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STAFF PAPER

FARM MANAGEMENT DATA BANK®
DOCUMENTATION

LARRY N. LANGEMEIER**

April 1990 No. 90-10

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FARM MANAGEMENT DATA BANK* DOCUMENTATION

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April 1990 No. 90-10

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SECTION I FARM MANAGEMENT DATA BANK SAS DATA FILE

INTRODUCTION FARM MANAGEMENT DATA BANK SAS DATA FILE

Section I outlines in-depth the whole-farm variables stored on the Farm Management Whole-Farm Data Bank, SAS Data File. This file currently contains 483 variables per farm for approximately 2,300 to 3,000 farms for the years 1973 through 1989. Subsequent years' data will be added to the overall file when made available. Other SAS data files will be developed from this comprehensive data bank, such as a file that contains only farms that have continuous data for a given period.

The data sources are farms enrolled in the Kansas Farm Management Association program. For each farm, the variable values are on a per operator basis, except for "Gross Value of Crops (451)," which includes the landlord's share of the value of crop production. Except where indicated by decimal format, the values are whole numbers. Section II titled "K-MAR-105 Directory and Raw Data File" provides additional information on the source of the data as obtained from the Kansas Farm Management Association Account Book and the K-MAR-105 Year-End Whole-Farm Business and Enterprise Analysis program.

The SAS Data File provides a means whereby extension, instruction, and research personnel can easily access the data bank to obtain information for numerous projects. Every user, through the Department of Agricultural Economics Systems Analyst, has access to the data bank information using a simple, but standardized, procedure.

FARM MANAGEMENT DATA BANK SAS DATA FILE*

VARIABLE #	ITEM EXPLANATION	DECIMAL FORMAT
SPECIAL DATA ITEMS	:	
Farm	Farm Number and Year of Data 1 Association Number 2-3 County Number 4-8 Farm Number	
Year	9-10 Year of Data	
001	Farm Type Code	
	1976-Present: Farm typing is utilization. For farms to be single enterprise farm, 70 per total labor must be utilized w enterprise; whereas in a dual type, 35 percent of the total utilized with each enterprise.	classified as a cent of the ith that enterprise farm
	1973-75: Same as above, excep classified as "Cash Crop Dry o 50 percent or more of the labo crop production. If 50 percen was not used in crop productio single or dual enterprise farm determined. Also, a number of farm types were added in 1976.	r Irrigated" if r was used for t of the labor n, then other types were
	(See Appendix Table A for a de various farm types).	finition of the
002	Crop Acres	9 (6).9
	Total (owned and rented) crop	acres.
. 003	PMWU Production Man Work Un	its 9 (7).99
	Each acre of each different cr livestock unit is assigned a " as a fraction of a 10-hour day man work units.	labor factor"

^{*}Except where noted, the variable values are whole numbers. The decimal format is indicated for those variables that carry a decimal. For example, the variable "Crop Acres" has a decimal format of 9(6).9, which means that there are 6 digits before the decimal and one digit after the decimal.

VARIABLE	DECIM	
#	ITEM EXPLANATION FORM	——
	Labor standards were revised in 1976. Kansa Agricultural Experiment Station Bulletins 587, 589, and 593, "Labor Requirements for Eastern, Central, and Western Kansas Crops", list the standards used for the periods 1973 75 and 1976-present. The current labor standards are also listed in KSU Farm Management Guide, MF-670, "Labor Standards for Forward Planning".	
004	Capital Managed (\$)	
	Total farm assets plus value of rented land.	
005	Gross Farm Income (\$)1	
	Total farm income computed on accrual basis.	
006	Net Farm Income (\$)1	
	Equals Gross Farm Income minus cash operatin expense minus depreciation. Represents a return to operator's unpaid labor, management, and net worth.	g
007	Farm Summary Usage Code	
	0 Farm was used in Summary and Analysis Report1 Farm was not used in Summary and Analysis Report	
	If a farm is coded "1", then the Farm Management Fieldman determined that this farm's data contained an error or the farm was not typical of farms in the county or region. Thus, the farm was removed from that year's Summary and Analysis Report.	
008	Business Organization Type	
	<pre>1 Corporations 2 Partnership, Owner 3 Partnership, Part-Owner 4 Partnership, Tenant 5 Sole Proprietor, Owner</pre>	

 $^{^1{\}rm The}$ variables "Gross Farm Income" and "Net Farm Income" include off-farm income such as custom work, but not non-farm income.

/ARIABLE		DECIMAL
#	ITEM EXPLANATION	FORMAT
	6 Sole Proprietor, Part-Owner 7 Sole Proprietor, Tenant	
	Owner, part-owner, and tenant cl based entirely on whether owned crop acres.	
009	Tax Code	
	0 Cash 1 Accrual	
	Variable has no real importance, s income is computed on accrual basi	
010	Number of Operators	9 (1).9
	Represents number of unpaid oper the case of corporations, shareh salary was removed from labor ex number of months of operator lab under unpaid operator labor. Fo each year, the Farm Management F have recorded zero months of unpan incorporated farm. In these number of operators would be zer	olders' pense and or recorded r a few farms ieldmen may aid labor for cases, the
011	Number of Men	9 (2).9
	Represents number of unpaid oper number of hired employees.	ators plus
012	Number Family Dependents	
	Total number of family dependent of partnership and corporation f value for number of family depen for the "primary" operator.	arms, the
013	Operator's Age	
	Age of the operator. For partne corporation farms, the value for age will be for the "primary" op a few corporation farms, no prim was selected, and thus the value operator's age will be zero.	operator's erator. For ary operator
014	Oldest Child's Age	

VARIABLE

Represents age of oldest child correlated with variables "012" and "013". This variable is used to develop the family living expense summaries in the Summary and Analysis Reports.

FAMILY LIVING EXPENSES-TAXES-NONFARM INCOME AND EXPENSE:

VARIABLES "015-034" REPRESENT FAMILY LIVING EXPENDITURES, TAXES, AND NONFARM INCOME AND EXPENSE. THE NONFARM INCOME VALUES REPRESENT ONLY THE INFORMATION RECORDED IN THE FARM AND HOME ACCOUNT BOOKS AND THUS MAY NOT REPRESENT THE TOTAL NONFARM INCOME.

FAMILY LIVING EXPENDITURES ARE PROVIDED FOR THOSE PRODUCERS THAT KEPT A FAMILY LIVING ACCOUNT BOOK. A TEST ON SPECIFIC VARIABLES, SUCH AS FOOD EXPENSES GREATER THAN \$1700.00, CAN BE USED TO DETERMINE WHICH FARMS PROVIDED A COMPLETE FAMILY LIVING SUMMARY. FOR OTHER FARMS, THE DATA MAY NOT BE CORRECT.

A NUMBER OF THE VARIABLES WERE REVISED IN 1976-1980.

015	Medical Care (\$)
016	Contributions (\$)
017	Food (\$)
018	Clothing (\$)
019	Household Operations ² (\$)
020	Education ² (\$)
021	Furniture and Household Equipment (\$)
022	Utilities (\$)
023	Auto Expense (\$)
024	Miscellaneous Taxable Nonfarm Income ³ (\$)
025	Non-Taxable Income ³ (\$)
026	Gifts ² (\$)
027	Personal-Recreation ² (\$)
028	Life Insurance ² (\$)
029	Deductible Nonfarm Expense ² (\$)
030	Wages⁴ (\$)
031	Rent and Royalities ⁴ (\$)
032	Dividends and Interest ⁴ (\$)
033	Income, Social Security, and Property Tax ³ (\$)
034	House Upkeep and Repairs ² (S)

²Revised in 1976.

³New 1979 and revised 1980.

⁴New/revised 1980.

VARIABLE		DECIMAL
#	ITEM EXPLANATION	FORMAT

LIVESTOCK FEED DISAPPEARANCE:

035

Livestock Feed Disappearance (\$)

Represents feed disappearance, both raised and purchased, computed on a dollar basis. Price shifts from beginning and ending inventory will influence this value. The value does not include wheat or cash crops, such as soybeans.

LIVESTOCK AND GRAIN SALES AND PURCHASES:

VARIABLES "036-155" REPRESENT LIVESTOCK-GRAIN SALES AND PURCHASES. FOR EACH SPECIFIC TYPE OF LIVESTOCK OR CROP, FOUR VALUES ARE PROVIDED: TI (K-MAR-105 CODE), UNITS, POUNDS, AND DOLLARS. FOR EXAMPLE, RAISED BEEF SALES WILL HAVE THE FOLLOWING VARIABLES:

036 -- Raised Beef Sales, TI = 11

037 -- Raised Beef Sales, Units

038 -- Raised Beef Sales, Pounds

039 -- Raised Beef Sales, Dollars

THE UNITS AND POUNDS OF A LIVESTOCK-GRAIN SALE OR PURCHASE WERE NOT RECORDED IN MOST FARM ACCOUNT BOOKS; THUS, THESE VALUES WILL BE ZERO FOR MOST OF THE VARIABLES. THE TI (K-MAR-105 CODE) VALUE HAS NO REAL IMPORTANCE.

