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## Manual of Operating Procedures for a Computerized Farm Financial Information System

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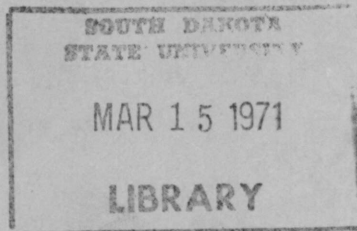
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# Manual of Operating Procedures for

A COMPUTERIZED  
FARM FINANCIAL INFORMATION SYSTEM



CASH FLOW REPORT  
ITEMIZED LISTING  
DEPRECIATION REPORT  
FINANCIAL STATEMENTS  
OPERATING RATIOS  
FAMILY LIVING EXPENSES  
ENTERPRISE REPORT

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44  
Herbert R. Allen and Kent Scofield *ok*

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Econ Pamphlet 134

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## I N T R O D U C T I O N

The computerized farm information system described in this publication was developed by South Dakota State University Farm Management research workers. The system is designed to provide detailed data on cash flow patterns, enterprise costs, net worth, net income, family living, depreciation schedules and business operating ratios. The program is written in FORTRAN and is operational on the IBM System/360-Model 30 with 64K storage capacity.

Large capital investments and greater dependence upon borrowed capital to finance highly technical farming operations requires farm operators to have sharper analytical tools than ever before. Modern computers are helping to provide these tools. However, efficient use of the computer requires training and understanding on the part of those persons supplying input data. The program described in this publication is being used at South Dakota State University to provide training to farm management students in EDP procedures. In addition, it is serving as a valuable research tool for the gathering of detailed data from selected panels of farmers.

All programs are catalogued on disks and are available to the data processor upon the proper call instructions to the computer. This procedure eliminates program compile time and provides an efficient means for processing any number of sets of farm data.



## FARM OPERATOR RECORD KEEPING PROCEDURE

1. Entries should be made in the following forms at least once each month. Accuracy will be increased if entries are made on a weekly or even daily basis. Use cancelled checks and receipts as a basis for making the entries of income and expense items.

	<u>Form No.</u>
Cash Income & Expense Record	A
Crop Production Record	15
Record of Home Grown Feed Fed	16
Pasture & Livestock Production	17

2. Make, and keep, a carbon copy for your own records. Send the original forms to the processing center whenever a form is filled or completed.
3. All forms sent to the processing center must be identified with a farm number.
4. Essential information on the forms sent to the processing center includes the date (Year, Month, Day), the amount and the code numbers. However, the forms should be filled out completely with all information such as the weight, number sold, description, etc.
5. Money borrowed should be entered on the cash income and expense record. This is important for an accurate cash flow report at the end of the year. The description should include lender's name, length of loan and interest rate. Loan payments should be recorded with two entries -- one for the principal and one for the interest. If the loan payment involves additional items, such as insurance, they also should be entered separately.
6. Proper enterprise coding will sometimes require that an income or expense item be broken down into more than one entry. For example, a feed bill paid at the elevator may contain feed purchased for both hogs and cattle. This will require a separate entry for hog feed purchased and a separate entry for cattle feed purchased. An itemized bill may be requested from the elevator to aid you in making the proper enterprise charges.

It may be difficult to determine how some entries should be broken down. For example -- how much of the fuel bill should be charged against crop production and how much against livestock for manure hauling, etc.? Use your own best judgment on these items. Taxes, new machinery purchases and other items of this type may also be difficult to distribute among enterprises. If you are unable to assign an enterprise number you may enter a zero in the enterprise column and it will be reported as an undistributed expense.

7. Special procedures.

- (a) Record only the farm share of auto expense, telephone and electricity.
- (b) If you declare CCC loans as income at the time the loan is received, you should not include any grain under CCC loan in your closing inventory. An entry is made in Form A as a crop sale at the time the loan is received.

However, if you treat it strictly as a loan and declare it as income when the grain is delivered you should include grain under CCC loan in your closing inventory. The amount of the CCC loan is entered in Form A as money borrowed at the time the loan is received. It is recorded as a crop sale in Form A when the grain is delivered. Delivery of the grain results in an inventory decrease.

8. Code numbers are presented on page 4. Each entry is coded with either an income or expense code number plus an enterprise code number. Note that there is a range of code numbers between each income or expense category. For example, labor hired includes numbers from 010 through 019. All code numbers within this range will be totaled under the labor hired category. However, you may use numbers of your own choosing within this range to identify separate categories of labor expense. Each different code number will be listed in a separate category in the itemized listing report for easy reference.

Enterprise code numbers may be employed in the same manner as described for the labor expense items. For example, the beef cow enterprise includes numbers from 600 to 699. Form 19, page 12, identifies how enterprises may be broken down into greater detail through the use of additional code numbers. For example, cattle feeders may establish numbers of their own choosing to identify different lots of cattle within the cattle feeding category. There are 13 basic categories and the computer program totals items within these categories as shown in the enterprise report on page 45. The undistributed category may serve as a separate enterprise if desired.

CODE NUMBER GUIDE

Expense Categories

010 Labor hired  
 020 Crop costs  
 021 Seeds & Plants  
 022 Crop insurance  
 023 Irrigation water  
 024 Fertilizer  
 025 Weed spray  
 026 Pesticides  
 030 Gas, fuel & Oil  
 040 Machine work hired  
 050 Machine repairs  
 060 Freight & trucking  
 070 Auto expense (farm share)  
 080 Telephone & electricity (farm share)  
 090 Farm supplies  
 100 Livestock expense  
 110 Other farm expense  
 120 Improvement repairs  
 130 Insurance premiums  
 140 Taxes  
 150 Interest paid  
 160 Rent  
 170 Feed purchased  
 180 Livestock & poultry purchased  
 190 Capital items purchased  
 191 Machinery  
 192 Auto (farm share)  
 193 Buildings & improvements  
 194 Livestock to be depreciated  
 195 Land purchased  
 200 Loan principle payments  
 210 Cash withdrawals  
 300 Beginning Invent. (Cap. Items)  
 301 Machinery  
 302 Equipment  
 350 Auto  
 360 Breeding Stock  
 370 Bldgs. & Improvements  
 375 Land Value  
 400 Beginning Invent. (Feed & Livestock)  
 401 Feed grain & seeds  
 420 Hogs  
 430 Cattle  
 440 Poultry  
 450 Sheep  
 460 Horses & other

Income Categories

010 Eggs sold  
 020 Dairy products sold  
 030 Raised breeding stock sold  
 035 Raised market livestock sold  
 040 Purchased breeding stock sold  
 045 Purchased market livestock sold  
 050 Crops sold  
 060 Honey, syrup & sugar  
 070 Other produce sold  
 080 Machine work for others  
 090 Breeding fees collected  
 100 Wood & lumber sold  
 110 Other forest products  
 120 Dividends and refunds  
 130 Government payments  
 140 Other farm income  
 150 Capital items sold  
 151 Machinery sold  
 152 Auto sold (farm share)  
 153 Buildings & improvements  
 154 Livestock being depreciated  
 155 Land sold  
 156 Insurance on casualty losses  
 160 Loans received  
 170 Contributions  
 180 Non-farm income  
 300 Ending Inventory (Cap. Items)  
 301 Machinery  
 302 Equipment  
 350 Auto  
 360 Breeding Stock  
 370 Bldgs. & Improvements  
 375 Land Value  
 400 Ending Inventory (Feed & Livestock)  
 401 Feed grain & seeds  
 420 Hogs  
 430 Cattle  
 440 Poultry  
 450 Sheep  
 460 Horses & other

Enterprise Categories

0 Undistributed  
 100 Grain crops (dry land)  
 150 Irrigated grain crops  
 200 Forage crops (dry land)  
 250 Irrigated forage crops  
 300 Poultry  
 400 Dairy  
 500 Hogs  
 600 Beef cows  
 700 Cattle feeding  
 800 Sheep  
 900 Horses  
 950 Other

