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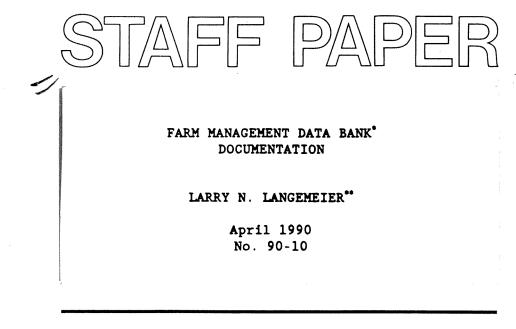
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SP no. 90-10



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Department of Agricultural Economics Kansas State University

FARM MANAGEMENT DATA BANK^{*} DOCUMENTATION

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TABLE OF CONTENTS

SECTION I: FARM MANAGEMENT DATA BANK, SAS DATA FILE	•••	1
Introduction To Farm Management Data Bank, SAS Data File	•••	2
Special Data Items	• •	3
Family Living Expenses-Taxes-Nonfarm Income and Expenses		6
Livestock Feed Disappearance		6
Livestock and Grain Sales and Purchases		7
Other Livestock, Misc. Income, Machinery, and Building Purchases		10
Livestock, Grain, Forage, and Cash Crop Inventories		11
Misc. Assets, Land Machinery-Equipment, and Building Inventories	•••	13
Farm Income Items, Accrual		14
Farm Cash Operating Expenses		14
Depreciation		×15
Unpaid Family Labor and Net Worth Opportunity Cost Change .		15
Rate of Returns and Net Worth Change		15
Current-Intermediate Assets, Land Value, and Capital Managed	•••	16
AcresTotal, Owned, and Rented	•••	16
Crop Machinery Investment and Costs		17
Livestock Numbers, Weanings, Number Handled, and Production	•••	17
CropsAcres	•••	18
CropsProduction	•••	19
Gross Crop Value and Production Costs		20
Current and Long-Term Loans and Accounts Receivable	•••	20
Crop Labor and Net Worth Percentages		21
Nonfarm Assets and Loans; Intermediate Loans and Accounts Receivable		22
Harvested Acres		22

TABLE OF CONTENTS (CONT.)

ı ..

ż

	23
Appendix Table AFarm Type Codes and Methods	20
SECTION II: WHOLE-FARM MANAGEMENT DATA BANK, K-MAR-105 DIRECTORY AND RAW DATA FILE; SOURCE OF VARIABLES	29
Introduction to Whole-Farm Farm Management Data Bank, K-MAR-105 Directory and Raw Data File; Source of Variables	30
Special Data Items	31
Business Type-Operator Numbers-Age	31
Family Living Expenses	31
Taxes-Family-Outside Income and Expense	32
Livestock Feed Disappearance	32
Livestock and Grain Sales and Purchases	32
Other Livestock, Misc. Income, and Machinery and Building Purchases	33
Livestock, Grain, Forage, and Cash Crop Inventories; Beginning and Ending	33
Misc. Assets, Land, Machinery-Equipment, and Building Inventories; Beginning and Ending	33
Farm Income Items, Accrual	34
Farm Cash Operating Expenses	34
Depreciation	35
Unpaid Family Labor and Net Worth Opportunity Cost Charge	35
Rate of Returns and Net Worth Change	35
Current-Intermediate Assets, Land Value, and Capital Managed	35
AcresTotal, Owned, and Rented	35
Crop Machinery Investment and Costs	35
Livestock NumbersUnits	35
Livestock WeaningsUnits	35
Livestock NumberAverage Head Handled	36

TABLE OF CONTENTS (CONT.)

1.

Livestock Births	36
Livestock Production	36
CropsAcres	36
CropsProduction	36
Gross Crop Value and Production Costs	36
Current and Long-Term Loans and Accounts Receivable	37
Crop Labor and Net Worth Percentages	37
Nonfarm Assets and Loans, Intermediate Loans and Accounts Receivable; Beginning and Ending	37
Harvested Acres	37
Special Farm and Non-Farm Income and Expense	37
SECTION III: FARM MANAGEMENT WHOLE-FARM DATA BANK SYSTEM, K-MAR-105 RAW DATA FILE AND RETRIEVAL SYSTEM	38
Introduction To Farm Management Whole-Farm Data Bank System, K-MAR-105 Raw Data File and Retrieval System	39
Special Data Items	40
Business Type-Operator Numbers-Age	40
Family Living Expenses	40
Taxes-Family Living-Outside Income and Expense	40
Livestock Feed Disappearance	41
Livestock and Grain Sales and Purchases	41
Other Livestock, Misc. Income, and Machinery and Building Purchases	42
Livestock Grain, Forage, and Cash Crop Inventories; Beginning and Ending	42
Misc. Assets, Land, Machinery-Equipment, and Building Inventories; Beginning and Ending	42
Farm Income Items, Accrual	43
Farm Cash Operating Expenses	43

TABLE OF CONTENTS (CONT.)