036	Raised Beef Sales, TI = 11
037	Raised Beef Sales, Units
038	Raised Beef Sales, Pounds
039	Raised Beef Sales, Dollars
040	Raised Dairy Sales, TI = 12
	•
041	Raised Dairy Sales, Units
042	Raised Dairy Sales, Pounds
043	Raised Dairy Sales, Dollars
044	Raised Sheep Sales, TI = 13
045	Raised Sheep Sales, Units
046	Raised Sheep Sales, Pounds
047	Raised Sheep Sales, Dollars
048	Raised Swine Sales, TI = 14
049	Raised Swine Sales, Units
050	Raised Swine Sales, Pounds
051	Raised Swine Sales, Dollars
052	Raised Poultry Sales, TI = 16
053	Raised Poultry Sales, Units
054	Raised Poultry Sales, Pounds
055	Raised Poultry Sales, Dollars

VARIABLE	DECIMAL
#	ITEM EXPLANATION FORMAT
056	Raised Grain Sales, TI = 17
057	Raised Grain Sales, Units
058	Raised Grain Sales, Pounds
059	Raised Grain Sales, Dollars
060	Raised Hay and Forage Sales, TI = 18
061	Raised Hay and Forage Sales, Units
062	Raised Hay and Forage Sales, Pounds
063	Raised Hay and Forage Sales, Dollars
064	Raised Cash Crop Sales, TI = 19
065	Raised Cash Crop Sales, Units
066	Raised Cash Crop Sales, Pounds
067	Raised Cash Crop Sales, Dollars
068	Poultry Purchases, TI = 40
069	Poultry Purchases, Units
070	Poultry Purchases, Pounds
071	Poultry Purchases, Dollars
072	Feed Purchases, TI = 44
073	Feed Purchases, Units
074	Feed Purchases, Pounds
075	Feed Purchases, Dollars
076	Purchase for Resale, Beef Sales, TI = 61
077	Purchase for Resale, Beef Sales, Units
078	Purchase for Resale, Beef Sales, Pounds
079	Purchase for Resale, Beef Sales, Dollars
080	Purchase for Resale, Dairy Sales, TI = 62
081	Purchase for Resale, Dairy Sales, Units
082	Purchase for Resale, Dairy Sales, Pounds
083	Purchase for Resale, Dairy Sales, Dollars
084	Purchase for Resale, Sheep Sales, TI = 63
085	Purchase for Resale, Sheep Sales, Units
086	Purchase for Resale, Sheep Sales, Pounds
087	Purchase for Resale, Sheep Sales, Dollars
088	Purchase for Resale, Swine Sales, TI = 64
089	Purchase for Resale, Swine Sales, Units
090	Purchase for Resale, Swine Sales, Pounds
091	Purchase for Resale, Swine Sales, Dollars
092	Purchase for Resale, Grain Future Sales, TI = 66
093	Purchase for Resale, Grain Future Sales, Units
094	Purchase for Resale, Grain Future Sales, Pounds
095	Purchase for Resale, Grain Future Sales, Dollars
096	Purchase for Resale, Grain-Hay-Forage Sales, TI = 67
097	Purchase for Resale, Grain-Hay-Forage Sales, Units
098	Purchase for Resale, Grain-Hay-Forage Sales, Pounds
099	Purchase for Resale, Grain-Hay-Forage Sales, Dollars
100	Purchase for Resale, Beef Purchases, TI = 71
101	Purchase for Resale, Beef Purchases, Units
202	ratenase for Resale, beet fulchases, units

VARIABLE	DECIMAL
#	ITEM EXPLANATION FORMAT
102	Purchase for Resale, Beef Purchases, Pounds
103	Purchase for Resale, Beef Purchases, Dollars
104	Purchase for Resale, Dairy Purchases, TI = 72
105	Purchase for Resale, Dairy Purchases, Units
106	Purchase for Resale, Dairy Purchases, Pounds
107	Purchase for Resale, Dairy Purchases, Dollars
108	Purchase for Resale, Sheep Purchases, TI = 73
109	Purchase for Resale, Sheep Purchases, Units
110	Purchase for Resale, Sheep Purchases, Pounds
111	Purchase for Resale, Sheep Purchases, Dollars
112	Purchase for Resale, Swine Purchases, $TI = 74$
113	Purchase for Resale, Swine Purchases, Units
114	Purchase for Resale, Swine Purchases, Pounds
115	Purchase for Resale, Swine Purchases, Dollars
116	<pre>Purchase for Resale, Grain Future Purchases, TI = 76</pre>
117	Purchase for Resale, Grain Future Purchases, Units
118	Purchase for Resale, Grain Future Purchases, Pounds
119	Purchase for Resale, Grain Future Purchases, Dollars
120	Purchase for Resale, Grain-Hay-Forage Purchases, TI = 77
121	Purchase for Resale, Grain-Hay-Forage Purchases, Units
122	Purchase for Resale, Grain-Hay-Forage Purchases, Pounds
123	Purchase for Resale, Grain-Hay-Forage Purchases, Dollars
124	Breeding Livestock, Beef Sales, TI = 81
125	Breeding Livestock, Beef Sales, Units
126	Breeding Livestock, Beef Sales, Pounds
127	Breeding Livestock, Beef Sales, Dollars
128	Breeding Livestock, Dairy Sales, TI = 82
129	Breeding Livestock, Dairy Sales, Units
130	Breeding Livestock, Dairy Sales, Pounds
131	Breeding Livestock, Dairy Sales, Dollars
132	Breeding Livestock, Sheep Sales, TI = 83
133	Breeding Livestock, Sheep Sales, Units
134	Breeding Livestock, Sheep Sales, Pounds
135	Breeding Livestock, Sheep Sales, Dollars
136	Breeding Livestock, Swine Sales, TI - 84
137	Breeding Livestock, Swine Sales, Units
138	Breeding Livestock, Swine Sales, Pounds
139	Breeding Livestock, Swine Sales, Dollars
140	Breeding Livestock, Beef Purchases, TI = 91
141	Breeding Livestock, Beef Purchases, Units
142	Breeding Livestock, Beef Purchases, Pounds
143	Breeding Livestock, Beef Purchases, Dollars

VARIABLE #	DECIMAL ITEM EXPLANATION FORMAT
144	Breeding Livestock, Dairy Purchases, TI = 92
145	Breeding Livestock, Dairy Purchases, Units
146	Breeding Livestock, Dairy Purchases, Pounds
147	Breeding Livestock, Dairy Purchases, Dollars
148	Breeding Livestock, Sheep Purchases, TI = 93
149	Breeding Livestock, Sheep Purchases, Units
150	Breeding Livestock, Sheep Purchases, Pounds
151	Breeding Livestock, Sheep Purchases, Dollars
152	Breeding Livestock, Swine Purchases, TI = 94
153	Breeding Livestock, Swine Purchases, Units
154	Breeding Livestock, Swine Purchases, Pounds
155	Breeding Livestock, Swine Purchases, Dollars

OTHER LIVESTOCK, MISC. INCOME, MACHINERY AND BUILDING PURCHASES:

VARIABLES "156-179" REPRESENT SALES AND PURCHASES OF OTHER LIVESTOCK (HORSES, DOGS, ETC.), MISCELLANEOUS INCOME, AND PURCHASES OF MACHINERY, EQUIPMENT, AND BUILDINGS. FOR EACH SPECIFIC ITEM, TWO VALUES ARE PROVIDED: TI (K-MAR-105 CODE) AND COLLARS. FOR EXAMPLE, RAISED, OTHER LIVESTOCK SALES WILL HAVE THE FOLLOWING TWO VARIABLES:

156--Raised, Other Livestock Sales, TI = 15 157--Raised, Other Livestock Sales, Dollars

The TI (K-MAR-105 CODE) VALUE HAS NO REAL IMPORTANCE.

156	Raised, Other Livestock Sales, TI = 15
157	Raised, Other Livestock Sales, Dollars
.158	Machine Work, TI = 32
159	Machine Work, Dollars
160	Patronage Refunds, TI = 35
161	Patronage Refunds, Dollars
162	Gas Tax Refunds, TI = 37
163	Gas Tax Refunds, Dollars
164	Purchase for Resale, Other Livestock Sales, TI = 65
165	Purchase for Resale, Other Livestock Purchases, Dollars
166	Purchase for Resale, Other Livestock Purchases, TI = 75
167	Purchase for Resale, Other Livestock Purchases, \$\$
168	Breeding Livestock, Other Livestock Sales, TI = 85
169	Breeding Livestock, Other Livestock Sales, Dollars
170	Basis of Machinery, Sold, TI = 90
171	Basis of Machinery, Sold, Dollars

VARIABLE	DECIMA
#	ITEM EXPLANATION FORMAT
172	Breeding Livestock, Other Livestock Purchases, TI = 95
173	Breeding Livestock, Other Livestock Purchases, \$\$
174	Motor Vehicle Purchases, TI - 96
175	Motor Vehicle Purchases, Dollars
176	Machinery-Equipment Purchases, TI = 97
177	Machinery-Equipment Purchases, Dollars
178	Building Purchases, TI = 98
179	Building Purchases, Dollars

LIVESTOCK, GRAIN, FORAGE, AND CASH CROP INVENTORIES:

VARIABLES "180-257" REPRESENT THE BEGINNING AND ENDING INVENTORY VALUES FOR LIVESTOCK, GRAIN, FORAGE, CASH CROPS, AND FEED. EACH SPECIFIC ITEM HAS THE FOLLOWING SIX VALUES: BEGINNING INVENTORY OF UNITS, POUNDS, AND DOLLARS; AND ENDING INVENTORY OF UNITS, POUNDS, AND DOLLARS. FOR EXAMPLE, BEEF FEEDERS WILL HAVE THE FOLLOWING SIX VARIABLES:

180--Beginning Inventory, Beef Feeders, Units 181--Beginning Inventory, Beef Feeders, Pounds 182--Beginning Inventory, Beef Feeders, Dollars 183--Ending Inventory, Beef Feeders, Units 184--Ending Inventory, Beef Feeders, Pounds 185--Ending Inventory, Beef Feeders, Dollars

FOR BREEDING LIVESTOCK, THE BEGINNING AND ENDING INVENTORY VALUES ARE LOWERED ANNUALLY FROM THE PURCHASE COST UNTIL A SALVAGE VALUE IS OBTAINED. AT THAT TIME, THE VALUE IS HELD CONSTANT FOR APPROXIMATELY FIVE YEARS AND IS NOT CHANGED AS MARKET PRICE FLUCTUATES.