Name Example Entries

Farm No.	DESCRIPTION	Weight	Quantity	Original Cost of Purchased L.S. Sold	Date		Amount	Code Numbers		
					Yr	Mo		Day	Expense	Income
1-5	6-36	37-42	43-47	48-55	56-61	62-71	72-74	75-77	78-80	
1	1. Sale of livestock: Proper income code number must be used to separate the sale of raised livestock from the sale of purchased livestock and also to separate breeding stock from market livestock. Total value of animals is entered as income and any trucking and yardage fees are entered as an expense.									
54063	Purchased cows sold	5500	5	900 <sup>00</sup>	70 06 14	950 <sup>00</sup>		040	600	
	Trucking and yardage on cows				70 06 14	850	060		600	
	Raised cows sold	2200	2		70 05 03	360 <sup>00</sup>		030	600	
	Raised ylg. steers sold	2100	3		70 04 10	630 <sup>00</sup>		035	700	
2	2. Depreciation items: On purchased items only the "Boot Price" or "New Cash" paid above value of traded item is entered in the amount column. Items in the depreciation schedule are referred to as "Capital" items. Be certain that correct code number is used to identify the sale or purchase of a Capital item. If enterprise cannot be identified enter a zero in the enterprise col.									
54063	New I.H. Tractor (Traded old H.H.)				70 05 15	8000 <sup>00</sup>	191		0	
	Bought Cows to be depreciated		10		70 09 11	2100 <sup>00</sup>	194		600	
	Sold old combine (strictly a cash sale; no trade or purchase involved)				70 10 12	275		151	100	
	Insurance collected on damaged auto				70 06 10	85735		156	0	
3	3. Farm loans: Loans received as well as loan principle payments are recorded. Interest charged on a loan is recorded as a separate item of expense.									
54063	Cattle loan received from bank				70 01 10	35680 <sup>00</sup>		160	700	
	Paid principle on cattle loan				70 12 10	35680 <sup>00</sup>	200		700	
	Interest on cattle loan				70 12 10	294360	150		700	

Name Example Entries

Farm No.	DESCRIPTION	Weight	Quantity	Original Cost of Purchased L.S. Sold	Date			Amount	Code Numbers	
					Yr	Mo	Day		Expense	Income
1-5	6-36	37-42	43-47	48-55	56-61		62-71	72-74	75-77	78-80
4.	Hired labor: Different code numbers of your own choosing from 010 through 019 may be used to identify special hired labor accounts.									
54063	Check given to hired man				70 06 13		200 <sup>00</sup>	0, 1, 0		0.
	Hired man's share of social security withheld				70 06 13		960	0, 1, 1		0.
	Employers matching share of social security				70 06 13		960	0, 1, 2		0.
	Corporation employee paid a salary				70 06 13		3000 <sup>00</sup>	0, 1, 3		0.
5.	Family living expenses: These expenses are cash withdrawals from the farm business. Different code numbers of your own choosing from 210 through 299 may be used to designate different types of expenditures.									
54063	Food purchased				70 09 12		2500	2, 1, 1, 0		0.
	Clothing				70 03 14		5260	2, 1, 1, 1		0.
	Medical expenses				70 05 15		13000	2, 1, 1, 2		0.
6.	Other example entries.									
54063	Feed purchased for cattle		600		70 07 14		66017	1, 7, 0		70, 0
	Ins. collected on hail damaged crop				70 07 10		85735		1, 5, 6	10, 0
	Diverted acre payment				70 06 15		23500		1, 3, 0	10, 0
	Property received by inheritance (appraised value)				70 09 10		525000		1, 8, 0	0.

CASH INCOME AND EXPENSE RECORD

FORM A

Name \_\_\_\_\_

Farm No.	DESCRIPTION	Weight	Quantity	Original Cost of Purchased L.S. Sold	Date			Amount	Code Numbers		
					Yr	Mo	Day		Expense	Income	Enter-prise
1-5	6-36	37-42	43-47	48-55	56-61		62-71	72-74	75-77	78-80	
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											



**CROP PRODUCTION RECORD**

Crop and Variety	Acres (1)	Yield per A. (2)	Total Production (3)	Cl. Inv. Price (4)	Total Value (5)	Land- lord's Share (6)	
Corn for grain							1
Winter wheat							2
Spring wheat							3
Oats							4
Flaxseed							5
Sorghum							6
							7
Corn Silage							8
							9
Government payments					*		10
Alfalfa hay							11
							12
Rotation Pasture				†	†		13
							14
							15
Fallow cropland							16
							17
							18
TOTAL TILLABLE LAND	*	Value of Rotated Crops			*		19
Perm. Pasture or grazing				†	†		20
							21
Wild hay							22
							23
Timber							24
Waste							25
Farmstead							26
Roads							27
TOTAL FARM LAND		Total Value of feed raised			*	*	28

\*Code numbers for these spaces: F, row no., Col. no.;  
i.e., F281 is the code for Total Farm Land.

† Use cash rental rate

Do Not Write in Space Below  
(For use by keypunch operator)

From	Amount	Code
row 10, col. 5		F105
row 10, col. 6		F106
row 19, col. 1		F191
row 19, col. 5		F195
row 28, col. 1		F281
row 28, col. 5		F285
row 28, col. 6		F286





### NUMBER OF ANIMAL UNITS AND NUMBER OF DAYS ON PASTURE

Month	NATIVE PASTURE				TAME PASTURE				AFTERMATH GRAZING			
	BEEF				BEEF				BEEF			
	A.U.	Days	A.U.	Days	A.U.	Days	A.U.	Days	A.U.	Days	A.U.	Days
1	Jan.											
2	Feb.											
3	Mar.											
4	April											
5	May											
6	June											
7	July											
8	Aug.											
9	Sept.											
10	Oct.											
11	Nov.											
12	Dec.											
13	Total											

### LIVESTOCK PRODUCTION RECORDS

Month	CATTLE			HOGS			SHEEP			No. Females Bred	No. Animals Born	No. Animals Weaned
	No. Cows Bred	No. Calves Born	No. Calves Weaned	No. Sows Bred	No. Pigs Born	No. Pigs Weaned	No. Ewes Bred	No. Lambs Born	No. Lambs Weaned			
Jan.												
Feb.												
Mar.												
April												
May												
June												
July												
Aug.												
Sept.												
Oct.												
Nov.												
Dec.												
TOTAL												
	Calves born per cow .....			Pigs born per sow .....			Lambs born per ewe .....			Born per animal bred .....		
	Calves weaned per cow .....			Pigs weaned per litter .....			Lambs weaned per ewe .....			Weaned per animal bred .....		

### LIVESTOCK DEATHS Enter deaths after weaning plus animals butchered.

Description	No.	Date	Weight

Description	No.	Date	Weight

FINANCIAL STATEMENT

ASSETS	Beginning of Year _____		End of Year _____	
		Code		Code
Cash on hand .....		D01*		D20*
Accounts receivable ...		D02*		D21*
Bonds .....		D03*		D22*
Cash value of life ins.		D04*		D23*
Other cash holdings...		D05*		D24*
Value of land owned ...		D06*		D25*
LIABILITIES				
Notes payable .....		D07*		D26*
Accounts payable .....		D08*		D27*
Chattel mortgages due .		D09*		D28*
Taxes due .....		D10*		D29*
Rent due .....		D11*		D30*
Loans on life ins. ....		D12*		D31*
Other short term debts		D13*		D32*
Farm mortgage .....		D14*		D33*
Other long term debts .		D15*		D34*

INVENTORIES OF LIVESTOCK, GRAIN AND FEED  
(Do not enter items kept in depreciation schedule)

Beginning inventories use expense code numbers; Ending inventories use income codes.

