAYMENT	CENTS/LB.	
198	FIMSB	SUYBEANS, PLACENT OF CRUP MARKETED	PERCENT	
199	FIMSB FIMSG	COTTON, EQUILIZATION PAYMENT SUYBEANS, PERCENT OF CROP MARKETED SORGHUM, PERCENT OF CROP MARKETED SURGHUM, DIVEKSION PAYMENTS AT THE MAXIMUM	PERCENT	
200	SURPDXLP	SURGHUM, DIVERSION PAYMENTS AT THE MAXIMUM	S/AC.	
2-4		LEVEL OF PRUGHAM PARTICIPATION		
201	COLHICC	SORGHUM, PERCENT OF CROP MARKETED SURGHUM, DIVERSION PAYMENTS AT THE HAXIMUM LEVEL OF PRUGHAM PARTICIPATION CUTTON, NET IMPURTS, COMMUNIST COUNTRIES CUTTON, NET IMPURTS, INDIA CUTTON, NET IMPURTS, INDIA CUTTON, ADJUSTMENT FACTUR IN US EXPORT IDENITY CUNSUMER PRICE INDEX, ALL ITFMS LESS FOUD CUTTON, ADJUSTMENT FACTUR FUR SUPPLY DEMAND IDENTITY FARM INCOME, FROM IMPUTED PENTS MAGE RATE, EATING AND DRINKING ESTABLISHMENTS AVERAGE HOURLY EARNINGS, BAKERY PHODUCT INDUSTRY PHODUCER PRICE INDEX, PAPER AND PULP PRUDUCTS PHODUCER PRICE INDEX, GLASS CONTAINERS BUTTER, DISAPPEARANCE, HILITARY VECTOR OF ZERUS NUT IN MODEL BUTTER, IMPURTS CHEESE, MILITARY DISAPPEARANCE CHEESE, TUTAL EXPORTS CHEESE, TUTAL EXPORTS CHEESE, CHEDDAR, SUPPORT PRICE DIFFERENCE BETHEEN CLASS I FEDERAL ORDER HINIMUM PRICE AND MINNESOTA-HISCONSIN MANUFACTURING GRADF PRICE MILK, CUNDENSED AND EVAPORATED, MILITARY DISAPPEARANCE MILK, FROZEN PRODUCTS, MILITARY DISAPPEARANCE MILK, FROZEN PRODUCTS, MILITARY DISAPPEARANCE MILK, NON-FAT DRY, FILITARY DISAPPEARANCE MILK, CONDENSED AND EVAPORATED, IMPORTS MILK, NONFAT DRY, IMPORTS MILK, NONFAT DRY, IMPORTS MILK, NONFAT DRY, IMPORTS MILK, NONFAT DRY, EXPORTS NUN-FAT DRY MILK, SUPPORT PRICE MILK, CLASS I ORDER PAYMENTS DIFFERANCE BETWEEN ACTUAL PRODUCER PRICE OF FLUID ELIGIBLE MILK AND COMPUTED FEDERAL ORDER PRICE	MIL. BALES	
2N2	CULHIIND	COTTON, NET IMPORTS, INDIA	MIL. BALES	
203	COLADJF .PCALL=F COLADJF1	COTTON, ADJUSTMENT FACTUR IN US EXPORT IDENITY	HIL. BALFS	
204	PCALL=F	CONSUMER PRICE INDEX, ALL ITEMS LESS FOUD	1967=1.0	
205	COLADIES	COTTON, ADJUSTMENT FACTUR FUR SUPPLY DEMAND IDENTITY	MIL. BALFS	