24

	Depreciation	43
	Unpaid Family Labor and Net Worth Opportunity Cost Change	43
	Rate of Returns and Net Worth Change	44
	Current-Intermediate Assets, Land Value, and Capital Managed	44
	AcresTotal, Owned, and Rented	44
	Crop Machinery Investment and Costs	44
	Livestock NumbersUnits	44
	Livestock WeaningsUnits	44
	Livestock NumbersAverage Number Handled	44
	Livestock Births	44
	Livestock Production	45
	CropsAcres	45
	CropsProduction	45
	Gross Crop Value and Production Costs	45
	Current and Long-Term Loans and Accounts Receivable; Beginning	45
	and Ending	
	Crop Labor and Net Worth Percentages	46
	Nonfarm Assets and Intermediate Loans and Accounts Receivable; Beginning and Ending	46
	Harvested Acres	46
•	Special Farm and Non-Farm Income and Expense	46

SECTION I FARM MANAGEMENT DATA BANK SAS DATA FILE

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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	DECIMAI FORMA
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 done utilization. For farms to be class single enterprise farm, 70 percent total labor must be utilized with t enterprise; whereas in a dual enter type, 35 percent of the total labor utilized with each enterprise.	sified as a of the that cprise farm
	1973-75: Same as above, except far classified as "Cash Crop Dry or Irr 50 percent or more of the labor was crop production. If 50 percent of was not used in crop production, th single or dual enterprise farm type determined. Also, a number of add farm types were added in 1976.	rigated" if s used for the labor nen other es were
	(See Appendix Table A for a definit various farm types).	tion of the
002	Crop Acres	9 (6).9
	Total (owned and rented) crop acres	5.
003	PMWU Production Man Work Units	9 (7).99
	Each acre of each different crop an livestock unit is assigned a "labor as a fraction of a 10-hour day or p man work units.	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 #	DECIMAL ITEM EXPLANATION FORMAT
	Labor standards were revised in 1976. Kansas 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 operating expense minus depreciation. Represents a return to operator's unpaid labor, management, and net worth.
007	Farm Summary Usage Code
	0 Farm was used in Summary and Analysis Report 1 Farm was not used in Summary and Analysis Report
	If a farm is coded "l", 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>

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¹The variables "Gross Farm Income" and "Net Farm Income" include off-farm income such as custom work, but not non-farm income.

ITEM EXPLANATION	DECIMAL FORMAT
6 Sole Proprietor, Part-Owne 7 Sole Proprietor, Tenant	r
Owner, part-owner, and tenant c based entirely on whether owned crop acres.	
Tax Code	
0 Cash 1 Accrual	
Variable has no real importance, income is computed on accrual bas	
Number of Operators	9 (1).9
Represents number of unpaid ope the case of corporations, share salary was removed from labor e number of months of operator la under unpaid operator labor. F each year, the Farm Management have recorded zero months of un an incorporated farm. In these number of operators would be ze	holders' xpense and bor recorded or a few farms Fieldmen may paid labor for cases, the
Number of Men	9 (2).9
Represents number of unpaid ope number of hired employees.	rators plus
Number Family Dependents	
Total number of family dependen of partnership and corporation value for number of family depe for the "primary" operator.	farms, the
Operator's Age	
Age of the operator. For partn corporation farms, the value fo age will be for the "primary" o a few corporation farms, no pri was selected, and thus the valu operator's age will be zero.	r operator's perator. For mary operator
Oldest Child's Age	
	 6 Sole Proprietor, Part-Owne 7 Sole Proprietor, Tenant Owner, part-owner, and tenant of based entirely on whether owned crop acres. Tax Code 0 Cash 1 Accrual Variable has no real importance, income is computed on accrual bas Number of Operators Represents number of unpaid ope the case of corporations, share salary was removed from labor enumber of months of operator labor. Feach year, the Farm Management have recorded zero months of unpaid ope number of operators would be ze Number of Men Represents number of unpaid ope number of hired employees. Number Family Dependents Total number of family dependent of partnership and corporation value for number of family dependents

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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	Wages ⁴ (\$)
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.

