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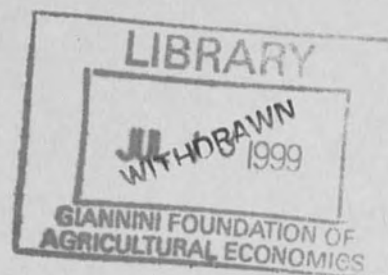
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# STAFF PAPER

**KANSAS ENTERPRISE DATA  
BANK FILE AND RETRIEVAL SYSTEM  
DOCUMENTATION**

by  
**Larry N. Langemeier\***

**APRIL 1999  
No. 99-6**

Department of Agricultural Economics

Kansas State University

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# SECTION I ENTERPRISE DATA BANK SAS DATA FILE

## INTRODUCTION

Section I outlines in depth the enterprise analysis variables stored on the Enterprise Data Bank, SAS File. This file contains 239 variables per enterprise for the years 1982-present. The number of different enterprises, as well as number of farms for each enterprise, will vary from year to year. Subsequent years' data will be added to the overall file when made available. Other SAS files can be developed from this comprehensive enterprise data bank, such as a file that contains only a specific enterprise for a given period.

The enterprise data sources are farms enrolled in the Kansas Farm Management Association program. For each enterprise, the variable values are on a **per operator** basis. Except where indicated by decimal format, the values are whole numbers.

The SAS Enterprise Data Bank provides a means whereby extension, instruction, and research personnel can easily access the data bank to obtain information for numerous projects. Every user has access to the enterprise data bank information using a simple, but standardized, procedure.



# FARM MANAGEMENT DATA BANK

## SAS DATA FILE<sup>1</sup>

VARIABLE #	ITEM -- EXPLANATION	DECIMAL FORMAT
<b>SPECIAL DATA ITEMS:</b>		
Farm No.	Farm Number, Enterprise Number, Year of Data 1 -- Association Number 2-3 -- County Number 4-8 -- Farm Number	
Enterprise No.	9-12 -- Enterprise Number <sup>2</sup>	
Year	13-15 --Year of Data	
<b>SPECIAL ENTERPRISE/TOTAL FARM DATA:</b>		
001	Farm Type Code <sup>3</sup>  Farm typing is done by labor utilization. For farms to be classified as a single enterprise farm, 70 percent of the total labor must be utilized with that enterprise, whereas in a dual enterprise farm, 35 percent of the total labor must be utilized with each enterprise. Farm typing (e.g., vegetable, truck crop) is based on receipts.	9 (2)
002	Enterprise Size  Enterprise size varies by the type of enterprise.  Type 1 = No. Beef Cows (Beef Cow Herd) Type 2 = No. Head (Livestock Feeding) Type 3 = No. Dairy Cows (Dairy Cow Herd) Type 4 = No. Ewes (Ewe and Lamb) Type 5 = No. Litters (Swine Farrowing)	9 (5)

<sup>1</sup>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.

<sup>2</sup>See Appendix Table A for list of enterprise numbers by type of enterprise.

<sup>3</sup>See Appendix Table B for a definition of the various farm types.

VARIABLE #	ITEM-EXPLANATION	DECIMAL FORMAT
	Type 6 = No. Head (Poultry) Type 7 = No. Acres (Crops)	
003	Units of Enterprise Production	9 (5)
	Units of production vary by the type of enterprise.	
	Type 1 = No. Weaned (Beef Cow Herd) Type 2 = Cwt. Gain Produced (Livestock Feeding) Type 3 = No. Weaned (Dairy Cow Herd) Type 4 = No. Weaned (Ewe and Lamb) Type 5 = No. Weaned (Swine Farrowing) Type 6 = No. Births (Poultry) Type 7 = Net Accrual Gain Units (Crops)	
004	Enterprise Storage Code	9 (1)
	0 – Enterprise was used in Enterprise ProfitLink Summary Report	
	1 – Enterprise was not used in Enterprise ProfitLink Summary Report	
	If an enterprise is code 1, then this enterprise's data were not complete or typical. Thus, the enterprise was removed from that year's Enterprise ProfitLink Summary Report.	
005	Enterprise Type	9 (1)
	The per unit analysis and report format vary by the type of enterprise.	
	Type 1 = Beef Cow Herd Type 2 = Livestock Feeding Type 3 = Dairy Cow Herd Type 4 = Ewe and Lamb Type 5 = Swine Farrowing Type 6 = Poultry Type 7 = Crop	
006	Crop Acres	9 (6).9
	Total (owned and rented) crop acres.	



VARIABLE #	ITEM-EXPLANATION	DECIMAL FORMAT
007	Production Work Units Each acre of each different crop and each livestock unit are assigned a "labor factor" as a fraction of a 10-hour day or productive work units.	9 (7).99
008	Capital Managed Total farm assets plus value of rented land.	9 (9).99
009	Value of Farm Production <sup>4</sup> Total value computed on accrual basis.	9 (9).99
010	Net Farm Income Equals value of farm production minus accrual operating expenses minus depreciation. Represents a return to operator's labor, management, and equity.	9 (9).99

#### **LIVESTOCK AND GRAIN SALES, INVENTORY, OTHER:**

These variables represent livestock and grain sales, ending inventory, and other values that comprise gross accrual income. For each specific type of livestock, grain-hay, inventory, or other, three values are provided: units, pounds, and dollars. For example, raised livestock sales will have the following variables:

011 – Raised Livestock Sales, Units	9 (7).99
012 – Raised Livestock Sales, Pounds	9 (8).9
013 – Raised Livestock Sales, Dollars	9 (9).99

The specific value in each variable will depend on the Enterprise Number. For example, Raised Livestock Sales can contain raised beef, dairy, sheep, swine, poultry, and other livestock sales. For example, the raised livestock sales will include

---

<sup>4</sup>Variable equalled gross farm income for the period 1982-1997. Value of farm production equals gross farm income minus accrued feed purchased.

VARIABLE #	ITEM-EXPLANATION	DECIMAL FORMAT
	only raised market hog sales for the Swine Farrow-Finish enterprise. <sup>5</sup>	
011	Raised Livestock Sales, Units	
012	Raised Livestock Sales, Pounds	
013	Raised Livestock Sales, Dollars	
014	Raised Grain-Hay-Cash Field Crop - Truck Crop Sales, Units	
015	Raised Grain-Hay-Cash Field Crop - Truck Crop Sales, Pounds	
016	Raised Grain-Hay-Cash Field Crop - Truck Crop Sales, Dollars	
017	Livestock Purchased for Resale Sales, Units	
018	Livestock Purchased for Resale Sales, Pounds	
019	Livestock Purchase for Resale Sales, Dollars	
020	Grain-Other Purchased for Resale Sales, Units	
021	Grain-Other Purchased for Resale Sales, Pounds	
022	Grain-Other Purchased for Resale Sales, Dollars	
023	Livestock Breeding Sales, Units	
024	Livestock Breeding Sales, Pounds	
025	Livestock Breeding Sales, Dollars	
026	Ending Inventory, Units	
027	Ending Inventory, Pounds	
028	Ending Inventory, Dollars	
029	Grain and Forage Fed (Transfer), Units	
030	Grain and Forage Fed (Transfer), Pounds	
031	Grain and Forage Fed (Transfer), Dollars	
032	Death Loss, Units	
033	Death Loss, Pounds	
034	Death Loss, Dollars	
035	Gross Accrual Income, Units	
036	Gross Accrual Income, Pounds	
037	Gross Accrual Income, Dollars	
038	Crop Insurance Proceeds, Units	
039	Crop Insurance Proceeds, Pounds	
040	Crop Insurance Proceeds, Dollars	

#### **LIVESTOCK AND GRAIN PURCHASES, INVENTORY, OTHER:**

These variables represent livestock and grain purchases, beginning inventory, and other values that comprise gross

<sup>5</sup>The specific value for each variable depends on TI code utilized for cash income and expense transaction. See Appendix Table C for a complete listing of current TI codes. Appendix Table D outlines the changes that have occurred in the TI Codes for grain, hay and forage, cash field crops, and truck crops during the period 1982-present.