180	Beginning Inventory, Beef Feeders, Units
181	Beginning Inventory, Beef Feeders, Pounds
182	Beginning Inventory, Beef Feeders, Dollars
183	Ending Inventory, Beef Feeders, Units
184	Ending Inventory, Beef Feeders, Pounds
185	Ending Inventory, Beef Feeders, Dollars
186	Beginning Inventory, Beef Breeding Stock, Units
187	Beginning Inventory, Beef Breeding Stock, Pounds
188	Beginning Inventory, Beef Breeding Stock,
	Dollars
189	Ending Inventory, Beef Breeding Stock, Units
190	Ending Inventory, Beef Breeding Stock, Poundsss
191	Ending Inventory, Beef Breeding Stock, Dollars
192	Beginning Inventory, Dairy Breeding Stock, Units
193	Beginning Inventory, Dairy Breeding Stock,
	Pounds

VARIABLE	DECIMAL
#	ITEM EXPLANATION FORMAT
194	Beginning Inventory, Dairy Breeding Stock,
	Dollars
195	Ending Inventory, Dairy Breeding Stock, Units
196	Ending Inventory, Dairy Breeding Stock, Pounds
197	Ending Inventory, Dairy Breeding Stock, Dollars
198	Beginning Inventory, Sheep Feeders, Units
199	Beginning Inventory, Sheep Feeders, Pounds
200	Beginning Inventory, Sheep Feeders, Dollars
201	Ending Inventory, Sheep Feeders, Units
202	Ending Inventory, Sheep Feeders, Pounds
203	Ending Inventory, Sheep Feeders, Dollars
204	Beginning Inventory, Sheep Breeding Stock, Units
205	Beginning Inventory, Sheep Breeding Stock, Pounds
206	Beginning Inventory, Sheep Breeding Stock, Dollars
207	Ending Inventory, Sheep Breeding Stock, Units
208	Ending Inventory, Sheep Breeding stock, Pounds
209	Ending Inventory, Sheep Breeding Stock, Dollars
210	Beginning Inventory, Swine Feeders, Units
211	Beginning Inventory, Swine Feeders, Pounds
212	Beginning Inventory, Swine Feeders, Dollars
213	Ending Inventory, Swine Feeders, Units
214	Ending Inventory, Swine Feeders, Pounds
215	Ending Inventory, Swine Feeders, Dollars
216	Beginning Inventory, Swine Breeding Stock, Units
217	Beginning Inventory, Swine Breeding Stock, Pounds
218	Beginning Inventory, Swine Breeding Stock, Dollars
- 219	Ending Inventory, Swine Breeding Stock, Units
220	Ending Inventory, Swine Breeding Stock, Pounds
221	Ending Inventory, Swine Breeding Stock, Dollars
222	Beginning Inventory, Poultry, Units ⁵
223	Beginning Inventory, Poultry, Pounds ⁵
224	Beginning Inventory, Poultry, Dollars ⁵
225	Ending Inventory, Poultry, Units ⁵
226	Ending Inventory, Poultry, Pounds ⁵
227	Ending Inventory, Poultry, Dollars ⁵
228	Beginning Inventory, Other Livestock-Futures, Units ⁵
229	Beginning Inventory, Other Livestock-Futures, Pounds ⁵
230	Beginning Inventory, Other Livestock-Futures, Dollars ⁵
231	Ending Inventory, Other Livestock-Futures, Units ⁵

⁵New/revised 1980.

VARIABLE	#ITEM EXPLANATION FORMAT
232	Ending Inventory, Other Livestock-Futures, Pounds ⁶
233	Ending Inventory; Other Livestock-Futures, Dollars ⁶
234	Beginning Inventory, Grain, Units ⁶
235	Beginning Inventory, Grain, Pounds ⁶
236	Beginning Inventory, Grain, Dollars ⁶
237	Ending Inventory, Grain, Units ⁶
238	Ending Inventory, Grain, Pounds ⁶
239	Ending Inventory, Grain, Dollars
240	Beginning Inventory, Hay and Forage, Units ⁶
241	Beginning Inventory, Hay and Forage, Pounds ⁶
242	Beginning Inventory, Hay and Forage, Dollars ⁶
243	Ending Inventory, Hay and Forage, Units ⁶
244	Ending Inventory, Hay and Forage, Pounds ⁶
245	Ending Inventory, Hay and Forage, Dollars ⁶
246	Beginning Inventory, Cash Field Crops, Units ⁶
247	Beginning Inventory, Cash Field Crops, Pounds ⁶
248	Beginning Inventory, Cash Field Crops, Dollars ⁶
249	Ending Inventory, Cash Field Crops, Units ⁶
250	Ending Inventory, Cash Field Crops, Pounds ⁶
251	Ending Inventory, Cash Field Crops, Dollars ⁶
252	Beginning Inventory, Feed, Units
253	Beginning Inventory, Feed, Pounds
254	Beginning Inventory, Feed, Dollars
255	Ending Inventory, Feed, Units
256	Ending Inventory, Feed, Pounds
257	Ending Inventory, Feed, Dollars

MISCEL. ASSETS, LAND, MACHINERY-EQUIPMENT, AND BUILDING INVENTORIES:

VARIABLES "258-273" REPRESENT THE BEGINNING AND ENDING INVENTORY DOLLAR VALUES FOR MISCELLANEOUS ASSETS, LAND, MOTOR VEHICLES, MACHINERY-EQUIPMENT, AND BUILDINGS. EACH SPECIFIC ITEM WILL HAVE TWO VALUES: BEGINNING INVENTORY DOLLARS AND ENDING INVENTORY DOLLARS. FOR EXAMPLE, PRODUCTS AND MISC.-LIVESTOCK-CROP SUPPLIES WILL HAVE THE FOLLOWING TWO VARIABLES:

- 258 -- Beginning Inventory, Products and Misc.-Livestock-Crop Supplies, Dollars⁶
- 259 -- Ending Inventory, Products and Misc. Livestock, Crop Supplies, Dollars⁶

THE VALUE OF MOTOR VEHICLES, MACHINERY-EQUIPMENT, AND BUILDINGS REPRESENTS THE REMAINING BASIS (UNDEPRECIATED) FROM THE DEPRECIATION SCHEDULE.

⁶New/revised 1980.

VARIABLE	DECIMA
#	ITEM EXPLANATION FORMAT
	LAND IS REVALUED EVERY FIVE YEARS AND THEN HELD AT A CONSTANT VALUE. LAND WAS REVALUED IN 1973 1975, 1980, AND 1985. ON A GIVEN FARM, LAND VALUE MAY VARY FROM YEAR TO YEAR BECAUSE OF LAND SALES AND/OR PURCHASES.
258	Beginning Inventory, Products and Misc
259	Livestock-Crop Supplies, Dollars ⁷ Ending Inventory, Products and Misc
260	Livestock-Crop Supplies, Dollars ⁷ Beginning Inventory, Fuel and Oil, Dollars
262	Beginning Inventory, Miscellaneous Assets, Dollars
263	Ending Inventory, Miscellaneous Assets, Dollars
264	Beginning Inventory, Motor Vehicles, Dollars
265	Ending Inventory, Motor Vehicles, Dollars
266	Beginning Inventory, Machinery-Equipment, Dollars
267	Ending Inventory, Machinery-Equipment, Dollars
268	Beginning Inventory, Buildings, Dollars
269	Ending Inventory, Buildings, Dollars
270	Beginning Inventory, Owned Land, Dollars
271	Ending Inventory, Owned Land, Dollars
272 273	Beginning Inventory, Cash and Misc., Dollars Ending Inventory, Cash and Misc., Dollars
FARM INCOME ITEM	S, ACCRUAL:
274	Beef, Accrual
275	Dairy, Accrual
276	Sheep, Accrual
277	Swine, Accrual
278	Poultry, Accrual
279	Other Livestock, Futures, Accrual
280	Milk Product Sales
281 282	Egg Sales
283	Grain, Accrual Hay and Forage, Accrual
284	Cash Crops, Accrual
285	Other Product Sales (Fruits, Wool, Hides, Other) ⁷
286	Product Inventory Change
287	Government Payments
288	Other Income ⁷

⁷New/revised 1980.

VARIABL ∦	E	ITEM EXPLANATION	DECIMAL FORMAT
FARM CA	SH OPERATING EXP	ENSES:	
289		Hired Labor	
290		Machinery Repairs, Irrig. Expense	
291		Building Repairs	
292		Interest paid	
293		Feed Purchased	
294		Seed and Crop Insurance	
295		Fertilizer and Lime	
296		Machine Hire	
297		Organization Fees, Misc., Etc.	
298		Vet-Medicine-Drugs	
299		Crop Storage-Marketing	
300		Livestock marketing and Breeding	
301		Gas-Fuel-Oil	
302		Real Estate Taxes	
303		Personal Property Taxes	
304		General Farm Insurance	
305		Telephone and Electricity	
306		Cash Farm Rent	
307		Herbicide and Insecticide	
308		Conservation	
309		Auto Expense	
310		Expense Inventory Change	
DEPRECIA	ATION:		
311		Motor Vehicle Depreciation	
312		Machinery-Equipment Depreciation	
313		Building Depreciation	
UNPAID :	FAMILY LABOR AND	NET WORTH OPPORTUNITY COST CHANGE:	
	VARIABLES "314 WORTH AND FAMI LABOR RATES WE		
		INTEREST RATES:	
		1973-81 6.0%	
•		1982- 10.0%	
		1982- 10.0%	
		LABOR RATES/OPERATOR:	
		1973-79 \$ 7,500	
		1980-81 \$10,000	
		1982 \$15,000	
314		Interest Charge on Equity in Current as	nd
		Intermediate Assets	
315		Interest Charge on Equity in Long-Term	Assets
- 		(Land Buildings)	
316		Charge for Unpaid Family Labor	
210			

VARIABLE		DECIMAL
#	ITEM EXPLANATION	FORMAT

RATE OF RETURNS AND NET WORTH CHANGE:

VARIABLES "317-319" REPRESENT A RESIDUAL RETURN TO CAPITAL MANAGED AND NET WORTH, AND THE CHANGE IN NET WORTH. THE RATE OF RETURNS TO CAPITAL MANAGED AND NET WORTH ARE OBTAINED AFTER REMOVING A CHARGE FOR OPERATOR LABOR EQUAL TO \$7,500 FOR 1973-79, \$10,000 FOR 1980-81, AND \$15,000 FOR 1982 TO THE PRESENT AND 10% OF GROSS FARM INCOME FOR A MANAGEMENT CHARGE.

317	Rate of Return on Capital Managed (%)	9 (9).99
318	Rate of Return on Net Worth (%)	9 (9).99
319	Change in Net Worth (\$)	9 (9).99

CURRENT-INTERMEDIATE ASSETS, LAND VALUE, AND CAPITAL MANAGED:

VARIABLES "320-323" REPRESENT FARM SIZE. CURRENT-INTERMEDIATE ASSETS AND OWNED LAND VALUE ARE THE AVERAGE OF THE BEGINNING AND ENDING INVENTORY VALUES. CURRENT-INTERMEDIATE ASSETS REPRESENT THE VALUE OF ALL ASSETS EXCEPT LAND AND BUILDINGS. RENTED LAND VALUE REPRESENTS THE VALUE AT THE END OF THE YEAR. TOTAL CAPITAL MANAGED EQUALS TOTAL ASSETS PLUS VALUE OF RENTED LAND. THE VALUE OF BUILDINGS CAN BE OBTAINED AS FOLLOWS: TOTAL CAPITAL MANAGED MINUS RENTED LAND VALUE MINUS OWNED LAND VALUE MINUS CURRENT-INTERMEDIATE ASSETS.