205	LACFIIR	FARM INCOME. FROM IMPUTED PENTS	MIL. DOL.	
508	HEDPL	WAGE RATE. EATING AND DRINKING ESTABLISHMENTS	S/HR.	
209	WRHER	AVERAGE HOURLY FARNINGS, BAKERY PRODUCT INDUSTRY	\$/HR.	
210	PPIP	PRODUCER PRICE INDEX. PAPER AND PULP PRODUCTS	1967#1.0	
	PPIGL	PRODUCER PRICE INDEX. GLASS CONTAINERS	1967=1.0	
	BUTCH	BUTTED, DISAPPEARANCE, HILITARY	BIL. LBS.	
	BOICH	DUTTER, DASHI CHARACT THE PERSON OF THE TOTAL TO THE TERMS OF THE TERM	NONE	
	NOVAR	OUTTO THOUSE OF THE CONTRACT O	BIL. LAS,	
	AUTHI	DUTTES THE WILL	BIL. LAS,	
	BUTHX	BUILER, EAFURIS	BII LBS.	
	CHECH	ALESE, FITAL EXPORTS	AIL. LAS.	
	CHEMX	CHEESE, INTAL EXPUNIS PRICE	CENTS/LB.	
	HILCHCHSPP	DIEGES CHEVARY SULVEY 1 FEAFRAL ORDER MINIMUM PRICE	S/CHT.	
614	HILCIOF	AND MINISTER ALTOCONSIN MANIFACTURING GRADE PRICE		
	HELCHER.	MALE CONTENDED AND SURDIDATED. HILLTARY DISAPPEARANCE	BIL. LAS.	
	MILCHEC:	MILE SUCTES DODUCTS. MILITARY DISAPPEARANCE	BIL. LBS.	
	MILCHFZ	MILN, FRUEER FRUDUCTON HIGHTAN PARAMETERS FRUEER FR	RIL. LBS.	
	MILCHND	MILE CONDENED AND EVADUATED THORSES	RIL. LBS.	
	MILMIEC	HILK, CUNDENSEL AND EVAFORATED AND CONTROL	BIL. LAS.	
	MILHIFZ	MICH, PROZES DAINT PRODUCTO, INCOME	RIL. LBS.	
	MILMIND	MILL, NONCELD AND EVADORATED. EXPORTS	BIL. LAS.	
	HILMXEC	MILK, LUNDENSEN AND EVAPORATEDS ENVIOLE	BIL. LBS.	
	HILHXND	MILK, NUMERAL DRY, EAFORTO	CENTS/LB.	
	MILNFDSPP	NUNDER DAY MILL, SUFFURI FRIGE	S/CHT.	
	HILOOP	DIFFERANCE BETWEEN ACTUAL PHODUCER PRICE OF FLUID ELIGIBLE	S/CHT.	
521	HILPFDIF	DIFFERANCE DELWEEN ACTUAL PRODUCES FILE OF FEMALE SELECTION		
		HILK AND COMPUTED FEDERAL ORDER PRICE	CENTS/LB,	
	HILSPPBUT	BUTTER, SUPPORT PRICE	BIL. LAS.	
	CHEMI	CHEESE, IMPURTS	HIL. DOL.	
_	LACFIU	FARM INCOME, FROM OTHER SUURCES	BIL. LBS.	
	BUTGG	BUTTER, GOVERNMENT DONATIONS	BIL. LBS.	
	CHEGG	CHEESE, GOVERNMENT DONATIONS	BIL. LAS, .	
237	MILGGND	MILK, NON-FAT DRY, GOVERNMENT DONATIONS	RIL. LRS.	
200		harten acception	BIL. LBS.	
239	CHENG	CHEESE, GOVERNMENT EXPORTS	114F8 ALA4	