VARIABLE #	ITEM-EXPLANATION	DECIMAL FORMAT
	accrual purchases. For each specific type of livestock, grain-hay, inventory, or other, three values are provided: units, pounds, and dollars. For example, livestock purchased for resale will have the following variables:	
	041 – Livestock Purchased for Resale, Units	9 (7).99
	042 – Livestock Purchased for Resale, Pounds	9 (8).9
	043 – Livestock Purchased for Resale, Dollars	9 (9).99
	The specific value in each variable will depend on the Enterprise Number. For example, Livestock Purchased for Resale Purchases can contain beef, dairy, sheep, swine, poultry, and other livestock purchases. For example, the livestock purchased for resale variable will include only feeder pigs for the Swine Finish Feeder Pig enterprise.	
041	Livestock Purchased for Resale Purchases, Units	
042	Livestock Purchased for Resale Purchases, Pounds	
043	Livestock Purchased for Resale Purchases, Dollars	
044	Grain-Other Purchased for Resale Purchases, Units	
045	Grain-Other Purchased for Resale Purchases, Pounds	
046	Grain-Other Purchased for Resale Purchases, Dollars	
047	Livestock Breeding Purchases, Units	
048	Livestock Breeding Purchases, Pounds	
049	Livestock Breeding Purchases, Dollars	
050	Beginning Inventory, Units	
051	Beginning Inventory, Pounds	
052	Beginning Inventory, Dollars	
053	Livestock Births, Units	
054	Livestock Births, Pounds	
055	Livestock Births, Dollars	
056	Gross Accrual Purchases, Units	
057	Gross Accrual Purchases, Pounds	
058	Gross Accrual Purchases, Dollars	
<b>NET ACCRUAL GAIN:</b>		
	Net Accrual Gain is equal to Gross Accrual Income Sales minus Gross Accrual Purchases.	
059	Net Accrual Gain, Units	9 (7).99
060	Net Accrual Gain, Pounds	9 (8).9
061	Net Accrual Gain, Dollars	9 (9).99

VARIABLE #	ITEM-EXPLANATION	DECIMAL FORMAT
<b>OTHER INCOME:<sup>6</sup></b>		
For each specific other income variable three values are provided: units, pounds, and dollars. For example, dairy products (milk) will have the following variables:		
065	Dairy Products (Milk), Units	9 (7).99
066	Dairy Products (Milk), Pounds	9 (8).9
067	Dairy Products (Milk), Dollars	9 (9).99
In most cases, these income variables will not include values for units and pounds.		
062	Vegetables, Units	
063	Vegetables, Pounds	
064	Vegetables, Dollars	
065	Dairy Products (Milk), Units	
066	Dairy Products (Milk), Pounds	
067	Dairy Products (Milk), Dollars	
068	Animal By-Products, Units	
069	Animal By-Products, Pounds	
070	Animal By-Products, Dollars	
071	Custom Feeding, Units	
072	Custom Feeding, Pounds	
073	Custom Feeding, Dollars	
074	Landlord Refunds, Units	
075	Landlord Refunds, Pounds	
076	Landlord Refunds, Dollars	
077	Eggs, Units	
078	Eggs, Pounds	
079	Eggs, Dollars	
080	Nursery Crops, Units	
081	Nursery Crops, Pounds	
082	Nursery Crops, Dollars	
083	Tree Nuts, Units	
084	Tree Nuts, Pounds	
085	Tree Nuts, Dollars	
086	Special Farm Income, Units	
087	Special Farm Income, Pounds	
088	Special Farm Income, Dollars	

<sup>6</sup>Appendix D outlines the changes that have occurred in the TI codes for other income variables during the period 1982-present.

VARIABLE #	ITEM-EXPLANATION	DECIMAL FORMAT
089	Machine Work, Units	
090	Machine Work, Pounds	
091	Machine Work, Dollars	
092	Breeding Fees, Units	
093	Breeding Fees, Pounds	
094	Breeding Fees, Dollars	
095	Christmas Trees - Lumber, Units	
096	Christmas Trees - Lumber, Pounds	
097	Christmas Trees - Lumber, Dollars	
098	Patronage Refunds, Units	
099	Patronage Refunds, Pounds	
100	Patronage Refunds, Dollars	
101	Government Payments, Units	
102	Government Payments, Pounds	
103	Government Payments, Dollars	
104	Gas Tax Refunds, Units	
105	Gas Tax Refunds, Pounds	
106	Gas Tax Refunds, Dollars	
107	Non-Crop Insurance Income, Units	
108	Non-Crop Insurance Income, Pounds	
109	Non-Crop Insurance Income, Dollars	
110	Miscellaneous Income, Units	
111	Miscellaneous Income, Pounds	
112	Miscellaneous Income, Dollars	
113	Livestock Futures, Units	
114	Livestock Futures, Pounds	
115	Livestock Futures, Dollars	
116	Total Other Income, Units	
117	Total Other Income, Pounds	
118	Total Other Income, Dollars	

#### GROSS ACCRUAL INCOME:

Gross Accrual Income is equal to Net Accrual Gain plus Total Other Income

119	Gross Accrual Income, Units	9 (7).99
120	Gross Accrual Income, Pounds	9 (8).9
121	Gross Accrual Income, Dollars	9 (9).99

#### VARIABLE COSTS:

For each specific variable cost, three values are provided: units, pounds, and dollars. For example, hired labor will have the



VARIABLE #	ITEM-EXPLANATION	DECIMAL FORMAT
	following variables:	
	122 – Hired Labor, Units	9 (7).99
	123 – Hired Labor, Pounds	9 (8).9
	124 – Hired Labor, Dollars	9 (9).99
	In most cases, these variable cost variables will not include values for units and pounds.	
122	Hired Labor, Units	
123	Hired Labor, Pounds	
124	Hired Labor, Dollars	
125	Repairs-Tools-Supplies, Units	
126	Repairs-Tools-Supplies, Pounds	
127	Repairs-Tools-Supplies, Dollars	
128	Interest Paid, Units	
129	Interest Paid, Pounds	
130	Interest Paid, Dollars	
131	Feed Purchased, Units	
132	Feed Purchased, Pounds	
133	Feed Purchased, Dollars	
134	Raised Grain Fed, Units	
135	Raised Grain Fed, Pounds	
136	Raised Grain Fed, Dollars	
137	Raised Hay-Forage Fed, Units	
138	Raised Hay-Forage Fed, Pounds	
139	Raised hay-Forage Fed, Dollars	
140	Total Feed, Units	
141	Total Feed, Pounds	
142	Total Feed, Dollars	
143	Seed Expense, Units	
144	Seed Expense, Pounds	
145	Seed Expense, Dollars	
146	Fertilizer-Lime Expense, Units	
147	Fertilizer-Lime Expense, Pounds	
148	Fertilizer-Lime Expense, Dollars	
149	Machine Hire-Lease, Units	
150	Machine Hire-Lease, Pounds	
151	Machine Hire-Lease, Dollars	
152	Farm Org. Fees, Travel, Pub., Units	
153	Farm Org. Fees, Travel, Pub., Pounds	
154	Farm Org. Fees, Travel, Pub., Dollars	
155	Vet-Medicine-Drugs, Units	
156	Vet-Medicine-Drugs, Pounds	



VARIABLE #	ITEM-EXPLANATION	DECIMAL FORMAT
157	Vet-Medicine-Drugs, Dollars	
158	Dairy Expense, Units	
159	Dairy Expense, Pounds	
160	Dairy Expense, Dollars	
161	Livestock Marketing-Breeding, Units	
162	Livestock Marketing-Breeding, Pounds	
163	Livestock Marketing-Breeding, Dollars	
164	Gas-Fuel-Oil, Units	
165	Gas-Fuel-Oil, Pounds	
166	Gas-Fuel-Oil, Dollars	
167	Crop Storage-Marketing, Units	
168	Crop Storage-Marketing, Pounds	
169	Crop Storage-Marketing, Dollars	
170	Personal Property Taxes, Units	
171	Personal Property Taxes, Pounds	
172	Personal Property Taxes, Dollars	
173	General Farm Insurance, Units	
174	General Farm Insurance, Pounds	
175	General Farm Insurance, Dollars	
176	Farm Utilities, Units	
177	Farm Utilities, Pounds	
178	Farm Utilities, Dollars	
179	Cash Farm Rent, Units	
180	Cash Farm Rent, Pounds	
181	Cash Farm Rent, Dollars	
182	Herbicides-Insecticides, Units	
183	Herbicides-Insecticides, Pounds	
184	Herbicides-Insecticides, Dollars	
185	Conservation, Units	
186	Conservation, Pounds	
187	Conservation, Dollars	
188	Farm Utilities, Units	
189	Farm Utilities, Pounds	
190	Farm Utilities, Dollars	
191	Farm Auto, Units	
192	Farm Auto, Pounds	
193	Farm Auto, Dollars	
194	Livestock Futures, Units	
195	Livestock Futures, Pounds	
196	Livestock Futures, Dollars	
197	Irrigation Equipment Repairs, Units	
198	Irrigation Equipment Repairs, Pounds	
199	Irrigation Equipment Repairs, Dollars	
200	Crop Insurance, Units	