Farm Number	Description	Yr.	Number	Price	Value	Code Numbers		
						Expense	Income	Enter-Prise
1-5	6-48	49-50	51-55	56-61	62-71	72-74	75-77	78-80
	<u>Beef Herd</u>							
1.	Cows							6 0 1
2.	Bulls							6 0 5
3.	Heifers, 2-3 yrs.							6 1 0
4.	Heifers, 1-2 yrs.							6 1 5
5.	Calves, under 1 yr.							6 2 0
6.								
	<u>Feeder cattle</u>							
7.	Steers, over 2 yrs.							7 0 5
8.	Steers, 1-2 yrs.							7 1 0
9.	Steer calves							7 1 5
10.	Heifers, 1-2 yrs.							7 2 0
	<u>Hogs</u>							
11.	Sows, over 1 yr.							5 0 5
12.	Sows, under 1 yr.							5 1 0
13.	Boars							5 1 5
14.	Spr. pigs, Jan-May							5 2 0
15.	Summer pigs, Jun-July							5 2 5
16.	Fall pigs, Aug-Dec.							5 3 0
	<u>Sheep</u>							
17.	Ewes, bred							8 0 5
18.	Ewes, other							8 1 0
19.	Lambs							8 1 5
20.	Rams							8 2 0
	<u>Dairy Herd</u>							
21.	Cows							4 0 1
22.	Bulls							4 0 5
23.	Heifers, 2-3 yrs.							4 1 0
24.	Heifers, 1-2 yrs.							4 1 5
25.	Calves, under 1 yr.							4 2 0
26.	Horses							9 0 1
27.	Chickens							3 0 1
28.	TOTAL LIVESTOCK							
29.	Corn							1 0 1
30.	Oats							1 0 5
31.	Wheat							1 1 0
32.	Soybeans							1 1 5
33.	Barley							1 2 0
34.	Flax							1 2 5
35.	Sorghum							1 3 0
36.								
37.								
38.	Seeds							
39.								
40.								
41.	Hay							
42.	Silage							
43.	Proteins & minerals							
44.	TOTAL GRAIN & FEED							



Name \_\_\_\_\_  
 Farm No. \_\_\_\_\_

RECORD CLOSING INFORMATION

INVENTORY ADJUSTMENTS			<u>Amount</u>	<u>Code No.</u>
1.	Value of home grown grain used for seed	_____	_____	G01
2.	Value of feed lost or destroyed	_____	_____	G02
3.	Remaining value (in deprec. schedule) of capital items sold	_____	_____	G03
4.	Remaining value (in deprec. schedule) of capital items lost	_____	_____	G04
LABOR				
5.	Months of labor hired	_____	_____	H01
6.	Months of family labor used	_____	_____	H02
7.	Months of operator labor	_____	_____	H03
8.	Value of family labor	_____	_____	H05
9.	Value of operator labor	_____	_____	H06
HOME USED PRODUCE				
		<u>No.</u>	<u>Price</u>	<u>Value</u>
10.	Hogs butchered	_____	_____	_____
11.	Beef butchered	_____	_____	_____
12.	Sheep butchered	_____	_____	_____
13.	Poultry butchered	_____	_____	_____
14.	Eggs used (doz.)	_____	_____	_____
15.	Milk used (gal.)	_____	_____	_____
	Total Value	_____	_____	B36
LANDLORD'S INCOME AND EXPENSES				
16.	Fertilizer and crop chemicals	_____	_____	R01
17.	Seeds	_____	_____	R02
18.	Insurance	_____	_____	R03
19.	Taxes	_____	_____	R04
20.	Repair on Improvements	_____	_____	R05
21.	Depreciation on improvements	_____	_____	R06
22.	Cash rent received	_____	_____	R07
ENTERPRISE TRANSFERS				
23.	Calves weaned and placed in feedlot. Enter value at time of transfer.	_____	_____	R22
24.	Lambs weaned and placed in feedlot. Enter value at time of transfer.	_____	_____	R23

NEW CAPITAL ITEMS PURCHASED  
 (See Expense listing codes 190-195)

<u>Date</u>	<u>Item Purchased</u>	<u>Item Traded</u>	<u>New Cash</u>	<u>Life</u>	<u>Method</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

## PROJECT SUPERVISOR AND FIELD REPRESENTATIVE

### Description of Programs

#### Depreciation

This program computes depreciation for the month of purchase on new items. Items traded or sold have no depreciation taken for month of trade or sale. The number of months for which depreciation is taken is equal to 13 minus the month of purchase. A new item that is purchased in the 12th month will have one month depreciation taken. If no depreciation for the 12th month is desired, it may be identified as having been purchased in the 13th month.

When an item is traded or sold the card for that item is removed from the deck and altered by entering the year and month of disposal in cols. 17 to 20. Also enter a digit in col. 16 to indicate a trade -- "1" = trade; "2" = sold and "3" = lost or destroyed. Duplicate all other columns of the card. In years succeeding the year of trade or sale remove the card from the deck permanently.

Cards punched by this program may be used as input data to obtain a depreciation schedule for the year designated in the first card of the data deck. However, only cards punched in the preceding report year may be used in preparing the current years report.

The first card of the data deck must have the year for which depreciation is computed punched in cols. 9 and 10, i.e., the last two digits of the year 1970 would be punched in cols. 9 and 10 to obtain a depreciation report for the year 1970.

A punch control card is inserted as the second card of the data deck. If the punch output is wanted this card is a blank card. If the punch output is not wanted, a positive number is entered in cols. 9 and 10.



A blank card must be placed between sets of farm data cards. Immediately following the blank card is a name card with the farmer's name beginning in col. 1. Any other data desired may be punched following the name without regard to column format. Any information punched will be duplicated in the printout.

The punch output should be on pink cards.

The last card of the data deck must have a negative number punched in cols. 1-5.

Computations made in the report are based upon the following relationships: total value at the beginning of the year plus new cash paid, less depreciation for the year, less remaining value in depreciation schedule of any items sold or lost equals total value at the end of the year. No depreciation is taken beyond salvage value.

The program offers five options as to method of computing depreciation. Code numbers identifying the method are entered in col. 49 according to instructions as given on form 20. The five options include (1) straight line, (2) double declining balance, (3) sum-of-the-digits, (4) straight line with 10% salvage rule applied, and (5) straight line at 1 and 1/2 times the straight line rate.

#### Other Programs

The cash flow, itemized listing, and enterprise reports are explained by the example computer printouts included in this manual.

#### The Field Agent

The field representative is responsible for assisting the farmer in supplying the needed information. The farmer may be asked to enter all information on the entry forms or the farmer may send his receipts to a recording secretary who will

make entry on the keypunching forms. The method employed depends upon the amount of service to be extended to the farmer.

A complete listing of the forms employed in this computer program is as follows:

	<u>Form no.</u>
Cash Receipts and Expense	A
Crop Production Record	15
Record of Home Grown Feed Fed	16
Pasture Use and Livestock Production	17
Listing of Assets and Liabilities	18
Inventories of Feed and Livestock	19
Depreciation Schedule	20
Record Closing Information	21
Punch Form for Other Information	22

The farmer may be responsible for completing forms A, 15, 16 and 17 each month. These are the forms containing information that should be entered during the year. At the end of each year the field representative may assist the farmer in completing forms 18, 19, 20 and 21. Form 22 is used only by the field representative or the processing secretary to consolidate data on several forms for greater ease of keypunching. Each of the forms, as included in this manual, identify the source and type of information needed.

Some additional explanation may be necessary regarding form 22. A copy of the form is presented on page 18. The current computer program employs only the first 6 lines of this form. The additional lines are available for future additions to the program. The "D" code numbers are found on form 18. The "F" numbers are obtained from form 15. The code numbers G, H, B and R are found on form 21. Only the first 6 lines of form 22 are needed.

A complete set of information for data processing is obtained by keypunching the information obtained on forms A, 19, 20 and 22. Keypunching format is identified on each of these forms.

The field representative may be interested in obtaining basic information and completing essential tasks during his first contact with the farmer. Pages 19 and 20 contain example forms that may be useful in completing this objective.