C	ند	
Č	c	
ĭ		
ĭ		

	ER & NAME	<u> </u>	UNITS
- 4	HILHGND	AND AND THE RESERVE OF THE PROPERTY OF THE PRO	071 104
241	RUTDV	BUTTER, UNALCOUNTED GOVERNMENT RESIDUAL CHEESE, UNACCOUNTED GOVERNMENT RESIDUAL MILK, NON-FAT DRY, UNACCOUNTED GOVERNMENT RESIDUAL	BIL. LBS,
242	CHEDV	CHEESE, UNACCOUNTED GOVERNMENT RESIDUAL	BIL. LBS.
243	HILDVND	MILK, NON-FAT DRY, UNACCOUNTED GOVERNHENT RESIDUAL	RIL. LRS.
248	.POPH-CPE .	POPULATION, WORLD LESS USSR, PRC, EA EUR, JULY 1	MIL.
	WHESP+HHME		MIL. HET. TONS
	SORLRPP		s/BU.
258	COLSL	COTTON, TOTAL ALLOTTED ACREAGE	THOU, AC.
259	CTPT	COTTON, TOTAL ALLUTTED ACREAGE COTTON, AMERICAN UPLAND, TARGET PRICE COTTON, ADMINISTRATIVE YIELD COTTON, LUAN RATE PRIOR TU PLANTING COTTON, SPECIAL LUAN RATE FOR MAXIMUM DIVERSION COTTON, SUPPORT PAYMENT RATE BASIS AT THE MIMIMUM	\$/Lů.
261	COLSYG	COTTON, ADMINISTRATIVE YIELD	LB./AC.
262	COLPLPP	COTTON, LOAN HATE PRIOR TO PLANTING	CENTS/LB,
263	COLPLHD	COTTON, SPECIAL LOAN RATE FUR MAXIMUM DIVERSION	CENTS/LB,
264	COLSUPNL	West we want to the contract of the contract o	CENTS/LB.
		LEVEL OF PRUGHAM PARTICIPATION	·-
265	COLBUPXL	COTTON, SUPPORT PAYMENT RATE BASIS AT THE MAXIMUM	CENTS/LB.
		LEVEL OF PRUGRAM PARTICIPATION	
	COLVC*	CUTION, VARIABLE COSTS	S/AC.
267	CULSANLP	COTTON, FRACTION OF EACH ACRE PLANTED AT THE MINIMUM	FRACTION
		LEVEL OF PRUGRAM PARTICIPATION	
268	COLSENLP	CUTTON, PRODUCTION ELIGIBLE FOR SUPPORT AT THE MINIMUM	LBS./AC.
		LEVEL OF PRUGRAM PARTICIPATION	0.440
269	COLDPNLP	COTTON, DIVERSION PAYMENTS AT THE MINIMUM LEVEL OF PROGRAM	S/AC.
_		PARTICIPATION	#0.4C##6U
270	COLSAXLP	COTTON, FRACTION OF EACH ACRE PLANTED AT THE MAXIMUM	FRACTION
		LEVEL OF PRUGRAM PARTICIPATION	1.00 446
271	COLSEXLP	CUTTON, PRODUCTION ELIGIBLE FOR SUPPORTPAYMENTS AT	LBS./AC.
		THE MAXIMUM LEVEL OF PRUGRAM PARTICIPATION	S/AC.
272	COLDPXLP	COTTON, DIVERSION PAYHENTS AT THE MAXIMUM LEVEL	3//6
		OF PRUGRAM PARTICIPATION	NONE
	COLD	COTTON, DUMMY FUR YEARS WHEN NO ELIGIBLITY REQUIREMENT	MII AP
274	COLMAXAD	COTTON, ADDITIONAL ACRES THAT COULD BE PLANTED AND STAY	MIL. AC.
		WITHIN TOTAL ALLOTHENT	MII AC
	COLMAX	COTTON, MINIMUM ALLOTMENT	HIL. AC.
276	COLDD	CUTTON, DUHNY FOR YEARS WHEN NO MARKETING ORDERS	

INDEX ENDOGENOUS VARIABLES

NUMBER	NAME	PAGE
8	BAGKS	23
3	BAGPM7C	18
250	BARDD*JM	255
126	BARDE*JM	245
120	BARDH*JM	244
231	HARD S ±JM	249
248	BARDT*JM	253
303	BARFEMNR	267
295	BARFNRNL	262
299	BARFNRXL	263
259	BARFP	257
568	BARFS	258
232	BARHCC1*JM	250
113	BARHH1*JM	242
234	BARHPRRE	252
117	BARHT*JM	243
283	BARPEXP	560
130	BARPF	± .
274	BARPFWG	259
191	BARPICP	248
146	BARSA	246
301	BARSAINP	265
300	BARSAIPT	264
302	BAPSAOSP	366
254	BARSH	256
150	BARSP	247
249	BARST*JM	254
233	BARSY	251
287	BARYEXP	261
32	BEEAP	44
30	BEEAPED	42
31	BEEAPNF	43
33	REEAS	45
3.9 35	BEECP	47
34	BEECT	46
42	BEEHT	54
38	BEEIR	50
20	. DE C \$1.	οc

NUMBER	NAME	D.C.C
87		PAGE
350	BUTCC	100
225	BUTGP BUTGU	131
331	витнв	126
506	BUTHG	128
80	BUTIR	107
207	BUTSP	94
156	CACFC	108
18	CALDD	309 32
20	CALKS	33
23	CALPF	36
17	CALSC	31
36	CATKAFD	48
37	CATKANE	49
29 30	CATKSNF	41
39 40	CATPFFD	51
41	CATPFFE	52
86	CATPENE	53
353	CHECT Chegp	99
224	CHEGU	134
208	CHEHB	125
209	CHEHG	109
81	CHEIRAM	110
90	CHESP	95 107
43	CHIAPOT	103 55
48	. CHIASUT	60
47	CHIASYO	59
50	CHIÇÇO	62
49	CHICCYO	61
46	CHIH <u>T</u> OT ₁	58
45 51	CHIHTYOI	57
52	CHIIRFR	63
5 <i>c</i> 53	CHIPR	64
· 54	CHIPWBR9C	65
44	CHIPWXB CHISPYO	66
61	CHISVLA	56
335	COLDM	73
341	COLDT	292
336	COLHT*	296
342	COLMIF-I	293
343	COLMX	297
348	COLMXF-I	298 299
356	COLNRXP	303
		303