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 #	DECIMA ITEM EXPLANATION FORMA
" 	
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, 11 - 02 Purchase for Resale, Dairy Sales, Units
082	Purchase for Resale, Dairy Sales, Dounds
083	Purchase for Resale, Dairy Sales, Dollars
084	
085	Purchase for Resale, Sheep Sales, TI = 63
085	Purchase for Resale, Sheep Sales, Units
087	Purchase for Resale, Sheep Sales, Pounds
	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, $TI = 6$
093	Purchase for Resale, Grain Future Sales, Units
094	Purchase for Resale, Grain Future Sales, Pounds
095	Purchase for Resale, Grain Future Sales, Dollar
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, II = 71 Purchase for Resale, Beef Purchases, Units

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VARIABLE	DECIMA
#	ITEM EXPLANATION FORMAT
100	
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	Purchase for Resale, Grain Future Purchases, TI = 76
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
122	Units Purchase for Resale, Grain-Hay-Forage Purchases
123	Pounds 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
1 #	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 #	DECIMAL 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,
1 77	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.

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VARIABLE	DECIMA	
	#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 ⁶	
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		
#	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 LAN	
	SALES AND/OR PURCHASES.	
258	Beginning Inventory, Products and Misc Livestock-Crop Supplies, Dollars ⁷	
259	Ending Inventory, Products and Misc Livestock-Crop Supplies, Dollars ⁷	
260	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	Beginning Inventory, Cash and Misc., Dollars	
273	Ending Inventory, Cash and Misc., Dollars	
ARM INCOME ITEM	IS, 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	
0.01		

281Egg Sales282Grain, Accrual283Hay and Forage, Accrual284Cash Crops, Accrual

285 Other Product Sales (Fruits, Wool, Hides, Other)⁷
 286 Product Inventory Change
 287 Government Payments

Other Income⁷

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⁷New/revised 1980.

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VARIABLE	DECIMAL
#	ITEM EXPLANATION FORMAT
FARM CASH OPERATI	NG EXPENSES:
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
DEPRECIATION:	
311	Motor Vehicle Depreciation
312	Machinery-Equipment Depreciation
313	Building Depreciation
UNPAID FAMILY LAP	OR AND NET WORTH OPPORTUNITY COST CHANGE:
WORTH AN	S "314-316: REPRESENT AN OPPORTUNITY COST CHARGE ON NET ID FAMILY LABOR. THE OPPORTUNITY COST INTEREST AND ATES WERE:
	INTEREST RATES:
	1973-81 6.0%
•	1982- 10.0 x
	LABOR RATES/OPERATOR:
	1973-79 \$ 7,500
	1980-81 \$10,000
	1982 \$15,000
314	Interest Charge on Equity in Current and
	Intermediate Assets
315	Interest Charge on Equity in Long-Term Assets
21.6	(Land Buildings)
316	Charge for Unpaid Family Labor

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VARIABLE		DECIMAL
#	ITEM EXPLANATION	FORMAT

RATE OF RETURNS AND NET WORTH CHANGE:

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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.

321Owned Land Value322Rented Land Value	s
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, Rented
327	Irrigated Crop Acres, Total
328	Irrigated Crop Acres, Owned
329	Irrigated Crop Acres, Rented

VARIABLE #	ITEM EXPLANATION	DECIMAL 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	Total	Crop	Machinery	Investment
343	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		
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		(3).99
356	Sheep, Percent Lamb Crop		(3).99
357	Swine, Pigs Weaned Per Litter	9	(3).99

VARIABLE		DECIMAI
#	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	Corn, Total Dryland Acres	9 (4).9
373	Corn, Owned Dryland Acres	9 (4).9
374	Corn, Rented Dryland Acres	9 (4).9
375	Grain Sorghum, Total Irrigated Acres	9 (4).9
376	Grain Sorghum, Owned Irrigated Acres	9 (4).9
377	Grain Sorghum, Rented Irrigated Acres	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
400	Silage, Owned Irrigated Acres	9 (4).9
401	Silage, Rented Irrigated Acres	9 (4).9