VARIABLE #	ITEM-EXPLANATION	DECIMAL FORMAT
201	Crop Insurance, Pounds	
202	Crop Insurance, Dollars	
203	Irrigation Fuel-Pumping Energy, Units	
204	Irrigation Fuel-Pumping Energy, Pounds	
205	Irrigation Fuel-Pumping Energy, Dollars	

#### TOTAL VARIABLE COSTS, NET RETURNS:

Total variable costs are equal to the sum of variables 122-205.  
Net return above variable expenses is equal to Gross Accrual  
Income minus Total Variable Costs. Decimal format is equal to:

Units	9 (7).99
Pounds	9 (8).9
Dollars	9 (9).99

206	Total Variable Costs, Units
207	Total Variable Costs, Pounds
208	Total Variable Costs, Dollars
209	Net Return above Variable Costs, Units
210	Net Return above Variable Costs, Pounds
211	Net Return above Variable Costs, Dollars

#### FIXED COSTS:

The unpaid operator labor and interest charge variables represent opportunity cost charges on labor and investment minus interest paid, respectively. The opportunity cost labor rates and interest were:

##### Labor Rates/Operator:

1982-90 – \$15,000  
1991-96 – \$22,500  
1997-Present – \$27,000

##### Interest Rates:

1982-90 – 10.0%  
1991-Present – 8.0%

212	Depreciation	9 (9).99
213	Unpaid Operator Labor	9 (9).99
214	Interest Charge	9 (9).99

VARIABLE #	ITEM-EXPLANATION	DECIMAL FORMAT
215	Real Estate Taxes	9 (9).99
<b>TOTAL EXPENSES AND NET RETURNS:</b>		
Total fixed costs are equal to sum of variables 212-215. Total expenses is equal to the sum of Total Variable Costs and Total Fixed Costs. Net return to mgt. is equal to Gross Accrual Income minus Total Expenses. Net return to labor-mgt.-land is equal Net Return to Mgt. plus Unpaid Operator Labor plus Hired Labor. Decimal format is equal to:		
	Units	9 (7).99
	Pounds	9 (8).9
	Dollars	9 (9).99
216	Total Fixed Costs, Units	
217	Total Fixed Costs, Pounds	
218	Total Fixed Costs, Dollars	
219	Total Expenses, Units	
220	Total Expenses, Pounds	
221	Total Expenses, Dollars	
222	Net Return to Mgt., Units	
223	Net Return to Mgt., Pounds	
224	Net Return to Mgt., Dollars	
225	Net Return to Labor-Mgt., Units	
226	Net Return to Labor-Mgt.-Land, Pounds	
227	Net Return to Labor-Mgt.-Land, Dollars	
228	Total Feed Costs, Units	
229	Total Feed Costs, Pounds	
230	Total Feed Costs, Dollars	
231	Total Nonfeed Costs, Units	
232	Total Nonfeed Costs, Pounds	
233	Total Nonfeed Costs, Dollars	
<b>PRODUCTION ITEMS:</b>		
These production variables are specific to enterprise types 1 and 7.		
234	Crop Acres, Owned	9 (6).9
235	Crop Acres, Rented	9 (6).9
236	Crop Production, Owned	9 (9).99
237	Crop Production, Rented	9 (9).99
238	Calving Percent – 1 <sup>st</sup> 30 Days	9 (7).99
239	Calving Percent – 2 <sup>nd</sup> 30 Days	9 (7).99

**SECTION II**  
**ENTERPRISE DATA BANK SYSTEM**  
**K-MAR-105 DATA FILE AND RETRIEVAL SYSTEM**

**INTRODUCTION**

Section II outlines in depth the enterprise analysis variables stored on the enterprise data bank for use with the K-MAR-105 Retrieval System. The file contains 239 variables per enterprise for the years 1982-present. The number of different enterprises, as well as the number of farms for each enterprise, will vary from year to year. Subsequent years' data will be added to the overall file when made available.

The enterprise data sources are farms enrolled in the Kansas Farm Management Association program. For each enterprise, the variable values are on a **per operator** basis. Except where indicated by decimal format, the values are whole numbers.

Section II must be used when utilizing the K-MAR-105 Retrieval System to access enterprise data from the data file. The Retrieval System includes numerous programs, such as the Enterprise ProfitLink Summary and Enterprise Factor Retrieval. For example, the Enterprise ProfitLink Summary can be used to provide an aggregate analysis of farms for a given enterprise or an aggregate analysis for a given enterprise by county, farm type, or value of farm production.

The variables are accessed through the use of the Table and Item numbers listed under the Retrieval File. Each variable has a four-digit number. For example, if an analysis on Farm Type is desired, then the variable number would be 0007 as obtained from Table 00. For tables that have numerous values, the formula listed with the table is used to obtain the desired variable number. For example, if Livestock Raised Sales dollars from Table 01 are desired, the formula listed with Table 01 is used to obtain the variable number of 0103.

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

# ENTERPRISE DATA BANK RETRIEVAL SYSTEM<sup>1</sup>

## RETRIEVAL FILES:

<u>TABLE</u>	<u>ITEM</u>	<u>LENGTH</u>
00	<b>Special Enterprise Data:</b>	
	01 Association Number	1
	02 County Number	2
	03 Farm Number	3
	04 Subfarm Number	2
	05 Enterprise Number <sup>2</sup>	4
	06 Year of Data	2
	07 Farm Type <sup>3</sup>	2
	08 Enterprise Size	5
	Beef Cow Herd = No. Beef Cows	
	Livestock Feeding = No. Head	
	Dairy Cow Herd = No. Dairy Cows	
	Ewe-Lamb = No. Ewes	
	Swine Farrowing = No. Litters	
	Poultry = No. Head	
	Crops = No. Acres	
	09 Units of Production	5
	Livestock Breeding = No. Weaned	
	Livestock Feeding = Cwt. Gain Produced	
	Crops = Units, Net Accrual Gain	
	10 Enterprise Storage Code	1
	0 = Used in Enterprise ProfitLink Summary Report	
	1 = Not Used in Enterprise ProfitLink Summary Report	
	11 Enterprise Type	1
	Type 1 = Beef Cow Herd	
	Type 2 = Livestock Feeding	
	Type 3 = Dairy Cow Herd	
	Type 4 = Ewe and Lamb	
	Type 5 = Swine Farrowing	

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<sup>1</sup>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.

<sup>2</sup>See Appendix Table A for list of enterprise numbers by type of enterprise.

<sup>3</sup>See Appendix Table B for a definition of the various farm types.

<u>TABLE</u>	<u>ITEM</u>	<u>A</u>	<u>LENGTH</u>	<u>B</u>
--------------	-------------	----------	---------------	----------

Type 6 = Poultry

Type 7 = Crops

**Special Total Farm Data:**

12	Crop Acres	9	(6).9
13	Production Work Units	9	(7).99
14	Capital Managed	9	(9).99
15	Value of Farm Production <sup>4</sup>	9	(9).99
16	Net Farm Income	9	(9).99

01 **LIVESTOCK AND GRAIN SALES, INVENTORY, OTHER:  
(UNITS, POUNDS, DOLLARS)**

Units	9	(7).99
Pounds	9	(8).9
Dollars	9	(9).99

(The numbers, such as 11 for Beef, represent the TI or TIG codes. See Appendix Tables C and D for complete code list.)<sup>5</sup>

(Formula = 3A + B - 3)

	<u>A</u>	<u>B</u>
Livestock Raised	1	Units = 1
Beef - 11		Pounds = 2
Dairy - 12		Dollars = 3
Sheep - 13		
Swine - 14		
Other Livestock - 15		
Poultry - 16		
Grain-Hay-Cash Field Crops-Truck Crops Raised	2	
Grain - 170-178		
Hay and Roughage - 18		
Cash Field Crops - 19		
Vegetables - 21		
Truck Crops - 27		
Fruits-Berries-Grapes - 28		
Livestock Purchased for Resale	3	
Futures - 60		

<sup>4</sup>Variable equalled gross farm income for the period 1982-1997. Value of farm production equals gross farm income minus accrued feed purchased.

<sup>5</sup>The TIG codes for grain, hay, and forage, cash field crops, and truck crops were revised during the period 1982-present. Appendix Table D outlines the changes that have occurred in these crop codes.