PUNCH FORM FOR OTHER FARM INFORMATION

Data for this form is obtained from forms 15, 16, 17, 18, 19 and 21 Farm No. \_\_\_\_\_  
 Cols. 76-80 on all Cards

	1-8	9-16	17-24	25-32	33-40	41-48	49-56	57-64	65-72
1	D01	D02	D03	D04	D05	D06	D07	D08	D09
2	D10	D11	D12	D13	D14	D15	D20	D21	D22
3	D23	D24	D25	D26	D27	D28	D29	D30	D31
4	D32	D33	D34	F105	F191	F195	F285	F286	G01
5	G02	G03	G04	G05	H01	H02	H03	H04	H05
6	H06	B36	R01	R02	R03	R04	R05	R06	R07
7	R08	R09	R10	R11	R12	R13	R14	R15	R16
8	R17	R18	R19	R20	R21	R22	R23	R24	R25
9	R26	R27	R28	R29	R30	R31	R32	R33	R34

### CHECKLIST FOR INITIAL FARM VISIT

1. Farm information form completed.
2. Farm number assigned (written in farmer's record book).
3. Explain record keeping procedure.
4. Record book delivered (set of entry forms).
5. Packet of supplies (extra forms, carbon paper, etc.).
6. Special account numbers (copy to both parties)  
Within each code number category (such as labor hired), there is room for the farm operator to designate special numbers of his own choosing. For example, labor hired includes code number 010-019. The farmer may wish to use a separate number for each hired worker and also a separate number for income tax or social security tax withheld. Likewise, individual pens of cattle feedlots may be designated by a separate code number within the category of cattle feeding.
7. Complete form 18 (net worth statement).
8. Complete form 19 (feed and livestock inventory).
9. Depreciation schedule obtained.

INITIAL FARM INFORMATION

Name \_\_\_\_\_ Age \_\_\_\_\_

Address \_\_\_\_\_  
zip code \_\_\_\_\_

Farm Number \_\_\_\_\_ Telephone \_\_\_\_\_

	Owned	Rented
Total farm acres	_____	_____
Cropland acres	_____	_____

Form of Organization  
Sole proprietor \_\_\_\_\_  
Partnership \_\_\_\_\_  
Corporation \_\_\_\_\_

Livestock program:

Special farm features:

Do you treat CCC payments as income when the loan (or money) is received or when loan is repaid (grain delivered)?

Income when loan is made \_\_\_\_\_

Income when grain delivered \_\_\_\_\_

# DATA PROCESSING PROCEDURE

## Receiving Farm Data

A separate file folder should be established for each cooperating farmer or rancher. Each cooperator is given a farm code number. The code numbers are 5 digit numbers with the first two digits identifying the county and the following three digits identifying the farm within a county. Page 22 contains the county code numbers used for identifying all counties in South Dakota.

Farm cooperators enter all data on the cash income and expense form. When a report form is received from the farmer the secretary should check it for completeness and legibility. Mark all corrections with a blue lead pencil. These corrections may include missing code numbers, illegible code numbers, missing farm number or identification, missing date, etc. The form is then placed in a file folder marked "Forms to be Punched."

A journal is maintained for each cooperator. When a form is received an entry is made in the journal noting the date of receipt and the form number (identification of form by number) as well as quantity of each form received (number of pages).

The secretary will keypunch the data and print out the cards after punching. The keypunching is checked against the original form for accuracy. When the secretary is satisfied as to the accuracy of keypunching, the form received from the cooperator is marked "punched and checked", in red ink. The form is then placed in the individual file folder for the cooperator.

S O U T H D A K O T A

County Numbers for FARMPANEL Records Identification

<u>No.</u>	<u>Name</u>	<u>No.</u>	<u>Name</u>
01	Aurora	34	Hyde
02	Beadle	35	Jackson
03	Bennett	36	Jerauld
04	Bon Homme	37	Jones
05	Brookings	38	Kingsbury
06	Brown	39	Lake
07	Brule	40	Lawrence
08	Buffalo	41	Lincoln
09	Butte	42	Lyman
10	Campbell	43	Marshal
11	Charles Mix	44	McCook
12	Clark	45	McPherson
13	Clay	46	Meade
14	Codington	47	Mellette
15	Corson	48	Miner
16	Custer	49	Minnehaha
17	Davison	50	Moody
18	Day	51	Pennington
19	Deuel	52	Perkins
20	Dewey	53	Potter
21	Douglas	54	Roberts
22	Edmunds	55	Sanborn
23	Fall River	56	Shannon
24	Faulk	57	Spink
25	Grant	58	Stanley
26	Gregory	59	Sully
27	Haakon	60	Todd
28	Hamlin	61	Tripp
29	Hand	62	Turner
30	Hanson	63	Union
31	Harding	64	Walworth
32	Hughes	65	Washabaugh
33	Hutchinson	66	Yankton
		67	Ziebach



Data cards are maintained in a card file and categorized by farm number within the file.

### Keypunching

All keypunching is done directly from the forms as received from the farmer. The keypunching format is identified on each of these forms. The amount does not have a decimal point punched. It is read by the computer as being located two digits from the right.

Different card colors are used for punching the several categories of information. The card colors facilitate card handling when processing data on the computer. Data are punched on different color cards as follows:

	<u>Form Number</u>	<u>Card Color</u>
Cash Receipts and Expenses	A	White
Feed and Livestock Inventories	19	Blue
Capital Items Inventory (Deprec. schedule)	20	Pink
Other information	22	Yellow
Name Cards	--	Green

### Preparation of Data Cards for Processing

- A. ITEMIZED LISTING REPORT (Including a listing of family living expenses)
1. All cash receipts and expenses (white cards) are used in preparing this report. The data cards for each farm must be separated. If cards are not already separated into individual farm groups they may be separated by sorting on cols. 5, 4, 3, 2, and 1 respectively.
  2. All cards within each farm must be placed in numerical order according to expense and income code numbers. This is done by sorting on cols. 77, 76, 75, 74, 73, and 72 respectively. Check for cards in wrong farm by making a last sort on col. 5.
  3. Name cards are punched for each farmer. Punch the farm no. in cols. 1-5 followed by the farmer's name.
  4. A "last card" for the data deck is punched with a negative number in cols. 1-5. The minus sign is punched in col. 1 followed by any digit other than 0.

5. The data deck is then prepared for the computer by placing all cards in the following order:

NAME CARD	
DATA CARDS	Farm no. 1
BLANK CARD	

NAME CARD	
DATA CARDS	Farm no. 2
BLANK CARD	

NAME CARD	
DATA CARDS	Last farm
NEG. NUMBER CARD	

The above cards make up the data deck and are ready to be given to the computer programmer who will prepare additional instructional cards for processing by the computer operator.

#### B. BI-MONTHLY CASH FLOW REPORT

1. All cash receipts and expenses (white cards) are used in preparing this report. The data cards for each farm must be separated. If cards are not already separated into individual farm groups they may be separated by sorting on cols. 5, 4, 3, 2, and 1 respectively.
2. The order of cards within each farm set of cards makes no difference.
3. Punch a negative number card with number punched in cols. 1-5.
4. NAME CARDS are punched for each farmer. Punch the farm no. in cols. 1-5 followed by the farmer's name. Following the NAME, punch REPORT YEAR 19--, with the correct date punched. It may be punched in any cols. following the NAME of the farmer. Data on this card will be reproduced in the same form as it is punched.
5. Prepare the ANAFAC control card. This will be the first card in the data deck. If only the cash flow report is wanted, the control card must be blank. If the cash flow report plus the financial statements and operating ratios are wanted, a "1" should be punched in col. 1 of the card.

6. Cards for the data deck are placed in the following order:

ANAFAC CONTROL CARD  
NAME CARD Farm no. 1  
DATA CARDS  
BLANK CARD

NAME CARD  
DATA CARDS Last farm  
NEG. NUMBER CARD

The above sequence of "farm sets" is repeated for as many farms as necessary. The negative number card is used only as the last card of the last farm. A blank card separates the last data card of one farm from the name card for the following farm.

