

ANALYSIS AND MODIFICATION OF THE COSTFINDER  
FARM RECORD SYSTEM TO ENHANCE  
USER APPLICATION

By

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## TABLE OF CONTENTS

Chapter	Page
I. INTRODUCTION . . . . .	1
Problem Statement . . . . .	2
Procedure . . . . .	4
Specific Objectives of This Study . . . . .	6
II. PROGRAM CHANGES TO FACILITATE CREDIT ACQUISITION AND FINANCIAL ANALYSIS . . . . .	9
Trends in Agricultural Credit . . . . .	9
Check Reconciliation Program. . . . .	10
The Intra-Year Financial Analysis . . . . .	13
Inventory and Financial Analysis . . . . .	17
Cash Flow Budget Summary . . . . .	21
III. PROGRAM CHANGES TO FACILITATE TAX REPORTING AND ANALYSIS . . . . .	24
Introduction . . . . .	24
Program Modifications to Section 2, Cash Flow Summary . . . . .	24
Expansion of Cash Flow Categories . . . . .	28
Tax Accounting of Items Purchased for Resale . . . . .	35
Livestock Purchased for Resale Program Printouts . . . . .	36
Operational Problems . . . . .	39
Correction Procedures . . . . .	40
Depreciation Analysis . . . . .	40
IV. THE YEAR-END ANALYSIS PROGRAM . . . . .	50
Input Data . . . . .	50
Machinery and Labor Data . . . . .	51
Depreciation Cost Data . . . . .	51
Non-Cash Transactions . . . . .	53
Inventory and Other Data . . . . .	53
Explanation of Output Sections That Do Not Change . . . . .	54
1966-72 Version of Modified Output Sections . . . . .	72
1973 Version of Section 16 Through 22 . . . . .	76
Objectives . . . . .	76
Section 16 Through 18 . . . . .	76
Section 19 Through 22 . . . . .	79
Comparison With Other Farms . . . . .	80

Chapter	Page
V. SUMMARY . . . . .	88
Research Approach . . . . .	88
Results . . . . .	89
Further Research . . . . .	90
A SELECTED BIBLIOGRAPHY . . . . .	91

## LIST OF TABLES

Table	Page
I. Section 80, Check Reconciliation Program . . . . .	12
II. The Typed Representation of the Intra-Year Financial Analysis . . . . .	14
III. The 1966-72 Version of Section 12 Inventory Analysis . . . . .	18
IV. The 1973 Version of Section 12 Financial Analysis . . . . .	20
V. Section 30, Cash Budgeting Report . . . . .	22
VI. The Typed Representation of Section 2, Cash Flow Summary . . . . .	25
VII. The 1966-72 Version of Section 2, Cash Flow Summary . . . . .	26
VIII. The 1973 Version of Section 2, Cash Flow Summary . . . . .	29
IX. The List of Expanded TI and General Codes . . . . .	33
X. The Livestock Purchased for Resale Program Printout . . . . .	37
XI. Section 6, Sales, Trades, and Losses . . . . .	43
XII. The Capital Asset Depreciation Program Printout . . . . .	45
XIII. The Year-End Analysis Program Printout . . . . .	55
XIV. The 1973 Version of Section 16, Machine, Fuel, and Labor Analysis and Section 19, Enterprise Analysis . . . . .	78
XV. The Analysis Comparison Program Printout . . . . .	82

LIST OF FIGURES

Figure	Page
1. Questionnaire . . . . .	5
2. Farm Income and Expenses, Schedule F (Form 1040) . . . . .	34
3. Input Form for Capital Assets . . . . .	42
4. Capital Gains and Losses, Schedule D (Form 1120) . . . . .	48
5. Machinery and Labor Input Form . . . . .	52

## CHAPTER I

### INTRODUCTION

Many farm record systems have become available to farmers from many sources in recent years. Most provide accurate tax and accounting information, but this is where the likeness ends. The organization, the format, and the kind and number of management factors provided are unique to each system. Some differences are due to the various purposes for which the systems were created. These systems vary from a simplified cash flow to a detailed analysis of financial and production factors. While one record system may excel in one area or the other, flexibility in fulfilling the different objectives of the farmer will enhance broad acceptance of the system.

Regardless of the purpose, presentation of facts in such a way that problem areas can be identified and solved is an important factor to consider in the design of any farm accounting system. Limitation of the number of income and expense categories may cause aggregation of items which should be analyzed separately. Cash crops or grain may be lumped into one total, while expansion of a table or a logic change in the program to print each item as it is totaled would allow detailed analysis. However, the length and complexity of computer printouts can be discouraging to some farmers. Clearly, there is a trade-off between the number of detailed analysis factors and the amount of information the farmer is willing to study.



## Problem Statement

Costfinder, Oklahoma State University's computerized farm record program, has been operating since 1966.<sup>1</sup> It consists of twenty-two source programs written in COBOL, Common Business Oriented Language. It requires time to evaluate the effectiveness of a system of computer programs such as Costfinder. Improvements in computer technology, accounting procedures, and financial efficiency factors, have evolved since the program was initiated in 1966. While change for the sake of change is not desirable, well planned modifications based on constructive suggestions and actual experiences are worthy of consideration. The most frequent suggestion reflects the farmers' difficulty in interpreting the Costfinder output.

For example, Costfinder provides the information necessary to calculate a balance sheet and net worth statement. However, the information is not printed in a form that rural bankers and credit officers are accustomed to analyzing. Also, the results of individual enterprises are printed so that Machinery Use for all enterprises appears on one page followed by Fuel Used, Labor Summary, Inventory Analysis, Cash Flow Summary, and Production Summary. As a result, the farmer must analyze enterprise information that is printed on eight or ten different pages. Changes in the logic of the program would print all information related to one enterprise on one or two consecutive pages. The remaining enterprises would be printed one after the other.

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<sup>1</sup>Costfinder, Computerized Oklahoma State Farm Income and Detailed Enterprise Records, was initiated in 1966 by Dr. Ted R. Nelson, Extension Economist, Farm Management.

Readability is another factor to be considered in computer printouts. Farmers indicate that too much information printed on a page can make interpretation difficult. On the other hand, many criticisms indicate that a large number of pages of output can also be discouraging. Obviously, if objectives were established to print less information per page and to reduce the number of pages of output they would be conflicting.

Some difficulty exists in making substantial changes to a program or programs in a system such as Costfinder. Revision of one program will probably cause revision in many if not all the other programs in the system. Realizing that the actual programming will come from several sources, coordination of the different program changes, to assure their compatibility, becomes a part of the overall problem.<sup>2</sup>

Cost is a major factor influencing the number of farmers who use Costfinder. Since computer cost is a substantial percent of the total cost, the reduction of these costs should be included in the objectives of the study. Also, the amount of time required to report the input data discourages some farmers.

While the preceding description has been general, the objectives of this study will fall into two categories:

1. Coordinate modification of all programs.
2. Improve the readability, organization, and understanding of the Costfinder printouts.

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<sup>2</sup>To avoid having each of several researchers analyze and implement changes to a program or programs, the desired changes to all programs were coordinated in this study. The actual programming sources will be indicated in the footnotes.

## Procedure

From 20 farms in 1966, Costfinder has grown to 145 farms in 1972. In this time, many suggestions for improvement, criticisms, and indications of satisfaction have been collected and filed. Other suggestions have come from Area Farm Management Specialized Agents' Training Sessions and the Farm Cooperator Advisory Board meeting.<sup>3</sup> The Extension Farm Management staff also contributed new ideas and possible problems. From these sources of information, a list of possible programming changes was compiled. These changes were classified according to their purpose and the program or section of the program to which they applied. The proposed changes included a typed representation of the computer printout, the required modification of input data, an estimation of the cost and time required to accomplish the programming modifications, and the increase or decrease in amount of paper output generated by the proposed addition or improvement.

The next step was to present the typed representation of the computer printout and the required input data modification to the Farm Management staff, Area Agents, and the Costfinder cooperators. These will be discussed in the following chapters. The purpose of the questionnaire, Figure 1, was first to determine whether change was desired in the particular area. Then if change was desired, suggested improvements or alternations to the typed representations were requested. Space was provided for suggested changes not included in the questionnaire,

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<sup>3</sup>Hereafter the Area Farm Management Specialized Agents will be called Area Agents.

# COOPERATIVE EXTENSION SERVICE

**OKLAHOMA STATE UNIVERSITY**  
EXTENSION PROGRAMS IN AGRICULTURE



**UNIVERSITY EXTENSION**  
STILLWATER 74074

## QUESTIONNAIRE

	Section 2	Section 3A	Section 3B
1. Do you think these sections should be changed?	_____	_____	_____
2. Do you think the cooperator would be willing to pay extra for these changes?	_____	_____	_____
If so, how much?	_____	_____	_____
3. What priority ranking would you give these changes?	_____	_____	_____

Include other possibilities you feel should be considered and general comments:

WORK IN AGRICULTURE, HOME ECONOMICS AND RELATED FIELDS  
USDA-OSU AND COUNTY COMMISSIONERS COOPERATING

Figure 1. Questionnaire

and finally, a ranking of the priority given to each of the areas of change was determined. By presenting only input data changes and proposed output changes, a true evaluation of the area of change can be obtained. Area Agents and farmers have little information on which to estimate cost of programming and time required to complete the program change. These considerations must be weighed against the relative priorities assigned by the Area Agents and farmers.

Once a program is operating satisfactorily, there is a reluctance to disturb the present logic of the program. It is probable that errors could be introduced by the modification of an existing program. Thus, efficiency is gained by making all changes to a program or section of the program at the time of modifications. The decision to initiate program modifications hinges on the net effect of all these factors. While few changes result in total benefit to every farmer, it is important that a majority of the people are convinced of the value of the modifications.

#### Specific Objectives of This Study

Chapter II combines all program changes designed to improve credit acquisition and financial analysis. As the adoption of technology and the size of farms increase, the need for capital also increases. These increases may also require a shift from owner-equity financing to borrowed capital. This increased need for credit suggests a need for better financial records to establish this credit.

The Check Reconciliation Program is a new program that was used on a ten-farm pilot basis in 1972. In 1973 all farms will receive this

report. The reorganization of Section 12, Inventory Analysis, is also discussed in Chapter II.

Programming changes designed to improve tax reporting and analysis are explained in Chapter III. Logic changes allow disaggregation of cash flow totals for more detailed accounting and easier transfer to the tax return. An added program provides tax information about livestock purchased for resale; and an existing program, Capital Asset Depreciation, provides three alternative depreciation methods, straight line, declining balance, and sum-of-years digits, for each asset. This program also provides total depreciation for each asset, each type of machine, and totals for individual subfarms, landlords, and the whole farm.

Chapter IV explains modifications in the year-end analysis, the most important program in the Costfinder system. Almost all information that has been reported during the year is used in this program. Knowledge of these data sources and their accuracy is a prerequisite to the effective use of the results of the analysis program. The objectives of the changes in this are as follows: (1) reduce duplication of results, (2) improve readability of the output by reducing the amount of information on each page, and (3) reorganize the output so that whole farm analysis factors appear in a more logical order and the analysis factors applicable to an individual enterprise are printed on one or two consecutive pages. The print-out will be explained as it was before changes were made. It will then be compared with the new organization. Concluding the chapter is a discussion of the results of a program that compares the analyses of all Costfinder farms. Farmers can see how their operation compares with other farms in the state, other farms in

their geographical area, and farms of the same type, based on the percent of gross income received from that part of their farm.

Chapter V, Summary, will illustrate the benefit gained from these additions and deletions. Also directions for further work in this area will be given.

## CHAPTER II

### PROGRAM CHANGES TO FACILITATE CREDIT

#### ACQUISITION AND FINANCIAL ANALYSIS

The program modifications explained in this chapter are intended to improve a set of financial records: (1) which can be more easily understood and interpreted by the farmer, (2) which provide adequate information to obtain external credit, (3) which are presented in a form acceptable to the financial institution upon which most farmers depend for agricultural credit.

#### Trends in Agricultural Credit

Many factors influence the need for credit in the agricultural sector. While the exact volume and composition of agricultural credit is not of major concern in the study, discussion of some of the general trends may be helpful.

The number of farms in Oklahoma has decreased by 16,000 between 1960 and 1973.<sup>1</sup> The reasons for this decline are many and complex. Specialization and improved technology have caused some farmers to expand the size of their farms. The farmer who could not meet the increasing capital requirements has sold to his expanding neighbor.

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<sup>1</sup>"Number of Farms," Oklahoma Crop and Livestock Reporting Service, (January 23, 1973).



This alone would tend to increase the size of farm units and decrease the number of farms.

Farm size measured by the amount of capital required is also increasing. Emanuel Melichar, senior economist, Board of Governors of the Federal Reserve System, has predicted that the annual capital flow into agriculture will reach \$16.7 billion by 1980, an increase of 54% over the last decade.<sup>2</sup> This capital must be financed from reinvestment of earnings or from borrowed capital. During the 1950's, farmers allocated about 36% of the farm cash flow to meet capital requirements. In the 1960's, however, farmers allocated only 31% of their farm cash flow to debt retirement. At the same time, annual capital needs have steadily increased. Melichar predicts a slowing of this rate of increase in debt in the 1970's to seven percent compared to the nine percent of the 1960's.<sup>3</sup>

Money market lenders are able to provide agriculture with a very elastic supply of credit because agricultural credit represents a small amount of the funds flowing through money markets. At times, credit may be very expensive but the funds are available if the market price is paid.<sup>4</sup>

#### Check Reconciliation Program

The best possible farm management talent and financial records will be needed to profitably use agricultural credit. Any sophisticated

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<sup>2</sup>Emanuel Melichar, "Aggregate Farm Capital and Credit Flow Since 1950 and Projections to 1980," Agricultural Finance Review, (July 1972) XXXIII.

<sup>3</sup>Ibid.

<sup>4</sup>Ibid.

financial analysis must begin with the recording of income and expense transactions on a check by check basis.

The Check Reconciliation Program was written in 1971 and used on a test basis by ten farmers in 1972.<sup>5</sup> In 1973 all cooperators receive this output each time their periodic data is processed, monthly or quarterly. Table I is a sample of this output. The individual cash transactions are sorted according to bank account, a one-character alpha-numeric variable, which allows the farmer to maintain a farm account and a household account, or any number of each. The check numbers are sorted in ascending order, and if more than one transaction has the same check number, zero for example, they appear in ascending order by date. By arranging the transactions in this order, the balance column at the right gives the net bank balance after each transaction. The farmer can compare this to his bank statement to check accuracy and also can readily see any missing checks or data that have not been reported.

A new bank balance is entered with each group of data. When the new balance is encountered the previous balance is discarded, then the following transactions are added or subtracted from the new balance. Additional modifications are designed to store the ending bank balance on disk and read this value as a beginning balance the next time the farm is processed. As a result, the farmer would be required to enter the bank balance only when a change is needed.

The last section of this program lists external accounts payed and received according to external number. The farmer can assign

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<sup>5</sup>Check reconciliation program developed and programmed by Mike Hardin, Research Assistant, Oklahoma State University.

TABLE I

SECTION 80, CHECK RECONCILIATION PROGRAM

COMPUTERIZED-UNLÀ-SI-FARM-INCOME-AND-DETAILED-ENTERPRISE-RECORD-SYSTEM

SECTION 80		CHECK REGISTER			FARM NUMBER 007200		DATE PROCESSED 03/20/73		PAGE 1		
MC	DAY	AC	TI	EXT	DESCRIPTION	BANK	CHECK	NJ.CKS.MISNG	DEPOSITS	WITHDRAWALS	BALANCE
1	10		22		MILK CHECK	F	0100				2,500.49
8	1		46		FERT HAY	F	0185	84		300.00	2,200.49
8	30		05		PERS & LIVING EXP	F	0197	11		500.00	1,700.49
9	11		22		MILK CHECK	F	0201	3	2,604.59		4,305.08
9	19		37		FED TX GAS CRED	F	0201		58.00		4,373.08
9	15		45		SEED SORGHUM HAY	F	0201			143.00	4,230.08
9	17		46		LIME	F	0202			327.00	3,903.08
9	30		56		ELECTR JULY-SEPT	F	0209	6		106.09	3,796.99
9	30		56		PHONE JULY-SEPT	F	0210			67.09	3,729.90
10	1		42		RPR PICKUP	F	0211			95.65	3,634.25
10	3		41		WAGE MISC	F	0212			77.00	3,557.25
10	15		62		SGLD DAIRY HFRS	F	0217	4	3,450.00		7,007.25
10	19		51		VET SERVICES	F	0217			38.49	6,968.76
10	23		44		FEED 131	F	0222	4		805.00	6,163.76
10	25		30		COM CRED LOAN WMT	F	0223		275.00		6,438.76
10	30		05		PERS & LIVING EXP	F	0223			500.00	5,938.76
11	12		22		MILK CHECK	F	0224		2,592.06		8,530.82
11	18		41		WAGE MISC	F	0224			49.50	8,481.32
11	23		48		SERV D TANKS	F	0225			76.33	8,402.99
11	28		44		FEED 131	F	0226			1,050.00	7,352.99
11	30		05		PERS & LIVING EXP	F	0227			500.00	6,852.99
12	10		22		MILK CHECK	F	0228		2,529.35		4,323.34
12	15		44		SALT&MINERAL	F	0228			93.45	4,229.89
12	25		41		WAGE MISC	F	0230	1		31.25	4,198.64
12	29		44		FEED 131	F	0231			1,225.00	2,973.64
12	30		41		WAGE MISC	F	0232			17.75	2,955.89
12	31		47		CHG FOR FD GRIND	F	0234	1		100.00	2,855.89
12	31	2	02	1	1971 LAND PMT	F	0235			750.00	2,105.89
12	30		05		PERS & LIVING EXP	F	0236			500.00	1,605.89
12	31		43	1	INT ON FARM LOAN	F	0237			1,396.18	2,002.07
12	31		43	12	INT ON MACH LOAN	F	0238			412.67	1,589.40
12	31		50		FINANCE RCGRS	F	0239			83.00	1,506.40
12	31		50		FARM ORGNZ DUES	F	0240			175.00	1,331.40
12	31		56		PHONE OCT-DEC	F	0242	1		63.31	1,268.09
TOTALS							34	115	14,019.49	9,484.76	4,534.73
MC	DAY	AC	TI	EXT	DESCRIPTION	BANK	CHECK	NJ.CKS.MISNG	DEPOSITS	WITHDRAWALS	BALANCE
1	1	5	10		BANK BALANCE HOME	H	0700				500.00
1	30		01		NON-FARM INC	H	0701		450.00		950.00
TOTALS							2	0	450.00	.00	950.00
EXTERNAL ACCOUNT TOTALS					EXT-NO.	RECEIPTS	PAYMENTS	BALANCE	PAGE 1		
					1	.00	2,146.18	2,146.18-			
					12	.00	412.67	412.67-			
					99	14,969.49	6,925.91	8,043.58			

external numbers one through 98 to the different individual stores, companies, or individuals with which he does business. If there is a mistake, the amount can be corrected by reporting a duplicate negative transaction and another transaction with the appropriate external number. This section shows at a glance the total amount of receipts, payments, and the net balance for each external account. Careful use of the Check Reconciliation Program assures the farmer that all business transactions are reported properly. Accurate data input is the first step in the achievement of the stated objectives.