JARIABLE #	ITEM EXPLANATION	DECIMAL 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).99
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
	Soybeans, Owned Irrigated Production	9 (7).99
435		
435 436	Sovbeans, Rented Irrigated Production	9 (7).99
435 436 437	Soybeans, Rented Irrigated Production Soybeans, Owned Dryland Production	9 (7).99 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:

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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:

ITEM -- EXPLANATION

DECIMAL FORMAT

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	Current Loans, Beginning Inventory	9	(9).99
455	Current Loans, Ending Inventory	9	(9).99
456	Long-Term Loans, Beginning Inventory	9	(9).99
457	Long-Term Loans, Ending Inventory	9	(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, Beginning Inventory	9	(9).99
463	Current-Intermediate Assets to Current-Intermediate Loans Ratio, Ending Inventory	9	(9).99
464	Total Loans to Net Worth Ratio,	9	(9).99
465	Total Loans to Net Worth Ratio, Ending	9	(9).99
466	Capital Accounts, Beginning Inventory ⁸	9	(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 (9).99
469	Crop Current-Intermediate Asset 9 (9).99
	Equity Opportunity Cost Charge Percent ⁹
470	Crop Long-Term Asset Equity 9 (9).99
	Opportunity Cost Charge Percent ⁹

⁸New/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 LOANS, AND INTERMEDIATE LOANS 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:

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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 Acres ¹⁰	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

¹¹New 1979 and revised 1980.

¹⁰New 1977.

FARM TYPE CODES

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<u>CODE</u>	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) <u>A grass operated</u> A crops operated

- 2

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

RATIO FORMULAS* (Cont.)

- (21) <u>ewe P plus feeder lamb purchases P</u>
- (22) <u>total beef P</u> TP
- (23) <u>total hog P</u> TP
- (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.

*Calculated from Production Man Work Units (PMWU) except (1). PMWU's = P Acres = A Total crop PMWU's = TCP Total PMWU's = TP

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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	24 = cash crop - sow & litter (feeder pig)
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
IF (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	<pre>41 = cash crop - backgrounding- finishing</pre>

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METHODS (Cont.)

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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	3 = cash crop irrigated beets
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.)

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

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

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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 "OllO". 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:

.

TABLEITEM0001Association No.02County No.03Farm Number04Retrieval ID05Year of Data06Farm Type07Crop Acres08PMWU (Production Man Work Units)09Capital Managed10Gross Farm Income11Net Farm Income12Farm Summary Usage13Family Living Summary Usage	LENGTH 1 2 5 4 2 2 4 5 6 6 6 6 1 1
--	--

RETRIEVAL FILES:

01	BUSINESS TYPE-OPERATOR NUMBERS - AGE Ol Assn/Co/Farm # O2 Year of Data O3 Business Organization Type O4 Tax Code O5 # Operators O6 # Men O7 # Family Dependents O8 Operator's Age O9 Oldest Child's Age	LENGTH 8 2 1 1 2 2 2 2 2 2 2 2 2
02	FAMILY LIVING EXPENSES (\$)	ATIG
	01 Medical Care	0041, 0042, 0044
	02 Contributions	0043
	03 Food	0051
	04 Clothing	0052
	05 Household Operations ¹	0053, 0045
	06 Education ¹	0055 0056
	07 Furniture & Household Equipment 08 Utilities (Non-Farm)	0050
	09 Auto Expense (Non-Farm)	008

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	0032-0038
	03 Gifts ³	0057 0054
	04 Personal-Recreation ³ 05 Life Insurance ³	0058
	06 Deductible Non-Farm Expense ³	010
	07 Wages ⁴	0011, 0019
	08 Rent and Royalties ⁴	0012, 0014
	09 Dividends and Interest ⁴	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	017 018
	Raised Hay & Forage Sales	018
	Raised Cash Crop Sales Poultry Purchases	040
	Feed Purchases	040
	Purchase for Resale, Beef Sales	061
	Purchase for Resale, Dairy Sales	062
	Purchase for Resale, Sheep Sales	063
	Purchase for Resale, Swine Sales	064
	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 Breeding Livestock, Dairy Sales	081 082
	Breeding Livestock, Dairy Sales Breeding Livestock, Sheep	082
	Breeding Livestock, Swine Sales	085
	storeing hiroboook, beine baies	

²New 1979 and revised 1980.

³Revised 1976.