320	Current-Intermediate Assets
321	Owned Land Value
322	Rented Land Value
323	Total Capital Managed

ACRES -- TOTAL, OWNED, AND RENTED:

VARIABLES "324-341" REPRESENT TOTAL ACRES OPERATED, BOTH OWNED AND RENTED, WITH BREAKDOWN BY IRRIGATED AND DRYLAND CROPS, PASTURE, AND FARMSTEAD-WASTE. EACH SPECIFIC ITEM WILL HAVE THREE VALUES: TOTAL, OWNED, AND RENTED. FOR EXAMPLE, ACRES OPERATED WILL HAVE THE FOLLOWING THREE VARIABLES:

	324Acres Operated, Total
	325Acres Operated, Owned
	326Acres Operated, Rented
324	Acres Operated, Total
325	Acres Operated, Owned
326	Acres Operated Repted

326	Acres Operated, Rented		
327	Irrigated Crop Acres, Total		
328	Irrigated Crop Acres, Owned		
220			

329 Irrigated Crop Acres, Rented

VARIABLE		DECIMAL	
#	ITEM EXPLANATION	FORMAT	
330	Dryland Crop Acres, Total		
331	Dryland Crop Acres, Owned		
332	Dryland Crop Acres, Rented		
333	Total Crop Acres, Total		
334	Total Crop Acres, Owned		
335	Total Crop Acres, Rented		
336	Pasture Acres, Total		
337	Pasture Acres, Owned		
338	Pasture Acres, Rented		
339	Farmstead-Waste, Total		
340	Farmstead-Waste, Owned		
341	Farmstead-Waste, Rented		

CROP MACHINERY INVESTMENT AND COSTS:

VARIABLES "342-343" REPRESENT TOTAL CROP MACHINERY INVESTMENT AND CROP MACHINERY COSTS. CROP MACHINERY INVESTMENT IS EQUAL TO THE AVERAGE OF THE BEGINNING AND ENDING REMAINING BASIS (UNDEPRECIATED VALUE) VALUES FOR MOTOR VEHICLES AND MACHINERY-EQUIPMENT USED FOR CROP PRODUCTION.

CROP MACHINERY COSTS EQUALS: (CROP SHARE OF MACHINERY REPAIRS, GAS-FUEL-OIL, FARM AUTO EXPENSE, MOTOR VEHICLE DEPRECIATION, AND MACHINERY-EQUIPMENT DEPRECIATION) PLUS CROP MACHINE HIRE EXPENSE PLUS OPPORTUNITY INTEREST CHARGE ON CROP MACHINERY INVESTMENT MINUS MACHINE WORK INCOME.

342 343	Total Crop Machinery Investment Total Crop Machinery Costs
LIVESTOCK	NUMBERS, WEANINGS, NUMBER HANDLED, AND PRODUCTION
344	Beef, Number CowsAvg. No./Year
345	Sheep, Number EwesAvg. No./Year
346	Swine, Number LittersAvg. No./Year
347	Dairy, Number CowsAvg. No./Year
348	Poultry, Number HeadAvg. No./Year

240	Swine, Number Liccers - Avg. No./ Tear		
347	Dairy, Number CowsAvg. No./Year		
348	Poultry, Number HeadAvg. No./Year		
349	Beef, Number Calves Weaned		
350	Sheep, Number Lambs Weaned		
351	Swine, Number Pigs Weaned		
352	Beef Feeders, Avg. Number Head Handled		
353	Sheep Feeders, Avg. Number Head Handled		
354	Swine Feeders, Avg. Number Head Handled		
355	Beef, Percent Calf Crop	9	(3).99
356	Sheep, Percent Lamb Crop	9	(3).99
357	Swine, Pigs Weaned Per Litter	9	(3).99

VARIABLE		DECIMAL
#	ITEM EXPLANATION	FORMAT
358	Dairy, Milk Receipts	
359	Poultry, Egg Receipts	
360	Beef, Accrual Dollar Production	
361	Sheep, Accrual Dollar Production	
362	Swine, Accrual Dollar Production	
CROP PRODUCTION	ACRES:	
363	Wheat, Total Irrigated Acres	9 (4).9
364	Wheat, Owned Irrigated Acres	9 (4).9
365	Wheat, Rented Irrigated Acres	9 (4).9
366	Wheat, Total Dryland Acres	9 (4).9
367	Wheat, Owned Dryland Acres	9 (4).9
368	Wheat, Rented Dryland Acres	9 (4).9
369	Corn, Total Irrigated Acres	9 (4).9
370	Corn, Owned Irrigated Acres	9 (4).9
371	Corn, Rented Irrigated Acres	9 (4).9
372 373	Corn, Total Dryland Acres	9 (4).9
373 374	Corn, Owned Dryland Acres	9 (4).9
374	Corn, Rented Dryland Acres	9 (4).9
376	Grain Sorghum, Total Irrigated Acres Grain Sorghum, Owned Irrigated Acres	9 (4).9
377	Grain Sorghum, Rented Irrigated Acres	9 (4).9 9 (4).9
378	Grain Sorghum, Total Dryland Acres	9 (4).9
379	Grain Sorghum, Owned Dryland Acres	9 (4).9
380	Grain Sorghum, Rented Dryland Acres	9 (4).9
381	Soybeans, Total Irrigated Acres	9 (4).9
382	Soybeans, Owned Irrigated Acres	9 (4).9
383	Soybeans, Rented Irrigated Acres	9 (4).9
384	Soybeans, Total Dryland Acres	9 (4).9
385	Soybeans, Owned Dryland Acres	9 (4).9
386	Soybeans, Rented Dryland Acres	9 (4).9
387	Sugar Beets, Total Irrigated Acres	9 (4).9
388	Sugar Beets, Owned Irrigated Acres	9 (4).9
389	Sugar Beets, Rented Irrigated Acres	9 (4).9
390	Sugar Beets, Total Dryland Acres	9 (4).9
391	Sugar Beets, Owned Dryland Acres	9 (4).9
392	Sugar Beets, Rented Dryland Acres	9 (4).9
393	Alfalfa Hay, Total Irrigated Acres	9 (4).9
394	Alfalfa Hay, Owned irrigated Acres	9 (4).9
395	Alfalfa Hay, Rented Irrigated Acres	9 (4).9
396	Alfalfa Hay, Total Dryland Acres	9 (4).9
397	Alfalfa Hay, Owned Dryland Acres	9 (4).9
398	Alfalfa Hay, Rented Dryland Acres	9 (4).9
399	Silage, Total Irrigated Acres	9 (4).9
	Cilara Comid Touristant Assess	0 (/) 0
400 401	Silage, Owned Irrigated Acres Silage, Rented Irrigated Acres	9 (4).9 9 (4).9

VARIABLE		DECIMAL
#	ITEM EXPLANATION	FORMAT
402	Silage, Total Dryland Acres	9 (4).9
403	Silage, Owned Dryland Acres	9 (4).9
404	Silage, Rented Dryland Acres	9 (4).9
405	Other Grain, Total Irrigated Acres	9 (4).9
406	Other Grain, Owned Irrigated Acres	9 (4).9
407	Other Grain, Rented Irrigated Acres	9 (4).9
408	Other Grain, Total Dryland Acres	9 (4).9
409	Other Grain, Owned Dryland Acres	9 (4).9
410	Other Grain, Rented Dryland Acres	9 (4).9
411	Other Hay, Total Irrigated Acres	9 (4).9
412	Other Hay, Owned Irrigated Acres	9 (4).9
413	Other Hay, Rented Irrigated Acres	9 (4).9
414	Other Hay, Total Dryland Acres	9 (4).9
415	Other Hay, Owned Dryland Acres	9 (4).9
416	Other Hay, Rented Dryland Acres	9 (4).9
417	Other Cash Crops, Total Irrigated Acres	9 (4).9
418	Other Cash Crops, Owned Irrigated Acres	9 (4).9
419	Other Cash Crops, Rented Irrigated Acres	9 (4).9
420	Other Cash Crops, Total Dryland Acres	9 (4).9
421	Other Cash Crops, Owned Dryland Acres	9 (4).9
422	Other Cash Crops, Rented Dryland Acres	9 (4).9
CROPS PRODUCTION:		
423	Wheat, Owned Irrigated Production	9 (7).99
424	Wheat, Rented Irrigated Production	9 (7).99
425	Wheat, Owned Dryland Production	9 (7).99
426	Wheat, Rented Dryland Production	9 (7).9
427	Corn, Owned Irrigated Production	9 (7).99
428	Corn, Rented Irrigated Production	9 (7).99
429	Corn, Owned Dryland Production	9 (7).99
430	Corn, Rented Dryland Production	9 (7).99
431	Grain Sorghum, Owned Irrigated Production	9 (7).99
432	Grain Sorghum, Rented Irrigated Production	9 (7).99
433	Grain Sorghum, Owned Dryland Production	9 (7).99
434	Grain Sorghum, Rented Dryland Production	9 (7).99
435	Soybeans, Owned Irrigated Production	9 (7).99
436	Soybeans, Rented Irrigated Production	9 (7).99
437	Soybeans, Owned Dryland Production	9 (7).99
438	Soybeans, Rented Dryland Production	9 (7).99

VARIABLE #	ITEM EXPLANATION	DECIMAL FORMAT
439	Sugar Beets, Owned Irrigated Production	9 (7).99
440	Sugar Beets, Rented Irrigated Production	9 (7).99
441	Sugar Beets, Owned Dryland Production	9 (7).99
442	Sugar Beets, Rented Dryland Production	9 (7).99
443	Alfalfa Hay, Owned Irrigated Production	9 (7).99
444	Alfalfa Hay, Rented Irrigated Production	9 (7).99
445	Alfalfa Hay, Owned Dryland Production	9 (7).99
446	Alfalfa Hay, Rented Dryland Production	9 (7).99
447	Silage, Owned Irrigated Production	9 (7).99
448	Silage, Rented Irrigated Production	9 (7).99
449	Silage, Owned Dryland Production	9 (7).99
450	Silage, Rented Dryland Production	9 (7).99

GROSS CROP VALUE AND PRODUCTION COSTS:

VARIABLES "451-453" REPRESENT GROSS VALUE OF CROPS, FERTILIZER COST, AND CROP PRODUCTION COSTS. GROSS VALUE OF CROPS REPRESENTS THE TOTAL VALUE OF PRODUCTION FROM CROPLAND, INCLUDING THE LANDLORD'S. THE VARIABLE INCLUDES INSURANCE PROCEEDS AND GOVERNMENT PAYMENTS.