#### Intra-Year Financial Analysis

While most businesses prepare financial statements monthly or quarterly, the time required to prepare the inventory of assets and other accounting requirements causes most farmers to prepare financial statements on a yearly basis. Currently, Costfinder requires opening and closing inventory yearly. Thus financial statements and balance sheets are provided in the year-end analysis. Table II illustrates an intra-year financial analysis proposed in Section 3 of the periodic report program.

A traditional balance sheet format contains assets on the left or top, while liabilities are on the right side or bottom of the financial report. Inventory of current assets are arrayed according to Transaction and Item code.<sup>6</sup> Closing inventory would be equal to opening inventory plus amount added less amount deleted. Because these additions

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<sup>6</sup>Transaction and Items also referred to as TI are the first two digits of the four digit numerical code used in the Costfinder system.

TABLE II

THE TYPED REPRESENTATION OF THE INTRA-YEAR FINANCIAL ANALYSIS

SECTION 3A FARM NUMBER CK0072 BALANCE SHEET DATE PROCESSED 03/30/72 PAGE 3

CURRENT ASSETS							
ASSETS							
CASH						\$10,000.00	
ACCOUNTS RECEIVABLE							
*****							
EXT	CASH INCOME	OPENING INVENTORY JAN 1, 1972	CHARGED INCOME	INCOME PAYMENT	TOTAL RECEIVED	INCOME RECEIVABLE	
01	150.00	10,000.00	65,000.00	18,453.00	18,603.00	56,547.00	
03	40.00	4,000.00	2,000.00	1,850.00	1,850.00	4,150.00	
15	.00	.00	450.00	.00	.00	450.00	
TOTALS	190.00	14,000.00	67,450.00	20,303.00	20,453.00	61,147.00	
*****							
						TOTAL ACCOUNTS RECEIVABLE	\$61,147.00
PERPETUAL INVENTORY OF ASSETS							
		OPENING INVENTORY	ADDED	DELETED	CLOSING INVENTORY		
T1	DESCRIPTION						
11	RAISED LIVESTOCK	2,000.00	456.00		2,456.00		
17	CROPS	10,500.00	8,000.00		18,500.00		
18	FORAGE	4,000.00		2,000.00	2,000.00		
44	FEED	3,500.00		1,500.00	2,000.00		
48	SUPPLIES	1,200.00		455.00	745.00		
71	LIVESTOCK FOR RESALE	17,500.00	10,500.00		28,000.00		
-----							
TOTAL CURRENT INVENTORY ASSETS		38,700.00	18,956.00	3,955.00	53,701.00	\$53,701.00	
						TOTAL CURRENT ASSETS	\$124,848.00
91	LIVESTOCK	18,000.00	3,700.00		21,700.00		
97	MACHINERY	75,000.00	4,500.00		79,500.00		
98	BUILDINGS	48,000.00			48,000.00		
99	LAND	110,000.00			110,000.00		
-----							
TOTAL FIXED INVENTORY ASSETS		251,000.00	8,200.00		259,200.00	\$259,200.00	
						TOTAL ASSETS	\$384,048.00
LIABILITIES							
ACCOUNTS PAYABLE							
*****							
EXT	CASH PAID	OPENING INVENTORY JAN. 1, 1972	CHARGED EXPENSE	PAYMENTS ON ACCOUNT	TOTAL PAID	TOTAL PAYABLE	
05	380.00	15,000.00	15,600.00	16,200.00	16,580.00	13,420.00	
06	.00	2,000.00	2,800.00	.00	.00	4,800.00	
TOTALS	380.00	17,000.00	18,400.00	16,200.00	16,580.00	18,220.00	
*****							
						TOTAL LIABILITIES	\$18,220.00
						TOTAL NET WORTH	\$365,828.00
						TOTAL LIABILITIES & NET WORTH	\$384,046.00

TABLE II (Continued)

SECTION 3B

FARM NUMBER OK999900

INCOME STATEMENT

DATE PROCESSED 03/30/72

PAGE 4

GROSS SALES	\$150,000.00
TOTAL FARM EXPENSES	\$ 98,500.00
OTHER EXPENSES	
DEPRECIATION	\$ 12,422.00
NET INVENTORY CHANGE	\$ 4,245.00
RETURNS TO LABOR, EQUITY CAPITAL, MANAGEMENT, AND RISK	_____
	\$240,323.00

are included in Section 3A, which is processed monthly or quarterly, closing inventory would not be available until it is reported by the farmer at the end of his fiscal year.

It is recognized that a perpetual inventory cannot be correctly calculated from day to day income and expense transactions. For example, feed inventory is credited when feed is purchased but no entries are required when the feed is fed to livestock. As a result feed inventory is only an estimate. Likewise, additions are made to livestock inventory when cattle are purchased. Until these animals are sold or a current market value is established by reporting the livestock inventory, the amount in Table II does not reflect the gain or loss in value of these cattle as they grow.

The inventory value of most fixed assets varies little during the year. When taking inventory of these assets, it is easy to use opening inventory as a basis. This procedure requires consideration by the farmer only one time each year. As a result, some of the major problems encountered in the year-end financial statement are caused by failure to report purchases and sales of capital assets, such as land.

All liabilities are included in the accounts payable section which compares column for column with the accounts receivable part of the asset section. Section 3B, Table II, shows a simplified income statement. Gross farm sales plus net inventory changes are reduced by the amount of total expenses and a depreciation allowance based on the portion of the year completed.

## Inventory and Financial Analysis

The previous discussion outlines a complete financial statement on a periodic basis without closing inventories supplied by the farmer. Granted, some current assets and depreciation are at best estimates. "Is an estimated statement that helps farmers to be aware of inventory changes periodically better than no periodic statement?" This question was posed to the Area Agents and Farm Management State Staff. It was felt that reorganization of the existing financial statement was necessary but not on a periodic basis. As a result, many of the ideas and programming procedures that would have been used in Section 3A and B will be utilized in Section 12 of the year-end analysis, Table III.

While the title indicates the listing of inventories only, all information that is needed to prepare a financial statement appears in this section. However, the financial information in this section was not presented in the order that rural bankers and other credit officers are accustomed to analyzing. Bankers, loan officers, and credit representatives have indicated difficulty in interpreting this section.

It has also been suggested that the inventory of the different types of raised livestock, feed, supplies, cash crops, and small grains, be printed individually rather than aggregated in one line. Furthermore, the programming logic required to print one inventory item per line is simpler than that required to aggregate the individual items. If no landlord or other operator data were reported, the middle column would be blank and the total farm column would simply repeat the information in the operator area. The previous examples represent some of the suggestions received relating to Section 12, the Inventory Analysis.



TABLE III

THE 1966-72 VERSION OF SECTION 12 INVENTORY ANALYSIS

SECTION 12 INVENTORY ANALYSIS	FARM NUMBER 0K0077 SUBFARM 30	ALL OTHER SUBFARMS	DATE PROCESSED 03/20/73	PAGE 8 TOTAL FARM
OPEN INV OF CASH AND MISL. ASSETS	\$1,141.06	\$0.00		\$1,141.06
OPEN INV OF RAISED LIVESTOCK	\$7,094.50	\$0.00		\$7,094.50
OPEN INV OF GRAIN	\$1,830.00	\$0.00		\$1,830.00
OPEN INV OF FORAGE	\$750.00	\$0.00		\$750.00
OPEN INV OF CASH CROPS	\$0.00	\$0.00		\$0.00
OPEN INV OF PRODUCTS, FEED, SUPPL	\$800.00	\$0.00		\$800.00
OPEN INV OF LIVESTOCK FOR RESALE	\$0.00	\$0.00		\$0.00
OPEN INV OF CROPS FOR RESALE	\$0.00	\$0.00		\$0.00
OPEN INV OF MISC CAPITAL INVEST	\$710.00	\$0.00		\$710.00
OPEN INV OF CAP ASSETS-LIVESTOCK	\$9,355.00	\$0.00		\$9,355.00
OPEN INV OF CAP ASSETS-MACHINERY	\$3,217.00	\$0.00		\$3,217.00
OPEN INV OF CAP ASSETS-BUILDINGS	\$3,044.00	\$0.00		\$3,044.00
OPEN INV OF CAP ASSETS-LAND	\$61,000.00	\$8,000.00		\$69,000.00
TOTAL OPENING INVENTORY	\$88,941.56	\$8,000.00		\$96,941.56
PLUS OPEN CURRENT ACCTS RECEIV AND OPEN CAPITAL ACCTS REC	\$4,451.37	\$0.00		\$4,451.37
LESS OPEN CURRENT ACCTS PAYABLE AND OPEN CAPITAL LIABILITIES	\$20,629.76	\$0.00		\$20,629.76
YIELDS TOTAL OPENING NET WORTH	\$69,913.17	\$8,000.00		\$77,913.17
CLOSE INV OF CASH AND MISL. ASSETS	\$561.80	\$0.00		\$561.80
CLOSE INV OF RAISED LIVESTOCK	\$8,815.60	\$0.00		\$8,815.60
CLOSE INV OF GRAIN	\$2,030.00	\$0.00		\$2,030.00
CLOSE INV OF FORAGE	\$816.00	\$0.00		\$816.00
CLOSE INV OF CASH CROPS	\$0.00	\$0.00		\$0.00
CLOSE INV OF PRODUCTS, FEED, SUPP	\$0.00	\$0.00		\$0.00
CLOSE INV OF LIVESTOCK FOR RESALE	\$0.00	\$0.00		\$0.00
CLOSE INV OF CROPS FOR RESALE	\$0.00	\$0.00		\$0.00
CLOSE INV OF MISC CAPITAL INVEST	\$710.00	\$0.00		\$710.00
CLOSE INV OF CAP ASSETS-LIVESTOCK	\$9,355.00	\$0.00		\$9,355.00
CLOSE INV OF CAP ASSETS-MACHINERY	\$3,372.00	\$0.00		\$3,372.00
CLOSE INV OF CAP ASSETS-BUILDINGS	\$2,755.00	\$0.00		\$2,755.00
CLOSE INV OF CAP ASSETS-LAND	\$63,500.00	\$8,000.00		\$71,500.00
TOTAL CLOSING INVENTORY	\$91,917.40	\$8,000.00		\$99,917.40
PLUS CLOSE CURRENT ACCTS RECEIV AND CLOSE CAPITAL ACCTS REC	\$4,737.38	\$0.00		\$4,737.38
LESS CLOSE CURRENT ACCTS PAY AND CLOSE CAPITAL LIABILITIES	\$28,807.24	\$0.00		\$28,807.24
YIELDS TOTAL CLOSING NET WORTH	\$51,047.54	\$8,000.00		\$59,047.54
TOTAL INVENTORY CHANGE	\$2,975.84	\$0.00		\$2,975.84
TOTAL CHANGE IN NET WORTH	\$2,134.37	\$0.00		\$2,134.37
OPENING CURRENT LOANS	\$25,581.45	\$0.00		\$25,581.45
OPENING NONCURRENT LOANS	\$17,850.00	\$0.00		\$17,850.00
CLOSING CURRENT LOANS	\$27,841.33	\$0.00		\$27,841.33
CLOSING NONCURRENT LOANS	\$16,800.00	\$0.00		\$16,800.00
OPENING CURRENT LOAN RATIO	.03			.03
CLOSING CURRENT LOAN RATIO	.01			.01
OPENING DEBT TO WORTH RATIO	.91			.78
CLOSING DEBT TO WORTH RATIO	.89			.77
DEBT SERVICING TO GROSS FARM INC	.99			.98

SECTION 12 PART B INCOME PRODUCED	FARM NUMBER 0K0077 SUBFARM 30	ALL OTHER SUBFARMS	DATE PROCESSED 03/20/73	PAGE 9 TOTAL FARM
TOTAL FARM CASH EARNINGS PLUS NONCASH INVENTORY CHANGE	\$974.38	\$330.64		\$1,305.02
INTEREST PAID EQUALS	\$3,555.10	\$0.00		\$3,555.10
RETURN TO UNPAID LABOR, CAP, MGMT	\$3,461.54	\$0.00		\$3,461.54
LESS UNPAID FAMILY LABOR	\$7,891.02	\$330.64		\$8,221.66
YIELDS RETURN TO CAP AND MGMT	\$0.00	\$0.00		\$0.00
DIVIDED BY AVERAGE CAPITAL	\$7,657.92	\$330.64		\$7,988.56
YIELDS PERCENT RATE OF RETURN	\$102,720.41	\$7,933.87		\$110,654.29
	7.77	4.16		7.57
RETURN TO UNPAID LABOR, CAP, MGMT	\$7,891.02	\$330.64		\$8,221.66
LESS 6 PERCENT INTEREST CHARGE	\$476.03	\$0.00		\$476.03
YIELDS RETURN TO LABOR AND MGMT	\$7,414.99	\$330.64		\$7,745.63
DIVIDED BY UNPAID LABOR YEARS	\$0.00	\$0.00		\$0.00
YIELDS RETURN PER LABOR YEAR	\$2,284.75	\$0.00		\$2,284.75

Table IV illustrates the changes made in response to these suggestions. The inventory items are printed in ascending order TRANSACTION AND ITEM one through 99.<sup>7</sup> In this way, raised beef cattle are separated from raised dairy cattle, sheep, or swine. In the 1966-72 version of Section 12, Table III, totals are listed for the main Sub-farm, all landlords, and the total farms. After the modifications are completed the opening and closing inventories appear on the same line with the amount of net change replacing the total farm column. This logic change makes the comparison of opening and closing inventory much easier. While this restructure provides more information per page, the illustration contains only operator data. If landlord data is reported, the same output section will be repeated for all landlords and total farm data, the sum of all operators and landlords. If no other subfarm data is reported, the program will not print that section. A message will be printed indicating that no other landlord or operator data has been reported, and values given for all operators are also total farm values.

Capital and current accounts payable are subtracted and receivables are added to total inventory to obtain the opening and closing change in net worth. The lines of output saved by printing opening and closing values on one line approximately offset the increase caused by printing inventory items separately. Because operator, landlord, and total farm values must be printed separately, one after the other, the amount of

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<sup>7</sup> TRANSACTION AND ITEM are the first two digits of the four-digit Costfinder code. TRANSACTION codes include Non-Farm and Special Tax Cases, Raised Sales, Raised Product Sales, Farm Income, Current Farm Expenses, Purchases and Sales of Items Purchased for Resale, and Purchases and Sales of Capital Assets. These two digits will be referred to as TI or TI code.

TABLE IV

THE 1973 VERSION OF SECTION 12 FINANCIAL ANALYSIS

SECTION 12 FINANCIAL ANALYSIS			FARM NUMBER OK0072			DATE PROCESSED 03/20/73			PAGE 8		
			SUBFARM 00								
TI DESCRIPTION	OPENING INVENTORY			CLOSING INVENTORY			NET CHANGE				
	UNITS	POUNDS	DOLLARS	UNITS	POUNDS	DOLLARS	UNITS	POUNDS	DOLLARS		
10 CASH			1141.06			561.80				-579.26	
11 BEEF	45.0	19125.0	6844.50	43.0	17460.0	8565.60	-2.0	-1665.0		1721.10	
15 OTHER LIVESTOCK	1.0	1000.0	250.00	1.0	1000.0	250.00	0.0	0.0		0.0	
17 GRAIN	183.0		1830.00	203.0		2030.00	20.0			200.00	
18 HAY	25.0		750.00	343.0	19080.0	818.00	318.0	19080.0		68.00	
44 FEED	800.0	48000.0	800.00	0.0	0.0	0.00	-800.0	-48000.0		-800.00	
90 MISC ASSETS	7.1		710.00	7.1		710.00	0.0	0.0		0.00	
91 CAPITAL BEEF	50.0	43900.0	8355.00	55.0	47100.0	9355.00	5.0	3200.0		1000.00	
95 CAP OTHER THAN LVST	2.0	2200.0	1000.00	0.0	0.0	0.00	-2.0	-2200.0		-1000.00	
97 CAPITAL MACH	5.0		3217.00	5.0		3372.00	0.0	0.0		155.00	
98 BUILDINGS	40.0		3044.00	40.0		2755.00	0.0	0.0		289.00	
99 LAND	550.0		69000.00	550.0		71500.00	0.0	0.0		2500.00	
TOTAL			\$96941.56			\$99917.40				\$2975.84	
CURRENT ACCOUNTS RECEIVABLE			4451.37			4737.38				286.01	
CAPITAL ACCOUNTS RECEIVABLE			0.00			0.00				0.00	
CURRENT ACCOUNTS PAYABLE			26629.76			28807.24				2177.48	
CAPITAL ACCOUNTS PAYABLE			17850.00			16800.00				-1050.00	
TOTAL NET WORTH			56913.17			59047.54				2134.37	
CURRENT LOANS			25581.45			27841.33				2259.88	
NONCURRENT LOANS			17850.00			16800.00				-1050.00	
PERCENT CURRENT EQUITY			0.00			0.00				0.00	
PERCENT OWNER EQUITY			.58			.59				.01	
DEBT SERV TO GROSS FARM INCOME			.99			0.00				0.00	

SECTION 12 PART B INCOME PRODUCED			FARM NUMBER OK0072		DATE PROCESSED 03/16/73		PAGE 9	
			SUBFARM 00		ALL OTHER SUBFARMS		TOTAL FARM	
TOTAL FARM CASH EARNINGS PLUS			\$974.38		\$330.64		\$1305.02	
NONCASH INVENTORY CHANGE			\$3555.10		\$ .00		\$3555.10	
INTEREST PAID EQUALS			\$5461.54		\$ .00		\$3461.54	
RETURN TO UNPAID LABOR, CAP, MGMT			\$7991.02		\$330.64		\$8321.66	
LESS UNPAID FAMILY LABOR			\$ .00		\$ .00		\$ .00	
YIELDS RETURN TO CAP AND MGMT			\$7991.02		\$330.64		\$8321.66	
DIVIDED BY AVERAGE CAPITAL			\$102720.41		\$7933.87		\$110654.29	
PERCENT RETURN ON TOTAL CAPITAL			7.77		4.13		7.52	
PERCENT RETURN ON EQUITY CAPITAL			8.85				8.53	
RETURN TO UNPAID LABOR, CAP, MGMT			\$7991.02		\$330.64		\$8321.66	
LESS 6 PERCENT INTEREST CHARGE			\$6163.22		\$476.03		\$6639.25	
YIELDS RETURN TO LABOR AND MGMT			\$1827.80		\$145.39		\$1682.41	
DIVIDED BY UNPAID LABOR YEARS			.80				.80	
YIELDS RETURN PER LABOR YEAR			\$2284.75		\$ .00		\$2103.01	

output may increase. However, additional information is provided in a more readable form.