### C. DEPRECIATION REPORT

1. Pink cards are used for this report. Use cards from the previous report year to prepare the current report, i.e., 1969 report year cards would be used in preparing the 1970 report. Cards for the initial depreciation report need data input as described on form 20.
2. Sort the cards that were punched by the computer as a result of the previous years records.  
The computer punches two sets of cards--one set containing value at the beginning of the year and one set containing value at the end of the year. Sorting may be done by sorting on column 72. Use only cards falling into bins other than the "reject" bin for preparing the data deck. Keep the reject cards for future use. The reject cards contain end-of-the-year values and they have no expense code number punched in col. 72.
3. Before preparing the data deck it is necessary to update the entries in the depreciation schedule as follows:
  - (a) All new items purchased during the current report year must be entered on form 20 and a card punched. These new cards are added to the data deck.
  - (b) Items traded, sold or lost during the year must have the card removed from the data deck and altered by entering a "1" in col. 16 to indicate it has been traded. Enter a "2" if the item is sold and a "3" if it is a casualty loss. Enter the year and month of disposal in cols. 17 to 20. All other items of information on the old card are duplicated.



2. Prepare a name card for each farmer. The card consists of the farm number (beginning in col. 1) followed by the farmer's name and REPORT YEAR 19--. The current year for which the report is being prepared should be entered. The column location of the name and report year is not important. Data on this card will be reproduced in the same form as it is punched.
3. Prepare a negative number card for each farm. The negative number is entered in cols. 72-74.
4. Pink cards from the punch output of the Depreciation Report are used here. Both beginning inventory and ending inventory cards of the punch output are used. Card order within the set of pink cards is not important.
5. Blue cards for both beginning and ending feed and livestock inventories are used. The ending inventory for one year is also the beginning inventory for the following year. End-of-year inventory cards are altered to become beginning inventory cards merely by shifting the code number from the income code position to the expense code position. Code numbers remain the same.
6. Cards for the data deck are placed in the following order:

ANAFAC CONTROL CARD  
 NAME CARD  
 WHITE CARDS  
 BLANK CARD  
 PINK CARDS (both beginning and ending inventories)  
 BLUE CARDS (both beginning and ending inventories)  
 NEGATIVE NO. CARD (cols. 72-74)  
 YELLOW CARDS

Repeat the above sequence for as many farms as necessary. NAME CARD for the second farm will follow the last yellow card.

#### E. ENTERPRISE ANALYSIS REPORT

1. All cash receipts and expenses (white cards) are used in preparing this report. The data cards for each farm must be separated. If they are not already separated into individual farm groups, they may be separated by sorting on cols. 5, 4, 3, 2, and 1 respectively. Note that cols. 1 and 2 are for separation into the respective counties.
2. The order of cards within each farm set of cards makes no difference.
3. Punch a negative number card with number punched in cols. 1-5.
4. NAME CARDS are punched for each farmer. Punch the farm number in cols. 1-5 followed by the farmer's name. Following the name, punch REPORT YEAR 19--, with the current date punched. It may be punched in any of the columns following the name of the farmer. Data on this card will be reproduced in the same form as it is punched.

5. Cards for the data deck are placed in the following order:

NAME CARD	
DATA CARDS	Farm no. 1
BLANK CARD	

NAME CARD	
DATA CARDS	Last farm
NEG. NUMBER CARD	

The above sequence of cards is repeated for as many farms as necessary. A blank card separates the last data card of one farm from the name card of the following farm.

#### Processing Cards on the Computer

Card order for the farm data decks is given in the preceding instructions. An example of the complete card order for processing is given on page 29. All programs employed at South Dakota State University are catalogued on disk for use on the IBM model 30 computer. Each program is executed by calling the appropriate program name. Names for several programs currently in operation are as follows:

Itemized listing	LIST7107
Cash flow	CASH7107
Depreciation	DEPR7107
Enterprise report	ENTP7107

The business analysis report, which includes financial statements and operating ratios, is always prepared as a subroutine of the CASH FLOW report. The subroutine name is ANAFAC. The first card of the data deck for the CASH FLOW report serves as a control card for employing the ANAFAC subroutine. If the card is blank, ANAFAC is not called. A "1" entered in the first column of the control card will call the ANAFAC subroutine.



## I N P U T D A T A F O R M A T

The FARMPANEL records program employs the following computer programs.

1. Itemized listing of all entries by income and expense categories (including family living).
2. Bi-monthly cash flow statement.
3. Depreciation report.
4. Business analysis report.
5. Enterprise cash flow report.

All forms for input data (except inventories and depreciation) use the following format.

---

<u>Column</u>	<u>Field</u>
<u>Position</u>	
1-5	Farm number
6-55	Description & other
56-61	Year, month, day
62-71	Amount (dollars & cents)
72-74	Expense code
75-77	Income Code
78-80	Enterprise Code

---

The format for livestock and feed inventories and the depreciation schedule is the same for all basic information -- that is, the farm number, the amount and the code numbers all utilize the same field position on the card. They are therefore adaptable to being read by the computer as input data for all computer programs.

Feed and livestock inventories use the following format:

---

<u>Column</u>	<u>Field</u>
<u>Position</u>	
1-5	Farm number
6-48	Description
49-50	Year*
51-55	Number or quantity
56-61	Price
62-71	Value (or amount)
72-74	Expense Code
75-77	Income Code
78-80	Enterprise Code

---

\* The year is related to the expense and income code numbers, i.e., if the year '69 is punched and an expense code no. is also punched, the amount represents the beginning inventory for 1969. If an income code number is punched, it represents the ending inventory of 1969.



Depreciation forms use the following format:

<u>Column</u> <u>Position</u>	<u>Field</u>
1-5	Farm number
6-15	Item description
16	1=traded; 2=sold; 3=destroyed
17-20	Year & month of purchase (or year & month when traded or sold)
21-22	Depreciation report year (year for which depreciation is computed)
23-27	New Cash Paid (dollars only)
28-32	Value of trade-in (dollars only)
33-37	Salvage value (dollars only)
38-42	Investment credit taken (dollars only)
43	Enter "1" when added 20% is taken
44-48	Adjusted basis
49	Method: 1=straight line; if left blank st. line is assumed; 2=double declining balance; 3=sum -of-the-digits; 4=St. line with 10% salvage rule applied; 5=Declining balance at 1.5 times the st. line rate.
50-51	Years of life
52-61	Depreciation (dollars and cents)
62-71	Value at first of report year (dollars and cents)
72-74	Expense Code number
75-77	Income Code number
78-80	Enterprise Code number

## ERROR MESSAGES

### Depreciation Report

1. WRONG FARM NO. preceded (on the same line) by farm number and description of item.

All cards in a set belonging to one farm must have the same farm code number as contained on the first card of the set. The program will continue with all computations but the error message will be printed and a check must be made to determine the nature of the error. Data on the card containing a wrong farm number is not included in computations of the program.

2. WRONG REPORT YEAR USED AS INPUT DATA preceded (on the same line) by farm number and description of item.

Only punch output cards from the previous year's report may be used in preparing the depreciation report. The remaining value at the end of the previous year is used as the basis for computing the amount of depreciation to be taken. Consequently only 1969 report year cards may be used in preparing the 1970 depreciation report. The report year is identified in cols. 21 and 22 by the name REPYR. All punch output cards contain the REPYR as identified in the first card of the data deck. However, the initial depreciation report is made by leaving the REPYR col. blank. If the REPYR col. is zero, the error message will not be printed. Data on a card containing a wrong farm number is not included in the computation.

### Itemized Listing Report

1. ERROR IN CODING, CODE NO. TOO LARGE

The computer program will print this error message for any income or expense item with a code number larger than 469. Data on the card in error will be printed on the succeeding line and the data will be included in computations. The program will continue.

2. WRONG FARM NO. preceded (on the same line) by the farm number and description of the item.

All cards in a set belonging to one farm must have the same farm code number as contained on the first card of the set. The error message is printed when an error occurs and the program will continue. Data on the card containing an error is not included in computations.