FERTILIZER COST REPRESENTS THE OPERATOR'S SHARE OF FERTILIZER.

CROP PRODUCTION COSTS ARE DEFINED AS: TOTAL CROP EXPENSE PLUS OPPORTUNITY COST CHARGE ON MOTOR VEHICLES, MACHINERY-EQUIPMENT, AND BUILDINGS MINUS UNPAID OPERATOR AND FAMILY LABOR MINUS INTEREST PAID MINUS CASH RENT MINUS OPPORTUNITY COST CHARGE ON NET WORTH MINUS MACHINE WORK INCOME.

451	Gross Value of Crops	9 (9).99
, 452	Fertilizer Cost	9 (9).99
_. 453	Crop Production Costs	9 (9).99

CURRENT AND LONG-TERM LOANS AND ACCOUNTS RECEIVABLE:

VARIABLES "454-467" PROVIDE FINANCIAL INFORMATION ON BEGINNING AND ENDING INVENTORY VALUES OF LOANS AND ACCOUNTS RECEIVABLE. CURRENT, INTERMEDIATE, AND LONG-TERM LOANS AND ACCOUNTS RECEIVABLE ARE DEFINED AS:

CURRENT--LESS THAN ONE YEAR INTERMEDIATE--ONE TO SEVEN YEARS LONG-TERM--OVER SEVEN YEARS

CURRENT LOANS DO NOT INCLUDE THE VALUE OF CURRENT YEAR'S PAYMENTS OF INTERMEDIATE AND LONG-TERM LOANS.

454 455	Current Loans, Beginning Inventory Current Loans, Ending Inventory		(9).99 (9).99
456	Long-Term Loans, Beginning Inventory		(9).99
457	Long-Term Loans, Ending Inventory		(9).99
	• • • • • • • • • • • • • • • • • • • •		
458	Current Accts. Receivable, Beginning Inventory	9	(9).99
459	Current Accts. Receivable, Ending Inventory	9	(9).99
460	Long-Term Accts. Receivable, Beginning Inventory	9	(9).99
461	Long-Term Accts. Receivable, Ending Inventory	9	(9).99
462	Current-Intermediate Assets to Current-Intermediate Loans Ratio,	9	(9).99
	Beginning Inventory		
463	Current-Intermediate Assets to	9	(9).99
, 55	Current-Intermediate Loans Ratio, Ending Inventory	•	(1),111
464	Total Loans to Net Worth Ratio,	9	(9).99
465	Total Loans to Net Worth Ratio, Ending		(9).99
	· · · · · · · · · · · · · · · · · · ·		
466	Capital Accounts, Beginning Inventory		(9).99
467	Capital Accounts, Ending Inventory ⁸	9	(9).99

CROP LABOR AND NET WORTH PERCENTAGES:

VARIABLES "468-470" PROVIDE SPECIFIC PERCENTAGE VALUES THAT ALLOW FOR THE TOTAL DIVISION OF ALL EXPENSES BETWEEN THE CROP AND LIVESTOCK SEGMENTS OF THE BUSINESS WHEN USED WITH THE PERCENTAGES STORED ON THE MAIN FARM HEADERS. THE "MAIN FARM HEADERS" ARE A RAW DATA FILE.

468	Crop Labor Percentage 9 (9).99
469	Crop Current-Intermediate Asset 9 (9).99
	Equity Opportunity Cost Charge Percent9
470	Crop Long-Term Asset Equity 9 (9).99
	Opportunity Cost Charge Percent9

New/revised 1980.

Revised 1982.

VARIABLE		DECIMAL
#	ITEM EXPLANATION	FORMAT

NONFARM ASSETS AND LOANS; INTERMEDIATE LOANS AND ACCTS. RECEIVABLE:

VARIABLES "471-478" PROVIDE FINANCIAL INFORMATION ON BEGINNING AND ENDING INVENTORY VALUES FOR NONFARM ASSETS AND LOAMS, AND INTERMEDIATE LOAMS AND ACCOUNT RECEIVABLES.

471	Nonfarm Assets, Beginning Inventory ¹⁰
472	Nonfarm Assets, Ending Inventory ¹⁰
473	Intermediate Loans, Beginning Inventory ¹⁰
474	Intermediate Loans, Ending Inventory 10
475	Nonfarm Loans, Beginning Inventory ¹⁰
476	Nonfarm Loans, Ending Inventory ¹⁰
477	Intermediate Accts. Receivable, Beginning Inv. 10
478	Intermediate Accts. Receivable, Ending Inv. 10

HARVESTED ACRES:

VARIABLE "479" PROVIDES INFORMATION ON HARVESTED ACRES. THIS VARIABLE, IN CONJUNCTION WITH TOTAL CROP ACRES, CAN BE USED TO DETERMINE THE AMOUNT OF CROPLAND THAT IS SUMMER FALLOWED, LEFT IDLE, OR IN GOVERNMENT PROGRAMS.

479 Harvested Acres¹⁰ 9 (6).9

SPECIAL FARM AND NONFARM INCOME AND EXPENSE:

480	Nontaxable and Capital Receipts ¹¹
481	Income Tax and Capital Distributions 11
482	Motor Vehicle-Machinery Sales ¹¹
483	Building Sales ¹¹

¹⁰New 1977.

¹¹New 1979 and revised 1980.

FARM TYPE CODES

CODE	FARM TYPE	CODE	FARM TYPE
01	Cash Crop Dryland	23	Cash Crop - Sow & Litter (Market)
02	Cash Crop Irrigated	24	Cash Crop - Sow & Litter (Feeder Pig)
03	Cash Crop Irrigated Beets	25	Cash Crop - (Feeder Pig)
04	Stock-Ranch Cowherd	26	Cash Crop - Ewe and Lamb
05	Cowherd	27	Cash Crop - Feeder Lamb
06	Dairy	28	Cash Crop - Beef (Non-Cowherd)
07	Sow & Litter (Market)	29	Cash Crop - Laying Hen
08	Sow & Litter (Feeder Pig)	30	Beef - Swine
09	Feeder Pig	31	Beef - Laying Hen
10	Ewe and Lamb	32	Dairy - Swine
11	Feeder Lamb	33	Dairy - Beef
12	Laying Hen	34	Dairy - Laying Hen
13		35	General Farm
14		36	Cowherd - Backgrounding
15	Backgrounding	37	Cowherd - Finishing
16		38	Cowherd - Background-Finishing
17		39	Cash Crop - Backgrounding
18	Beef-Finishing	40	Cash Crop - Finishing
19	Background-Finish	41	Cash Crop - Backgrounding - Finishing
20		42	Cash Crop - Beef
21	Cash Crop - Cowherd	43	Cash Crop - Swine
22	Cash Crop - Dairy	44	Cash Crop - Sheep

RATIO FORMULAS*

(1)	A grass operated A crops operated
(2)	TCP TP
(3)	dryland crop P
(4)	beef cow P
(5)	dairy P TP
(6)	swine litters P
(7)	ewe P TP
(8)	laying hen P
(11)	beef background P + beef grazing P
(14)	<pre>beef finish P + beef custom feeding P TP</pre>
(15)	beef background P + beef grazing P + beef finish P + beef custom feeding P TP
(17)	sugar beet P
(18)	<pre>feeder pig raised P feeder pig purchased P + feeder pig raised</pre>
(19)	ewe P feeder lamb purchased P + feeder lamb raised
(20)	feeder pig P plus feeder pig purchased P

RATIO FORMULAS* (Cont.)

- (21) <u>ewe P plus feeder lamb purchases P</u>
- (22) total beef P
- (23) total hog P
- (25) number beef cows units of 5110 (1) Farm Typing Card.
- (26) number dairy cows units of 512 (1) Farm Typing Card.
- (27) number litters units of 514 (1) Farm Typing Card.
- (28) number ewes units of 513 (1) Farm Typing Card.
- (29) number laying hens units of 516 (1) Farm Typing Card.

PMWU's = P

Acres = A

Total crop PMWU's = TCP

Total PMWU's = TP

^{*}Calculated from Production Man Work Units (PMWU) except (1).

METHODS

IF	(2) GTE 0.35 AND (4) GTE 0.35 and (25) GT 10.0	21 - cash crop - cowherd
IF	(2) GTE 0.35 and (5) GTE 0.35 and (26) GT 10.0	22 = cash crop - dairy
IF	(2) GTE 0.35 and (6) GTE 0.35 and (18) GTE .55	23 = cash crop = sow & litter (market)
IF	(2) GTE 0.35 and (6) GTE 0.35 and (18) LT .55 and (20) LT 0.35	
IF	(2) GTE 0.35 and (18) LT .55 and (20) GTE 0.35	25 = cash crop - feeder pig
IF	(2) GTE 0.35 and (7) GTE 0.35 and (19) GTE .55	26 = cash crop - ewe and lamb
IF	(2) GTE 0.35 and (21) GTE 0.35 and (19) LT .55	27 = cash crop - feeder lamb
		28 = cash crop - beef (non-cowherd)
IF	(2) GTE 0.35 and (8) GTE 0.35	29 = cash crop - laying hen
IF	(22) GTE 0.35 and (23) GTE 0.35	30 = beef - swine
IF	(22) GTE 0.35 and (8) GTE 0.35	31 = beef - laying hen
IF	(23) GTE 0.35 and (5) GTE 0.35	32 = dairy - swine
IF	(5) GTE 0.35 and (22) GTE 0.35	33 = dairy - beef
IF	(5) GTE 0.35 and (8) GTE 0.35	34 = dairy - laying hen
İF	(4) GTE 0.35 and (11) GTE 0.35	36 - cowherd - backgrounding
IF	(4) GTE 0.35 and (14) GTE 0.35	37 = cowherd - finishing
IF	(4) GTE 0.35 and (15) GTE 0.35	38 = cowherd - background-finishing
IF	(2) GTE 0.35 and (11) GTE 0.35	39 = cash crop - backgrounding
IF	(2) GTE 0.35 and (14) GTE 0.35	40 = cash crop - finishing
IF	(2) GTE 0.35 and (15) GTE 0.35	41 = cash crop - backgrounding- finishing

METHODS (Cont.)