Section 12B, Table IV will retain the same format and will appear after the total farm values have been printed. However, in Section 12B, the output can be presented in a more readable, condensed form by omitting units and pounds. Changes in Section 12B include the addition of a "percent return to owner equity" figure and the change of PERCENT RATE OF RETURN to PERCENT RETURN TO TOTAL EQUITY. These modifications allow comparison of the rate of return on owner capital with the percent return on non-owner capital. It is hoped that the improved readability and quality of existing and additional information will increase the farmer's knowledge and understanding of financial analysis. Good financial records organized in condensed, logical form, should help the farmer obtain needed credit.

#### Cash Flow Budget Summary

The timing of credit needs is an important part of financial analysis. It would be wasteful to finance a short term need with a long term source of funds. Section 30, Table V is prepared at the end of the year to show the time distribution of cash needs for operation of the farm and for family living.<sup>8</sup> Data in this report includes cash transactions, charges made during the year and loans, and principal paid within the year. Payments made on accounts created in previous years

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<sup>8</sup>Cash Budget was initiated by Ted R. Nelson, Extension Economist, Farm Management. Modifications have been completed by Mike L. Hardin, Research Assistant.

TABLE V

SECTION 30, CASH BUDGETING REPORT

COMPUTERIZED-DATA-ST-FARM-INCOME-STATE-DETAILED-ENTERPRISE-RECORD-SYSTEM

SECTION 30 CASH BUDGETING REPORT	FARM NUMBER 007200												DATA ROUNDED TO DOLLARS	DATE PROCESSED 03/20/73	PAGE 1
II DESCRIPTION	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL		
ACTUAL BORROWING AND REPAYMENT															
06 PRINCIPAL PAID OUT							1000			570			750	2320	
SOURCES OF INCOME															
C1 TAXABLE INCOME	450													450	
11 SLEP			1658											1658	
18 FORAGE							813							813	
22 DAIRY PRODUCTS	2500	2915	2776	2694	2765	2734	2656	2644	2605	2605	2592	2524		32236	
30 MISCELLANEOUS INCOME										275				275	
35 PATRONAGE REFUNDS									150	100				250	
36 AGRIC. PROGRAM PAYMENTS							22	160						182	
37 TAX REFUNDS										68				68	
38 INSURANCE PROCEEDS						314								314	
02 DAIRY										3450				3450	
02 DAIRY										200			200	572	
06 MOTOR VEHICLES	700			164										700	
07 MACHINERY - EQUIPMENT		70												70	
TOTAL INCOME	3650	2985	4434	3057	2764	3068	3441	2954	2772	6529	2592	2737		41938	
TYPES OF EXPENSE															
05 PERSONAL DRAW	450	300	475	500	450	570	1654	1134	500	500	500	500		7667	
41 LABOR	23	75	107	25	35	525	440	660	70	143	50	49		2219	
42 REPAIRS				343	363	374	340			85	114			1618	
43 INTEREST				5		45								1809	
44 FEED			203	280	249	445	435	399	2204	956	1050			7992	
45 SEEDS AND PLANTS										143				143	
46 FERTILIZER-LIME-LIMEA				222				300	327	986				1835	
47 MACHINE HIRE												160		160	
48 SUPPLIES			343	176		25	145	22	213		78			1062	
49 BREEDING FEES				339										339	
50 MISCELLANEOUS EXPENSE							92	52					258	492	
51 VETERINARY-MEDICINE			172		121	55	174							566	
52 GAS-FUEL-OIL					93	189	220	183	169					1725	
54 TAXES				727	82	120				106				1735	
55 INSURANCE	207	195		120	131									653	
56 UTILITIES(ELEC,PHONE)			197			150			175				275	725	
57 FARM RENT					50					87				87	
58 FREIGHT-FREIGHTING		38				232	655	102						1028	
59 CONSERVATION EXPENSE						525	265							790	
72 DAIRY				2000										2000	
92 DAIRY	500	500					800			500				2300	
96 MOTOR VEHICLES			5800	4821										10621	
TOTAL EXPENSE	1100	1300	7295	9635	1521	4034	4389	2855	4470	3111	1677	4639		46092	
BORROWING NECESSARY			2862	6347		906	696		1636			1902		14674	
REPAYMENT POSSIBLE	2670	1676		1242							3418	914		9620	
CUMULATIVE BORROWING				5264	4021	4947	5843	5786	7484	4065	3150	5652		5052	
CUMULATIVE SAVINGS	2470	4140	1283												

would have been shown on a previous year's cash budget. Thus, they would not be added this year.

The amounts are listed monthly with a total in the far right column. The final summary total represents non-loan income and non-loan expense for each month and the year. BORROWING NECESSARY represents the amount expenses exceed income for the month. Conversely, REPAYMENT POSSIBLE is the amount income exceeds expenses. The last two lines show CUMULATIVE BORROWING AND SAVINGS respectively. The time distribution of credit needs varies widely, depending on the type of livestock and crops produced. It is important that the length of time that credit is needed be comparable to the time that credit is used.

The Check Reconciliation Program provides a means of checking the accuracy of the bank statement and all input data. Modifications in Section 12, Table IV, provide financial information in a form that is more easily understood and interpreted by farmers and credit officers. Timing of credit needs is provided in the Cash Budget report. Trends in agricultural credit indicate the increasing importance of timely and accurate financial information.

CHAPTER III  
PROGRAM CHANGES TO FACILITATE  
TAX REPORTING AND ANALYSIS

Introduction

Good tax management depends upon timely and accurate records. One objective of these records is to furnish sufficient information to file income tax returns. Programming modifications explained in this chapter are intended to: (1) improve understanding and readability of the printouts generated, (2) provide adequate information to report income tax, and (3) generate timely records which provide the basis for estimating taxable income at any time during the year.

Program Modifications to Section 2,  
Cash Flow Summary

Suggestions received from the Area Agents to improve the Section 2, Cash Flow Summary, are indicated in Table VI. The modifications proposed in this section are based on the 1966-72 version of Section 2.<sup>1</sup> The farm number, date processed, and accounting basis are included in the heading. Totals are printed for each TI code that has a non-zero

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<sup>1</sup>The Section 2, Cash Flow Summary, 1966-72 version is printed in Table VII.

TABLE VI

THE TYPED REPRESENTATION OF SECTION 2, CASH FLOW SUMMARY

SECTION 2 CASH FLOW SUMMARY		FARM NUMBER 0X0072			CASH BASIS			DATE PROCESSED 03/30/72 PAGE 2		
TIG	DESCRIPTION	TOTALS FOR THIS PERIOD			CURRENT TOTALS TO DATE			LAST YEAR AT THIS TIME		
		UNITS	POUNDS	DOLLARS	UNITS	POUNDS	DOLLARS	UNITS	POUNDS	DOLLARS
NONFARM AND SPECIAL CASES										
010	TAXABLE NON-FARM INC									
1	WAGES			55.00			111.58			114.22
2	RENTAL			48.55			4344.62			11322.43
4	DEPLETION ELIGIBLE			13.44			141.65			110.32
6	RESALE ITEMS			98.98			789.42			642.11
8	CAPITAL			941.64			1453.67			1445.66
9	NON-TAXABLE GIFTS			4.32			14.56			18.43
030	FAMILY OR NONFARM DEDUCTIBLE EXPENSES									
1	WAGES			82.76			114.84			127.65
2	REPAIRS			2421.54			2346.12			922.45
7	MACHINE HIRE			497.45			867.44			1432.21
	TOTAL EXPENSES NONFARM			\$3001.75			\$3328.40			\$2482.31
CURRENT FARM EXPENSES										
420	REPAIRS									
1	CAR			123.62			123.62			42.11
3	TRACTOR			433.43			644.21			114.21
7	MACHINERY			898.77			898.77			1343.57
440	FEED									
1	ADDITIVES			334.56			646.22			1253.89
4	MIXED FEEDS			4453.67			8769.22			4356.11
	TOTAL CURRENT FARM EXPENSES			\$6244.05			\$11082.04			\$7109.89



TABLE VII

## THE 1966-72 VERSION OF SECTION 2, CASH FLOW SUMMARY

SECTION 2 CASH FLOWS SUMMARY			FARM NUMBER UK007200			CASH BASIS			DATE PROCESSED 03/25/73 PAGE 3		
TI	DESCRIPTION	TOTALS FOR THIS PERIOD			OLD BALANCE BROUGHT FORWARD			CURRENT TOTALS TO DATE			
		UNITS	POUNDS	DOLLARS	UNITS	POUNDS	DOLLARS	UNITS	POUNDS	DOLLARS	
<b>NONFARM AND SPECIAL CASES</b>											
1	TAXABLE NON-FARM INC						450.00				450.00
	TOTAL INCOME, NON-FARM			30.00			\$450.00				\$450.00
5	PERSONAL DRAW			4,792.00			2,875.00				7,667.00
6	PRINCIPAL PAID OUT			1,750.00							1,750.00
	TOTAL EXPENSES, NON-FARM			\$6,542.00			\$2,875.00				\$9,417.00
<b>CURRENT FARM SALES</b>											
11	BEEF				33.0		1,658.00	33.0			1,658.00
18	WAGAGE	32.5	65,000	812.00				32.5	65,000	812.00	
22	DAIRY PRODUCTS		243,400	19,631.43	259,630		16,604.57		502,118	32,236.00	
30	MISCELLANEOUS INCOME			275.00							275.00
35	PATIENCE REFUNDS			250.00							250.00
36	AGRI. PROGRAM PAYMENTS			102.00							102.00
37	TAX REFUNDS			86.75							86.00
38	INSURANCE PROCEEDS						314.00				314.00
	TOTAL CURRENT FARM SALES			\$17,219.43			\$16,576.57				\$33,792.00
<b>CURRENT FARM EXPENSES</b>											
41	LABOR	301.0		1,437.50	201.0		781.50	302.0			2,219.00
42	REPAIRS			326.57			1,273.43				1,600.00
43	INTEREST			1,806.85			53.15				1,860.00
44	FEED		121,000	6,300.29	109,900		1,727.71		231,500		8,091.00
45	SEEDS AND PLANTS			143.30							143.00
46	FERTILIZER-LIME-LIME	6.0	12,000	927.00			222.00	6.0	12,000		1,149.00
47	MACHINE FINE			100.00							100.00
48	SUPPLIES			450.10			543.40				1,002.00
49	BREEDING FEES						339.00				339.00
50	ADMINISTRATIVE EXP			492.00							492.00
51	VETERINARY-MEDICINE			212.26			347.72				560.00
52	WAG-FUEL-OIL	3420.0		743.10	596.0		281.84	4022.6			1,025.00
54	TAXES			105.60			529.32				1,035.00
55	INSURANCE						653.00				653.00
56	UTILITIES(ELEC,PHONE)			377.42			347.08				724.50
57	FARM RENT PAID			87.00							87.00
58	FREIGHT-TRUCKING			107.37			320.63				1,028.00
59	CONSERVATION EXPENSE			205.60			523.00				790.00
	TOTAL CURRENT FARM EXPENSES			\$14,700.72			\$6,251.28				\$22,952.00
<b>SALE OF PURCHASES FOR RESALE</b>											
62	DAIRY	10.0		3,450.00				17.0			3,450.00
	TOTAL SALE OF PURCHASES FOR RESALE			\$3,450.00			\$0.00				\$3,450.00
<b>PURCHASE OF PURCH FOR RESALE</b>											
72	DAIRY	10.0		2,000.00	10.0	5,000	2,000.00	17.0	5,000		2,000.00
	TOTAL PURCHASE OF PURCH FOR RESALE			\$0.00			\$2,000.00				\$2,000.00
<b>SECTION 2 CASH FLOWS SUMMARY (CONT)</b>											
SECTION 2 CASH FLOWS SUMMARY (CONT)			FARM NUMBER UK007200			CASH BASIS			DATE PROCESSED 03/25/73 PAGE 4		
TI	DESCRIPTION	TOTALS FOR THIS PERIOD			OLD BALANCE BROUGHT FORWARD			CURRENT TOTALS TO DATE			
		UNITS	POUNDS	DOLLARS	UNITS	POUNDS	DOLLARS	UNITS	POUNDS	DOLLARS	
	PURCHASE OF CAPITAL ASSETS			570.00							570.00
	TOTAL PURCHASE OF CAPITAL ASSETS			\$570.00			\$0.00				\$570.00
	TOTAL FARM INCOME			\$20,509.43			\$16,576.57				\$37,086.00
	TOTAL FARM EXPENSE			\$15,356.72			\$10,151.28				\$25,488.00
	TOTAL FARM GAIN OR LOSS			\$5,152.71			\$6,425.29				\$11,598.00
	TOTAL NONFARM GAIN OR LOSS			\$6,542.00			\$2,425.00				\$8,967.00
	TOTAL GAIN OR LOSS			\$11,694.71			\$8,850.29				\$20,565.00

observation. Three sets of units, pounds, and dollars are listed across the page. These three sets represent TOTALS FOR THIS PERIOD, OLD BALANCE BROUGHT FORWARD, and CURRENT TOTALS TO DATE.

Area Agents agreed that the OLD BALANCE FORWARD column should be replaced by the totals for LAST YEAR AT THIS TIME. The old balance is read each time the periodic report is processed. It would be very simple to omit these figures in the printout; however, the LAST YEAR AT THIS TIME figures must be read from the previous year's master transaction file. If input data were reported promptly each month or quarter, it would be easy to determine the number of months of data reported this year. Then, a comparable number of months of data could be totaled and printed from the previous year's data. In reality, data is not reported in neat monthly or quarterly blocks. Often, four or five months of data are reported together.

The master transaction file for 145 farms in 1972 contained approximately 125,000 ninety-character records. To read and total the appropriate records each week the periodic report is processed could double the cost. If a program were written to read the master transaction file for the previous year and print totals for each month, the condensed results could be written on another file. This smaller file could be read into the periodic report program. While the programming changes required to print totals for LAST YEAR AT THIS TIME is possible, the cost of this section would increase. Because of the increased cost, the program modifications will not be included in the Cash Flow Summary. The units and pounds in the OLD BALANCE FORWARD have been deleted but the dollar amounts in this column will be printed after the TI code description. Without further program modifications,

the balance forward dollar amounts provide the only means of manually checking the accuracy of the old balance forward files. Program modifications would provide many other ways of making this accuracy check. The cost involved in the modification and the cost of replacing old balance forward with the totals from the previous year effect the retention of old balance dollars. By deleting both the totals from the previous year and the old balance units and pounds, the readability of the Cash Flow Summary, Table VIII, is improved.

#### Expansion of Cash Flow Categories

Another suggestion received from the Area Agents and farmers indicates that it would be helpful if some of the TI categories such as grain sales, repairs, feed, and supplies could be listed by GENERAL code.<sup>2</sup> Since there are ninety-nine TI's and nine possible GENERAL sub-categories in each TI code, disaggregation of all TI's would increase the possible number of lines printed from 99 to 999.

This expansion would also require that the computer storage for the Cash Flow Section be increased tenfold. Computer costs at Oklahoma State University are a function of actual processing time and the amount of storage required. Expansion of all GENERAL codes would increase the amount of time required to print the extra lines and increase the computer storage required for this section. Since some TI codes are used more than others, a compromise between cost and

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<sup>2</sup>GENERAL is the third digit of the four-digit Costfinder code. It provides nine possible sub-divisions of each TI code. Hereafter it will be referred to as G, GENERAL, or GENERAL CODE.

TABLE VIII

THE 1973 VERSION OF SECTION 2, CASH FLOW SUMMARY

PAGE 4  
FARM NUMBER 0C007200  
DATE PROCESSED 03/20/73.