<u>TABLE</u>	<u>ITEM</u>	<u>A</u>	<u>LENGTH</u>	<u>B</u>
	Beef – 61			
	Dairy – 62			
	Sheep – 63			
	Swine – 64			
	Other Livestock – 65			
	Grain-Other Purchased for Resale	4		
	Futures – 66			
	Grain-Hay-Forage – 67			
	Seed-Supply – 68			
	Other Resale – 69			
	Livestock Breeding	5		
	Beef – 81			
	Dairy – 82			
	Sheep – 83			
	Swine – 84			
	Other Livestock – 85			
	Ending Inventory	6		
	Grain and Forage Fed (Transfer)	7		
	Death Loss	8		
	Gross Accrual Income	9		
	Crop Insurance Proceeds – 179	10		

02 **LIVESTOCK AND GRAIN PURCHASES, INVENTORY, OTHER:  
(UNITS, POUNDS, DOLLARS)**

Units	9 (7).99
Pounds	9 (8).9
Dollars	9 (9).99

(The numbers, such as 71 for Beef, represent the TI or TIG codes. See Appendix Tables C and D for complete code list.)

(Formula = 3A + B - 3)	<u>A</u>	<u>B</u>
Livestock Purchase for Resale	1	Units = 1
Poultry – 40		Pounds = 2
Beef – 71		Dollars = 3
Dairy – 72		
Sheep – 73		
Swine – 74		
Other Livestock – 75		
Grain-Other Purchased for Resale	2	
Futures – 76		
Grain-Hay-Forage – 77		
Seed-Supply – 78		

<u>TABLE</u>	<u>ITEM</u>	<u>A</u>	<u>LENGTH</u>	<u>B</u>
	Other Resale – 79			
	Livestock Breeding	3		
	Beef – 91			
	Dairy – 92			
	Sheep – 93			
	Swine – 94			
	Other Livestock – 95			
	Beginning Inventory	4		
	Livestock Births	5		
	Gross Accrual Purchases	6		
	Net Accrual Gain	7		

03 **OTHER INCOME: (UNITS, POUNDS, DOLLARS)**

Units	9 (7).99
Pounds	9 (8).9
Dollars	9 (9).99

(The numbers, such as 22 for Dairy Products (Milk), represent the TI or TIG codes. See Appendix Tables C and D for complete code list.)<sup>6</sup>

(Formula = 3A + B -3)	<u>A</u>	<u>B</u>
Vegetables – 20	1	Units = 1
Dairy Products (Milk) – 22	2	Pounds = 2
Animal By-Products – 23	3	Dollars = 3
Custom Feeding – 24	4	
Landlord Refunds – 25	5	
Eggs - 26	6	
Nursery Crops – 29	7	
Nursery Crops – 30	8	
Special Farm Income – 31	9	
Machine Work – 32	10	
Breeding Fees – 33	11	
Christmas Trees-Lumber – 34	12	
Patronage Refunds – 35	13	
Government Payments – 36	14	
Gas Tax Refunds – 37	15	
Non-Crop Insurance Income – 38	16	
Miscellaneous Income – 39	17	
Livestock Futures – 60	18	

<sup>6</sup>Appendix D outlines the changes that have occurred in the TI codes for other income variables during the period 1982-present.

<u>TABLE</u>	<u>ITEM</u>	<u>A</u>	<u>LENGTH</u>	<u>B</u>
	Total Other Income	19		
	Gross Accrual Income	20		

04

**VARIABLE COSTS: (UNITS, POUNDS, DOLLARS)**

Units	9 (7).99
Pounds	9 (8).9
Dollars	9 (9).99

(The numbers, such as 41 for Labor Hired, represent the TI or TIG codes. See Appendix Tables C and D for complete code list.)

(Formula = 3A + B - 3)	<u>A</u>	<u>B</u>
Labor Hired - 41	1	Units = 1
Repairs-Tools-Supplies - 42	2	Pounds = 2
Interest Paid - 43	3	Dollars = 3
Feed Purchased - 44	4	
Raised Grain	5	
Raised Hay and Forage	6	
Total Feed	7	
Seed Expense - 450-455, 457-459	8	
Fertilizer-Lime - 46	9	
Machine Hire-Lease - 47	10	
Farm Org. Fees, Travel, Pub. - 48	11	
Vet.-Medicine-Drugs - 49	12	
Dairy Expense - 50	13	
Livestock Marketing-Breeding - 51	14	
Gas-Fuel-Oil - 520-524, 526-529	15	
Crop Storage and Marketing - 53	16	
Personal Property Taxes - 542-549	17	
General Farm Insurance - 55	18	
Farm Utilities - 56	19	
Cash Farm Rent - 57	20	
Herbicides-Insecticides - 58	21	
Conservation - 59	22	
Farm Utilities - 07	23	
Farm Auto - 08	24	
Livestock Futures - 70	25	
Total Variable Costs	26	
Net Return above Variable Costs	27	
Irrigation Equipment Repair - 424	28	
Crop Insurance - 456	29	
Irrigation Fuel-Pumping - 525	30	

<u>TABLE</u>	<u>ITEM</u>	<u>A</u>	<u>LENGTH</u>	<u>B</u>
05	<b>FIXED COSTS: (DOLLARS)</b>			
	01 Depreciation		9 (9).99	
	02 Unpaid Operator Labor		9 (9).99	
	03 Interest Charge		9 (9).99	
	04 Real Estate Taxes		9 (9).99	
06	<b>TOTAL EXPENSES AND NET RETURNS: (UNITS, POUNDS, DOLLARS)</b>			
	Units		9 (7).99	
	Pounds		9 (8).9	
	Dollars		9 (9).99	
	(Formula = 3A + B - 3)	<u>A</u>		<u>B</u>
	Total Fixed Costs	1		Units = 1
	Total Expenses	2		Pounds = 2
	Net Return to Mgt.	3		Dollars = 3
	Net Return to Labor, Mgt., Land	4		
	Total Feed Costs	5		
	Total Nonfeed Costs	6		
07	<b>PRODUCTION ITEMS:</b>			
	01 Crop Acres, Owned		9 (6).9	
	02 Crop Acres, Rented		9 (6).9	
	03 Crop Production, Owned		9 (9).99	
	04 Crop Production, Rented		9 (9).99	
	05 Calving Percent - 1 <sup>st</sup> 30 Days		9 (7).99	
	06 Calving Percent - 2 <sup>nd</sup> 30 Days		9 (7).99	

**APPENDIX TABLE A**  
**ENTERPRISE CODES BY TYPE OF ENTERPRISE\***  
**1982-91**

---

**Type 1 - Beef Cow Herd**

<b>1000</b>	<b>Beef Cows</b>
<b>1100</b>	<b>Beef Cows</b>
<b>1200</b>	<b>Beef Cows, Grade</b>
<b>1300</b>	<b>Beef Cows, Purebred</b>

**Type 2 - Livestock Feeding\*\***

<b>1400</b>	<b>Beef Backgrounding</b>
<b>1500</b>	<b>Beef Fattening</b>
<b>1600</b>	<b>Deferred Steers</b>
<b>1700</b>	<b>Deferred Heifers</b>
<b>1800</b>	<b>Beef Backgrounding-Finishing</b>
<b>1900</b>	<b>Winter-Graze</b>
2500	Dairy Feeding
2600	Dairy Feeding
2700	Dairy Feeding
2800	Dairy Feeding
2900	Dairy Feeding
3400	Sheep Growing
<b>3500</b>	<b>Sheep Fattening (Feeder Lambs)</b>
3600	Sheep Feeding
3700	Sheep Feeding
3800	Sheep Feeding
3900	Sheep Feeding
<b>4400</b>	<b>Swine Fattening - Raised</b>
<b>4500</b>	<b>Swine Fattening - Purchased Feeder Pigs</b>
<b>4600</b>	<b>Swine Feeding</b>
4700	Swine Feeding
4800	Swine Feeding
4900	Swine Feeding
5000	Other Livestock Feeding
5100	Bees
5200	Dogs
5300	Goats
5400	Horses
<b>5500</b>	<b>Rabbits</b>
5600	Furbearing
5700	Other Livestock Feeding
5800	Other Livestock Feeding
5900	Other Livestock Feeding