······································	
IF (2) GTE 0.35 and 922) GTE 0.35	42 - cash crop - beef
IF (2) GTE 0.35 and (23) GTE 0.35	43 = cash crop - swine
IF (2) GTE 0.35 and (21) GTE 0.35	44 = cash crop - sheep
IF (2) GTE 0.65 and (3) GTE 0.40	1 - cash crop dryland
IF (2) GTE 0.65 and (3) GTE 0.40 and (17) LT .5	2 - cash crop irrigated
IF (2) GTE 0.65 and (3) LT 0.40 and (17) GTE .5	<pre>3 = cash crop irrigated beets</pre>
IF (4) GTE 0.65 and (25) GT 10.0 and (1) GTE 5.0	4 = stock-ranch cowherd
IF (4) GTE 0.65 and (25) GT 10.0 and (1) LT 5.0	5 = cowherd
IF (5) GTE 0.65 and (26) GT 20.0	6 = dairy
IF (6) GTE 0.65 and 927) GT 10.0 and (18) LT .55	7 = sow & litter (market)
IF (6) GTE 0.65 and (27) GT 10.0 and (18) LT .55	8 = sow & litter (feeder pig)
IF (18) GTE .55 and 920) GTE 0.65	9 = feeder pig
IF (21) GTE 0.65 and (28) GT 50.0 and (19) GTE .55	10 = ewe and lamb
IF (21) GTE 0.65 and (19) LT .55	11 = feeder lamb
IF (8) GTE 0.65 and (29) GTE 500.0	12 - laying hen
•	13 =
	14 -
IF (11) GTE 0.65	15 = backgrounding
	16 -
	17 -

METHODS (Cont.)

IF (14) GTE 0.65	18 - beef-finishing
IF (15) GTE 0.65	19 = background-finish
	20 =
All farms not meeting above	35 = general farm

SECTION II WHOLE-FARM FARM MANAGEMENT DATA BANK K-MAR-105 DIRECTORY AND RAW DATA FILE -SOURCE OF VARIABLES-

INTRODUCTION WHOLE-FARM MANAGEMENT DATA BANK K-MAR-105 DIRECTORY AND RAW DATA FILE SOURCE OF VARIABLES

Section II outlines in-depth the original source of the variables stored on the Farm Management Whole-Farm Raw Data Bank and SAS Data Files. As background information, the Raw and SAS Data Files contain approximately 485 variables per farm for 2,300 to 3,000 farms for the years 1973 through 1989. Subsequent years' data will be added to the raw data file when made available. These data files store data for farms enrolled in the Kansas Farm Management Association program. For each farm, the variable values are on a per operator basis, except for "Gross Value of Crops," which includes the landlord's share of the value of crop production.

Section II should be studied if the user has any questions relating to the original source and/or definition of specific variables stored on the SAS or Raw Data Files. For the information to be stored on either file, a farm's data must first be processed through the K-Mar-105 Year-End Whole-Farm Business and Enterprise Analysis program. The data for this computer program are derived from the input pages of the Kansas Farm Management Association Account Book.

In Section II, the "ATIG" represents the Account, Transaction, Item, and General codes of the K-MAR-105 Code System. Each record transaction listed in the account book input pages includes a specific "ATIG" code. For example, the "ATIG" for raised beef sales is "0110". The Section Numbers in the documentation represent specific sections in the Year-End Whole-Farm Business and Enterprise Analysis printout. For example, "Gross Value of Crops" is obtained from Section 38 of the analysis printout.

The SAS and Raw Data Files provide a means whereby extension, instruction, and research personnel can easily access the data bank to obtain information for numerous projects. The accuracy of a data bank user's analysis will depend on the complete understanding of the original source of the data and the definition of each variable. This document can provide the necessary background information required by the user.

WHOLE-FARM FARM MANAGEMENT DATA BANK

K-MAR-105 DIRECTORY AND RAW DATA FILE

Source of Variables from Year-End Business Analysis and Account Book

DIRECTORY FILE:

TABLE	ITE	CM CM	LENGTH
00	01	Association No.	1
	02	County No.	2
	03	Farm Number	5
	04	Retrieval ID	4
	05	Year of Data	2
	06	Farm Type	2
	07	Crop Acres	4
	08	PMWU (Production Man Work Units)	5
	09	Capital Managed	6
	10	Gross Farm Income	6
	11	Net Farm Income	6
	12	Farm Summary Usage	1
	13	Family Living Summary Usage	1
RETRIEVA	I. FII	FS.	

<u>RETRIEVAL FILES</u>:

01	01 As 02 Ye 03 Bu 04 Ta 05 # 06 # 07 # 08 Op	CSS TYPE-OPERATOR NUMBERS - AGE ssn/Co/Farm # ear of Data usiness Organization Type ax Code Operators Men Family Dependents berator's Age dest Child's Age	LENGTH 8 2 1 1 2 2 2 2 2 2	
02	FAMILY	LIVING EXPENSES (\$)	ATIG	
	01 Me	edical Care	0041, 0044	0042,
	02 Cc	ontributions	0043	
	03 Fc	ood	0051	
	04 C1	othing	0052	
		ousehold Operations ¹	0053,	0045
		lucation ¹	0055	
		rniture & Household Equipment	0056	
		cilities (Non-Farm)	007	
	09 Au	to Expense (Non-Farm)	800	

¹Revised 1976.

TABLE	ITEM	ATIG
03	TAXES-FAMILY-OUTSIDE INCOME & EXPENSE (\$)	
	01 Misc. Taxable Non-Farm Income ²	0010, 0015, 0016, 0018
	02 Non-Taxable Income ² 03 Gifts ³	0032-0038 0057
	04 Personal-Recreation ³	0054
	05 Life Insurance ³	0058
	06 Deductible Non-Farm Expense ³	010
	07 Wages ⁴	0011, 0019
	08 Rent and Royalties ⁴ 09 Dividends and Interest ⁴	0012, 0014 0013, 0017
	10 Income, Social Security, & Property Tax ²	0046-0049
	11 House Upkeep and Repairs ³	0059
04	01 LIVESTOCK FEED DISAPPEARANCE (\$)	Section 35
05	LIVESTOCK AND GRAIN SALES AND PURCHASES	ATI
	(TI, Units, Pounds, Dollars)	
	Raised Beef Sales	011
•	Raised Dairy Sales	012
	Raised Sheep Sales	014
	Raised Swine Sales	014
	Raised Poultry Sales	016
	Raised Grain Sales	017
	Raised Hay & Forage Sales	018
	Raised Cash Crop Sales	019
	Poultry Purchases	040
	Feed Purchases	044
	Purchase for Resale, Beef Sales	061
	Purchase for Resale, Dairy Sales	062
	Purchase for Resale, Sheep Sales	063 064
	Purchase for Resale, Swine Sales Purchase for Resale, Grain Futures Sales	066
	Purchase for Resale, Grain-Hay-Forage Sales	067
	Purchase for Resale, Beef Purchases	071
	Purchase for Resale, Dairy Purchases	072
	Purchase for Resale, Sheep Purchases	073
	Purchase for Resale, Swine Purchases	074
	Purchase for Resale, Grain Futures Purchase	076
•	Purchase for Resale, Grain-Hay-Forage Purchases	
	Breeding Livestock, Beef Sales	081
	Breeding Livestock, Dairy Sales	082
	Breeding Livestock, Sheep	083
	Breeding Livestock, Swine Sales	084

²New 1979 and revised 1980.

³Revised 1976.

⁴New/revised 1980.

TABLE	ITEM	
	Breeding Livestock, Beef Purchases Breeding Livestock, Dairy Purchases Breeding Livestock, Sheep Purchases	091 092 093
	Breeding Livestock, Swine Purchases	094
06	OTHER LIVESTOCK, MISCEL. INCOME, AND	
	PURCHASES (TI, \$) Raised, Other Livestock	<u>ATI</u> 015
	Machine Work	032
	Patronage Refunds	035
	Gas Tax Refunds	037
	Purchase for Resale, Other Livestock	
	Purchase for Resale, Other Livestock	
	Breeding Stock, Other Livestock Sales	
	Basis of Machinery Sold ⁵	090
	Breeding Stock, Other Livestock Purch	
	Motor Vehicle Purchases	096
	Machinery Purchases	097
	Building Purchases	098
07	LIVESTOCK, GRAIN, FORAGE, AND CASH CR BEGINNING & ENDING (Units, Pounds	
	Beef Feeders	561, 571, 5110-5116, 5119
	Beef Breeding Stock	581, 591, 5117, 5118
	Dairy Breeding Stock	512, 562, 572, 582, 592
	Sheep Feeders	653, 573, 5130-5136, 5139
	Sheep Breeding Stock	583, 593, 5137, 5138
	Swine Feeders	564, 574, 5140-5146, 5149
	Swine Breeding Stock	584, 594, 5147, 5148
	Poultry ⁵	516, 540
	Grain	5170-5178, 5670-5676,
		566, 576, 5770-5776
	Hay and Forage ⁵	518, 5677, 5678, 5777, 5778
	Cash Field Crops ⁵	569, 579, 5190-5198, 5679, 5779
	Feed	544
08	MISC. ASSETS, LAND, MACHINERY-EQUIPME INVENTORIES-BEGINNING AND ENDING	
	Products, Misc. Supplies, Crop Supplies & Livestock Supplies ⁵	568, 578, 520-529, 541-543, 545-551, 553-
	supplies & Livestock supplies	559
	Fuel and Oil	552
	Miscellaneous Assets Motor Vehicles	580, 590 586, 596

⁵New/revised 1980.