TI DESCRIPTION	SECTION 2 - DETAIL CASH FLOW SUMMARY - CASH TAXPAYER			CURRENT TOTALS TO DATE		
	PREVIOUS BALANCE DOLLARS	UNITS	TOTALS FOR THIS PERIOD POUNDS DOLLARS	UNITS	POUNDS	DOLLARS
*** FAMILY LIVING AND OUTSIDE BUSINESS ***						
05 FAMILY LIVING			\$4,792.00			\$4,792.00
4 PERS. SERV.-REC			1,792.00			1,792.00
10 OTHER			3,000.00			3,000.00
** TOTAL NON-FARM OUTFLOW **			\$4,792.00			\$4,792.00
** TOTAL NET NON-FARM INFLOW **			\$4,792.00			\$4,792.00
*** RAISED LIVESTOCK AND GRAIN SALES ***						
11 BEEF, RAISED	\$1,658.00			33.00		\$1,658.00
1 FEEDERS	1,658.00			33.00		1,658.00
18 HAY AND FEEDAGE		32.50	65,000.0	32.50	65,000.0	\$813.00
1 ALFALFA		32.50	65,000.0	32.50	65,000.0	813.00
TOTAL RAISED SALES	\$1,658.00		\$813.00			\$2,471.00
*** PRODUCT INCOME AND OTHER INCOME ***						
22 DAIRY PROD-MILK	\$16,604.57		243,460.3	502,118.3		\$32,236.00
30			\$275.00			\$275.00
35 PATRON. REFUNDS			\$250.00			\$250.00
1 MILK CO-UPS			150.00			150.00
5			100.00			100.00
36 GOVNT PAYMENTS			\$182.00			\$182.00
2 MARKET CERTIFICAT			22.00			22.00
5 A.C.P. PRACTICES			160.00			160.00
37 GAS TAX REFUND			68.00			68.00
1 FEDERAL GASOLINE			68.00			68.00
38 INS PROCEEDS	\$314.00					\$314.00
TOTAL PRODUCT SALES & INCOME	\$16,918.57		\$10,400.43			\$33,325.00
*** SALE OF LIVST-GRAIN RESALE ITEMS ***						
02 DAIRY, RESALE		10.00	\$3,450.00	10.00		\$3,450.00
TOTAL SALE OF RESALE ITEMS			\$3,450.00			\$3,450.00
** TOTAL FARM INFLOW **	\$16,576.57		\$20,669.43			\$39,246.00
*** CURRENT FARM EXPENSES ***						
41 LABOR HIRED	\$781.50	301.00	\$1,437.50	502.00		\$2,219.00
42 REPAIRS	\$1,079.43		\$536.57			\$1,618.00
2 CROP MACHINERY	142.62		95.65			238.27
3 LIVESTOCK EQUIP.	200.00		284.33			484.33
4 IRRIGATION EQUIP.			55.61			55.61
5 BUILDINGS	182.39					182.38

TABLE VIII (Continued)

PAGE 5  
FARM NUMBER 000PT200  
DATE PROCESSED 03/29/73

SECTION 2 - DETAIL CASH FLOW SUMMARY - CASH TAXPAYER (CONT)								
TI DESCRIPTION	PREVIOUS BALANCE DOLLARS	TOTALS FOR THIS PERIOD			CURRENT TOTALS TO DATE			
		UNITS	POUNDS	DOLLARS	UNITS	POUNDS	DOLLARS	
6	212.72						212.72	
7	161.48			16.45			179.93	
8	189.23						189.23	
9				84.53			84.53	
43 INTEREST	\$52.15			\$1,898.85			\$1,862.00	
44 FEED PURCHASE	\$1,727.71		121,600.0	\$6,363.29		217,200.0	\$8,091.00	
2 FACT-MIXED FEEDS	87.87			294.10			361.77	
3 CORN	500.00		22,000.0	823.03			1,323.03	
4 GRAIN SURGUM	1,160.94		99,600.0	3,501.16		195,200.0	4,661.20	
8 ALFALFA HAY				1,745.00			1,745.00	
45 SEEDS & PLANTS				\$143.00			\$143.00	
1 SEED				143.00			143.00	
46 FERTILIZER-LINE	\$222.00			\$927.00			\$1,149.00	
1 N	222.00			600.00			822.00	
3 MIXED FERTILIZER				327.00			327.00	
47 PALFIRE FIRE				\$100.00			\$100.00	
1 TRUCK				100.00			100.00	
48 SUPPLIES	\$543.90			\$458.10			\$1,002.00	
3				112.41			112.41	
5 BEDDING				78.33			78.33	
6 SERV DAIRY TANKS	97.83						97.83	
7				54.50			54.50	
8	176.13						176.13	
9	24.97						24.97	
10 OTHER	245.17			212.86			458.03	
49 BREEDING FEES	\$336.00						\$336.00	
3 SEMEN	79.61						79.61	
4	259.39						259.39	
50 ADMIN EXP				\$492.00			\$492.00	
1 ACCOUNTING				83.00			83.00	
9				409.00			409.00	
51 VET MEDICINE	\$347.72			\$212.28			\$560.00	
1 VET. SERVICE	75.22			140.56			223.78	
2 MEDICINE				53.72			63.72	
3 VACCINE	54.58						54.58	
4 EQUIPMENT	134.16						134.16	
5 VET SUPPLIES	83.76						83.76	
52 GAS-FUEL-OIL	\$281.84	3426.67		\$743.16	4,022.67		\$1,025.00	
1 GASOLINE	149.00	1120.00		284.00	1,716.00		433.00	
3 DIESEL	77.34	2306.67		341.00	2,306.67		341.00	
5				83.29			161.13	
7	31.65			34.67			66.52	

TABLE VIII (Continued)

PAGE 6  
FARM NUMBER 30337203  
DATE PROCESSED 03/20/73

TI DESCRIPTION	PREVIOUS BALANCE DOLLARS	TOTALS FOR THIS PERIOD			CURRENT TOTALS TO DATE		
		UNITS	POUNDS	DOLLARS	UNITS	POUNDS	DOLLARS
8	23.35						23.35
54 PROPERTY TAXES	\$929.32			\$105.68			\$1,035.00
1 REAL ESTATE	727.18						727.18
3	81.71						81.71
4	120.43			105.68			226.11
55 GEN. FARM INS.	\$653.00						\$653.00
1 HAIL	207.21						207.21
3 LIVESTOCK	119.87						119.87
4	130.56						130.56
6	195.36						195.36
56 FM. UTILITIES	\$347.00			\$377.92			\$725.00
57 CASH FARM RENT				\$87.00			\$87.00
9 LAND RENT				87.00			87.00
58 FRGHT-TRUCKING	\$320.53			\$707.37			\$1,028.00
59 CONSERVATION	\$525.00			\$265.00			\$790.00
TOTAL CURRENT FARM EXPENSES	\$8,151.28			\$14,766.72			\$22,918.00
				*** PURCH OF LVST-GRAIN RESALE ITEMS ***			
72 DAIRY, RESALE	\$2,000.00				10.00	5,000.00	\$2,000.00
TOTAL PURCH OF RESALE ITEMS	\$2,000.00						\$2,000.00
** TOTAL FARM OUTFLOW **	\$10,151.28			\$14,766.72			\$24,918.00
** TOTAL NET FARM INFLOW **	\$8,425.29			\$5,902.71			\$14,328.00
TOTAL NET FM & NONFM INFLOW	\$8,425.29			\$1,110.71			\$9,536.00

aggregation would improve the cost-benefit ratio. Table IX lists the TI codes and GENERAL categories that have been disaggregated.<sup>3</sup>

TI codes 01 and 03 through 09 have special application to non-farm taxable income. For example, itemized family deductions, TI code 04, are divided into doctors, drugs, charities and contributions, health insurance, interest and taxes.

TI codes 07 and 08 represent undivided utilities and auto expenses which can be allocated between the farm and the household at the end of the year. The sub-divisions for the non-farm deductible expenses can be transferred directly to Schedule F (Form 1040), Figure 2. TI codes 11 through 14, and 17 through 19, list raised livestock and raised grain sales which transfer to Part I of Schedule F (Form 1040).

The next sub-category in the Section 2, Cash Flow Summary, Product Income and Other Income, completes the farm income part of Schedule F. Product sales such as milk, eggs, and wool are included in the raised sales section. Other income, such as TI code 32, Machine Work, TI code 35, Patronage Refunds, TI code 36, Government Payments, and TI code 38, Insurance Proceeds, transfer directly to the OTHER FARM INCOME section of Part II, Schedule F. The TI codes 42, 44 through 55, and 57 sub-divide most of the deductible farm expenses. If tax-credit on gasoline is claimed, it is necessary to record the exact number of gallons. TI code 52 lists total gallons for all fuels. The GENERAL categories in TI code 52 allow separate accounting of the gallons of each type of fuel.

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<sup>3</sup>The expansion of the TI codes was programmed by Teresa Weixelman, Manhattan, Kansas. Conversion to the Oklahoma State University Computer and the Costfinder system was done by Mike L. Hardin, Research Assistant.

TABLE IX

THE LIST OF EXPANDED TI AND GENERAL CODES

TI G	TI G	TI G	TI G	TI G
01 Taxable Non-farm Income	14 Swine	7 Harvesting Equipment	46 Fertilizers	53 Storage
1 Wages	1 Male young	8 Haying Equipment	1 Fertilizer	1 Warehousing
2 Rental Income	2 Female young	9 Storage & Processing	2 Trace elements	2 Bailments
3 Miscellaneous	3 Neuter young		3 Lime & Gypsum	3 Cold Storage
4 Sale of Resale Items	4 Male adolescent	35 Patronage Refunds	4 Insecticide	4 Brokerage
5 Sale of Capital Assets	5 Female adolescent	1 Milk	5 Herbicide	5 Custom Kill
	6 Neuter adolescent	2 Wood	6 Other Chemicals	
03 Non-farm Deductible Expenses	7 Male adult	3 Hogs		54 Taxes
1 Substitute Farm TI Codes	8 Female adult	4 Eggs	47 Machine Hire	1 Real Estate
	9 Neuter adult	5 Grain	Same as TI	2 Personal
			Code 32	3 Licenses
04 Itemized Family Deductions	17 Grain	36 Ag Prog. Payments		4 Permits
1 Doctors	1 Barley	1 Diversion	48 Supplies	5 Sales
2 Drugs	2 Corn	2 Marketing Cert.	3 Fence Wire	
3 Charity	3 Grain Sorghum	3 Soil Bank	4 Bedding	55 Insurance
4 Health Insurance	4 Oats	4 Storage	5 Servicing (Dairy tank)	Premiums
5 Interest	5 Rye	5 A.C.P. Practices	6 Materials	1 Hail
6 Taxes	6 Wheat	6 A.C.P. Fertilizers	7 Shop Supplies	2 Crop
			8 Tools	3 Livestock
05 Personal Withdrawals	18 Hay and Forage	37 Tax Refunds	9 Office	4 Vehicle
1 Groceries	1 Alfalfa	1 Gasoline		5 Equipment
2 Clothing	2 Brome		49 Breeding Fees	6 Building
3 Household Operations	3 Bermuda	42 Repairs	1 Stud	7 Liability
4 Personal Services	4 Grass	1 Car	2 Artificial	
5 Nondeductible auto	5 Native	2 Truck	Insemination	
7 Furniture and household	6 Silage	3 Tractor	3 Semen	
8 Equipment	7 Sudan	4 Power Units	4 Supplies	
9 Depreciable Capital	8 Straw	5 Combine		
Gain Items	9 Crop Pasture	6 Machinery Hay	50 Miscellaneous Expense	
		7 Machinery	1 Accounting	
06 Loans to Others	19 Cash Crops	8 Building	2 Checking Charges	
	1 Broomcorn	9 Land Improvement	33 Other Bank Charges	
07 Undivided Utilities	2 Cowpeas		4 Legal fees	
1 Phone	3 Cotton	44 Feed	5 Performance Bond	
2 Telegraph	4 Guar	1 Additives	6 Papers & Registration	
3 Radio	5 Peanuts	2 Salt & Minerals	7 Testing	
4 Electricity	6 Pecans	3 Protein Supplement	8 Farm Magazines	
5 Natural Gas	7 Fruits, Melons,	4 Mixed Feed	9 Organizations	
6 Water	Berries	5 Silage		
	8 Soybeans	6 Pasture	51 Vet Medicine	
08 Undivided Auto Expense	9 Vegetables	7 Grain	1 Vet Service	
4 Repairs		8 Hay	2 Medicine	
5 Fuel-oil			3 Vaccine	
	32 Machine Work	45 Seeds and Plants	4 Equipment	
09 Memorandum	1 Livestock Feeding	1 Seed	5 Supplies	
	Equipment	2 Tuber		
11 Beef	2 Other Livestock	3 Plants	52 Gas Fuel	
Same as TI 14	Equipment	4 Seed Cleaning	1 Gasoline	
12 Dairy	3 Materials Handling	5 Treatment	2 LP Gas	
Same as TI 14	Equipment	6 Germination Test	3 Diesel	
13 Sheep	4 Tillage Machinery	7 Certification	4 Kerosene	
Same as TI 14	5 Planting and		5 Natural Gas	
	Cultivating		6 Grease	
	6 Irrigation and		7 Oil	
	Chemicals		8 Filters	
			9 Additives	



**SCHEDULE F  
(Form 1040)**  
Department of the Treasury  
Internal Revenue Service

**Farm Income and Expenses**  
(Compute social security self-employment tax on Schedule SE)  
▶ Attach to Form 1040.  
▶ If rental income, see instruction C before using this schedule.

**1972**

Name(s) as shown on Form 1040: James A. and Jane W. Brown Social security number: 579 28 6685

Business name and address: James A. Brown, R.R. 1, Box 25, Hometown, State If you filed Form 943, enter employer identification number here

Location of farm(s) and number of acres in each farm: Same 160 Acres 57 | 6041492

**Part I Farm Income—Cash Receipts and Disbursements Method**

Do not include sales of livestock held for draft, breeding, sport, or dairy purposes; report such sales on Form 4797.

**Sales of Purchased Livestock and Other Items Purchased for Resale**

a. Description	b. Amount received	c. Cost or other basis
1 Livestock: Heifers Purchased For Resale (10)	3,450	2,000
2 Other Items:		
3 Totals	\$ 3,450	\$ 2,000
4 Profit (or loss), subtract line 3, column c from line 3, column b		\$ 1,450

**Part II Farm Deductions—For Cash and Accrual Method Taxpayers**

Do not include personal or living expenses not attributable to production of farm income, such as taxes, insurance, repairs, etc., on your dwelling.

Items	Amount
29 Labor hired	\$ 2,219
30 Repairs, maintenance	1,618
31 Interest	1,862
32 Rent of farm, pasture	87
33 Feed purchased	8,091
34 Seed, plants purchased	143
35 Fertilizers, lime	1,149
36 Machine hire	100
37 Supplies purchased	1,002
38 Breeding fees	339
39 Veterinary, medicine	560
40 Gasoline, fuel, oil	1,025
41 Storage, warehousing	
42 Taxes	1,035
43 Insurance	653
44 Utilities	725
45 Freight, trucking	1,028
46 Conservation expenses	790
47 Land clearing expenses	
48 Pension and profit-sharing plans (see instructions)	
49 Employee benefit programs other than line 48 (see instructions)	
50 Other (specify):	
Advertising	234
Financial Records	83
Farm Org. Dues	175
Death Loss	
Heifer Purch For Resale	225
51 Add lines 29 through 50	\$ 23,143
52 Depreciation (from line 59, Part III)	5,010
53 Total deductions. Add lines 51 and 52	\$ 28,153

**Sales of Market Livestock and Produce Raised and Held Primarily for Sale and Other Farm Income**

Kind	Quantity	Amount
5 Cattle		
6 Calves	33	\$1,658
7 Sheep		
8 Swine		
9 Poultry		
10 Dairy products	5,850 cwt.	32,236
11 Eggs		
12 Wool		
13 Cotton		
14 Tobacco		
15 Vegetables		
16 Grain		
17 Fruits and nuts		
18 Other (specify):		
Hay	32 1/2 Tons	813
<b>OTHER FARM INCOME</b>		
19 Machine work		
20 Patronage dividends		250
21 Per-unit retains		
22 Agricultural program payments:		
(1) Cash		22
(2) Materials and services		160
23 Commodity Credit loans under election (or forfeited)		275
24 Federal gasoline tax credit		68
25 State gasoline tax refund		
26 Other (specify): Crop Ins Proceeds		314
27 Add lines 5 through 26		\$ 35,796
28 Gross profit *(add lines 4 and 27)		\$ 37,246
54 Net farm profit (or loss) (subtract line 53 from 28). Enter here and on line 39, Form 1040. ALSO enter on Schedule SE, Part II, line 4a		\$ 9,093

\* Use amount on line 28 for optional method of computing net earnings from self-employment. (See line 6, Part II, Schedule SE.)

Figure 2. Farm Income and Expenses, Schedule F (Form 1040)

To the extent that the merit of these TI sub-divisions is measured in terms of their ability to transfer directly to a line or section of the tax return, the non-farm TI codes meet the requirements much better than the farm TI codes. While the primary objective of the farm TI sub-divisions is to facilitate detailed analysis of farm income and expenses and to enhance the detection and correction of cash flow and coding errors, it does have tax reporting advantages for some farmers. The complexity of most farms does not allow all the income and expense items to fit into the designated tax categories. It often requires the addition or subtraction of items from one sub-total or the other. If these adjustments become necessary, the possibility of error may be reduced by printing TI totals and the GENERAL sub-totals.

#### Tax Accounting of Items Purchased for Resale

An important part of tax management is cost accounting of livestock and other items purchased for resale; for only the gain from these sales is taxable income. Therefore, accurate retention of the cost of these animals is essential. The Farmer's Tax Guide states that if the farmer is unable to identify the animal sold, he must use the first-in first-out method of identification.<sup>4</sup> Thus, the animal first purchased would be listed as the first animal sold. Also, care must be taken to deduct the cost of an animal in the year of its sale.

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<sup>4</sup>Department of the Treasury, Internal Revenue Service, Farmer's Tax Guide, 1973 Edition, p. 6.

The Livestock Purchased for Resale program was operated on a test basis in 1972 on 15 farms.<sup>5</sup> The primary purpose of this program is to provide a systematic accounting of the disposition of livestock purchased for resale and to compute the gain or margin on these items for tax reporting on a cash basis.