**APPENDIX TABLE A (CONT)**  
**1982-91**

**Type 3 - Dairy Cow Herd**

2000	Dairy Cows
<b>2100</b>	<b>Dairy Cows, Grade (B)</b>
<b>2200</b>	<b>Dairy Cows, Grade (A)</b>
<b>2300</b>	<b>Dairy Cows, Purebred</b>
<b>2400</b>	<b>Dairy Replacement</b>

**Type 4 - Ewe and Lamb**

3000	Sheep Breeding
3100	Sheep Breeding
<b>3200</b>	<b>Sheep Breeding, Grade</b>
<b>3300</b>	<b>Sheep Breeding, Purebred</b>

**Type 5 - Swine Farrowing\*\***

4000	Sow and Litter
<b>4100</b>	<b>Sow and Litter—Sell Feeder Pigs</b>
<b>4200</b>	<b>Sow and Litter, Grade—Sell Finished Pigs</b>
<b>4300</b>	<b>Sow and Litter, Purebred—Sell Finished Pigs</b>

**Type 6 - Poultry**

6000	Poultry
<b>6100</b>	<b>Broilers</b>
<b>6200</b>	<b>Layers</b>
6300	Ducks
<b>6400</b>	<b>Turkeys</b>
6500	Geese
6600	Guineas

**Type 7 - Crops\*\*\***

6700	Cash Crops (Nonirrigated)
6800	Cash Crops (Irrigated)
6900	Crops, Other
7000	Grain
<b>7100</b>	<b>Barley</b>
<b>7200</b>	<b>Corn</b>
<b>7300</b>	<b>Grain Sorghum</b>
<b>7400</b>	<b>Oats</b>
<b>7500</b>	<b>Rye</b>
<b>7600</b>	<b>Wheat</b>
7700	Other Grains
7800	Sugar Beets
7900	Soybeans



**APPENDIX TABLE A (CONT)**  
**1982-91**

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8000	Hay and Forage
<b>8100</b>	<b>Alfalfa</b>
8200	Brome
8300	Bermuda
<b>8400</b>	<b>Grass, Tame</b>
8500	Native, pasture
<b>8600</b>	<b>Silage</b>
8700	Sudan
8800	Forage Sorghums
8900	Graze Out Small Grains
9000	Cash Crops
9100	Broom Corn
9200	Cowpeas and Mungbeans
9300	Cotton
9400	Mucilage Crops
9500	Peanuts
9600	Tree Nuts
9700	Fruits, Melons, Berries
9800	Safflower, Oilseed, Castorbeans
9900	Vegetables

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\*Enterprise in bold type are the primary enterprises.

\*\*For these livestock enterprises, third and fourth digits of 10 and 20 in the enterprise number represents drylot and confinement, respectively.

\*\*\*For irrigated crops, the third and fourth digits of the enterprise number will be between 50 and 90.

**APPENDIX TABLE A (CONT)**  
**1992-96**

**Type 1 - Beef Cow Herd**

<b>1000</b>	<b>Beef Cows</b>
<b>1100</b>	<b>Beef Cows</b>
<b>1200</b>	<b>Beef Cows, Grade</b>
<b>1300</b>	<b>Beef Cows, Purebred</b>

**Type 2 - Livestock Feeding\*\***

<b>1400</b>	<b>Beef Backgrounding</b>
<b>1500</b>	<b>Beef Finishing</b>
<b>1600</b>	<b>Custom Feeding, Steers</b>
<b>1700</b>	<b>Custom Feeding, Heifers</b>
<b>1800</b>	<b>Beef Backgrounding-Finishing</b>
<b>1900</b>	<b>Beef Graze</b>
<b>2500</b>	<b>Dairy Feeding</b>
<b>2600</b>	<b>Dairy Feeding</b>
<b>2700</b>	<b>Dairy Feeding</b>
<b>2800</b>	<b>Dairy Feeding</b>
<b>2900</b>	<b>Dairy Feeding</b>
<b>3400</b>	<b>Sheep Growing</b>
<b>3500</b>	<b>Sheep Fattening (Feeder Lambs)</b>
<b>3600</b>	<b>Sheep Feeding</b>
<b>3700</b>	<b>Sheep Feeding</b>
<b>3800</b>	<b>Sheep Feeding</b>
<b>3900</b>	<b>Sheep Feeding</b>
<b>4400</b>	<b>Swine Fattening - Raised</b>
<b>4500</b>	<b>Swine Fattening - Purchased Feeder Pigs</b>
<b>4600</b>	<b>Swine Feeding</b>
<b>4700</b>	<b>Swine Feeding</b>
<b>4800</b>	<b>Swine Feeding</b>
<b>4900</b>	<b>Swine Feeding</b>
<b>5000</b>	<b>Other Livestock Feeding</b>
<b>5100</b>	<b>Bees</b>
<b>5200</b>	<b>Dogs</b>
<b>5300</b>	<b>Goats</b>
<b>5400</b>	<b>Horses</b>
<b>5500</b>	<b>Rabbits</b>
<b>5600</b>	<b>Furbearing</b>
<b>5700</b>	<b>Other Livestock Feeding</b>
<b>5800</b>	<b>Other Livestock Feeding</b>
<b>5900</b>	<b>Other Livestock Feeding</b>

**Type 3 - Dairy Cow Herd**

<b>2000</b>	<b>Dairy Cows</b>
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**APPENDIX TABLE A (CONT)**  
**1992-96**

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2100	Dairy Cows
2200	<b>Dairy Cows, Grade (A)</b>
2300	<b>Dairy Cows, Purebred</b>
2400	<b>Dairy Replacement</b>

Type 4 - Ewe and Lamb

3000	Sheep Breeding
3100	Sheep Breeding
3200	<b>Sheep Breeding, Grade</b>
3300	<b>Sheep Breeding, Purebred</b>

Type 5 - Swine Farrowing\*\*

4000	Sow and Litter
4100	<b>Sow and Litter - Sell Feeder Pigs</b>
4200	<b>Sow and Litter, Grade - Sell Finished Pigs</b>
4300	<b>Sow and Litter, Purebred - Sell Finished Pigs</b>

Type 6 - Poultry

6000	Poultry
6100	<b>Broilers</b>
6200	<b>Layers</b>
6300	<b>Turkeys</b>
6400	Poultry
6500	Poultry
6600	Poultry

Type 7 - Crops\*\*\*

6700	Cash Crops (Nonirrigated)
6800	Cash Crops (Irrigated)
6900	Crops, Other
7000	<b>Custom Machine Work</b>
7100	<b>Barley</b>
7200	<b>Corn</b>
7300	<b>Grain Sorghum</b>
7400	<b>Oats</b>
7500	<b>Rye</b>
7600	<b>Wheat</b>
7700	<b>CRP</b>
7800	<b>Sugar Beets</b>
7900	<b>Soybeans</b>
8000	Hay and Forage
8100	<b>Alfalfa</b>
8200	<b>Brome Hay</b>

**APPENDIX TABLE A (CONT)**  
**1992-96**

---

<b>8300</b>	<b>Bermuda Hay</b>
<b>8400</b>	<b>Alfalfa/Grass Haylage</b>
<b>8500</b>	<b>Small Grain Silage</b>
<b>8600</b>	<b>Corn Silage</b>
<b>8700</b>	<b>Sudan - Cane Hay</b>
<b>8800</b>	<b>Sorghum Silage</b>
<b>8900</b>	<b>Graze Out Small Grains</b>
<b>9000</b>	<b>Rape/Canola</b>
<b>9100</b>	
<b>9200</b>	<b>Pinto/Dry Beans</b>
<b>9300</b>	
<b>9400</b>	
<b>9500</b>	<b>Cotton</b>
<b>9600</b>	<b>Tree Nuts</b>
<b>9700</b>	<b>Sunflowers - Oil</b>
<b>9800</b>	<b>Sunflowers - Confectionary</b>
<b>9900</b>	<b>Vegetables</b>

---

\*Enterprise in bold type are the primary enterprises.

\*\*For these livestock enterprises, third and fourth digits of 10 and 20 in the enterprise number represents drylot and confinement, respectively.

\*\*\*For irrigated crops, the third and fourth digits of the enterprise number will be between 50 and 90.