### Cash Flow Report

1. WRONG FARM NO. followed by farm number, date, amount, expense code, income code and enterprise code.

All cards in a set belonging to one farm must have the same farm code number as contained on the first card of the set. The error message is printed when an error occurs and the program will continue.

All data on the card in error will be included in the computations.

2. CODE VALUE EXCEEDS KNOWN MAXIMUM followed (on the same line) by the month in which the error in coding was made.

The amount on a card containing an error of this type will not be included in the computations.

EXAMPLE SET OF  
COMPUTER PRINTOUT  
REPORTS

ITEMIZED LISTING

2500 TEST FARM DATA 1969

FARM NO DESCRIPTION

YR MO DAY AMOUNT EXP INC ENT

EGGS SOLD

25000	EGGS	69	12	**	250.36	0	10	300
	TOTAL				250.36			

RAISED BREEDING STOCK SOLD

25000	EWES	69	6	4	134.26	0	30	800
	TOTAL				134.26			

RAISED MARKET LIVESTOCK SOLD

25000	CATTLE	69	2	8	3195.25	0	35	700
25000	LAMBS	69	3	18	18.92	0	35	800
25000	FEEDER PIGS	69	4	6	1178.40	0	35	500
25000	WOOL	69	6	7	303.51	0	35	800
25000	WOOL	69	12	10	780.84	0	35	800
	TOTAL				5476.91			

PURCHASED BREEDING STOCK SOLD

25000	BOARS	69	7	9	310.37	0	40	500
25000	EWES	69	6	4	34.46	0	40	500
	TOTAL				344.83			

PURCHASED MARKET LIVESTOCK SOLD

25000	FEEDER CATTLE	69	7	15	30677.55	0	45	700
	TOTAL				30677.55			

CROPS SOLD

25000	BARLEY	69	1	23	1521.10	0	50	120
25000	CORN	69	6	7	28.32	0	50	101
25000	CORN SILAGE	69	3	5	688.00	0	50	201
25000	WHEAT	69	5	13	1286.49	0	50	110
25000	HAY	69	4	4	772.00	0	50	208
	TOTAL				4295.91			

DIVIDENDS AND REFUNDS

25000	TAX REFUND	69	12	10	331.91	0	120	100
25000	DIVIDENDS	69	12	12	136.96	0	120	600
	TOTAL				468.87			

FARM NO	DESCRIPTION	YR	MO	DAY	AMOUNT	EXP	INC	ENT
25000	DIVERT ACRE PAY	69	11	15	2031.62	0	130	100
	TOTAL				2031.62			
25000	DISC SOLD	69	3	30	125.00	0	151	100
	TOTAL				125.00			
25000	BULL	69	6	6	380.00	0	154	600
25000	INS ON BULL	69	10	5	275.00	0	154	600
	TOTAL				655.00			
	50000							
25000	WORK OFF FARM	69	2	5	95.05	0	180	0
	TOTAL				95.05			
25000	MATCH SOC SEC	69	6	28	27.35	10	0	100
25000	DAY WAGES	69	7	20	164.30	10	0	600
25000	WAGES ELMER	69	10	29	707.14	10	0	100
25000	RENT HOUSE	69	2	20	382.65	10	0	200
	TOTAL				1281.44			
25000	SOC TAX WHELD	69	10	29	27.35	11	0	100
	TOTAL				27.35			
25000	SEEDS	69	4	13	208.81	21	0	101
	TOTAL				209.81			
25000	CROP INS	69	9	21	331.93	22	0	100
	TOTAL				331.93			
25000	FERTILIZER	69	8	21	1202.21	24	0	101

FARM NO DESCRIPTION

YR	MO	DAY	AMOUNT	EXP	INC	ENT
TOTAL			1282.21			
WEED SPRAY						
69	7	14	168.10	25	0	100
69	7	6	81.34	25	0	101
TOTAL			249.44			
GAS FUEL AND OIL						
69	11	29	1562.13	30	0	100
TOTAL			1562.13			
MACHINE WORK HIRED						
69	9	20	231.50	40	0	200
TOTAL			231.50			
MACHINE REPAIRS						
69	10	13	224.85	50	0	0
69	7	9	26.39	50	0	0
69	10	30	1135.45	50	0	0
TOTAL			1386.69			
AUTO EXPENSE (FARM SHARE)						
69	9	20	11.50	70	0	0
69	6	15	71.94	70	0	0
TOTAL			83.44			
TELEPHONE AND ELECT. (FARM SHARE)						
69	6	11	26.45	80	0	0
69	7	12	48.10	80	0	0
69	12	15	299.62	80	0	0
TOTAL			366.17			
LIVESTOCK EXPENSE						
69	6	12	83.70	100	0	700
69	10	20	282.06	100	0	600
TOTAL			365.76			





FARM NO DESCRIPTION YR MO DAY AMOUNT EXP INC ENT

TOTAL 14113.46

MACHINERY PURCHASED

FARM NO	DESCRIPTION	YR	MO	DAY	AMOUNT	EXP	INC	ENT
25000	SILO UNLOADER	69	1	1	837.00	191	0	700
25000	SPREADER	69	7	2	150.00	191	0	500
25000	WATER TANK	69	1	10	300.00	191	0	600
25000	PLCH	69	4	1	207.50	191	0	100
25000	HAMMERMILL	69	12	1	487.00	191	0	500
	TOTAL				1981.50			

LOAN PRINCIPLE PAYMENTS

FARM NO	DESCRIPTION	YR	MO	DAY	AMOUNT	EXP	INC	ENT
25000	BLDG LOAN PRIN	69	11	8	800.00	200	0	0
25000	FARM PRINCIPAL	69	11	7	1000.00	200	0	0
	TOTAL				1800.00			

NUMBER OF ENTRIES= 69

	SUB-TOTAL	JAN-FEB	MARCH-APR	MAY-JUNE	JULY-AUG	SEPT-OCT	NOV-DEC
RECEIPTS							
EGGS SCLD	250.36	C.C	C.C	0.0	0.0	0.0	250.36
DAIRY PRODUCTS	0.0	C.C	C.C	0.0	0.0	0.0	0.0
LIVESTOCK SCLD	36633.55	3195.25	1197.32	472.23	30987.91	0.0	780.84
CRPS SCLD	4295.91	1521.10	146C.CC	1314.81	0.0	0.0	0.0
OTHER PRCDLCIS	0.0	0.0	C.0	0.0	0.0	0.0	0.0
DIVIDENDS & REFUNDS	468.87	C.0	C.0	0.0	0.0	0.0	468.87
GOV. PAYMENTS	2031.62	C.C	C.0	0.0	0.0	0.0	2031.62
OTHER FARM INCCME	0.0	C.C	C.0	0.0	0.0	0.0	0.0
CAPITAL ITEMS SOLD	780.00	C.0	125.CC	380.00	0.0	275.00	0.0
LOANS RECEIVED	0.0	C.0	C.C	0.0	0.0	0.0	0.0
CONTRIBUTIONS	0.0	C.0	C.0	0.0	0.0	0.0	0.0
NCN-FARM INCCME	55.05	95.05	C.0	C.C	0.0	0.0	0.0
TOTAL INCCME	44555.34	4811.39	2782.32	2167.04	30987.91	275.00	3531.69