Data required for this program is the same that is normally reported through the Costfinder system with the exception of the cost of purchased livestock which was on hand at the time of first enrollment in the Purchased for Resale Program. If the farmer was enrolled in this program the previous year, it is not necessary to report cost data. The actual cost and date of purchase are stored on the Master Transaction File.

#### Livestock Purchased for Resale Program Printouts

The Livestock Purchased for Resale Program consists of four output sections, 71 through 74, listed in Table X. Section 71, Transaction Journal, prints the input transactions that generate this printout. This section also provides the farmer an opportunity to edit the input data and facilitates his interpretation of the printed results. Section 72 and 73 print the sales and purchases, respectively, of items purchased for resale. Each purchase transaction is given a unique identification number. Each sale transaction processed receives the identification number of the purchase line from which the animals were sold. The ID

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<sup>5</sup>The Livestock Purchased for Resale program was initiated by Ted R. Nelson, Extension Economist, Oklahoma State University, and Larry Langemeier, Extension Economist, Kansas State University. Actual programming was done by Teresa Weixelman, Manhattan, Kansas. Conversion to Oklahoma State University computer and Costfinder system was done by Mike Hardin, Research Assistant.

TABLE X

THE LIVESTOCK PURCHASED FOR RESALE PROGRAM PRINTOUT

COMPUTERIZED-OKLA-ST-FARM-INCOME-AND DETAILED-ENTERPRISE-RECORD-SYSTEM

SECTION	71 -	TRANSACTION	JOURNAL	FARM NUMBER	OK007200	DATE PROCESSED	03/21/73	PAGE	1						
CL	MC	DY	AC	TI	GD	ENT	LOT	EXT	DESCRIPTION	CHECK NO	UNITS	U	PRICE	POUNDS	DOLLARS
6	11	4	11			1	00	12	TRANSFERRED IN		50.00	HEAD			5,250.00
1	11	5	11			12	00		INVENTORY COWS		100.00	HEAD			20,000.00
5	10	8	11			12	00		WEANED CALVES		93.00	HEAD			.00
3	4	61				14	00		SELL BEEF		50.00	HEAD	30.00	50,000.0	15,000.00
0	20	61				14	00		SELL BEEF		49.00	HEAD	29.00	51,450.0	14,920.50
4	13	9	61			14	10		DIED		1.00	HEAD		800.0	.00
6	1	9	61			14	00		DIED		1.00	HEAD		1,000.0	.00
3	4	61				16	00		SELL BEEF		250.00	HEAD	32.00	250,000.0	80,000.00
0	10	64				45	00		SELL PIGS		10.00	HEAD		2,000.0	420.00
0	15	67							SELL GRAIN		10,000.00	BSL		560,000.0	12,200.00
2	15	71				14	00		PURCHASE BEEF		50.00	HEAD	33.00	35,000.0	11,550.00
6	11	71				14	00		PURCHASE BEEF		40.00	HEAD	34.00	24,000.0	8,160.00
12	10	71				14	00		PURCHASE BEEF	CUST2	50.00	HEAD	34.00	40,000.0	12,800.00
12	15	71				14	10		PURCHASE BEEF	CUST2	100.00	HEAD	36.00	40,000.0	14,400.00
1	11	5	71			14	10		IWN		100.00	HEAD		50,000.0	50,000.00
1	11	5	71			14	00		IWN		50.00	HEAD		20,000.0	20,000.00
4	10	71				16	00		PURCHASE BEEF		100.00	HEAD	35.00	50,000.0	17,500.00
12	1	71				16	00		PURCHASE BEEF	CUST2	500.00	HEAD	34.00	300,000.0	102,000.00
1	11	5	71			16	00		IWN		500.00	HEAD		100,000.0	100,000.00
4	10	74				45	00		BUY PIGS		1,000.00	HEAD		30,000.0	10,000.00
5	1	74				45	00		BUY PIGS		100.00	HEAD		4,000.0	2,000.00
4	1	77							PURCH GRAIN		20,000.00	BSL		1,120,000.0	24,000.00

COMPUTERIZED-OKLA-ST-FARM-INCOME-AND DETAILED-ENTERPRISE-RECORD-SYSTEM

SECTION	71 -	TRANSACTION	JOURNAL	FARM NUMBER	OK007200	DATE PROCESSED	03/23/73	PAGE	1						
CL	MC	DY	AC	TI	GD	ENT	LOT	EXT	DESCRIPTION	CHECK NO	UNITS	U	PRICE	POUNDS	DOLLARS
7	15	9	11			14	00		DIED		2.00	HEAD			.00
8	16	4	11			12	00	1	TRANSFERRED OUT		41.00	HEAD			8,118.00
6	23	61				14	10		SALE OF BEEF		99.00	HEAD	31.00	106,900.0	33,759.00
11	1	61				14	00		SELL BEEF		40.00	HEAD	26.00	40,400.0	11,312.00
7	25	61				16	00		SELL BEEF		250.00	HEAD	32.00	275,000.0	88,000.00
9	20	61				16	00		SELL BEEF		100.00	HEAD	31.00	100,000.0	31,000.00
7	10	64				45	00		SELL PIGS		900.00	HEAD		180,000.0	45,000.00
7	16	67							SELL GRAIN		5,000.00	BSL		280,000.0	8,750.00
7	12	71				14	10		PURCHASE BEEF		100.00	HEAD	37.00	40,000.0	14,800.00
9	13	71				14	10		PURCHASE BEEF		225.00	HEAD	38.00	67,500.0	25,650.00
11	16	71				14	10		PURCHASE BEEF		110.00	HEAD	35.00	55,000.0	19,250.00
11	14	71				16	00		PURCHASE BEEF		600.00	HEAD	35.00	360,000.0	126,000.00

TABLE X (Continued)

SECTION 72 - SALES OF ITEMS PURCHASED FOR RESALE										FARM NUMBER UK007200			DATE PROCESSED 03/20/73 PAGE 2								
*****SALE TOTAL*****										PER UNIT		**PER UNIT GAIN**		TOTAL SALE GAIN							
DATE	10	ATI	ENT	LCT	HEAD	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS						
07/25/73	1	61	16	00	250.00	275,000.00	88,000.00	1,100	352.00	500	148.00	125,000.00	37,000.00								
08/23/73	3	61	14	10	99.00	108,900.00	33,759.00	1,100	341.00	700	197.00	69,300.00	19,503.00								
09/20/73	5	61	16	00	100.00	100,000.00	31,000.00	1,000	310.00	500	135.00	50,000.00	13,500.00								
11/01/73	6	61	14	00	40.00	40,400.00	11,312.00	1,010	282.60	410	78.80	16,400.00	3,152.00								
07/10/73	7	64	45	00	900.00	180,000.00	45,000.00	200	50.00	170	40.00	153,000.00	36,000.00								
07/19/73	9	67			5,000.00	280,000.00	6,750.00	56	1.35		.15		750.00								
TOTAL SALES					6,389.00	984,300.00	215,821.00														
*****PURCHASE TOTAL*****										PER HEAD		*****SALES*****		TOTAL HEAD							
DATE	10	ATI	ENT	LCT	UNITS	POUNDS	DOLLARS	POUNDS	DOLLARS	PREV PD	CRT PD	TOT SOLD	DEATHS	UN HAND							
12/01/72	1	71	16	00	900.00	300,000.00	102,000.00	600	204.00	290	290	500									
12/10/72	2	71	14	00	50.00	40,000.00	12,800.00	800	256.00	50		50									
12/15/72	3	71	14	10	100.00	40,000.00	14,400.00	400	144.00	1	99	100									
02/15/73	4	71	14	00	50.00	35,000.00	11,550.00	700	231.00	50		50									
04/10/73	5	71	16	00	100.00	50,000.00	17,500.00	500	175.00		100	100									
06/11/73	6	71	14	00	40.00	24,000.00	8,160.00	800	204.00			40									
07/12/73	10	71	14	10	100.00	40,000.00	14,800.00	400	148.00					100							
09/13/73	11	71	14	10	225.00	67,500.00	25,650.00	300	114.00					225							
11/14/73	13	71	16	00	600.00	360,000.00	126,000.00	600	210.00					600							
11/16/73	14	71	14	10	110.00	55,000.00	19,250.00	500	175.00					110							
04/10/73	7	74	45	00	1,000.00	30,000.00	10,000.00	30	10.00	10	900	910		90							
05/11/73	8	74	45	00	100.00	4,000.00	2,000.00	40	20.00					100							
04/01/73	9	77			20,000.00	1,120,000.00	24,080.00	56	1.20	10,000	5,000	15,000		5,000							
TOTAL PURCHASES					22,975.00	2,165,500.00	388,110.00														
SALE GAIN TABLE										CURRENT PERIOD GAIN		PREV PER GAIN		TOTAL TO DATE GAIN		TOTAL TO DATE					
T1	ITEM	HEAD	POUNDS	DOLLARS	POUNDS	DOLLARS	UNITS	POUNDS	DOLLARS	SALE DOLLARS	SALE DOLLARS	PUR. DOLLARS	PUR. DOLLARS								
61	BEEP	489.00	260,700.00	73,155.00	34,426.50	840.00	388,550.00	107,581.50	273,991.50	186,440.00	186,440.00										
64	SWINE	900.00	133,000.00	36,000.00	320.00	910.00	154,700.00	36,320.00	45,420.00	9,100.00	9,100.00										
67	GRAIN	5,700.00	753.00	200.00	15,000.00	200.00	15,000.00	950.00	18,950.00	18,000.00	18,000.00										
TOTAL GAIN		6,389.00	413,700.00	109,905.00	34,946.50	16,750.00	543,250.00	144,851.50	338,361.50	193,540.00	193,540.00										
SECTION 74 - LIVESTOCK INVENTORY TABLE										WEANED		TRANSFER IN		TRANSFER OUT		DIED		SOLD		ON HAND	
ENT	INVENTORY	HEAD	POUNDS	WEANED	TRANSFER IN	TRANSFER OUT	HEAD	POUNDS	HEAD	POUNDS	HEAD	POUNDS	HEAD	POUNDS	HEAD	POUNDS	HEAD	POUNDS	HEAD	POUNDS	
1200				93.0	50.0	41.0							2.0							100.0	
1400			90.0										1.0	139.0						50.0	
1410			432.0										1.0	99.0						333.0	
1600			700.0											600.0						100.0	
4000			1,100.0											910.0						190.0	
C100																				9.0	
TOTAL			2,325.0	93.0	91.0	91.0							4.0	1,748.0						666.0	

number printed in Section 72 indicates which purchase line was used to calculate gain per head.

The last section of the Purchase for Resale Program, Section 74, Livestock Inventory Table, appears in Table X. All livestock items, whether raised animals, capital livestock, or items purchased for resale are included in this table. For each enterprise, total head inventoried, purchased, weaned, transferred in and out, died, sold, and remaining on hand are printed.

#### Operational Problems

In the Costfinder system, internal transfers are used to transfer items or to adjust totals among the different enterprises within a farm. For example, a breeding enterprise should be credited when raised animals are internally moved to a fattening enterprise, or an item which has been recorded in the overhead enterprise can be subtracted from overhead and added to any other enterprise. In either case, the proper total is algebraically increased or decreased by a specified amount. However, if animals are internally transferred in the Purchased for Resale Program, a new line entry is created. If heifers purchased for resale are transferred into a cow-calf enterprise to become replacements, the purchase line must be deleted from the purchase table. Logic changes are designed to allow transfer of animals into a purchased for resale enterprise, among two enterprises, or out of a purchased for resale enterprise. If "PURCH" is coded in the acres column of an internal transfer, the proper adjustments are made to the purchase or sale table of the program, otherwise, the internal transfer transaction effects only the Livestock Inventory Table, Table X.

### Correction Procedures

While the Farmer's Tax Guide allows identification of items purchased for resale on a first-in first-out basis, some farmers identify specific purchase and sale transactions. For these farmers, the correction logic in the original program does not allow correction of a specific transaction unless it happens to be the first one that matches TI and Enterprise code.

Changes in the program logic allow corrections based on the following procedure: when a transaction is read into the purchase table it is assigned a unique identification number. If this identification number is included in the correcting entry, a specific input transaction can be corrected or internally transferred by matching its identification number.

If the identification number is not reported for a correction or internal transfer, the first-in first-out correction logic will be used.

Because of the problems encountered in the purchased for resale program, a substantial portion of the logic has been rewritten to allow internal transfer and correction of a specific sale or purchase line.

### Depreciation Analysis

Computation of depreciation is probably one of the most complicated procedures faced by farmers. Depreciation methods, holdings periods, investment credit, capital gain, and remaining basis are just a few of the terms that must be understood to report deductible depreciation expenses. Since it is beyond the scope of this study to explain the

depreciation program in detail, the object of further discussion is to explain the procedure for data reporting, to indicate some of the depreciation alternatives available to the Costfinder cooperator, and to discuss the output information provided by the Costfinder depreciation program.<sup>6</sup>

When a farmer enrolls in the Costfinder program, he must report all land, machinery, buildings, and breeding livestock on the Capital Asset Depreciation Schedule, Figure 3. The capital asset depreciation divider in the Costfinder notebook explains each column of the input form. This divider also lists the different depreciation alternatives available. Starting depreciation information is reported only once. After this data is completed, any other information required such as sales, purchases, trades, and losses of capital assets is gleaned from the periodic income and expense data.

As mentioned earlier, all data transactions reported are stored on the Master Transaction File. After the third quarter or ninth month of input data has been processed, the Master Transaction File is read by the Capital Strip program which prints only the sales, trades, losses, and new purchases of capital assets. Table XI shows a sample output of this program.

This output is mailed to the farmer in October regardless of the number of months of data the farmer has reported. Errors, omissions,

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<sup>6</sup>The Depreciation program was initiated in 1966 by Ted R. Nelson, Extension Economist and programmed by Oakley Hall, student programmer. Frequent tax law changes require almost yearly modifications. The changes have been done by Mike L. Hardin, Research Assistant, and Dan Hardin, student programmer.



**CAPITAL ASSET DEPRECIATION SCHEDULE**

(Land, Machinery, and Buildings; Breeding and Workstock)

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

Year \_\_\_\_\_

Page \_\_\_\_\_ of \_\_\_\_\_ pages

Line	Oper	Lid	Acct	CODE				Ent	Lot	Beg. Yr.	DESCRIPTION	Units	1	2	3	4		5	6
				Gen	Dat	Date Bought	Orig. Cost						Sal- vage	7% or 20%	Met Used	Est. Life	Ann. Depr.	Value Beg. of Year	
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
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CF 2

Figure 3. Input Form for Capital Assets

TABLE XI

SECTION 6, SALES, TRADES, AND LOSSES

COMPUTERIZED-OKLA-ST-FARM-INCOME-AND-DETAILED-ENTERPRISE-RECORD-SYSTEM

SECTION 6 SALES, TRADES AND LOSSES FOR 1972										FARM NUMBER 0072		1972 DATA		DATE PROCESSED 03/20/73		PAGE 1	
CL	PC	BY	AC	TI	GD	EN	US	LOT	EXT	DESCRIPTION	OLD ASSET	UNITS	Q	NEW ASSET	POUNDS	DOLLARS	
4	30	9	62	50	1	4	00			PUR HFR DIED	****	1.00	HD		325.00	225.00	
8	14	9	62	50	2	1	00			RESALE HFR DIED	****	1.00	HD			225.00	
12	23		62	50	2	1	00			DAIRY COW SOLD	****P0146****	1.00	HD		1,200.00	298.00	
4	4		62	85	2	1	00			DAIRY COW SOLD	****P0162****	1.00	HD		1,200.00	164.00	
10	1		62	85	2	1	00			DAIRY COW SOLD	****P0148****	1.00	HD			200.00	
3	17	3	66	30	7	0	00			TRACTOR TRADED	****P118****			****00133****		2,400.00	
1	6		66	31	2	0	00			TRACTOR SOLD	****P0116****					700.00	
2	18		67	82						MOWER SOLD	****P0117****					70.00	

ASSET	UL	ASSET-CODE*	DESCRIPTION	BG	BOUGHT	BOOT	SALVAGE	7 OR 20	METHOD	EST. LF.	GIVEN DEPR.
PG LN	PL	A 11 GD EULT	OF ASSET	YR	OR MO YR	PAID	VALUE	CODE	USED DC.	CODE	OR % D.B.
6	92	70	2100 DAIRY BULL	72	1 6 72	800.00					
6	52	80	2154 DAIRY COW	72	4 1 72	500.00					
6	52	80	2100 DAIRY COW	72	3 2 72	500.00					
6	92	80	2100 DAIRY COW	72	1 9 72	500.00					
6	56	20	2000 PUMP-UP	72	1 3 72	4,500.00					
6	56	34	TRACTOR PURCHASE	72	12 3 72	1,800.00					
6	96	51	7000 PURCHASE COMBINE	72	6 4 72	4,821.00					
6	47		MACHINE LOAN	72	73 72	4,000.00					
6	98		GRAIN BIN LOAN	72	73 72	570.00					

or duplications of sales, trades, and losses can be corrected at this time. Also the farmer may provide salvage value, 7 or 20 code, method used, and estimated life for the capital assets purchased this year. When this completed Section 6 is mailed back to the processing center, a preliminary depreciation schedule can be processed. The farmer can also report this information on the Capital Asset Depreciation Schedule input form and have the same effect. The object of running a preliminary depreciation schedule is to give the farmer an estimate of his depreciation based on data received. This represents one more piece of information needed to estimate taxable income for the year. The timing of this information allows the farmer to make business decisions before the end of the year to maximize net income after taxes.

When all data for the fiscal year has been processed for a farm, the sales, trades, losses, and purchases that have been reported since the preliminary depreciation are printed and mailed to the farmer for correction. Based on this new information, decisions can be made concerning final depreciation.