TABLE ITE	<u>em</u>	ATI or SECTION
Bui Lar	chinery Idings nd, Owned ch and Miscellaneous Assets	587, 597 588, 598 589, 599 501
01 02 03 04 05 06 07 08 09 10 11 12	Beef, Accrual Dairy, Accrual Sheep, Accrual Swine, Accrual Poultry, Accrual Other Livestock, Futures, Accrual Milk Product Sales Egg Sales Grain, Accrual Hay and Forage, Accrual Cash Crops, Accrual Other Product Sales (Fruits, Hides, Other) Product Inventory Change Government Payments Other Income	Section 35 Production O22 O26 Section 35 Production Section 35 Production Section 35 Production Section 35 Production (068-078, 020, 021 023-025, 027-029 520-539, 568, 578 O36 (086+087+088)-090) O30-035, 037, 038, 039
01 02 03 04 05 06 07 08 09 10 11 12 13 14	M CASH OPERATING EXPENSES (\$) Hired Labor Machinery Repairs Building Repairs Interest Paid Feed Purchased Seed & Crop Ins. Fertilizer & Lime Machine Hire, Storage Organization Fees, etc. Vet-Medicine-Drugs Crop Storage-Marketing ⁷ Livestock Marketing & Breeding Gas-Fuel-Oil Real Estate Taxes Personal Property Taxes General Farm Insurance Telephone & Electricity Cash Farm Rent Herbicide and Insecticide Conservation Auto Expense	ATIG 041 0420-0424, 053 0425-0429 043 044 045 046 047 048 049 053 051 052 0541, 0540, 0543-0549 0542 055 056, 007 058 059 008

⁶New/revised 1980.

⁷Revised 1982.

TABLE	ITEM	ATI
	22 Inventory Change	541-544, 548- 549, 551-552, 554-556
11	DEPRECIATION (\$) 01 Motor Vehicles 02 Machinery 03 Buildings	696 697 698
12	UNPAID FAMILY LABOR AND NET WORTH OPPORTUNITY COST CHARGE (\$) 01 Interest on C & I Assets 02 Interest on Long-Term Assets 03 Unpaid Family Labor Family Labor	Section Section 36 Section 36 Months x 1,250
13	RATE OF RETURNS AND NET WORTH CHANGE (%) (\$) Ol Rate of Return on Capital Managed (%) O2 Rate of Return on Net Worth (%) O3 Change in Net Worth (\$)	Section 37 Section 37 Section 32
14	CURRENT-INTERMEDIATE ASSETS, LAND VALUE, AND CAPITAL MANAGED (\$) Ol C & I Assets O2 Land Value, Owned O3 Land Value, Rented O4 Total Capital Managed	Section Section 38 Section 38 Section 38 Section 38
15	ACRESTOTAL, OWNED, AND RENTED Acres Operated Irrigated Crop Acres Dry Crop Acres Total Crop Acres Acres in Grass Farmstead Acres	<u>Section</u> Section 34 Section 34 Section 34 Section 34 8990-8997 8998-8999
16	CROP MACHINERY INVESTMENT AND COSTS (\$) Ol Total Crop Investment O2 Crop Machinery Costs	Section Section 38 Section 38
17	LIVESTOCK NUMBERSUNITS 01 Beef Cows 02 Sheep, Ewes 03 Swine, Litters 04 Dairy, Cows 05 Poultry, Head 5162, 540	38, 5938 48, 5948 28, 5928
18	LIVESTOCK WEANINGSUNITS 01 Beef, Calves	<u>ATI</u> 811

⁸Revised 1982.

TABLE	ITEM	
	02 Sheep, Lambs 03 Swine, Pigs	813 814
19	LIVESTOCK NUMBERAVERAGE HEAD HANDLED 01 Beef Feeders 02 Sheep Feeders 03 Swine Feeders	Section Section 38 Section 38 Section 38
20 (Units)	LIVESTOCK BIRTHS 01 Beef, Calf Crop (%) 02 Sheep, Lamb Crop (%) 03 Swine, Pigs Weaned per Litter	Section Section 38 Section 38 Section 38
21	LIVESTOCK PRODUCTION (\$) 01 Dairy 02 Poultry 03 Beef 04 Sheep 05 Swine	Section Section 38 Section 38 Section 35 Production Section 35 Production Section 35 Production
22	CROPSACRES (Irr., Dry, Total Owned, Rented) Wheat Corn Grain Sorghum Soybeans Sugar Beets Alfalfa Hay All Silage Other Grain Other Hay Other Cash Crops	ATIG 8176 8172 8173 8191 8193 8181 8185-8186 8170-8171, 8174-8175, 8177-8179 8180, 8182-8184, 8187-8189 8190, 8192, 8194-8198
23	CROPSPRODUCTION (Irr., Dry, Owned Rented) Wheat Corn Grain Sorghum Soybeans Sugar Beets Alfalfa Hay All Silage	ATIG 8176 8172 8173 8191 8193 8181 8185-8186
24	GROSS CROP VALUE AND PRODUCTION COSTS (\$) Ol Gross Value of Crops O2 Fertilizer Cost O3 Crop Production Costs	Section Section 38 Section 36 Section 38

25	CURRENT AND LONG-TERM LOANS AND ACCOUNTS RECEIVABLE (BEGINNING AND ENDING) (\$)	ATIG
	Current Loans	1020-1026, 107- 109, 140-159, 170-179
	Long-Term Loans	1029, 190-195, 198, 199
	Current Accts. Rec.	1060-1066, 101, 103, 111-139, 160-169
	Long-Term Accts. Rec.	1068, 1069, 180- 185, 188, 189
	C & I Assets/C & I Loans	Section 32
	Total Loans/Net Worth	Section 32
	Capital Accounts9	Section 32 or 1028
26	CROP LABOR AND NET WORTH PERCENTAGES10	Section
	01 Labor %	Section 36
	02 C & I Asset %	Section 36
	03 Long-Term Asset %	Section 36
27	NONFARM ASSETS AND LOANS, INTERMEDIATE LOA	
	RECEIVABLE (BEGINNING & ENDING) (\$)	<u>ATIG</u>
	01 Nonfarm Assets ¹¹	503-505,
		507-509,
		510, 101, 103
	02 Intermediate Loans ¹¹	1027, 196
		197
	03 Nonfarm Loans ¹¹	104, 105,
		107-109, 110
	04 Intermediate Accts, Rec. ¹¹	1067, 186,
	· ·	187
	·	Section
28	01 HARVESTED ACRES ¹¹	Section 36
29	SPECIAL FARM & NON-FARM INCOME & EXPENSE ¹²	<u>ATIG</u>
	(\$)	
	01 Nontaxable and Cap. Receipts	0039
	02 Income Tax & Cap. Distr.	0098
	03 Motor Vehicles-Machinery Sales	086, 087
	04 Building Sales	088

⁹New/revised 1980.

¹⁰Revised 1982.

¹¹New 1977.

 $^{^{12}\}mathrm{New}$ 1979 and revised 1980.

SECTION III FARM MANAGEMENT WHOLE-FARM DATA BANK SYSTEM K-MAR-105 RAW DATA FILE AND RETRIEVAL SYSTEM

INTRODUCTION FARM MANAGEMENT WHOLE-FARM DATA BANK SYSTEM K-MAR-105 RAW DATA FILE AND RETRIEVAL SYSTEM

Section III outlines in-depth the variables stored on the Farm Management Whole-Farm Raw Data Bank for use with the K-MAR-105 Retrieval System. The file contains approximately 485 variables per farm for approximately 2,300 to 3,000 farms for the years 1973 through 1989. Subsequent years' data will be added to the raw data file when made available.

The data sources are farms enrolled in the Kansas Farm Management Association program. For each farm, the variable values are on a per operator basis, except for "Gross Value of Crops", which includes the landlord's share of the value of crop production.

Section III must be used when utilizing the K-MAR-105 Retrieval System to access data from the raw data file. The Retrieval System includes numerous programs, such as the "Summary and Analysis" and "Whole-Farm Factor Retrieval". For example, the Summary and Analysis program can be used to provide an aggregate analysis of farms for a given variable such as county, farm type, or business organization. If desired, range values can be inserted on certain variables, such as crop acres or gross farm income. Dual breakdowns also can be done, such as an analysis of farms on crop acres by farm type.

The variables are accessed through the use of the "Table" and "Item" numbers listed under the "Directory File" and Retrieval File". Each variable has a four-digit number. For example, if an analysis on "Operator's Age" is desired, then the variable number would be "0108" as obtained from Table 01. For tables that have numerous values, the formula listed with the table is used to obtain the desired variable number. For example, if the "Ending Dollar Value for Swine Breeding Stock" from Table 07 is desired, the formula listed with Table 07 is used to obtain the variable number of "0741".

The K-MAR-105 Retrieval system provides a means whereby extension, instruction, and research personnel can easily access the raw data bank to obtain aggregate farm analysis of specific farms for numerous projects. Thus, every user has access to the raw data bank information through a simple, but standardized, procedure.

FARM MANAGEMENT WHOLE-FARM DATA BANK SYSTEM

K-MAR-105 RAW DATA FILE AND RETRIEVAL SYSTEM

DIRECTORY FILE:

<u>TABLE</u>	ITEM	
00	01 Association No. 02 County No.	
	02 County No. 03 Farm Number	
	04 Retrieval ID	
	05 Year of Data	
	06 Farm Type	
	07 Crop Acres	
	08 PMWU (Production Man Work Units	;)
	09 Capital Managed	
	10 Gross Farm Income	
	11 Net Farm Income	
	12 Farm Summary usage	
	13 Family Living Summary Usage	

RETRIEVAL FILE:

01	BUSINESS TYPE-OPERATOR NUMBERS - AGE 01 Assn/Co/Farm #
	02 Year of Data
	03 Business Organization Type
	04 Tax Code
	05 # Operators 06 # Men
	07 # Family Dependents
	08 Operator's Age
	09 Oldest Child's Age
02	FAMILY LIVING EXPENSES (\$)
	01 Medical Care
	02 Contributions
	03 Food
	04 Clothing
	05 Household Operations ¹
	06 Education ¹
	07 Furniture & Household Equipment
	08 Utilities (Non-Farm)
	09 Auto Expense (Non-Farm)
03	MAYER DANTLY LIVING COMMETER INCOME C SUPERIOR (A)
03	TAXES-FAMILY LIVING-OUTSIDE INCOME & EXPENSE (\$)
	01 Miscel. Taxable Non-Farm Income ²
	₹

¹Revised 1976.

²New 1979 and revised 1980.