**APPENDIX TABLE A (CONT)**  
**1997-PRESENT**

**Type 1 - Beef Cow Herd**

<b>1000</b>	<b>Beef Cows</b>
<b>1100</b>	<b>Beef Cows</b>
<b>1200</b>	<b>Beef Cows, Grade</b>
<b>1300</b>	<b>Beef Cows, Purebred</b>

**Type 2 - Livestock Feeding\*\***

<b>1400</b>	<b>Beef Backgrounding</b>
<b>1500</b>	<b>Beef Finishing</b>
<b>1600</b>	<b>Custom Feeding, Steers</b>
<b>1700</b>	<b>Custom Feeding, Heifers</b>
<b>1800</b>	<b>Beef Backgrounding-Finishing</b>
<b>1900</b>	<b>Beef Graze</b>
<b>2500</b>	<b>Dairy Feeding</b>
<b>2600</b>	<b>Dairy Feeding</b>
<b>2700</b>	<b>Dairy Feeding</b>
<b>2800</b>	<b>Dairy Feeding</b>
<b>2900</b>	<b>Dairy Feeding</b>
<b>3400</b>	<b>Sheep Growing</b>
<b>3500</b>	<b>Sheep Fattening (Feeder Lambs)</b>
<b>3600</b>	<b>Sheep Feeding</b>
<b>3700</b>	<b>Sheep Feeding</b>
<b>3800</b>	<b>Sheep Feeding</b>
<b>3900</b>	<b>Sheep Feeding</b>
<b>4400</b>	<b>Swine Fattening-Raised</b>
<b>4500</b>	<b>Swine Fattening-Purchased Feeder Pigs</b>
<b>4600</b>	<b>Swine Feeding</b>
<b>4700</b>	<b>Swine Feeding</b>
<b>4800</b>	<b>Swine Feeding</b>
<b>4900</b>	<b>Swine Feeding</b>
<b>5000</b>	<b>Other Livestock Feeding</b>
<b>5100</b>	<b>Bees</b>
<b>5200</b>	<b>Dogs</b>
<b>5300</b>	<b>Goats</b>
<b>5400</b>	<b>Horses</b>
<b>5500</b>	<b>Rabbits</b>
<b>5600</b>	<b>Furbearing</b>
<b>5700</b>	<b>Other Livestock Feeding</b>
<b>5800</b>	<b>Other Livestock Feeding</b>
<b>5900</b>	<b>Other Livestock Feeding</b>

**Type 3 - Dairy Cow Herd**

<b>2000</b>	<b>Dairy Cows</b>
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**APPENDIX TABLE A (CONT)**  
**1997-PRESENT**

---

2100	Dairy Cows	
2200	Dairy Cows, Grade (A)	
2300	Dairy Cows, Purebred	
2400	Dairy Replacement	
Type 4 - Ewe and Lamb		
3000	Sheep Breeding	
3100	Sheep Breeding	
3200	Sheep Breeding, Grade	
3300	Sheep Breeding, Purebred	
Type 5 - Swine Farrowing**		
4000	Sow and Litter	
4100	Sow and Litter – Sell Feeder Pigs	
4200	Sow and Litter, Grade – Sell Finished Pigs	
4300	Sow and Litter, Purebred – Sell Finished Pigs	
Type 6 - Poultry		
6000	Emus	
6100	Broilers	
6200	Layers	
6300	Turkeys	
6400	Roasters	
6500	Pullets	
6600	Ostrich	
Type 7 - Crops***		
6700	Crops	
6800	Tobacco	
6900	Rice	
7000	Peanuts	
7100	Barley	
7200	Corn	
7300	Grain Sorghum	
7400	Oats	
7500	Rye	
7600	Wheat	
7700	CRP	
7800	Sugar Beets	
7900	Soybeans	
8000	Hay and Forage	
8100	Alfalfa	
8200	Brome Hay	



**APPENDIX TABLE A (CONT)**  
**1997-PRESENT**

---

<b>8300</b>	<b>Bermuda Hay</b>
<b>8400</b>	<b>Alfalfa/Grass Haylage</b>
<b>8500</b>	<b>Small Grain Silage</b>
<b>8600</b>	<b>Corn Silage</b>
<b>8700</b>	<b>Sudan - Cane Hay</b>
<b>8800</b>	<b>Sorghum Silage</b>
<b>8900</b>	<b>Christmas Trees - Lumber</b>
10	Christmas Trees
20	Standing Trees
30	Chip Wood
40	Pulp Wood
50	Pine Straw
60	Logs
70	Posts
80	Firewood
<b>9000</b>	<b>Rape/Canola</b>
<b>9100</b>	<b>Truck Crops</b>
10	Sweet Corn
20	Potatoes
30	Tomatoes
40	Watermelons
50	Cantaloupe/Honeydew
60	Cucumber
70	Strawberries
80	Pumpkins
90	Squash
<b>9200</b>	<b>Pinto/Dry Beans</b>
<b>9300</b>	<b>Fruits-Berries-Grapes</b>
10	Apples
20	Cherries
30	Peaches
40	Pears
50	Plums
60	Other Fruit
70	Berries
80	Grapes
90	Specialty Crops
<b>9400</b>	<b>Nursery Crops</b>
10	Flowers
20	Bedding Plants
30	Vegetable Plants
40	Ground Cover
50	Shrubs

**APPENDIX TABLE A (CONT)**  
**1997-PRESENT**

---

60	Trees
<b>9500</b>	<b>Cotton</b>
<b>9600</b>	<b>Tree Nuts</b>
10	Almonds
20	Butternut
30	Chestnut
40	Hican
50	Hickory
60	Pecan
70	Walnut
<b>9700</b>	<b>Sunflowers - Oil</b>
<b>9800</b>	<b>Sunflowers - Confectionary</b>
<b>9900</b>	<b>Vegetables</b>
05	Beans
10	Beets
15	Cabbage
20	Carrots
25	Eggplant
30	Lettuce
35	Peas
40	Peppers
45	Spinach
50	Asparagus
55	Broccoli
60	Cauliflowers
65	Greens
70	Onions
75	Radish
80	Rhubarb
85	Root Crops

\*Enterprise in bold type are the primary enterprises.

\*\*For these livestock enterprises, third and fourth digits of 10 and 20 in the enterprise number represents drylot and confinement, respectively.

\*\*\*For irrigated crops, the third and fourth digits of the enterprise number will be between 50 and 90.

**APPENDIX TABLE B  
FARM TYPE SYSTEM  
CODES**

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

**APPENDIX TABLE B (CONT)**  
**FARM TYPE SYSTEM**  
**CODES**

**CODE      FARM TYPE**

43    Crop - Swine

44    Crop - Sheep

45    Tobacco

46    Peanuts/Rice

47    Vegetables/Truck Crops

48    Fruits-Berries-Grapes

49    Nursery Crops

50    Tree Nuts

51    Christmas Tree-Lumber

52    Tobacco/Peanuts/Rice

53    Vegetable/Truck/Nursery

**APPENDIX TABLE B (CONT)**  
**RATIO FORMULAS\***

- 
- (1)  $\frac{\text{A grass operated}}{\text{A crops operated}}$
  - (2)  $\frac{\text{TCP}}{\text{TP}}$
  - (3)  $\frac{\text{Nonirrigated crop P}}{\text{TCP}}$
  - (4)  $\frac{\text{beef cow P}}{\text{TP}}$
  - (5)  $\frac{\text{dairy P}}{\text{TP}}$
  - (6)  $\frac{\text{swine litters P}}{\text{TP}}$
  - (7)  $\frac{\text{ewe P}}{\text{TP}}$
  - (8)  $\frac{\text{laying hen P}}{\text{TP}}$
  - (9)  $\frac{\text{turkey P}}{\text{TP}}$
  - (11)  $\frac{\text{beef backgrounding P + beef grazing P}}{\text{TP}}$
  - (14)  $\frac{\text{beef finishing P + beef custom feeding P}}{\text{TP}}$
  - (15)  $\frac{\text{beef backgrounding P + beef grazing P + beef finishing P + beef custom feeding P}}{\text{TP}}$
  - (17)  $\frac{\text{sugar beet P}}{\text{TP}}$
  - (18)  $\frac{\text{feeder pig raised P}}{\text{feeder pig purchased P + feeder pig raised}}$

**APPENDIX TABLE B (CONT)**  
**RATIO FORMULAS\***

- 
- (19)  $\frac{\text{ewe P}}{\text{feeder lamb purchased P} + \text{feeder lamb raised}}$
- (20)  $\frac{\text{feeder pig P plus feeder pig purchased P}}{\text{TP}}$
- (21)  $\frac{\text{ewe P plus feeder lamb purchases P}}{\text{TP}}$
- (22)  $\frac{\text{total beef P}}{\text{TP}}$
- (23)  $\frac{\text{total hog P}}{\text{TP}}$
- (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 to 513 (1) Farm Typing Card.
- (29) number laying hens - units of 516 (1) Farm Typing Card.
- (30) number turkeys - units of 5163 (1) Farm Typing Card
- (31) dollars of value of farm production (VFP)
- (32) tobacco receipts (0198) / VFP
- (33) peanuts/rice receipts (0199) / VFP
- (34) vegetables/truck crop receipts (020, 021, 027) / VFP
- (35) fruits-berries-grape receipts (028) / VFP
- (36) nursery crop receipts (029) / VFP
- (37) tree nut receipts (030) / VFP



**APPENDIX TABLE B (CONT)**  
**RATIO FORMULAS\***

(38) christmas trees - lumber receipts (034) / VFP

\*Calculated from Productive Work Units (PWU) except (1).