Table XII is a sample of Section 7 through 9, Capital Asset Depreciation Output. Section 7 provides a list of all capital assets. The information reported on the input form, Figure 3, is reprinted. In addition, THIS YEARS DEPREC which is the amount of depreciation allowed for this fiscal year is also printed. ENDING VALUE is the BEGIN VALUE less THIS YEARS DEPREC. The appearance of an "R" at the right of ENDING VALUE indicates the remaining basis of an item leaving the depreciation schedule through sale, trade, or loss. The last column, TAX CREDIT, is the amount of seven percent tax credit attributable to the particular item.

TABLE XII

THE CAPITAL ASSET DEPRECIATION PROGRAM PRINTOUT

COMPUTERIZED-OKLA-ST-FARM-INCOME-AND-DETAILED-ENTERPRISE-RECORD-SYSTEM

SECTION 7 ASSET DEPRECIATION		FARM NUMBER JK007200		1972		DATE PROCESSED 03/20/73		PAGE 1							
CAPITAL ASSET DEPRECIATION SCHEDULE				(FROM OLD TAX DEPRECIATION SCHEDULE)				ERROR CODES EXPLAINED FOLLOWING SECTION XIV							
ASSET PG LN	CL PL	ASSET-TI GD	CGDEP EULT	DESCRIPTION OF ASSET UNITS	BG YR	BOUGHT DY MO	SOLD YR DY MO	ORIGINAL COST	SALVAGE VALUE	7 M U	ES LF	GIVEN DEPREC	BEGIN THIS YEARS VALUE	ENDING DEPREC VALUE	TAX CREDIT
1 30	6 96	11		CAN FARMSHARE	72	7 1 71		1900.00	500.00	1 1	4	350.00	1550.00	350.00	1200.00 N
1 1	6 98	11	2000	BARN	72	8 1 64		6400.00		1 25		256.00	4352.00	256.00	4096.00
1 2	6 98	61	2000	FENCES	72	8 1 64		1280.00	60.00	4 10		120.00	300.00	120.00	180.00
1 3	6 98	31	2000	SILO	72	2 7 67		4560.00		3 4 15		306.00	3192.00	304.00	2888.00 88.20 A
1 4	6 98	11		GRAIN BINS	72	12 27 69		3185.00	200.00	3 1 15		199.00	2787.00	199.00	2588.00 A
1 16	0 96	31	2000	TRACTOR	72	25 6 64	6 1	4390.00	390.00	4 8		500.00	640.00	640.00	
1 17	0 97	82		MOWER	72	25 4 65	18 2	390.00	30.00	9 6		60.00	30.00	30.00	
1 18	3 96	33	7000	TRACTOR	72	30 3 68	17 3	4000.00	350.00	3 1 10		400.00	2500.00	100.00	2400.00 186.67-
1 20	0 97	94		FUEL TANKS	72	10 4 69		820.00		1 20		41.00	707.25	41.00	666.25 57.40 A
1 31	6 96	20	7000	TRUCK	72	10 1 71		2418.00	150.00	2 2 6			1761.20	174.91	1174.19 N
1 40	0 92	80	2100	DAIRY COW	72	27 2 70	23 12	400.00	125.00	1 5			299.00	55.00	244.00
1 47	0 92	80	2100	DAIRY COW	72	29 6 70	4 7	400.00	125.00	1 5			317.00	27.50	289.50
1 48	0 92	84		DAIRY COW	72	11 5 70	1 10	500.00	150.00	1 4 5		70.00	232.00	52.50	179.50
1 49	6 92	10	2150	DAIRY CALF	72	8 1 71		125.00	125.00	9 7			125.00	125.00	
1 50	6 92	80	2100	DAIRY COWS	310	72 1 2 68		0.00	1200.00	9 4			1200.00	1200.00	
1 61	0 52	60	2154	DAIRY COW	72	4 10 71		500.00	150.00	1 5			482.00	70.00	412.00 23.33 A
2 1	0 96	20		TRUCK	72	1 8 56		2000.00	100.00	9 10			100.00	100.00	
2 2	6 96	32	7000	TRACTOR	72	8 6 69		4900.00	350.00	9 6			350.00	350.00	
2 3	0 56	60	7000	SWATHER	72	18 2 67		2181.00	115.25	1 9			1071.66	229.52	842.14 152.67 A
2 4	6 97	41	7000	PLOW	72	8 6 65		600.00	50.00	9 6			50.00	50.00	28.00 A
2 5	6 97	43	7000	DISC	72	8 6 65		850.00	50.00	9 6			50.00	50.00	30.33 A
2 6	6 97	41	7000	GRAIN DRILL	72	1 8 64		800.00	100.00	9 6			100.00	100.00	37.33 A
2 7	6 97	40	7000	ROLLER-HARROW	72	1 6 66		800.00	100.00	9 5			100.00	100.00	37.33 A
2 9	6 98	10		BARN	72	1 1 70		3200.00		1 25		128.00	2994.00	128.00	2866.00
2 10	6 98	61		FENCES	72	1 1 67		793.00	85.00	4 6		118.00	118.00	33.00	85.00 37.00 A
2 11	6 92	80	2100	DAIRY COWS	020	72 8 1 65		6000.00	1800.00	9 6			1800.00	1800.00	
2 12	6 92	80	2100	DAIRY COWS	010	72 5 1 65		4000.00	1000.00	9 5			1000.00	1000.00	
2 13	6 92	80	2100	DAIRY COW	72	12 3 71		434.00	150.00	1 5			236.86	56.80	190.06
2 14	6 92	80	2100	DAIRY COW	72	12 3 71		250.00	56.33	1 4			145.00	48.41	95.59
1 32	6 96	51	7000	COMBINE	72	6 4 72		4821.00	400.00	6 1 10			259.26	3597.54	337.47 T
20 PERCENT FIRST YEAR DEPRECIATION TAKEN ON ABOVE ASSET 964.20															
TRADED ITEM PAGE AND LINE 0118 REMAINING BASIS OF 2400.00 HAS BEEN TRADED ON FOLLOWING ASSET															
LAST DOLLAR PAID ON FOLLOWING ASSET WAS 1800.00															
1 33	6 96	34		TRACTOR PURCH	72	17 3 72		4200.00	350.00	6 1 8			327.19	3512.81	294.00 T
20 PERCENT FIRST YEAR DEPRECIATION TAKEN ON ABOVE ASSET 300.00															
1 62	0 92	80	2150	DAIRY COW	000	72 4 1 72	4 4	500.00	150.00	1 5			500.00	500.00	
1 63	0 92	84	2100	DAIRY COW	72	3 2 72		500.00	150.00	1 5		70.00	64.17	435.83	11.66
1 64	6 92	74	2100	DAIRY BULL	72	1 6 72		800.00	200.00	1 1 4		150.00	87.50	712.50	18.66
1 65	6 92	64	2100	DAIRY COW	72	1 9 72		500.00	150.00	1 1 5		70.00	23.34	476.66	11.66
2 2	6 96	20	2000	PICK-UP	72	1 3 72		4000.00	200.00	1 1 0			316.66	3683.34	280.00 A

TABLE XII (Continued)

SECTION 8 DEPRECIATION TOTALS				FARM NUMBER	1972	DATE PROCESSED	PAGE			
ASSET DESCRIPTION	ITEM CODE	ORIGINAL COST	BEGIN VALUE	STR-LINE DEPREC	DECL-BAL DEPREC	SUM-OF-DGT DEPREC	ACC-FST-YR DEPREC	THIS YEARS DEPRECIATION	THS-YRS-TAX CREDIT	ENDING VALUE
OPERATORS DEPRECIATION TOTALS										
DAIRY BREEDING STOCK	2	14,905.00	5,836.86	485.22				485.22	41.98	6,438.64
VEHICLES, SP EQUIP	6	33,910.00	7,972.86	1,582.63	577.01		1,324.20	3,493.84	911.47	14,460.02
MACHINERY	7	4,060.00	1,037.25	41.90				41.90		986.25
BUILD, FENCE, LND IM	8	19,396.00	13,743.00	1,040.00				1,040.00		12,703.00
OPERATOR TOTALS		72,277.00	20,589.97	3,148.85	577.01		1,324.20	5,016.04	953.45	34,567.91
LANDLORDS DEPRECIATION TOTALS										
LANDLORD TOTALS										
WHOLE FARM DEPRECIATION TOTALS										
DAIRY BREEDING STOCK	2	14,905.00	5,836.86	485.22				485.22	41.98	6,438.64
VEHICLES, SP EQUIP	6	33,910.00	7,972.86	1,582.63	577.01		1,324.20	3,493.84	911.47	14,460.02
MACHINERY	7	4,060.00	1,037.25	41.90				41.90		986.25
BUILD, FENCE, LND IM	8	19,396.00	13,743.00	1,040.00				1,040.00		12,703.00
WHOLE FARM TOTALS		72,277.00	20,589.97	3,148.85	577.01		1,324.20	5,016.04	953.45	34,567.91

REPORTED DISPOSAL OF ASSET HAS NOT BEEN RECOGNIZED 33007200081496250210000RESALE HFR DIED 00000000010010000000000000000000022500

SECTION 9 GAINS AND LOSSES FROM SALES AND TRADES													FARM NUMBER	1972	DATE PROCESSED	PAGE
ASSET	ASSET-CODE	DESCRIPTION	NUM BOUGHT	SOLD	SALE	ORIGINAL	TOT DEPREC	ADJUSTED	ORDINARY	CAPITAL	***SECTION	1265**				
PG LN	ATIGD	EULT	NU DY MO	YR DY MO	PRICE	COST	TAKEN	BASIS	GAIN	GAIN	ORD.GAIN	CAP.GAIN				
1 16	08631	2000 TRACTOR	25 6 64	6 1	700.00	4390.00	3750.00	640.00	60.00							
1 17	08782	MOWER	25 4 65	18 2	70.00	390.00	367.00	30.00	40.00							
1 18	38633	7000 TRACTOR	30 3 68	17 3		4000.00	1600.00	2400.00								
1 46	06280	2100 DAIRY COW	27 2 70	23 12	208.00	400.00	156.00	244.00		36.00-						
1 47	08280	2147 DAIRY COW	29 6 79	4 7	89.00	400.00	110.50	289.50		200.50-		20.50				
1 48	08284	DAIRY COW	11 5 70	1 10	200.00	500.00	320.50	179.50								
1 62	06280	2159 DAIRY COW	000 4 1 72	4 4	164.00	500.00		500.00	336.00-							
TOTAL-GAIN BROKEN DOWN INTO 3 PARTS AS ON SCHEDULE D AND TOTAL LOSS									236.00-	236.50-	20.50					

TAX CREDIT TO BE RECAPTURED IS \$186.67

EXPLANATION OF ERROR CODES

A = TAX CREDIT ALLOWABLE BUT WAS NOT SPECIFIED IN \* 7 OR 20 \* CODE

B = BEGINNING YEAR IS BLANK OR GREATER THAN 1972

C = CODE IS INCOMPLETE FOR CLASSIFICATION OF ASSET

I = INSURANCE ADJUSTMENT. REDUCE LINE 3d ON CASH-FLWS ACCORDINGLY FOR TAX PURPOSES.

L = LIFE SPECIFIED IS INCONSISTANT WITH \* 7 OR 20 \* CODE

M = MORE UNITS CALLED ON SALE ENTRIES THAN WERE PRESENT ON THIS DEPRECIATION LINE

N = TAX CREDIT NOT ALLOWABLE BECAUSE ITEM WAS PURCHASED BEFORE 1962 OR BETWEEN APRIL 18, 1969 AND APRIL 1, 1971

R = REMAINING BASIS OF ITEM SOLD, TRADED, OR LOST

T = 20 PERCENT FIRST YEAR DEPRECIATION WAS REPORTED

U = PROGRAM DOES NOT HANDLE SPLIT OF CAPITAL AND ORDINARY GAIN ON LIVESTOCK SOLD USING SUM-OF-YEARS-DIGITS DEPRECIATION

V = INSUFFICIENT INFORMATION TO CALCULATE SPLIT OF CAPITAL AND ORDINARY GAIN FOR LIVESTOCK DEPRECIATED TO ITS SALVAGE VALUE

Farmers can choose the order in which the assets appear. They can be sorted to ascending order according to the four-digit TIGD code or sorted to appear in ascending order according to the page and line number. An asset receives a unique identification from either the capital asset input form or from the information returned on the Section 6, Sales, Trades, and Losses.

Section 8, Depreciation Totals, lists summary totals for all items in Section 7 which have the same ITEM CODE.<sup>7</sup> Some of the ITEM CODES include beef, dairy, sheep, and swine breeding stock, vehicles, machinery, and buildings.

Gains and Losses from Sales and Trades, Section 9, summarizes the items which should be reported on Schedule D (Form 1120), Figure 4. An explanation of the error codes that appear after the tax credit amount in Section 7, is in Table XII.

Programming changes in this chapter were given top priority. The value of these changes are difficult to measure until the new versions have been used. If these modifications and new programs improve the organization, readability, and understanding of the output generated, one objective has been met. In this case, the logic of the programs would not have been disturbed if the changes were not considered to be a substantial improvement.

The capital asset depreciation program is designed to provide all necessary tax and management information about currently held, purchased, sold, and traded capital and raised assets. Programming changes in the

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<sup>7</sup> ITEM CODE is the second digit in Costfinder code.

SCHEDULE D (Form 1120) Department of the Treasury Internal Revenue Service

Capital Gains and Losses

For the calendar year 1972, or other taxable year beginning 1972, and ending 19

1972 143

Name James A. and Jane W. Brown Employer Identification Number

Part I Short-term Capital Gains and Losses—Assets Held 6 Months or Less

Table with 6 columns: a. Kind of property and description, b. Date acquired, c. Date sold, d. Gross sales price, e. Cost or other basis and expense of sale, f. Gain or (loss). Includes entries for Bad Debt and H.T. Corp. Stock.

Part II Long-term Capital Gains and Losses—Assets Held More Than 6 Months

Table with 6 columns: a. Kind of property and description, b. Date acquired, c. Date sold, d. Gross sales price, e. Cost or other basis and expense of sale, f. Gain or (loss). Includes entry for H.T. Corp. Stock.

Part III Summary of Schedule D Gains and Losses

Summary rows for lines 7, 8, and 9.

Part IV Alternative Tax Computation (See Instructions)

Table with 25 rows detailing alternative tax computation steps from line 10 to line 25.

Figure 4. Capital Gains and Losses, Schedule D (Form 1120)

cash flow summary allow simpler transfer of non-farm as well as farm expenses to the tax forms. The livestock purchased for resale program allows cost accounting of items to be resold. Also the inventory table allows a numbers check on all livestock.

If these types of modifications improve the farmer's ability to make management decisions which maximize after tax income, the objectives of this chapter will be accomplished.



## CHAPTER IV

### THE YEAR-END ANALYSIS PROGRAM

Income and expense transactions are only part of the input data required to obtain complete financial information. Other necessary data include inventories, accounts payable and receivable, and depreciation. This chapter will elaborate on these data sources and the importance of their accuracy.

The reorganization of the year-end analysis program is designed to: (1) reduce the duplication of results, (2) improve readability of the output by reducing the amount of information on each page, (3) restructure the output so that all whole-farm analysis factors are printed together and all analysis factors applying to an individual enterprise will be printed on one or two consecutive pages.

Included in financial and production analysis is the comparison of farms on a state, geographical and area, or type of farm basis. Comparisons, whole-farm and enterprise, formats, and new output sections will be discussed in this chapter.

#### Input Data

The data required by the year-end analysis program comes directly or indirectly from the balance brought forward and master transaction files which are created by the periodic report program.

The master transaction file is an exact copy of each eighty character card plus ten characters for the date processed. Each data item reported is stored on this file. At the end of the farmer's fiscal year, auxiliary programs read this master file to generate card input of only those data items needed for the analysis program.

Seven types of data records are kept on the balance brought forward file; however, only three are used as input to the year-end analysis program. The first record, farm header, provides a unique identification number and the accounting basis, cash or accrual. The second record contains cash flow totals for each type of transaction for the total farm. The third data record contains income and expense totals for each individual enterprise. Both whole-farm and enterprise TI totals include the number of units, such as bushels, head or tons, and the total number of pounds and dollars.

#### Machinery and Labor Data

The allocation of machinery and labor costs to a specific enterprise is a necessary part of the financial enterprise analysis. According to the Machinery and Labor Input Form, Figure 5, the Costfinder system requires the reporting of the job performed, the tractor used, the size of the machine used, the acres covered, the man hours, the machine hours, and the gallons and type of fuel used.

#### Depreciation Cost Data

While the depreciation program is computing and printing the report of capital asset depreciation, it also computes and punches cards containing data for the year-end analysis program. One card

MACHINERY & LABOR USE REPORT

Farm No. \_\_\_\_\_  
 Qtr. (Year) \_\_\_\_\_  
 Page \_\_\_\_\_ of \_\_\_\_\_ pages

Line	Oper	Lid	Month	Day	Acct	Tran	Item	Gen	Dist	Ent	Lot	Wkr. #	Job Performed	Tractor		Machine Size	Sz Code*	Acres Covered	Man Hours	Machine Hours	Gal. of Fuel	Type**	
														Unit No.	H.P.								
1																							
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							
13																							
14																							
15																							
16																							
17																							
18																							
19																							
20																							

Issued in furtherance of Cooperative Extension work, acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture, J. C. Evans, Vice President for Extension, Cooperative Extension Service, Oklahoma State University, Stillwater, Oklahoma.

\*1 Head  
 2 Bushels  
 3 Tons

4 Foot  
 5 Gallons  
 6 Row  
 7 Bottoms

\*\*1 = Gasoline  
 2 = Propane  
 3 = Diesel Fuel  
 4 = Tractor Fuel  
 5 = Natural Gas

CF 4

Figure 5. Machinery and Labor Input Form

is punched for each type of asset for each enterprise. All depreciation for this program is taken by declining balance method from the year purchased unless the item had been depreciated out or cost data was unavailable. Machinery is depreciated at twenty percent while buildings are depreciated at ten percent. Analysis depreciation data does not include depreciation on livestock or land since these items are inventoried at the beginning of each year.