NUMBER	NAME	PAGE
358	COLNRNP	304
359	CULNRMP	305
360	COLNRM	.306
339 ,	COLPCM	*
349	COLPDEF	300
338	COLPF*	295
316	COLPFAU	288
354	COLPFEX	301
317	COLSA	289
333	COLSH	290
315	colsP	287
337	COLSŢ	294
334	COLSY	291
355	COLSYEXP	302
247	CORDD	201
123	CORDF	193
118	CORDH*	191
227	CORDS	197
79	CORDT	188
262	CURFEMNR	205
?70 341	CORFNRNL	207
261 257	CORFNRXL CORFP	204
	CORFS	203
265 265	CORHCC1*	506
110	CORHHUN	198
229	CURHPRRE	189
114	CORHT	199 190
121	CORMX	192
282	CURPEXP	209
127	CORPF	*
273	CORPFWG	208
19	CORPICE	187
143	CURSA	194
297	CORSAINP	212
298	CURSAUSP	213
296	CORSDINA	211
252	CORSH	202
147	CORSPGR	195
171	CURST	196
230	CURSYGR	200
289	CURYEXP	210
26	CUWKSMC	86
25	COWKSNF	38
75	COWSEMC	90
15	COMSNBE	30

NUMBER	NAME	PAGE
16	CUWSNMC	85
178	CROFCT	3.19
71	CROFP	308
170	CROF \$	339
159	DAIFC	313
353	DAIGP	134
91	DARCPI	104
203	EGGAA	82
63	EGGAP	75
65 .	EGGAS	77
65	EGGBB	74
66	EGGCC	78
64	EGGHT	76
67	EGGIR.67	79
68	EGGPF	80
69	EGGPRAL	81
345	FDC	83
347	FDD	130
346	FDE	84
163	FEGFC	316
189	FIF	328
188	FIFUT	327
182	FIRBA	321
183	FIRCO FIRUA	322
184	FIRSB	323
185	FIRSG	324 775
186	FIRWH	325 326
187 322	FISIR	326 363
314	FIYINV	332
190	FIYRN	329
192	FIYTN	330
162	FOGFC	315
95	GCAU*	268
24	HEISBBE	37
157	HOGEC	311
11	HOGKS	26
12	HOGSM	27
6	HUGSNBR	21
168	LACEDPR	337
167	LACEF	336
318	LACEHLB	348
321	LACEINT	350
166	LACELIV	335
173	LACEMSC	342
319	LACERCO	349
172	LACERNT	340

NUMBER	NAME	PAGE
176	LACESD	344
180	LACET	346
312	LACETAX	347
175	LACEU	343
179	LACFCT	320
160	LIVFCO	314
177	LIVFCT	318
271	LACFPG	331
92	LIVIĒ	351
94	LIVIR	353
93	LIVJF	352
327	MARIR	368
211	MILAMCHEE	112
73	MILAP	88
212	MILASFM	113
72	WILBC	87
213	MILBCND	114
214	MILBUT	115
84	MILCCEC	97
82	MILCCFZ	96
85	MILCCMC	98
204	MILCEND	105
215	WILECTOD	116
526	MILGUND	127
332	MILHBND MILHBND	129
216	MILHTEV	117
217 77	MILIR	118
7 <i>7</i>	MILIREV	92
78 78	MILIRIC	91 93
210	MILMFG	111
218 218	MILMWAT	119
219	MILOMP	120
74	MILPF	89
220	MILPPFEMAT	121
221	HILPPMAT	122
205	MILPWDR	196
88	MILSPEC	101
89	MILSPFZ	102
555	MILSPND	123
223	MILSPPLTS	124
352	NFDGP	133
135	0ATUD*JM	273
125	OATDF★JM	272
119	OATDH★JM	271
235	OATDS*JM	278
169	OATDT*JM	276