EXPENSES

LABOR ANC MGT. HIRED	1308.79	382.65	C.0	27.35	164.30	734.49	0.0
CRCP CGSTS	540.74	C.0	208.81	0.0	0.0	331.93	0.0
FERTILIZER	1282.21	0.0	C.C	0.0	1282.21	0.0	0.0
CHEMICALS	249.44	0.0	C.C	0.0	249.44	0.0	0.0
GAS,FUEL,OIL	1562.13	0.0	C.C	C.C	0.0	0.0	1562.13
MACHINE FIRE	231.50	C.0	C.0	0.0	0.0	231.50	0.0
MACHINE REPAIRS	1386.69	C.0	C.0	0.0	26.39	1360.30	0.0
FREIGHT & TRUCKING	0.0	C.0	C.0	0.0	0.0	0.0	0.0
ALTC EXP.(FARM SHARE)	83.44	C.0	C.0	71.94	0.0	11.50	0.0
TELE. & ELEC.	366.17	C.0	C.C	26.45	40.10	0.0	299.62
FARM SUPPLIES	0.0	0.0	C.C	0.0	0.0	0.0	0.0
LIVESTOCK EXPENSE	365.76	C.0	C.C	83.70	0.0	282.06	0.0
OTHER FARM EXPENSE	82.65	0.0	C.0	0.0	19.00	38.65	25.00
IMPRCV. REPAIRS & INS	168.79	C.0	C.0	0.0	58.91	69.88	0.0
TAXES	1052.08	C.0	C.0	0.0	0.0	58.70	0.0
INTEREST	2115.72	592.38	C.0	0.0	0.0	0.0	2115.72
RCNT	877.00	C.0	C.C	0.0	0.0	0.0	877.00
FEED PURCHASED	11808.21	C.0	175.40	0.0	0.0	0.0	11632.82
LIVESTOCK PURCHASED	14113.46	C.0	C.C	0.0	0.0	0.0	0.0
CAPITAL ITEMS PURCH	1981.50	1137.00	207.50	C.C	150.00	14113.46	487.00
LGAN PRINCIPLE PYMTS	1800.00	C.0	C.0	0.0	0.0	0.0	1800.00
CASH WITHDRAWALS	0.0	C.0	C.0	0.0	0.0	0.0	0.0
TOTAL EXPENSES	41376.27	2513.03	591.71	209.44	2030.35	17232.46	18799.29

NET CASH FLOW 3179.08

FARM NUMBER	DESCRIPTION	TRADE CR	PURCH DATE	REP YR	NEW CASH PAID	PLLS VALUE TRADE IN	LESS SALV VALUE	LESS FIRST YR 20 PCT	EQUALS ADJUSTED BASIS	INVEST CREDIT	METH CD	LIFE	VALUE FIRST YEAR	DEPRECIATION
25000.1	WC45 TRACT	0	63.12	69	2416	0	100	C	2316	0	1	10	1238.70	231.60
25000.2	1HC TRACT	0	66.7	69	671	0	25	C	646	0	1	10	509.50	64.60
25000.3	C-OTHER MACH	0	58.6	69	5596	0	155	C	5441	0	1	10	155.00	C.C
25000.4	ACD17TRACT	0	68.7	69	2770	0	100	C	2670	0	1	10	2636.50	267.00
25000.5	C-DISK	2	69.4	69	227	0	10	C	217	0	1	10	102.15	5.42
25000.6	CCRN PLANT	0	66.12	69	1081	0	50	C	1031	0	1	10	866.21	103.10
25000.7	MOWER	0	68.1	69	140	0	C	C	140	0	1	10	126.00	14.00
25000.8	LISC	0	68.1	69	225	0	25	C	200	0	1	10	205.00	20.00
25000.9	4 RCH CULL	0	68.1	69	500	0	0	C	500	0	1	10	450.00	50.00
25000.10	4 BCT PLCH	1	69.4	69	225	0	C	C	225	0	1	10	202.50	5.63
25000.11	CIGGER	0	68.1	69	130	0	C	C	130	0	1	10	117.00	13.00
25000.12	NEW FLOW	0	69.4	69	207	197	4	C	400	0	1	10	0.0	30.00
25000.13	FEATER	0	61.1	69	35	0	C	C	35	0	1	10	7.00	3.50
25000.14	SPREADER	0	63.1	69	342	0	0	C	342	0	1	10	136.80	34.20
25000.15	FAM MILL	0	63.1	69	200	0	C	C	200	0	1	10	80.00	20.00
25000.16	FEEDER	0	64.1	69	450	0	0	C	450	0	1	10	225.00	45.00
25000.17	RULL MILL	1	69.12	69	650	0	25	C	625	0	1	10	448.00	57.29
25000.18	TANK	0	68.1	69	95	0	0	C	95	0	1	10	85.50	9.50
25000.19	FEED BLNK	0	68.1	69	58	0	0	C	58	0	1	10	88.20	5.80
25000.20	SILC LCAC	0	69.1	69	837	0	37	C	800	0	1	10	0.0	80.00
25000.21	TANK	0	69.1	69	300	0	0	C	300	0	1	10	0.0	30.00
25000.22	SPREADER	0	69.7	69	150	0	0	C	150	0	1	10	0.0	7.50
25000.23	FAM MILL	0	69.12	69	487	391	50	C	731	0	1	10	0.0	103.49
25000.24	AUTC	0	66.7	69	1350	0	25	C	1325	0	1	5	687.50	265.00
25000.25	FARM BLDGS	0	51.1	69	7000	0	0	C	7000	0	1	25	1560.00	280.00
25000.26	REA WIRE	0	57.1	69	450	0	0	C	450	0	1	25	234.00	18.00
25000.27	WATER PIPE	0	62.2	69	1610	0	0	C	1610	0	1	25	1164.57	64.40
25000.28	SHEP	0	63.10	69	1000	0	0	C	1000	0	1	25	790.00	40.00
25000.29	PCLE SHED	0	66.1	69	300	0	0	C	300	0	1	10	210.00	30.00
25000.30	NEW FM BLD	0	68.13	69	17500	0	0	C	17500	0	1	25	17500.00	700.00
25000.31	15 CCKS	0	65.1	69	3000	0	750	C	2250	0	1	6	1500.00	375.00
25000.32	1 BULL	3	69.7	69	500	0	50	C	450	0	1	3	350.00	75.00
25000.33	1 BULL	2	69.6	69	500	0	50	C	450	0	1	3	350.00	62.50
25000.34	1 BULL	0	68.1	69	500	0	50	C	450	0	1	3	350.00	150.00

TOTAL VALUE FIRST CF YEAR 32775.12  
 NEW INVESTMENTS 1981.00  
 TOTAL DEPRECIATION 1968 3264.53  
 VALUE CF ITEMS SCLD 659.22  
 TOTAL VALUE END CF YEAR 30832.77

## FARM INCOME STATEMENT

LIVESTOCK SALES	36883.91
CROP SALES	4295.91
OTHER INCOME	2500.49
TOTAL CASH INCOME	43680.30
FOOD USED PRODUCE	224.50
INVENTORY CHANGE	9552.00
GROSS INCOME	53456.80
FEED AND LIVESTOCK PURCHASED	25921.67
GROSS PROFIT	27535.13
OPERATING EXPENSE	7459.51
OVERHEAD EXPENSE	4213.59
DEPRECIATION	3264.53
CAPITAL GAINS OR LOSSES	120.78
NET FARM INCOME	12718.28
INTEREST PAID	2992.72
VALUE OF FAMILY LABOR	0.00
VALUE OF OPERATOR LABOR	2700.00
RETURN TO CAPITAL AND MGT.	13011.00
INTEREST ON LAND, 6 PERCENT	1200.00
INTEREST ON INVENTORY, 7 PERCENT	4270.55
RETURN TO MANAGEMENT	7540.44