#### Non-Cash Transactions

Accounts payable and receivable are stored on the balance brought forward file. The Costfinder program, "Balance Due Consolidation," uses the balance brought forward file as input to provide an automatic card input of accounts payable and receivable for the analysis program.<sup>1</sup> Each account is listed on paper and mailed to the farmer as soon as the last data for his fiscal year has been processed. The farmer can correct possible errors in this listing and return it to the processing center. This completes the reporting of charged business and loans for the year-end analysis program.

#### Inventory and Other Data

Other data necessary for analysis includes inventory, births, crop reports and casualty losses. All of these items should have been reported with the monthly income and expenses at some time during the year. These and all other transactions are stored on the master

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<sup>1</sup>The balance due consolidation program was developed in 1966 by Ted R. Nelson, Extension Economist and programmed by Oakley Hall, student programmer.

transaction file which is used as input to the Costfinder program, Analysis Strip. Analysis Strip provides card input of opening and closing inventory, births of livestock, reports of crop production, and casualty losses. Also a paper listing of these transactions is mailed to the farmer for corrections, additions, or deletions. When these procedures have been completed, the year-end analysis is ready to be processed. If adjustments are required, the internal transfer entry can be used to allocate expenses among enterprises or transfer an incorrect overhead expense to the proper enterprise. Card entries of this nature can be placed directly into the analysis program and need not be processed by the monthly report program. It is possible that the year-end analysis program will be run more than once. Since most input data is in card form, changes can be made easily.

#### Explanation of Output Sections That Do Not Change

A good understanding of the data sources and their effect on the year-end analysis is important to make use of information generated by this program.<sup>2</sup> The following will explain the whole farm sections of analysis.

Section 10, Table XIII, Analysis Transaction Journal lists all data that has been used to generate the analysis output. Division A lists the data taken from the Balance brought forward file. It includes the cash flow totals for the entire year for each TI category. The next division B, Data Taken From Input cards, lists the data cards

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<sup>2</sup>The year-end analysis program was initiated in 1966 by Ted R. Nelson, Extension Economist. Original programming was done by Oakley Hall, student programmer. Revisions and modifications since that time were completed by Mike L. Hardin, Research Assistant.

TABLE XIII

THE YEAR-END ANALYSIS PROGRAM PRINTOUT

COMPUTERIZED-OKLA-ST-FARM-INCOME-AND-DETAILED-ENTERPRISE-RECORD-SYSTEM

SECTION 10 ANALYSIS TRANSITION JOURNAL FARM NUMBER PK0072 1972 DATA PROCESSED 03/20/73 PAGE 1  
 CASH TAXPAYER FM UTL PC= FM AUTO PC= UPER LAB UNPD M= FAML LAB UNPD M= HIRED PD LAB M= 0.0 TOT ACRES= 550.0

DL MO DY AC TI GO EN US LUT EXT DESCRIPTION CHECK NO UNITS Q \* PRICE POUNDS DOLLARS

DIVISION A DATA TAKEN FROM STORAGE TAPE

DL	MO	DY	AC	TI	GO	EN	US	LUT	EXT	DESCRIPTION	CHECK NO	UNITS	Q	PRICE	POUNDS	DOLLARS
02										PRINCIPAL RECEIVED					25,365.55	
06										PRINCIPAL PAID OUT					24,441.68	
11										BEEF		21.00		14,422.0	5,839.62	
15										OTHER LIVESTOCK		2.00			895.00	
19										CASH CROPS				15,643.0	1,965.62	
35										PATRONAGE REFUNDS					18.75	
36										AGRI. PROGRAM PAYMENTS					1,441.09	
37										TAX REFUNDS					15.18	
41										LABOR					2,347.03	
42										REPAIRS		15.00			393.53	
43										INTEREST					3,461.54	
44										FEED				4,300.0	160.25	
45										SEEDS AND PLANTS				3,971.0	1,227.57	
46										FERTILIZER-LIME-CHEM		16.75		89,244.0	3,177.92	
47										MACHINE HIRE		658.00			3,160.26	
48										SUPPLIES		120.00		50.0	763.97	
50										MISCELLANEOUS EXPENSE		11.00			1,143.07	
51										VETERINARY-MEDICINE		4.00			270.44	
52										GAS-FUEL-OIL		1,040.90			232.39	
54										TAXES					543.14	
55										INSURANCE					235.04	
56										UTILITIES(LEC,PHONE)					230.73	
57										FARM RENT					330.64	
58										FREIGHT-TRUCKING		585.00			258.96	
59										CONSERVATION EXPENSE					1,598.00	
61										BEEF		45.00		31,769.0	13,018.62	
71										BEEF		45.00			6,762.73	
81										BEEF BREEDING STOCK		13.00		13,064.0	3,486.69	
85										OTHER LIVESTOCK		3.00			1,810.00	
91										BEEF BREEDING STOCK		2.00		1,200.0	850.00	
97										MACHINERY - EQUIPMENT					850.00	
1										RENTAL INCOME					330.64	
20																

DIVISION B DATA TAKEN FROM INPUT CARDS

DL	MO	DY	AC	TI	GO	EN	US	LUT	EXT	DESCRIPTION	CHECK NO	UNITS	Q	PRICE	POUNDS	DOLLARS
74	1	02						1		LIAN	00000				25,581.45	
74	1	02	99					2		LAND LIAN	00000				17,850.00	
72	1	06						1		EQUITY RES	00000				1,187.30	
72	1	06						1		PCA STOCK	00000				1,985.00	
72	1	06						2		STK IN FLB	00000				1,050.00	
72	1	06						22		BANK CREDI	00000				4.99	
72	1	06						23		L COOP 67	00000				8.08	
72	1	06						24		ATK SN STOC	00000				120.00	
72	1	06						27		BR CR BY C	00000				35.75	
72	1	06						27		STK E CASH	00000				54.00	
72	1	06	4					22		08 CAP C&E	00000				7.95	
72	1	41						93		01/01/72	00000				54.61	
72	1	46						5		01/01/72	00000				194.94	
72	1	54						28		01/01/72	00000				463.12	
72	1	57						26		01/01/72	00000				330.64	
72	5	10								CASH CR HAND					1,141.06	
72	5	11				1	1	00		CALVES		7.00	HO		730.0	280.00
72	5	11				1	1	3	00	STKR STRS		15.00	HO	.38	7,500.0	2,850.00
72	5	11				2	1	3	00	STKR HFRS		23.00	HO	.34	10,925.0	3,714.50
72	5	15				4	5	4	00	GELDING		1.00	HO		1,000.0	250.00

TABLE XIII (Continued)

SECTION 1C ANALYSIS TRANSACTION JOURNAL										FARM NUMBER 000072		1972 DATA PROCESSED 03/20/73		PAGE 2		
DL	ML	BY	AL	F1	CO	EN	US	LJI	EXT	DESCRIPTION	CHECK NO	UNITS	W	PRICE	POUNDS	DOLLARS
										W-B-RYE GRWNG		175.00	ACR	10.00		1,750.00
										WHEAT GRWNG		8.00	ACR	10.00		80.00
										ALF GRWNG		25.00	ACR	30.00		750.00
										ALF HAY ON HAND		800.00	BLS	1.00	48,000.0	800.00
										P-NUT ALLGT		7.10	ACR			710.00
										REG ANG BULL		9.00	HD	150.00	6,300.0	1,440.00
										REG ANG BULL		1.00	HD		1,600.0	515.00
										CUNS		40.00	HD	160.00	36,400.0	6,400.00
										REG QTR MAKES		2.00	HD		2,200.0	1,000.00
										HAY HACKS		5.00				200.00
										LANDING MATS		40.00				160.00
										TIMBER MONT BG		20.00	ACR			120.00
										SANDHILL		150.00	ACR			25,000.00
										MILLER .25		152.00	ACR			19,000.00
										SCH L RIGHTS						4,000.00
										WHEAT LD 80		8.00	ACR			1,600.00
										ALFALFA		25.00	ACR			3,750.00
										PEANUTS		8.00	ACR			1,000.00
										P-NUTS-80		27.00	ACR			5,400.00
										SCHOOL LAND		160.00	ACK			8,000.00
										LOAN	00000					2,475.78
										LOAN	00000					2,000.00
										LOAN	00000					1,500.00
										LOAN	00000					205.84
										LOAN	00000					2,000.00
										LOAN	00000					2,171.79
										LOAN	00000					116.00
										LSF	00000					19.29
										LOAN	00000					536.00
										LOAN L GRA	00000					1,000.00
										LOAN	00000					425.00
										LOAN	00000					900.00
										LOAN	00000					1,074.00
										LOAN	00000					548.00
										LOAN	00000					4,000.00
										LOAN	00000					8,867.63
										LAND LOAN	00000					16,800.00
										PCA STOCK	00000					1,985.00
										STK & EQTY	00000					36.00
										B STOCK	00000					50.00
										EQUITY RES	00000					1,187.00
										EQ STOCK	00000					24.00
										STK & EQ	00000					48.00
										EQ RESERVE	00000					51.00
										B STOCK	00000					85.00
										STK IN FLB	00000					1,050.00
										BOOK CREDI	00000					4.94
										L GOOP 67	00000					3.08
										CAP CREDIT	00000					10.01
										ATKSN STOC	00000					120.00
										STK CR BY C	00000					35.75
										STK & CASH	00000					52.00
										68 CAP CRE	00000					7.95
										01/01/73	00000					155.07
										01/01/73	00000	15.00				480.20
										01/01/73	00000					330.64
										CASH ON HAND						581.00
										CAL ON CCH		5.00	HD		500.0	200.00

TABLE XIII (Continued)

SECTION 10 ANALYSIS TRANSACTION JOURNAL										FARM NUMBER 19077		1972 DATA PROCESSED 03/20/73			PAGE 3	
OL	MO	DT	AC	TI	QU	EN	US	LOT	EXT	DESCRIPTION	CHECK NO	UNITS	U	PRICE	POUNDS	DOLLARS
		73	5	11	1	1	3	00		STUCKER STRS		20.00	HD		9,400.0	4,882.00
		73	5	11	5	1	3	00		STUCKERS HFS		18.00	HU		7,560.0	3,477.60
		73	5	15	4	5	4	00		GELDING		1.00	HD		1,000.0	250.00
		73	5	17		7	0	10		SM GR GRW		99.00	ACR	10.00		990.00
		73	5	17		7	0	20		SM GR GRW		47.00	ACR	10.00		470.00
		73	5	17		7	0	30		SM GR GRW		49.00	ACR	10.00		490.00
		73	5	17	6	7	0	40		WHT GRWING		8.00	ACR	10.00		80.00
		73	5	18	1	8	1	00		ALF HAY CN HAND		316.00	BLS		19,080.0	314.00
		73	5	18	1	8	1	40		ALF GRWING		25.00	ACR	20.00		500.00
		73	5	20		9	5	00		P-NUT ALLOT						710.00
		73	5	21	5	1	1	00		HFRS ASD		17.00	HD	160.00	11,900.0	2,720.00
		73	5	21	7	1	1	00		BULLS		2.00	HD		2,800.0	875.00
		73	5	21	8	1	1	00		CDWS		36.00	HD	160.00	32,400.0	5,760.00
		73	5	27	11	1	1	00		HAY HACKS		5.00				200.00
		73	5	28						LANDING MATS		40.00				160.00
		73	5	29						TAMBER MONT		20.00	AGR			1,250.00
		73	5	29	1	1	1	00		SAND HILL		150.00	ACR			25,000.00
		73	5	29	1	1	20			MILLER CDWS		50.00	ACR	134.21		6,710.58
		73	5	29	1	3	20			MILLER STRS		102.00	ACR	134.21		13,689.42
		73	5	29	1	3	00			SCHUHL LAND						4,500.00
		73	5	29	7	0	40			WHT LAND		8.00	ACR			1,600.00
		73	5	29	8	1	00			ALF LAND		25.00	ACR			3,750.00
		73	5	29	9	5	20			P-NUT LAND		8.00	ACR			1,600.00
		73	5	29	9	5	40			P-NUT LAND		27.00	ACR			5,400.00
		73	5	29						LL LAND		160.00	ACR			8,000.00
1	12	31	4	18						CDWR FORAGE IN CH						3,080.10
	1	14	7	11		1	1	00		60 CALVED		1.00	HD		60.0	.00
	2	14	7	11		1	1	00		7 CALVED		1.00	HD		60.0	.00
	3	31	7	11		1	1	00		4 BAR & 4 CALVE		2.00	HD		120.0	.00
	4	6	7	11		1	1	00		74-78-40-43-4		5.00	HD		300.0	.00
	4	14	7	11		1	1	00		617-35-1-611		4.00	HD		240.0	.00
	4	14	7	11		1	1	00		46-71-72-5-8		5.00	HD		300.0	.00
	4	21	7	11		1	1	00		49-51-2-45-42		5.00	HD		300.0	.00
	4	28	7	11		1	1	00		91-0 CALVED		2.00	HD		120.0	.00
	5	15	7	11		1	1	00		64-68 CALVED		2.00	HD		120.0	.00
	5	20	7	11		1	1	00		49 CALVED		1.00	HD		60.0	.00
	5	20	7	11		1	1	00		69-9-13-3 CALV		1.00	HD		240.0	.00
	6	2	7	11		1	1	00		YALG HFR CLLV		1.00	HD		60.0	.00
	6	8	7	11		1	1	00		3L 9 CALVED		1.00	HD		60.0	.00
	6	12	7	11		1	1	00		3 CALVED		1.00	HD		60.0	.00
	6	20	7	11		1	1	00		15 HFR CALVED		1.00	HD		60.0	.00
	9	27	7	11		1	1	00		REG 6 CLVS		1.00	HD		60.0	.00
	11	3	7	11		1	1	00		41 CALVED		1.00	HD		60.0	.00
	11	15	7	11		1	1	00		REG 9-60 CALV		2.00	HD		120.0	.00
	12	18	7	11	1	1	1	00		66 CWR CALVED		1.00	HD		70.0	.00
	11	25	8	11		1	1	00		MARNEO CALVES		36.00	HD		15,200.0	6,384.00
	12	31	8	11		1	1	00	1	ADD PRILE TU CAL				.08		1,216.00
	6	27	8	17	6	7	0	00		HARVEST WHEAT	00060	208.00	BSS	1.50	12,480.0	312.00
	12	31	8	18		1	1	00		HARV BERM	01020					.00
	12	31	8	18		1	1	00		HARV BERM	00750					.00
	12	31	8	18	8					WASTE & RDS	00200					.00
	12	31	8	18	8					WASTE & RDS	01100					.00
	6	9	8	18	1	8	1	00		HARVEST HAY	00250	585.00	BLS		35,100.0	585.00
	7	19	8	18	11	8	1	00		HARVEST HAY	00120	73.00	BLS		4,380.0	73.00
	6	30	8	18	9	7	0	00		HARV SM GR PAST	01700			17.53		3,080.10
	6	30	8	18	5	7	0	00		HARV SP GR	00950					.00
	12	4	8	19	5	9	5	00		HARV PEANUTS	00350				17,220.0	1,905.62
	4	21	9	11		1	1	00		4'S CALF DIED		1.00	HD		55.0	.00



TABLE XIII (Continued)

SECTION 10 ANALYSIS TRANSACTION JOURNAL										FARM NUMBER FKE677		1972 DATA PROCESSED 03/20/73			PAGE 4
DL	MO	DAY	AC	TI	OPEN	US	LOT	EXT	DESCRIPTION	CHECK NO	UNITS	Q	PRICE	POUNDS	DOLLARS
5	8	9	11		1	1	00		45-5 CALF DIED	1.00	HD			60.00	.00
5	15	9	11		1	1	00		04 CALF DIED	1.00	HD			60.00	.00
6	2	9	11		1	1	00		MERS CALF DIED	1.00	HD			60.00	.00
6	20	9	11		1	1	00		15 CALF DIED	1.00	HD			60.00	.00
9	1	9	81	B	1	1	00		617 COW DIED	P0209	1.00	HD		700.00	.00
12	31	4	42		1	1	00		TRANS FR OH					100.00	100.00
12	31	4	42		1	3	00		TRANS FR OH					40.00	100.00
12	31	4	42		6	1	00		TRANS FR OH					93.05	93.05
12	31	4	42		9	5	00		TRANS FR OH					300.00	300.00
12	31	4	48		1	1	00		TRANS FR OH					146.00	146.00
12	31	4	48		7	0	00		TRANS FR OH					100.00	100.00
12	31	4	48		8	1	00		TRANS FR OH					50.00	50.00
12	31	4	48		9	5	00		TRANS FR OH					100.53	100.53
12	31	4	50		1	1	00		TRANS FR OH					400.00	400.00
12	31	4	50		1	3	00		TRANS FR OH					150.00	150.00
12	31	4	50		7	0	00		TRANS FR OH					175.00	175.00
12	31	4	50		8	1	00		TRANS FR OH					50.00	50.00
12	31	4	50		9	5	00		TRANS FR OH					100.00	100.00
12	31	4	54		7	0	00		TRANS FR OH					75.00	75.00
12	31	4	54		8	1	00		TRANS FR OH					22.00	22.00
12	31	4	54		9	5	00		TRANS FR OH					22.20	22.20
12	31	4	55		7	0	00		TRANS FR OH					115.44	115.44
12	31	4	55		8	1	00		TRANS FR OH					50.00	50.00
12	31	4	55		9	5	00		TRANS FR OH					70.00	70.00
12	31	4	56		7	0	00		TRANS FR OH					23.31	23.31
12	31	4	56		8	1	00		TRANS FR OH					10.00	10.00
12	31	4	56		9	5	00		TRANS FR OH					25.00	25.00