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⁴New/revised 1980.

	Breeding Livestock, Beef Purchases	091
	Breeding Livestock, Dairy Purchases	092
	Breeding Livestock, Sheep Purchases	093
	Breeding Livestock, Swine Purchases	094
	-	
06	OTHER LIVESTOCK, MISCEL. INCOME, AND MA	ACHINERY & BUILDING
	PURCHASES (TI, \$)	ATI
	Raised, Other Livestock	015
	Machine Work	032
	Patronage Refunds	035
	Gas Tax Refunds	037
	Purchase for Resale, Other Livestock Sa	ales 065
	Purchase for Resale, Other Livestock Pu	rchases 075
	Breeding Stock, Other Livestock Sales	085
	Basis of Machinery Sold ⁵	090
	Breeding Stock, Other Livestock Purchas	ses 095
	Motor Vehicle Purchases	096
	Machinery Purchases	097
	Building Purchases	098
07		
07	LIVESTOCK, GRAIN, FORAGE, AND CASH CROI	
	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
0.0	MISC. ASSETS, LAND, MACHINERY-EQUIPMENT	C AND BUILDING
08	INVENTORIES-BEGINNING AND ENDING (S	
	Products, Misc. Supplies, Crop	568, 578, 520-529,
	Supplies & Livestock Supplies ⁵	541-543, 545-551, 553-
	suppries a prescock suppries	559
	Eval and Oil	552
	Fuel and Oil	580, 590
	Miscellaneous Assets	-
	Motor Vehicles	586, 596

⁵New/revised 1980.

<u>TABLE</u>

ITEM

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	Machinery	587, 597
	Buildings	588, 598
	Land, Owned	589, 599
	Cash and Miscellaneous Assets	501
		501
09	FARM INCOME ITEMS, ACCRUAL (\$)	
	01 Beef, Accrual	Section 35 Production
	02 Dairy, Accrual	Section 35 Production
	03 Sheep, Accrual	Section 35 Production
	04 Swine, Accrual	Section 35 Production
	05 Poultry, Accrual	Section 35 Production
	06 Other Livestock, Futures, Accrual	
	07 Milk Product Sales	022
	08 Egg Sales	026
	09 Grain, Accrual	Section 35 Production
	10 Hay and Forage, Accrual	Section 35 Production
	11 Cash Crops, Accrual	Section 35 Production
	12 Other Product Sales (Fruits,	(068-078, 020, 021
	Hides, Other) ⁶	023-025, 027-029
	13 Product Inventory Change	520-539, 568, 578
	14 Government Payments	036
	15 Other Income ⁶	(086+087+088)-090)
		030-035, 037, 038, 039
10	FARM CASH OPERATING EXPENSES (\$)	ATIG
	01 Hired Labor	041
	02 Machinery Repairs ⁷	0420-0424,
	· ·	053
	03 Building Repairs	0425-0429
	04 Interest Paid	043
	05 Feed Purchased	044
	06 Seed & Crop Ins.	045
	07 Fertilizer & Lime	046
	08 Machine Hire, Storage	047
	09 Organization Fees, etc.	048
	10 Vet-Medicine-Drugs	049
	11 Crop Storage-Marketing ⁷	053
	12 Livestock Marketing & Breeding	051
	13 Gas-Fuel-Oil	052
	14 Real Estate Taxes	0541, 0540,
		0543-0549
	15 Personal Property Taxes	0542
	16 General Farm Insurance	055
	17 Telephone & Electricity	056, 007
	18 Cash Farm Rent	057
	19 Herbicide and Insecticide	058
	20 Conservation	059
	21 Auto Expense	008

⁶New/revised 1980.

⁷Revised 1982.