## COMPARATIVE NET WORTH STATEMENT

ASSETS	START OF YEAR	END OF YEAR
CASH ON HAND	0.0	0.0
ACCOUNTS RECEIVABLE	0.0	0.0
BONDS	200.00	500.00
CASH VALUE OF LIFE INS.	0.0	0.0
OTHER ASSETS	250.00	0.0
FEED GRAIN AND SEEDS	8233.00	10700.00
HOGS	1080.00	1150.00
CATTLE	12880.00	16555.00
POLLTRY	35.00	35.00
SHEEP	2200.00	5540.00
HORSES AND OTHER	0.0	0.0
TOTAL CURRENT ASSETS	24878.00	34480.00
MACHINERY AND EQUIPMENT	7679.05	8359.11
AUTO	687.50	422.50
BREEDING STOCK	2550.00	1325.00
TOTAL WORKING ASSETS	10916.55	10106.61
VALUE OF LAND OWNED	20000.00	20000.00
VALUE OF FARM IMPROVEMENTS	21858.57	20726.17
TOTAL FIXED ASSETS	41858.57	40726.17
TOTAL ASSETS	77653.06	85312.75
LIABILITIES		
NOTES PAYABLE	1500.00	0.0
ACCOUNTS PAYABLE	300.00	1400.00
CHattel MORTGAGES DUE	0.0	300.00
TAXES DUE	0.0	0.0
RENT DUE	0.0	0.0
LOANS ON LIFE INS.	0.0	0.0
OTHER DEBTS	0.0	0.0
TOTAL CURRENT LIAB.	1800.00	1700.00
FARM MORTGAGE DUE	18200.00	17200.00
OTHER LONG TERM DEBTS	3830.00	3030.00
TOTAL LIABILITIES	23830.00	21930.00
NET WORTH	53823.06	63382.75

25000 TEST FARM DATA REPORT YEAR 1969

BUSINESS ANALYSIS FACTORS

NET WORTH CHANGE DURING THE YEAR	9559.69
ESTIMATED FAMILY LIVING EXPENSE	3253.64
GROSS VALUE OF CROPS PER CROP ACRE	30.23
CROP EXPENSES PER CROP ACRE	3.49
MACHINE INVESTMENT PER CROP ACRE	14.46
LIVESTOCK RETURNS PER DOLLAR FEED FED	2.05
MACHINE AND POWER COST PER CROP ACRE	8.60
GROSS PROFIT PER MAN	18356.75
GROSS PROFIT PER DOLLAR NET FARM INCOME	2.17
CURRENT RATIO (END OF YEAR)	20.28
NET CAPITAL RATIO (END OF YEAR)	3.89

2500 TEST FARM DATA ENTERPRISE REPORT 1969

NUMBER OF ENTRIES = 69

	TOTAL RECEIPTS	NOT DISTRIBUTED	DRY LAND GRAIN	IRRIGATED GRAIN	DRYLAND FORAGE	IRRIGATED FORAGE	POULTRY
EGGS SOLD	250.36	0.0	0.0	0.0	0.0	0.0	250.36
DAIRY PRODUCTS	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LIVESTOCK SOLD	36633.55	0.0	0.0	0.0	0.0	0.0	0.0
CROPS SOLD	4295.91	0.0	2835.91	0.0	1460.00	0.0	0.0
OTHER PRODUCTS	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DIVIDENDS AND REFUNDS	468.87	0.0	331.91	0.0	0.0	0.0	0.0
GOVERNMENT PAYMENTS	2031.62	0.0	2031.62	0.0	0.0	0.0	0.0
OTHER FARM INCOME	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CAPITAL ITEMS SOLD	780.00	0.0	125.00	0.0	0.0	0.0	0.0
LOANS RECEIVED	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CONTRIBUTIONS	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NON-FARM INCOME	95.05	95.05	0.0	0.0	0.0	0.0	0.0
<b>TOTAL RECEIPTS</b>	<b>44555.34</b>	<b>95.05</b>	<b>5324.44</b>	<b>0.0</b>	<b>1460.00</b>	<b>0.0</b>	<b>250.36</b>

	DAIRY	HOGS	BEEF COWS	CATTLE FEEDING	SHEEP	HORSES	OTHER
EGGS SOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DAIRY PRODUCTS	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LIVESTOCK SOLD	0.0	1523.23	0.0	33872.80	1237.53	0.0	0.0
CROPS SOLD	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER PRODUCTS	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DIVIDENDS AND REFUNDS	0.0	0.0	136.96	0.0	0.0	0.0	0.0
GOVERNMENT -PAYMENTS	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER FARM INCOME	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CAPITAL ITEMS SOLD	0.0	0.0	655.00	0.0	0.0	0.0	0.0
LOANS RECEIVED	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CONTRIBUTIONS	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NON-FARM INCOME	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>TOTAL RECEIPTS</b>	<b>0.0</b>	<b>1523.23</b>	<b>791.96</b>	<b>33872.80</b>	<b>1237.53</b>	<b>0.0</b>	<b>0.0</b>

2500 TEST FARM DATA ENTERPRISE REPORT 1969

	TOTAL EXPENSES	NOT DISTRIBUTED	DRY LAND GRAIN	IRRIGATED GRAIN	DRYLAND FORAGE	IRRIGATED FORAGE	POULTRY
LABOR AND MGT. HIRED	1308.79	0.0	761.84	0.0	382.65	0.0	0.0
CROP COSTS	540.74	0.0	540.74	0.0	0.0	0.0	0.0
FERTILIZER	1282.21	0.0	1282.21	0.0	0.0	0.0	0.0
CHEMICALS	249.44	0.0	249.44	0.0	0.0	0.0	0.0
GAS,FUEL,OIL	1562.13	0.0	1562.13	0.0	0.0	0.0	0.0
MACHINE HIRE	231.50	0.0	0.0	0.0	231.50	0.0	0.0
MACHINE REPAIRS	1386.69	1386.69	0.0	0.0	0.0	0.0	0.0
FREIGHT AND TRUCKING	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AUTO EXP(FARM SHARE)	83.44	83.44	0.0	0.0	0.0	0.0	0.0
TELE AND ELEC	366.17	366.17	0.0	0.0	0.0	0.0	0.0
FARM SUPPLIES	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LIVESTOCK EXPENSE	365.76	0.0	0.0	0.0	0.0	0.0	0.0
OTHER FARM EXPENSE	82.65	82.65	0.0	0.0	0.0	0.0	0.0
IMPROV REPAIRS & INS	168.79	70.10	0.0	0.0	0.0	0.0	0.0
TAXES	1052.08	1052.08	0.0	0.0	0.0	0.0	0.0
INTEREST	2115.72	2115.72	0.0	0.0	0.0	0.0	0.0
RENT	877.00	877.00	0.0	0.0	0.0	0.0	0.0
FEED PURCHASED	11808.21	0.0	0.0	0.0	0.0	0.0	131.00
LIVESTOCK PURCHASED	14113.46	0.0	0.0	0.0	0.0	0.0	0.0
CAPITAL ITEMS PURCH	1981.50	0.0	207.50	0.0	0.0	0.0	0.0
LOAN PRINCIPAL PYMTS	1800.00	1800.00	0.0	0.0	0.0	0.0	0.0
CASH WITHDRAWALS	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>TOTAL EXPENSES</b>	<b>41376.27</b>	<b>7833.85</b>	<b>4603.86</b>	<b>0.0</b>	<b>614.15</b>	<b>0.0</b>	<b>131.00</b>

	DAIRY	HOGS	BEEF COWS	CATTLE FEEDING	SHEEP	HORSES	OTHER
LABOR AND MGT. HIRED	0.0	0.0	164.30	0.0	0.0	0.0	0.0
CROP COSTS	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FERTILIZER	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CHEMICALS	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GAS,FUEL,OIL	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MACHINE HIRE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MACHINE REPAIRS	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FREIGHT AND TRUCKING	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AUTO EXP(FARM SHARE)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TELE AND ELEC	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FARM SUPPLIES	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LIVESTOCK EXPENSE	0.0	0.0	282.06	83.70	0.0	0.0	0.0
OTHER FARM EXPENSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IMPROV REPAIRS & INS	0.0	0.0	28.81	69.88	0.0	0.0	0.0
TAXES	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INTEREST	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FEED PURCHASED	0.0	502.00	75.00	8918.00	2182.22	0.0	0.0
LIVESTOCK PURCHASED	0.0	0.0	0.0	14113.46	0.0	0.0	0.0
CAPITAL ITEMS PURCH	0.0	637.00	300.00	837.00	0.0	0.0	0.0
LOAN PRINCIPAL PYMTS	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CASH WITHDRAWALS	0.0	0.0	0.0	0.0	0.0	0.0	0.0