PWU's = P

Acres = A

Total crop PWU's = TCP

Total PWU's = TP

**APPENDIX TABLE B (CONT)**  
**METHODS**

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IF (2) GTE 0.35 and (4) GTE 0.35 and (25) GT 10.0	21 = crop - cow herd
IF (2) GTE 0.35 and (5) GTE 0.35 and (26) GT 10.0	22 = crop - dairy
IF (2) GTE 0.35 and (6) GTE 0.35 and (18) GTE .55	23 = crop - sow & litter (market)
IF (2) GTE 0.35 and (6) GTE 0.35 and (18) LT .55 and (20) LT 0.35	24 = crop - sow & litter (feeder pig)
IF (2) GTE 0.35 and (18) LT .55 and (20) GTE 0.35	25 = crop - feeder pig
IF (2) GTE 0.35 and (7) GTE 0.35 and (19) GTE .55	26 = crop - ewe and lamb
IF (2) GTE 0.35 and (21) GTE 0.35 and (19) LT .55	27 = crop - feeder lamb
	28 = crop - beef (non-cow herd)
IF (2) GTE 0.35 and (8) GTE 0.35	29 = 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 = cow herd = backgrounding
IF (4) GTE 0.35 and (14) GTE 0.35	37 = cow herd - finishing
IF (4) GTE 0.35 and (15) GTE 0.35	38 = cow herd - backgrounding-finishing
IF (2) GTE 0.35 and (11) GTE 0.35	39 = crop - backgrounding
IF (2) GTE 0.35 and (14) GTE 0.35	40 = crop - finishing

**APPENDIX TABLE B (CONT)**  
**METHODS**

IF (2) GTE 0.35 and (15) GTE 0.35	41 = crop - backgrounding-finishing
IF (2) GTE 0.35 and (22) GTE 0.35	42 = crop - beef
IF (2) GTE 0.35 and (23) GTE 0.35	43 = crop - swine
IF (2) GTE 0.35 and (21) GTE 0.35	44 = crop - sheep
IF (2) GTE 0.35 AND (9) GTE 0.35	45 = crop - turkey
IF (22) GTE 0.35 AND (9) GTE 0.35	46 = beef - turkey
IF (5) GTE 0.35 AND (9) GTE 0.35	47 = dairy - turkey
IF (2) GTE 0.65 AND (3) GTE 0.40 and (32) LT 0.65 and (33) LT 0.65 and (34) LT 0.65 and (35) LT 0.65 and (36) LT 0.65 and (37) LT 0.65 and (38) LT 0.65	1 = crop nonirrigated
IF (2) GTE 0.65 and (3) LT 0.40 and (17) LT 0.50 and (32) LT 0.65 and (33) LT 0.65 and (34) LT 0.65 and (35) LT 0.65 and (36) LT 0.65 and (37) LT 0.65 and (38) LT 0.65	2 = crop irrigated
IF (2) GTE 0.65 and (3) LT 0.40 and (17) GTE .5	3 = crop irrigated beets
IF (4) GTE 0.65 and (25) GT 10.0 and (1) GTE 5.0	4 = stock-ranch cow herd
IF (4) GTE 0.65 and (25) GT 10.0 and (1) LT 5.0	5 = cow herd
IF (5) GTE 0.65 and (26) GT 20.0	6 = dairy
IF (6) GTE 0.65 and (27) GT 10.00 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 0.55 and (20) GTE 0.65	9 = feeder pig
IF (21) GTE 0.65 and (28) GT 50.0 and (19) GTE .55	10 = ewe and lamb

**APPENDIX TABLE B (CONT)**  
**METHODS**

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
IF (9) GTE 0.65 AND (30) GTE 500.0	13 = turkey
	14 =
IF (11) GTE 0.65	15 = backgrounding
	16 =
	17 =
IF (14) GTE 0.65	18 = beef-finishing
IF (15) GTE 0.65	19 = backgrounding finishing
	20 =
IF (32) GTE 0.65	45 = tobacco
IF (33) GTE 0.65	46 = peanuts/rice
IF (34) GTE 0.65	47 = vegetables/truck crop
IF (35) GTE 0.65	48 = fruits-berries-grapes
IF (36) GTE 0.65	49 = nursery crop
IF (37) GTE 0.65	50 = tree nuts
IF (38) GTE 0.65	51 = christmas tree-lumber
IF (32) GT 0.35 and (33) GT 0.35	52 = tobacco/peanuts/rice
IF (34) GT 0.35 and (36) GT 0.35	53 = vegetable/truck/nursery
All farms not meeting above	35 = general farm

**APPENDIX TABLE C**  
**INCOME AND EXPENSE ACCOUNT (TI) CODES**  
**1998-PRESENT**

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**INCOME-SALE OF LIVESTOCK:**

11	Beef Raised
12	Dairy, Raised
13	Sheep, Raised
14	Swine, Raised
15	Other Livestock, Raised
16	Poultry
60	Livestock Futures
61	Beef, Resale
62	Dairy, Resale
63	Sheep, Resale
64	Swine, Resale
65	Other Livestock, Resale
81	Beef, Breeding
82	Dairy, Breeding
83	Sheep, Breeding
84	Swine, Breeding
85	Other Livestock Breeding

**INCOME-GRAIN, HAY AND FORAGE, CASH FIELD CROPS, AND TRUCK CROP SALES:**

17	Grain, Raised
18	Hay and Forage, Raised
19	Cash Field Crops, Raised
21	Vegetables
27	Truck Crops
28	Fruit-Berries-Grapes
66	Grain Futures
67	Grain-Hay-Forage, Resale
68	Seed-Supply Sales, Resale
69	Other Resale, Sales

**INCOME-OTHER SALES:**

20	Vegetables
22	Dairy Products (Milk)
23	Animal By-Products
24	Custom Feeding
25	Landlord Refunds
26	Eggs
29	Nursery Crops
30	Tree Nuts
31	Special Farm Income

**APPENDIX TABLE C (CONT)**  
**INCOME AND EXPENSE ACCOUNT (TI) CODES**  
**1998-PRESENT**

---

32	Machine Work
33	Breeding Fees
34	Christmas Trees-Lumber
35	Patronage Refunds
36	Government Payments
37	Gas Tax Refunds
38	Non-Crop Insurance Income
39	Miscellaneous Income

**EXPENSE-LIVESTOCK PURCHASES:**

40	Poultry
70	Livestock Futures
71	Beef, Resale
72	Dairy, Resale
73	Sheep, Resale
74	Swine, Resale
75	Other Livestock, Resale
91	Beef, Breeding
92	Dairy, Breeding
93	Sheep, Breeding
94	Swine, Breeding
95	Other Livestock, Breeding

**EXPENSE-OPERATING:**

41	Labor Hired
42	Repairs-Tools-Supplies/Irrigation Repair
43	Interest Paid
44	Feed Purchased
45	Seed Expense/Crop Insurance
46	Fertilizer-Lime
47	Machine Hire-Lease
48	Farm Org. Fees-Travel-Publ.
49	Vet-Medicine-Drugs
50	Dairy Expense
51	Livestock Marketing-Breeding
52	Gas-Fuel-Oil/Irrigation Fuel-Pumping
53	Crop Storage and Marketing
54	R.E. and Personal Property Taxes
55	General Farm Insurance
56	Utilities
57	Cash Farm Rent