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ITEM

TABLE

TABLE	ITEM	ATI
	22 Inventory Change	541-544, 548- 549, 551-552, 554-556
11	DEPRECIATION (\$)	
	01 Motor Vehicles	696
	02 Machinery	697
	03 Buildings	698
12	UNPAID FAMILY LABOR AND NET WORTH OPPORTUNITY COST CHARGE (\$)	Section
	01 Interest on C & I Assets	Section 36
	02 Interest on Long-Term Assets ⁸	Section 36
	03 Unpaid Family Labor ⁸ Family Labor	Months x 1,250
13	RATE OF RETURNS AND NET WORTH	
	CHANGE (%) (\$)	Section
	01 Rate of Return on Capital Managed (%)	Section 37
	02 Rate of Return on Net Worth (%)	Section 37
	03 Change in Net Worth (\$)	Section 32
14	CURRENT-INTERMEDIATE ASSETS, LAND	
14	VALUE, AND CAPITAL MANAGED (\$)	Section
	01 C & I Assets	Section 38
	02 Land Value, Owned	Section 38
	03 Land Value, Rented	Section 38
	04 Total Capital Managed	Section 38
15	ACRESTOTAL, OWNED, AND RENTED	Section
	Acres Operated	Section 34
	Irrigated Crop Acres	Section 34
	Dry Crop Acres	Section 34
	Total Crop Acres	Section 34
	Acres in Grass	8990-8997
	Farmstead Acres	8998-8999
16	CROP MACHINERY INVESTMENT AND COSTS (\$)	Section
	01 Total Crop Investment	Section 38
	02 Crop Machinery Costs	Section 38
17	LIVESTOCK NUMBERSUNITS ATIG	
	01 Beef Cows 5118, 58	18, 5918
	02 Sheep, Ewes 5138, 58	
	03 Swine, Litters 5148, 58	48, 5948
	04 Dairy, Cows 5128, 58	
	05 Poultry, Head 5162, 54	02
18	LIVESTOCK WEANINGSUNITS	ATI
	01 Beef, Calves	811
	-,	

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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	<u>Section</u> Section 38 Section 38 Section 38
20	LIVESTOCK BIRTHS 01 Beef, Calf Crop (%) 02 Sheep, Lamb Crop (%) 03 Swine, Pigs Weaned per Litter	<u>Section</u> Section 38 Section 38 Section 38
(Units)		
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	<pre>GROSS CROP VALUE AND PRODUCTION COSTS (\$) 01 Gross Value of Crops 02 Fertilizer Cost 03 Crop Production Costs</pre>	Section Section 38 Section 36 Section 38

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CURRENT AND LONG-TERM LOANS AND ACCOUNTS RECEIVABLE (BEGINNING AND ENDING) (\$)

ATIG

25

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 LOANS AND ACCOUNTS RECEIVABLE (BEGINNING & ENDING) (\$) ATIG 01 Nonfarm Assets¹¹ 503-505, 507-509, 510, 101, 103 02 Intermediate Loans¹¹ 1027, 196 197 03 Nonfarm Loans¹¹ 104, 105, 107-109, 110 04 Intermediate Accts, Rec.¹¹ 1067, 186, 187 Section 28 01 HARVESTED ACRES¹¹ Section 36 SPECIAL FARM & NON-FARM INCOME & EXPENSE¹² 29 ATIG (\$) 0039 01 Nontaxable and Cap. Receipts 02 Income Tax & Cap. Distr. 0098 086, 087 03 Motor Vehicles-Machinery Sales 04 Building Sales 088

⁹New/revised 1980.

¹⁰Revised 1982.

¹¹New 1977.

¹²New 1979 and revised 1980.

37

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

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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:

- TABLE ITEM
 - 00
- 01 Association 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 Operations¹
 - 06 Education¹
 - 07 Furniture & Household Equipment
 - 08 Utilities (Non-Farm)
 - 09 Auto Expense (Non-Farm)

03 TAXES-FAMILY LIVING-OUTSIDE INCOME & EXPENSE (\$) 01 Miscel. Taxable Non-Farm Income²

¹Revised 1976.

²New 1979 and revised 1980.

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

³New 1979 and revised 1980.

⁴Revised 1976.

⁵New/revised 1980.