	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
NUMBER	NAME	PAGE
310	DATFEXNE	286
266	NATES	283
236	OATHCC1*JM	· 279
112	OATHH1*JM	269
238	OATHPRRE	281
116	OATHT*JM	270
280	DATPEXP	284
128	OATPF	*
145	DATSA	274
256	DATSH	282
149	DATSP	275
174	OATST*JM	277
237	<u> </u>	280
286	OATYEXP	285
164	OISFC	317
201	.PC	360
199	.PC-U	358
196	РССВ	355
200	.PCF_	359
197	.PCFO	356
323	.PCFV	364
198	•PCH ·	357
326	.PCNAL	367
202	.PCu <u>M</u>	361
324	.PCPF	365
195	PCPOU	354
325	PCSS	366
7	PIGSC	22
5	PIGSEBR	20
9	PURAP-77	24
13	PORAS-77	. 28
14	PORCC-77	29
10	PORHT1	25
1	PORIR.67	16
158	POLIFC	312
27	SAHKS	39
85	SAHKSFD	40
100	SOMDD*	140
328	SUMHT*	157
101	SUMMX* Sompf	141
102		142 ,
99	SUMSP★ SUODD	139
105	SOUHT	145
104 329	SUOMC**+PL	144
	SUOPM	158
106	SUOSP	146
103	อนบอา	143

NUMBÉR	NAME	PAGE
194	SURDD	
124	SORDF	225
239	SORU S	520
161	SURDT	226 223
309	SURFEMNR	241
307	SURFNRNL	239
308	SURFNRXL	240
258	SORFP	236
267	SORFS	232
240	SURHCC1*	227
111	SURHHUN	217
242	SURHPRRE	229
115	SURHT	218
83	SORMC	215
122	SURMX	219
264	SURPEXP	234
129	SORPF*	*
275	SURPFWG	233 .
109	SORPICP	213
144	SURSA	221
294	SURSAINP	238
292	SUPSAOSP	236
293	SORSDINP	237
255	SURSH	230
148	SORSPGR	555
165	SURST	224
241	SURSYGR	558
290	SURYEXP	235
4	SOWKS	19
2 330	SUWPM7C	17
	SOYDV	159
311 152	SUYFEXNR	156
70	SOYHCC	152
97	SOYHH	135
96	SOYHT	137
285	SUYMX	136
108	SOYPEXP SUYPF	154
107	SOYPM	148
140	SUYSA	147
98	SOYSC	149
253	SUYSH	138
142	SOYSP	153
141	SOYSY	151 150
291	SOYYEXP	
320	TUTACRE	15 5 305
55	TURAP	305 67
	i un n;	6/

NUMBER	NAME	PAGE
57	TURAS	69
5A	TURCC	. 70
56	TURHT1	68
60	" TURPF	72
59	TURPR	71
21	VEAAT	34
22	VEAIR	35
313	VLAND	362
245	WHEDD*JM	173
137	WHEDF*JM	164
133	WHEDH*JM	162
131	WHEDS	160
246	wHEDT⋆JM	174
272	WHEFEMNR	180
263	WHEFNRNL	177
264	WHEFNRXL	178
500	WHEFP	176
269	WHEFS	179
243	WHEHCC±JM	171
132	WHEHH*JM	161
151	WHEHPRRE	166
138	wHEHŢ⋆JM	165
136	₩HEMX *JM	163
281	WHEPEXP	182
139	WHEP <u>F</u>	*
276	WHEPEWG	181
193	WHEPICP	170
153	WHES ≜	107
305	WHESAINP	185
306	WHESAUSP	. 186
304	WHESDINP	184
251	WHESH	175
155	₩ĦĔŞ₽×ĴM	169
244	wHE'SŢ*JM	172
154	WHESY	168
288	WHEYEXP	183

^{*} VARIABLE IS SOLVED FOR BY INVERTING SUPPLY-DEMAND IDENTITY (SEE PAGE 14).