**APPENDIX TABLE C (CONT)**  
**INCOME AND EXPENSE ACCOUNT (TI) CODES**  
**1998-PRESENT**

58	Herbicide and Insecticide	Machine Work	32
59	Conservation	Harvesting	33
07	Farm Utilities	Electricity and Water	34
08	Farm Auto Expense	Transportation	35
		Government Payments	36
		Oil Tax Refund	37
		Net Crop Insurance Income	38
		Subsidized Income	39
<b>EXPENSE—GRAIN OTHER RESALE:</b>			
76	Grain Futures	EXPENSE—LIVESTOCK PURCHASES	40
77	Grain-Hay-Forage, Resale	Feeding	41
78	Seed-Supply Purchases, Resale	Livestock Purchase	42
79	Other Resale Purchases	Feed Ration	43
		Dairy Ration	44
		Stock Ration	45
		Swine Ration	46
		Other Livestock Ration	47
		Stock Feeding	48
		Dairy Feeding	49
		Swine Feeding	50
		Other Livestock Feeding	51
		EXPENSE—OPERATING	52
		Labor Cost	53
		Repairs-Tenure Improvement	54
		Power Fuel	55
		Fuel Purchase	56
		Seed Expense-Tenure Improvement	57
		Fertilizer-Tenure	58
		Machine Rental-Tenure	59
		Farm Org. Rent-Tenure	60
		Vehicle-Tenure	61
		Dairy Expense	62
		Livestock Maintenance-Tenure	63
		Gas-Fuel for Tractor and Equipment	64
		Crop Storage and Handling	65
		R.E. and Personal Property Tax	66
		General Farm Insurance	67
		Utilities	68
		Cash Farm Rent	69

# APPENDIX TABLE D

## FINANCIAL PLUS CODES GRAIN, HAY AND FORAGE, CASH FIELD CROPS, VEGETABLES, TRUCK CROPS, FRUITS-BERRIES-GRAPES, NURSERY CROPS TREE NUTS, AND CHRISTMAS TREES-LUMBER

### HISTORY – 1982 - PRESENT

#### YEAR - 1982-91:

<u>ATIG</u>	<u>Description</u>
<b>017</b>	<b>GRAIN</b>
1	Barley
2	Corn
3	Grain Sorghum
4	Oats
5	Rye
6	Wheat
7	
8	
9	Crop Ins. Proceeds
<b>018</b>	<b>HAY &amp; FORAGE</b>
1	Alfalfa
2	Brome-Fescue-Bermuda
3	Prairie Hay
4	Other Hay
5	Corn Silage
6	Sorghum/Other Silage
7	Straw
8	Cereal & Residue Pasture
9	Temporary Pasture
<b>019</b>	<b>CASH FIELD CROPS</b>
1	Soybeans
2	
3	Sugar Beets
4	Dry Beans
5	Cotton
6	Broomcorn
7	
8	
9	Summer Fallow

#### YEAR - 1992-97:

<u>ATIG</u>	<u>Description</u>
<b>017</b>	<b>GRAIN</b>
1	Barley
2	Corn
3	Grain Sorghum
4	Oats
5	Rye
6	Wheat
7	
8	
9	Crop Ins. Proceeds
<b>018</b>	<b>HAY &amp; FORAGE</b>
1	Alfalfa
2	Brome-Fescue-Bermuda
3	Prairie Hay
4	Other Hay
5	Corn Silage
6	Sorghum/Other Silage
7	Straw
8	Cereal & Residue Pasture
9	Temporary Pasture
<b>019</b>	<b>CASH FIELD CROPS</b>
1	Soybeans
2	Pinto Beans
3	Brome-Fescue Seed
4	Lespedeza-Clover Seed
5	Cotton
6	Popcorn
7	Sunflowers
8	Alfalfa Seed
9	

# APPENDIX TABLE D (CONT)

YEAR - 1982-91:

YEAR - 1992-97:

<u>ATIG</u>	<u>Description</u>	<u>ATIG</u>	<u>Description</u>
<b>020</b>	<b>SPECIAL FARM INCOME</b>	<b>020</b>	<b>SPECIAL FARM INCOME</b>
1		1	
2		2	
3		3	
4		4	
5		5	
6		6	
7		7	
8		8	
9		9	
<b>021</b>	<b>FRUITS-NUTS-TRUCK CROPS</b>	<b>021</b>	<b>FRUIT-NUTS-TRUCK CROPS</b>
1	Berries	1	Berries
2	Melons	2	Melons
3	Pecans-Tree Nuts	3	Pecans-Tree Nuts
4	Vegetables	4	Vegetables
5	Apples	5	Apples
6	Peaches	6	Peaches
7	Peanuts	7	Peanuts
8		8	
9		9	
<b>027</b>	<b>SPECIAL FARM INCOME</b>	<b>027</b>	<b>SPECIAL FARM INCOME</b>
1		1	
2		2	
3		3	
4		4	
5		5	
6		6	
7		7	
8		8	
9		9	
<b>028</b>	<b>SPECIAL FARM INCOME</b>	<b>028</b>	<b>SPECIAL FARM INCOME</b>
1		1	
2		2	
3		3	
4		4	
5		5	
6		6	
7		7	
8		8	
9		9	

# **APPENDIX TABLE D (CONT)**

**YEAR - 1982-91:**

**YEAR - 1992-97:**

**ATIG**  
**029**      **Description**  
**SPECIAL FARM INCOME**

1  
2  
3  
4  
5  
6  
7  
8  
9

**030**      **SPECIAL FARM INCOME**

1  
2  
3  
4  
5  
6  
7  
8  
9

**034**      **WOOD & LUMBER**

1      Posts  
2      Standing Trees  
3      Logs  
4      Christmas Trees  
5  
6  
7  
8  
9

**ATIG**  
**029**      **Description**  
**SPECIAL FARM INCOME**

1  
2  
3  
4  
5  
6  
7  
8  
9

**030**      **SPECIAL FARM INCOME**

1  
2  
3  
4  
5  
6  
7  
8  
9

**034**      **WOOD & LUMBER**

1      Posts  
2      Standing Trees  
3      Logs  
4      Christmas Trees  
5      Firewood  
6  
7  
8  
9

# APPENDIX TABLE D (CONT)

YEAR - 1998-PRESENT:

<u>ATIG</u>	<u>Description</u>
<b>017</b>	<b>GRAIN</b>
1	Barley
2	Corn
3	Grain Sorghum
4	Oats
5	Rye
6	Wheat
7	
8	
9	Crop Ins. Proceeds
<b>018</b>	<b>HAY &amp; FORAGE</b>
1	Alfalfa
2	Brome-Fescue-Bermuda
3	Prairie Hay
4	Other Hay
5	Corn Silage
6	Sorghum/Other Silage
7	Straw
8	Cereal & Residue Pasture
9	Temporary Pasture
<b>019</b>	<b>CASH FIELD CROPS</b>
1	Soybeans
2	Pinto Beans/Dry Beans
3	Sugar Beets
4	Legume/Grass Seed
5	Cotton
6	Popcorn
7	Sunflowers
8	Tobacco
9	Peanuts/Rice
<b>020</b>	<b>VEGETABLES</b>
1	Beans
2	Beets
3	Cabbage
4	Carrots
5	Eggplant
6	Lettuce
7	Peas
8	Peppers
9	Spinach

**APPENDIX TABLE D (CONT)****YEAR - 1998-PRESENT:**

<u>ATIG</u>	<u>Description</u>
<b>021</b>	<b>VEGETABLES</b>
1	Asparagus
2	Broccoli
3	Cauliflower
4	Greens
5	Onions
6	Radish
7	Rhubarb
8	Root Crops
9	Other Vegetables
<b>027</b>	<b>TRUCK CROPS</b>
1	Sweet Corn
2	Potatoes
3	Tomatoes
4	Watermelon
5	Cantaloupe/Honeydew
6	Cucumber
7	Strawberries
8	Pumpkins
9	Squash
<b>028</b>	<b>FRUITS-BERRIES-GRAPES</b>
1	Apples
2	Cherries
3	Peaches
4	Pears
5	Plums
6	Other Fruit
7	Berries
8	Grapes
9	Speciality Fruits
<b>029</b>	<b>NURSERY CROPS</b>
1	Flowers
2	Bedding Plants
3	Vegetable Plants
4	Ground Cover
5	Shrubs
6	Trees
7	
8	
9	



# APPENDIX TABLE D (CONT)

## YEAR - 1998-PRESENT:

<u>ATIG</u>	<u>Description</u>
<b>030</b>	<b>TREE NUTS</b>
1	Almond
2	Butternut
3	Chestnut
4	Hican
5	Hickory
6	Pecan
7	Walnut
8	Other
9	
<b>034</b>	<b>CHRISTMAS TREES - LUMBER</b>
1	Christmas Trees
2	Standing Trees
3	Chip Wood
4	Pulp Wood
5	Pine Straw
6	Logs
7	Posts
8	Firewood
9	