TABLE ITEM

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	Breeding Livestock, Beef Purchases (91) 27 Breeding Livestock, Dairy Purchase (92) 28 Breeding Livestock, Sheep Purchases (93) 29 Breeding Livestock, Swine Purchases (94) 30	
06	OTHER LIVESTOCK, MISCEL. INCOME, AND MACHINERY AND BUILDING PURCHASES (\$)AE(Formula = 2A + B - 2)AERaised, Other Livestock (15)1TI-1Machine Work (32)2DOLLARS=2Patronage Refunds (35)3Gas Tax Refunds (37)4Purchase for Resale, Other Lvst.5Sales (65)9Purchase for Resale, Other Lvst.6Purchases (75)Breeding Stock, Other Lvst.6Breeding Stock, Other Lvst.9Purchases (95)Motor Vehicle Purchases (96)10Machinery Purchases (97)11Building Purchases (98)12	_
07	LIVESTOCK GRAIN, FORAGE, AND CASH CROP INVENTORIES; BEGINNING AND ENDING (Formula = 6A + 2B + C - 8, IF B = 2, ADD 1) <u>A</u> <u>B</u> <u>C</u> Beef Feeders 1 Beg.=1 UNITS=1 Beef Breeding Stock 2 End.=2 POUNDS=2 Dairy Breeding Stock 3 DOLLARS=3 Sheep Feeders 4 Sheep Breeding Stock 5 Swine Feeders 6 Swine Breeding Stock 7 Poultry ⁶ 8 Other Livestock - Futures 9 Grain ⁶ 10 Hay and Forage ⁶ 11 Cash Field Crops ⁶ 12 Feed 13	2
08	MISC. ASSETS. LAND, MACHINERY - EQUIPMENT, AND BUILDING INVENTORIES BEGINNING AND ENDING (\$) (Formula = 2A + B - 2) <u>A</u> Products, Miscellaneous Supplies, Crop Supplies & Lvst. Supplies ⁶ 1 Beg. Fuel and Oil 2 End. Miscellaneous Assets 3 Motor Vehicles 4	

⁶New/revised 1980.

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	ITEM
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	<pre>CURRENT - INTERMEDIATE ASSETS, LAND VALUE, AND CAPITAL MANAGED (\$) 01 C & I Assets 02 Land Value, Owned 03 Land Value, Rented 04 Total Capital Managed</pre>
15	ACRESTOTAL, OWNED, AND RENTED(Formula = 3A + B - 3)AAcres Operated1Total Crop Acres2OWNED=2Dry Crop Acres3Total Crop Acres4Acres in Grass5Farmstead Acres6
16	CROP MACHINERY INVESTMENT AND COSTS 01 Total Crop Investment 02 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	CROPSACRES (Irr., Dry, Total, Owned, Rented) (Formula = 6A + 2B = C - 8, IF B = 2, ADD 1) <u>A</u> <u>B</u> <u>C</u> Wheat 1 IRRIG=1 TOTAL=1 Corn 2 DRY=2 OWNED=2 Grain Sorghum 3 RENTED=3 Soybeans 4 Sugar Beets 5 Alfalfa Hay 6 All Silage 7 Other Grain 8 Other Hay 0 Other Cash Crops 10
23	CROPSPRODUCTION (Irr., Dry, Owned, Rented) (Formula = 4A + 2B + C - 6) <u>A</u> <u>B</u> <u>C</u> Wheat 1 IRRIG=1 OWNED=1 Corn 2 DRY=2 RENTED=2 Grain Sorghum 3 Soybeans 4 Sugar Beets 5 Alfalfa Hay 6 All Silage 7
24	GROSS CROP VALUE AND PRODUCTION COSTS (\$) Ol Gross Value of Crops O2 Fertilizer Cost O3 Crop Production Costs
25	CURRENT AND LONG-TERM LOANS AND ACCOUNTS RECEIVABLE; BEGINNING AND ENDING (Formula = 2A + B - 2)AB(Formula = 2A + B - 2)ABCurrent Loans1BEG.=1Long-Term Loans2END.=2Current Accts. Rec.3Long-Term Accts. Rec.4C & I Assets/C & I Loans5Total Loans/Net Worth6Capital Accounts97

⁹New/revised 1980.

TABLE ITEM

26

CROP LABOR AND NET WORTH PERCENTAGES¹⁰

- 01 LABOR X
- 02 C & I Assets %
- 03 Long-Term Asset %

27 NONFARM ASSETS AND INTERMEDIATE LOANS AND ACCOUNTS RECEIVABLE (BEGINNING AND ENDING) (\$)

- 01 Nonfarm Assets¹¹
- 02 Intermediate Loans¹¹
- 03 Nonfarm Loans¹¹
- 04 Intermediate Accts. Rec.¹¹
- 28 01 HARVESTED ACRES¹¹

29 SPECIAL FARM AND NON-FARM INCOME AND EXPENSE¹² (\$)

- 01 Nontaxable and Cap. Receipts
- 02 Income Tax and Cap. Distr.
- 03 Motor Vehicle-Machinery Sales
- 04 Building Sales

¹⁰Revised 1982.

¹¹New 1977.

¹²New 1979 and revised 1980.