REFERENCES

- (1) Bancroft, Robert L. "An Econometric Analysis of Aggregate Acreage Response, Program Participation and Land Retirement." Unpublished Ph.D disseration. Purdue University, 1981.
- (2) Baumes, Harry S., and William H. Meyers. <u>The Crops Model: Structural Equations Definitions</u>, and Selected Impact Multipliers. NED Staff Report. U.S. Dept. Agr., Econ. Stat. Coop. Serv., Mar. 1980.
- (3) Collins, Keith J. "The Effects of Selected Supply and Demand Factors on the U.S. Cotton Market," <u>Cotton and Wool Situation</u>. CWS-23. U.S. Dept. Agr. May 1980. Pp. 22-24.
- (4) Dahlquist, Germund, and Ake Bjorck. Numerical Methods. Englewood Cliffs, N.J.: Prentice-Hall Inc., 1969. Pp. 188-196.
- (5) Green Robert C., and Roger L. Hoskin. The Crops Model: Feedgrains, Wheat, and Soybeans Submodels. NED Staff Report. U.S. Dept. Agr., Econ. Res. Serv., Forthcoming.
- (6) Heien, Dale. "An Econometric Model of the U.S. Pork Economy," Review of Economics and Statistics, Vol. 57, 1975, pp. 370-75.
- (7) Heien, Dale. "An Economic Analysis of the U.S. Poultry Sector," American Journal of Agricultural Economics, Vol. 58, 1976, pp. 184-91.
- (8) Heien, Dale, and Jimmy L. Matthews. "An Econometric Model of the U.S. Beef Cattle Industry." Price Research and Methods Section Working Paper. U.S. Dept. Agr., Econ. Res. Serv., 1973.
- (9) Haidacher, R.C., C.E. Overton, and R.C. Kite. "An Econometric Approach to Developing a Cross-Commodity Forecasting System with Emphasis on Beef and Dairy." CED Forecast Support Group Working Paper. U.S. Dept. Agr., Econ. Res. Serv., March 1977.
- (10) Houck, J.P., and Mary E. Ryan. "Supply Analysis for Corn in the United States: The Impact of Changing Government Programs," American Journal of Agricultural Economics, Vol. 54, 1972, pp. 124-91.
- (11) Houck, J.P., M.E. Ryan, and Abraham Subotnik. Soybeans and Their Products. Minnesota: University of Minnesota Press, 1972.
- (12) Kite, Rodney C. "Six Models for the Livestock Economy: Pork, Beef, Chicken, Turkey, Eggs, and Dairy." CED Forecast Support Group Working Paper. U.S. Dept. Agr., Econ. Res. Serv., Mar. 1976.
- (13) Kost, William E. "Model Validation and the Net Trade Model," Agr. Econ. Res., Vol. 32, 1980, pp. 1-16.

- (14) Lovell M. "Manufacturers Inventories, Sales Expectations, and the Acceleration Principle," <u>Econometrica</u>, Vol. 29, 1960, pp. 293-314.
- (15) Matthews, Jimmy L. "Conditional Market Forecasts and Implications for the U.S Soybean Economy," Fats and Oil Situation. FOS-268. U.S. Dept. Agr. July 1973.
- (16) Matthews, Jimmy L., A.W. Womack, and Robert G. Hoffman. "Formulation of Market Forecasts for the U.S. Soybean Economy with an Econometric Model," Fats and Oil Situation. FOS-260. U.S. Dept. Agr. Dec. 1971.
- (17) Pindyck, Robert S., and Daniel L. Rubinfeld. Econometric Models and Econometric Forecasts. New York: McGraw-Hill, 1976.
- (18) Salathe, Larry E., J. Michael Price, and Kenneth E. Gadson. "The Food and Agricultural Policy Simulator". Agr. Econ. Res. Vol. 34, No. 2, April 1982.
- (19) Teigen, Lloyd D., and Abner W. Womack. "An Econometric Model of the Livestock and Feed Sector." Paper presented at the First Annual Seminar on Livestock Futures Market Research, Chicago, Ill., June 1981.
- (20) Theil, H. Economic Forecasts and Policy. Amsterdam: North-Holland Publishing Co., 1961.
- (21) Todd, Richard M. A Revised Farm Income Model. NED, Staff Report. U.S. Dept. Agr., Econ. Stat. Coop. Serv., Jan. 1980.
- (22) Womack, Abner W. "USDA Models -- A Review of Research Conducted by the Price Research Section, 1950-79." Presented at the Symposium on Econometric Modeling and Forecasting for Agriculture, Ottawa, Canada, May 22-23, 1980.
- Yanagida, John F. and Roger K. Conway. Annual Livestock Model of the United States. NED Staff Report. U.S. Dept. Agr., Econ. Stat. Coop. Serv., Jan. 1980.