TABLE ITEM 02 Non-Taxable Income³ 03 Gifts4 04 Personal-Recreation4 05 Life Insurance4 Deductible Non-Farm Expense⁴ 06 07 Wages⁵ 08 Rent and Royalities⁵ 09 Dividends and Interest⁵ 10 Income, Social Security, and Property Tax3 House Upkeep and Repairs4 04 LIVESTOCK FEED DISAPPEARANCE (\$) 01 05 LIVESTOCK AND GRAIN SALES AND PURCHASES <u>A</u> (Formula = 4A + B - 4)Raised Beef Sales (11) 1 TI=1Raised Dairy Sales (12) 2 UNITS=2 Raised Sheep Sales (13) 3 POUNDS=3 Raised Swine Sales (14) 4 DOLLARS=4 Raised Poultry Sales (16) 5 Raised Grain Sales (17) 6 Raised Hay & Forage Sales (18) 7 Raised Cash Crop Sales (19) 8 Poultry Purchases (40) 9 Feed Purchases (44) 10 Purchase for Resale, Beef Sales (61) 11 Purchase for Resale, Dairy Sales (62) 12 Purchase for Resale, Sheep Sales (63) 13 Purchase for Resale, Swine Sales (64) 14 Purchase for Resale, Grain Future 15 Sales (66) Purchase for Resale, Grain-Hay-Forage 16 Sales (67) Purchase for Resale, Beef Purchases (71) 17 Purchase for Resale, Dairy Purchases (72) 18 Purchase for Resale, Sheep Purchases (73) 19 Purchase for Resale, Swine Purchases (74) 20 Purchase for Resale, Grain Future 21 Purchases (76) Purchase for Resale, Grain-Hay-Forage 22 Purchases (77) Breeding Livestock, Beef Sales (81) 23 Breeding Livestock, Dairy Sales (82) 24 25 Breeding Livestock, Sheep Sales (83) Breeding Livestock, Swine Sales (84) 26

 $^{^{3}}$ New 1979 and revised 1980.

⁴Revised 1976.

⁵New/revised 1980.

TABLE ITEM Breeding Livestock, Beef Purchases (91) Breeding Livestock, Dairy Purchase (92) 28 29 Breeding Livestock, Sheep Purchases (93) Breeding Livestock, Swine Purchases (94) 06 OTHER LIVESTOCK, MISCEL, INCOME, AND MACHINERY AND BUILDING PURCHASES (\$) (Formula = 2A + B - 2)<u>A</u> 1 TI-1Raised, Other Livestock (15) Machine Work (32) 2 DOLLARS=2 3 Patronage Refunds (35) Gas Tax Refunds (37) 4 Purchase for Resale, Other Lvst. 5 Sales (65) Purchase for Resale, Other Lvst. Purchases (75) Breeding Stock, Other Lvst. Sales (85) 7 Basis of Machinery Sold⁶ (90) 9 Breeding Stock, Other Lvst. Purchases (95) Motor Vehicle Purchases (96) 10 Machinery Purchases (97) 11 Building Purchases (98) 12 07 LIVESTOCK GRAIN, FORAGE, AND CASH CROP INVENTORIES; BEGINNING AND ENDING (Formula = 6A + 2B + C - 8,IF B = 2, ADD 1) В Beef Feeders 1 Beg.=1UNITS=1 2 Beef Breeding Stock End.=2 POUNDS=2 3 Dairy Breeding Stock DOLLARS=3 Sheep Feeders 4 Sheep Breeding Stock 6 Swine Feeders Swine Breeding Stock 7 Poultry⁶ Other Livestock - Futures 9 Grain⁶ 10 Hay and Forage⁶ 11 Cash Field Crops⁶ 12 Feed 13 80 MISC. ASSETS. LAND, MACHINERY - EQUIPMENT, AND BUILDING INVENTORIES BEGINNING AND ENDING (\$) (Formula = 2A + B - 2)A <u>B</u> Products, Miscellaneous Supplies, Crop Supplies & Lvst. Supplies 1 Beg.=1Fuel and Oil 2 End.=2Miscellaneous Assets 3

Motor Vehicles

4

⁶New/revised 1980.

TABLE ITEM Machinery 5 Buildings 6 Land, Owned 7 Cash and Miscellaneous Assets 8 09 FARM INCOME ITEMS, ACCRUAL (\$) 01 Beef, Accrual 02 Dairy, Accrual 03 Sheep, Accrual 04 Swine, Accrual 05 Poultry, Accrual 06 Other Livestock, Futures, Accrual 07 Milk Product Sales 08 Egg Sales 09 Grain, Accrual 10 Hay and Forage, Accrual 11 Cash Crops, Accrual 12 Other Product Sales (Fruits, Wool, Hides, Other)7 13 Product Inventory Change 14 Government Payments 15 Other Income⁷ 10 FARM CASH OPERATING EXPENSES (\$) 01 Hired Labor 02 Machinery Repairs, Irrig. Expense 03 Building Repairs 04 Interest Paid 05 Feed Purchased 06 Seed & Crop Ins. 07 Fertilizer & Lime 08 Machine Hire 09 Organization Fees, etc. 10 Vet-Medicine-Drugs 11 Crop Storage-Marketing 12 Livestock Marketing & Breeding 13 Gas-Fuel-Oil 14 Real Estate Taxes 15 Personal Property Taxes 16 General Farm Insurance 17 Telephone & Electricity 18 Cash Farm Rent 19 Herbicide and Insecticide 20 Conservation 21 Auto Expense 22 Inventory Change 11 DEPRECIATION (\$) 01 Motor Vehicles 02 Machinery 03 Buildings

⁷New/revised 1980.

TABLE	<u>ITEM</u>
12	UNPAID FAMILY LABOR AND NET WORTH OPPORTUNITY COST CHARGE (\$) 01 Interest on C & I Assets ⁸ 02 Interest on Long-Term Assets ⁸ 03 Unpaid Family Labor ⁸
13	RATE OF RETURNS AND NET WORTH CHANGE 01 Rate of Return on Capital Managed (%) 02 Rate of Return on Net Worth (%) 03 Change in Net Worth (\$)
14	CURRENT - INTERMEDIATE ASSETS, LAND VALUE, AND CAPITAL MANAGED (\$) O1 C & I Assets O2 Land Value, Owned O3 Land Value, Rented O4 Total Capital Managed
	ACRESTOTAL, OWNED, AND RENTED (Formula = 3A + B - 3) Acres Operated 1 TOTAL=1 Irrigated Crop Acres 2 OWNED=2 Dry Crop Acres 3 RENTED=3 Total Crop Acres 4 Acres in Grass 5 Farmstead Acres 6
16	CROP MACHINERY INVESTMENT AND COSTS Ol Total Crop Investment O2 Crop Machinery Costs
17	LIVESTOCK NUMBERS (uNITS) 01 Beef, Cows 02 Sheep, Ewes 03 Swine, Litters 04 Dairy, Cows 05 Poultry, Head
18	LIVESTOCK WEANINGSUNITS 01 Beef, Calves 02 Sheep, Lambs 03 Swine, Pigs
19	LIVESTOCK NUMBERAVERAGE HEAD HANDLED 01 Beef Feeders 02 Sheep Feeders 03 Swine Feeders
20	LIVESTOCK BIRTHS 01 Beef, Calf Crop (%)

⁸Revised 1982.

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TABLE
          ITEM
          02 Sheep, Lamb Crop (%)
          03 Swine, Pigs Weaned per Litter (Units)
 21
          LIVESTOCK PRODUCTION ($)
          01 Dairy
          02 Poultry
          03 Beef
          04 Sheep
          05 Swine
 22
          CROPS--ACRES (Irr., Dry, Total, Owned, Rented)
              (Formula = 6A + 2B = C - 8,
              IF B = 2, ADD 1)
                                              A
                  Wheat
                                               1
                                                  IRRIG-1
                                                                TOTAL-1
                                               2
                  Corn
                                                     DRY=2
                                                                OWNED-2
                  Grain Sorghum
                                               3 RENTED=3
                  Soybeans
                                               4
                                               5
                  Sugar Beets
                  Alfalfa Hay
                                               6
                  All Silage
                                               7
                                               8
                  Other Grain
                  Other Hay
                                               0
                                              10
                  Other Cash Crops
23
          CROPS--PRODUCTION (Irr., Dry, Owned, Rented)
              (Formula = 4A + 2B + C - 6)
                                              Α
                  Wheat
                                              1
                                                  IRRIG=1
                                                                OWNED-1
                                              2
                  Corn
                                                     DRY=2
                                                               RENTED=2
                  Grain Sorghum
                                              3
                  Soybeans
                                              4
                                              5
                  Sugar Beets
                                              6
                  Alfalfa Hay
                  All Silage
24
          GROSS CROP VALUE AND PRODUCTION COSTS ($)
          01 Gross Value of Crops
          02 Fertilizer Cost
          03 Crop Production Costs
25
          CURRENT AND LONG-TERM LOANS AND ACCOUNTS RECEIVABLE;
              BEGINNING AND ENDING
              (Formula = 2A + B - 2)
                                                                      <u>B</u>
                                                         Α
                                                         1
                  Current Loans
                                                                 BEG. = 1
                                                          2
                  Long-Term Loans
                                                                 END.=2
                                                          3
                  Current Accts. Rec.
                                                         4
                  Long-Term Accts. Rec.
                  C & I Assets/C & I Loans
                                                          5
                                                          6
                  Total Loans/Net Worth
                  Capital Accounts9
                                                          7
```

New/revised 1980.

TABLE	<u>ITEM</u>
26	CROP LABOR AND NET WORTH PERCENTAGES ¹⁰ 01 LABOR % 02 C & I Assets % 03 Long-Term Asset %
27	NONFARM ASSETS AND INTERMEDIATE LOANS AND ACCOUNTS RECEIVABLE (BEGINNING AND ENDING) (\$) 1 Nonfarm Assets ¹¹ 2 Intermediate Loans ¹¹ Nonfarm Loans ¹¹ Intermediate Accts. Rec. ¹¹
28	01 HARVESTED ACRES ¹¹
29	SPECIAL FARM AND NON-FARM INCOME AND EXPENSE ¹² (\$) 01 Nontaxable and Cap. Receipts 02 Income Tax and Cap. Distr. 03 Motor Vehicle-Machinery Sales 04 Building Sales

¹⁰Revised 1982.

¹¹New 1977.

 $^{^{12}\}mbox{New}$ 1979 and revised 1980.