DIVISION C DETAIL OF MACHINERY AND LABOR USE REPORT										NUM TRA HP SIZE		CD	ACRES	MAN HRS	MACH HR	GAL FUEL	TYPE
DL	MO	DAY	AC	TI	JO ENT	USE	LOT	LN	JOB PERFORMED								
1	31	7	20	00	1	1	00		HDG PEN FENCE					15.00			
1	31	7	20	00	1	1	00		CK & FEED CGWS					80.00			
1	31	7	20	00	1	3	00		CK & FEED STKRS					40.00			
2	28	7	20	00	1	1	00		CK & FEED CGWS					80.00			
2	28	7	20	00	1	3	00		CK & FEED STKRS					40.00			
3	11	7	96	24	1	3	00		SPRD FERT					4.00	3.00	8.00	3
3	11	7	96	24	1	1	00		SPKJ FERT					4.00	3.00	9.00	3
3	11	7	96	24	1	1	00		SPRD FERT					4.00	5.00	15.00	3
3	11	7	96	23	7	0	00		SPRU FERT					3.00	2.00	6.00	1
3	11	7	97	34					PICKUP BRUSH	3				14.00	3.00	6.00	1
3	31	7	97	43					DISC BRUSH LD	3	19	4	30	10.00	10.00	30.00	1
3	31	7	97	34					PICK UP BRUSH	3				30.00	20.00	20.00	1
3	31	7	20	00	1	1	00		CK CATTLE					30.00			
3	31	7	20	00	1	3	00		CK CATTLE					20.00			
4	08	7	47	43	9	5	00		DISC	3	10	4	8	5.00	5.00	20.00	1
4	08	7	47	43	9	5	00		BUILD FENCE					5.00			
4	14	7	48	00	7	0	00		BUILD FENCE					5.00			
4	21	7	97	43	8	7	00		DISC SUDAN LL	4	10	4	24	8.00	6.00	15.00	3
4	21	7	97	51	8	7	00		DRILL SUDAN	4	10	4	24	8.00	6.00	15.00	3
4	28	7	97	60	1	3	00		SPU FERT	4			100	6.00	5.00	15.00	3
4	30	7	20	00	1	3	00		CHK CATTLE					20.00			
4	30	7	20	00	1	1	00		CHK CATTLE					30.00			
5	21	7	20	00	1	1	00		CHK CATTLE					30.00			
5	31	7	20	00	1	3	00		CHK CATTLE					15.00			
6	30	7	20	00	1	1	00		CHECK CATTLE					15.00			
6	30	7	20	00	1	3	00		CHECK CGWS					15.00			
6	23	7	20	00	1	1	00		WK C LNK LATTLE					6.00			

TABLE XIII (Continued)

SECTION DL	ID	ANALYSIS	TRANSACTION	JOURNAL	FARM NUMBER	1972 DATA PROCESSED	03/20/73	PAGE															
DL	MO	DA	AC	TI	QU	ENT	USE	LOT	WN	JOB PERFORMED	NUM	TRA	HP	SIZE	CD	ACRES	MAN	HRS	MACH	HR	GAL	FUEL	TYPE
6	29	7	20	00	1	3	00			SELL CATTLE													
6	29	7	20	00	1	1	00			SELL COWS													
7	08	7	20	00	1	1	00			WK CATTLE													
7	30	7	20	00						CHECK COWS													
7	21	7	20	00	9	5	00			CHOP PEANUTS													
7	27	7	20	00	9	5	00			CHOP PEANUTS													
8	05	7	20	00	9	5	00			CHOP PEANUTS													
8	12	7	20	00	9	5	00			CHOP PEANUTS													
9	08	7	20	00	7	0	00			MUVE & SVC EQ													
9	30	7	20	00						CHECK COWS													
11	30	7	20	00	1	3	00			FEED CALVES													
11	30	7	20	00	1	1	00			FEED & CK COWS													
12	20	7	87	38						WK ON POSTHOLE													
9	04	7	87	43	7	0	00			DISC & DRILL													
9	03	7	87	51	7	0	00			DRILL REPR													
6	13	7	87	57	9	5	00			RIG CULTI													
10	14	7	87	76	9	5	00			CHK DIG-SMOKER													
10	14	7	87	84	9	5	00			CHK & BUY & REPR													
4	28	7	88	09	7	0	00			BLD FENCE													
12	30	7	90	00	1	3	00			FEED STAKS													
12	30	7	90	20	1	1	00			FEED COWS													
4	20	7	96	30	1	1	00			SPRD FERT	4					80	6.00		4.00		15.00		3
4	20	7	96	30						SPRD FERT	4					15	4.00		4.00		10.00		3
5	10	7	96	33						SPREAD FERT	3					30	4.00		3.00		10.00		1
5	10	7	96	33	9	5	00			FERT	3					8	1.00		1.00		9.00		1
12	30	7	97	11						USE HAY FEEDERS													
12	30	7	97	13						USE HAY FEEDERS													
12	30	7	97	27	1	1	00			CALF TABLE													
5	21	7	97	34	9	5	00			HAUL SEED	2												
6	23	7	97	34	1	1	00			MUVE CHAR BULL													
6	33	7	97	34	1	1	00			HAUL ANKUS BULL													
9	08	7	97	34	1	1	00			MUVE COWS													
12	15	7	97	34	1	1	00			MUVE 71 HFRAS													
12	25	7	97	38	1	1	00			DIG POSTHOLE													
5	12	7	97	41	9	5	00			MULDARD	4		4			35	21.00		18.00		72.00		3
9	28	7	97	41	7	0	00			MULDARD 80	4		4			8	6.00		6.00		25.00		3
5	12	7	97	43	9	5	00			DISC	4		10	4		35	17.00		15.00		45.00		3
5	20	7	97	43	9	5	00			DISC	4		10	4		35	17.00		14.00		45.00		3
5	20	7	97	43	9	5	00			DISC	4		10	4		8	4.00		3.00		10.00		3
5	21	7	97	43	9	5	00			DISC	3		10	4		27	9.00		9.00		25.00		1
7	20	7	97	43	7	0	00			JISK	4		10	4		8	3.00		3.00		12.00		3
6	08	7	97	43	7	0	00			DISC WH LD	4		10	4		8	3.00		3.00		10.00		3
10	23	7	97	43	7	0	00			DISC	3		10	4			5.00		4.00		15.00		1
10	26	7	97	43	7	0	00			DISC	2		10	4		20	18.00		15.00		40.00		1
10	28	7	97	43	7	0	00			DISC	3		10	4		27	18.00		15.00		40.00		1
10	28	7	97	43	7	0	00			SL DISC	4		10	4		30	12.00		10.00		20.00		3
10	29	7	97	43	7	0	00			DISC	4		10	4		16	6.00		5.00		15.00		3
10	28	7	97	43	7	0	00			DISC	3		10	4		29	12.00		10.00		30.00		1
10	20	7	97	43	7	0	00			DISC	3		10	4		10	6.00		5.00		15.00		1
12	02	7	97	43	7	0	00			DISC	3		10	4		8	7.00		7.00		23.00		1
10	23	7	97	51	7	0	00			DRILL #1													
10	26	7	97	51	7	0	00			DRILL #2													
10	28	7	97	51	7	0	00			DRILL #1													
10	28	7	97	51	7	0	00			DRILL #1													
10	28	7	97	51	7	0	00			DRILL #1													
10	28	7	97	51	7	0	00			DRILL #1													
10	28	7	97	51	7	0	00			DRILL #2													
10	28	7	97	51	7	0	00			DRILL #2													
10	28	7	97	51	7	0	00			DRILL #2													
12	30	7	97	51	9	5	00			PLANT RYE SEED	4												

TABLE XIII (Continued)

SECTION 10 ANALYSIS TRANSACTION JOURNAL										FARM NUMBER				1972 DATA PROCESSED 03/20/73				PAGE 6			
CL	PC	DY	AG	TI	GU	ENT	USE	LOT	WN	JOB PERFORMED	FUM	TRA	HP	SIZE	CD	ACRES	MAN HRS	MACH HR	GAL FUEL	TYPE	
14	C2	7	97	51	7	0	00			DRILL WHT	4			10	4	8	4.00	2.00	4.00	3	
14	C2	7	97	51	9	5	00			DRILL WHT	4			10	4	0	2.00	2.00	4.00	3	
5	20	7	97	52	9	5	00			PLANT PEANUTS	4			2	6	35	26.00	24.00	40.00	3	
6	30	7	97	57	9	5	00			CULTI PEANUTS	4			2	6	35	22.00	20.00	40.00	3	
5	20	7	97	60	9	5	00			SPRAY TREFLAN	2			10	4	35	17.00	14.00	40.00	1	
10	20	7	97	76	9	5	04			//DIG PEANUTS	4			2	6	9	7.00	6.00	10.00	3	
10	25	7	97	76	9	5	04			DIG PEANUTS	4			2	6	6	5.00	4.00	10.00	3	
11	28	7	97	76	9	5	00			DIG PEANUTS	4			2	6	20	20.00	18.00	35.00	3	
11	30	7	97	76	9	5	00			SHAKE P-NUTS	4			2	6	25	12.00	10.00	15.00	3	
8	11	7	97	82	1	1	00			SHAKE PAST	4			5	4		8.00	8.00	25.00	3	
9	30	7	97	82						ROTARY MOWER	4			5	4	10	5.00	5.00	15.00	3	
12	30	7	97	83	1	3	00			SL BARN								50.00			
10	20	7	97	84	9	5	04			RAKE PEANUTS	3			8	4	9	4.00	3.00	6.00	1	
10	25	7	97	84	9	5	04			RAKE PEANUTS	3			8	4	6	4.00	3.00	5.00	1	
11	30	7	97	84	9	5	00			RAKE P-NUT	3			10	4	20	12.00	10.00	25.00	1	
12	30	7	97	85	1	3	00			SL WATER SY								50.00			
12	30	7	97	86	1	3	00			SL FENCES								50.00			
12	30	7	97	86	1	1	00			PORTABLE CORRAL								50.00			
12	30	7	97	86	1	3	00			PORTABLE CORRAL								10.00			

DIVISION D	ANALYSIS	DEPRECIATION	*****OPERATORS DATA*****				*****LANDLORDS DATA*****			
			ORIGINAL COST	BEGINNING VALUE	1972 DEPREC	ENDING VALUE	ORIGINAL COST	BEGINNING VALUE	1972 DEPREC	ENDING VALUE
0 9 63			2,597	1,020	204	816				
0 3 71	1	1 00		20	5	20				
0 9 72			798	279	55	223				
0 9 73				19	3	15				
0 9 73	1	1 00	325	111	22	89				
0 9 74			945	474	94	379				
0 9 75			1,130	847	169	677				
0 9 75	9	5 00	200	9	21	137				
0 9 76			315	160	32	128				
0 9 77			100	72	14	57				
0 9 77	9	5 00	200		26	173				
0 9 78			500		41	458				
0 9 81				105	10	95				
0 9 83			2,000	1,180	118	1,062				
0 9 85			762	470	47	423				
0 9 86			900	531	53	478				
0 9 86	1	3 00	318	242	24	218				
0 9 87			504	355	35	319				
ANALYSIS OF DEPRECIATION-MACHINERY			7,110	3,017	686	3,172				
ANALYSIS OF DEPRECIATION-BUILDINGS			4,484	2,884	287	2,595				

TABLE XIII (Continued)

SECTION 11 TABLE OF INCOME AND EXPENSES										
COST-FINDER WHOLE FARM ANALYSIS										
FARM NUMBER 000077										
DATE PROCESSED 03/20/73										
PAGE 7										
SUBFARM 00										
ALL OTHER SUBFARMS										
T1	DESCRIPTION	UNITS	POUNDS	DOLLARS	UNITS	POUNDS	DOLLARS	UNITS	POUNDS	DOLLARS
RAISED SALES										
11	BEEF	21.0	14422.0	5,839.62				21.0	14422.0	5,839.62
15	OTHER LIVESTOCK	2.0		895.00				2.0		895.00
19	CASH CROPS		15643.0	1,965.62					15643.0	1,965.62
	TOTAL RAISED SALES			\$8,700.24			\$0.00			\$8,700.24
PRODUCT SALES										
20	RENTAL INCOME						330.64			330.64
	TOTAL PRODUCT SALES			\$0.00			\$330.64			\$330.64
ADDITIONAL FARM INCOME										
35	PATRONAGE REFUNDS			18.75						18.75
36	AGRI. PROGRAM PAYMENTS			1,441.09						1,441.09
37	TAX REFUNDS			15.18						15.18
	TOTAL ADDITIONAL FARM INCOME			\$1,475.02			\$0.00			\$1,475.02
SALE OF PURCHASES FOR RESALE										
61	BEEF	45.0	31769.0	13,018.62				45.0	31769.0	13,018.62
	TOTAL SALE OF PURCHASES FOR RESALE			\$13,018.62			\$0.00			\$13,018.62
SALE OF CAPITAL ASSETS										
61	BEEF BREEDING STOCK	13.0	13064.0	3,486.69				13.0	13064.0	3,486.69
65	OTHER LIVESTOCK	3.0		1,810.00				3.0		1,810.00
	TOTAL SALE OF CAPITAL ASSETS			\$5,296.69			\$0.00			\$5,296.69
	TOTAL GROSS FARM INCOME			\$28,490.57			\$330.64			\$28,821.21
CURRENT FARM EXPENSES										
41	LABOR			42.49						42.49
42	REPAIRS	15.0		393.53				15.0		393.53
43	INTEREST			3,461.54						3,461.54
44	FEED		4300.0	160.25					4300.0	160.25
45	SEEDS AND PLANTS		3971.0	1,227.57					3971.0	1,227.57
46	FERTILIZER-LIME-CHEM	16.7	82404.0	2,982.98				16.7	82404.0	2,982.98
47	MACHINE HIRE	658.0		3,160.26				658.0		3,160.26
48	SUPPLIES	120.0	50.0	763.97				120.0	50.0	763.97
50	MISCELLANEOUS EXPENSE	11.0		1,143.67				11.0		1,143.67
51	VETERINARY-MEDICINE	4.0		270.44				4.0		270.44
52	GAS-FUEL-OIL	1040.9		232.39				1040.9		232.39
54	TAXES	15.0		560.20				15.0		560.20
55	INSURANCE			235.84						235.84
56	UTILITIES(ELEC,PHONE)			230.73						230.73
57	FARM RENT			330.64						330.64
58	FREIGHT-TRUCKING	585.0		258.96				585.0		258.96
59	CONSERVATION EXPENSE			1,598.00						1,598.00
	TOTAL CURRENT FARM EXPENSES			\$17,053.46			\$0.00			\$17,053.46
PURCHASE OF PURCH FOR RESALE										
71	BEEF	45.0	21250.0	8,762.73				45.0	21250.0	8,762.73
	TOTAL PURCHASE OF PURCH FOR RESALE			\$8,762.73			\$0.00			\$8,762.73
PURCHASE OF CAPITAL ASSETS										
61	BEEF BREEDING STOCK	2.0	1200.0	850.00				2.0	1200.0	850.00
57	MACHINERY - EQUIPMENT			850.00						850.00
	TOTAL PURCHASE OF CAPITAL ASSETS			\$1,700.00			\$0.00			\$1,700.00
	TOTAL FARM EXPENSE			\$27,516.19			\$0.00			\$27,516.19
	TOTAL FM CASH EARN ADJ FOR AP, AR			\$1,425.62			\$330.64			\$1,094.98

TABLE XIII (Continued)

SECTION 13	VALUE OF NET LIVESTOCK PRODUCTION	FARM NUMBER 00072			DATE PROCESSED 03/20/73			PAGE 9	
		UNITS	POUNDS	DOLLARS	UNITS	POUNDS	DOLLARS	TOTAL FARM POUNDS	DOLLARS
BEEF	OPENING INVENTORY	95.0	63025.0	15199.50			95.0	63025.0	15199.50
	PURCHASES	47.0	22450.0	9012.73			47.0	22450.0	9012.73
	SALES	79.0	59255.0	22344.93			79.0	59255.0	22344.93
	CLOSING INVENTORY	96.0	64500.0	17920.60			96.0	64500.0	17920.60
	PRODUCTION	35.0	38340.0	15453.30			35.0	38340.0	15453.30
OTH LIVSTK	OPENING INVENTORY	3.0	3200.0	1250.00			3.0	3200.0	1250.00
	PURCHASES								
	SALES	5.0		2705.00			5.0		2705.00
	CLOSING INVENTORY	1.0	1000.0	250.00			1.0	1000.0	250.00
	PRODUCTION	3.0	2200.0	1705.00			3.0	2200.0	1705.00
TOTAL LIVESTOCK	PRODUCTION	38.0	36140.0	17158.30			38.0	36140.0	17158.30
FEED	OPENING INVENTORY	1008.0	48000.0	3380.00			1008.0	48000.0	3380.00
	PURCHASES		4300.0	160.25				4300.0	160.25
	SALES								
	CLOSING INVENTORY	546.0	19080.0	2848.00			546.0	19080.0	2848.00
	PRODUCTION	866.0	51900.0	4350.10			866.0	51900.0	4350.10
	FEED DISAPPEARANCE	1328.0	85180.0	4742.35			1328.0	85180.0	4742.35
LIVESTOCK PROD / \$100 FEED DIS				361.83					361.83

SECTION 14	LAND USE SUMMARY	FARM NUMBER 00072			DATE PROCESSED 03/20/73			PAGE 10	
		UNITS/ACRE	LBS/ACRE	ACRES	UNITS	POUNDS	SUBFARM 00 \$	OTHER SUBFM \$	TOTAL FARM \$
IRRIGATED CROPS	ACREAGE BY CROP								
	TOTAL ACREAGE AND VALUE OF IRRG CROPS								
NON-IRRIGATED CROPS	ACREAGE BY CROP								
WHEAT		26.0	1560.0	8.0	208	12,480	\$12.00		312.00
ALFALFA		26.3	1579.2	25.0	658	39,480	658.00		658.00
CMLP PASTURE				175.0			3,780.10		3,080.10
OTHER HAY AND FORAGE				177.0					
PEANUTS			492.0	35.0	17,220	1,965.62			1,965.62
	TOTAL ACREAGE AND VALUE OF NON-IRRG CROPS			420.0			6,015.72		6,015.72
OTHER LAND USE									
TREES AND WASTE				130.0					
	TOTAL ACREAGE AND VALUE OF OTHER LAND USE			130.0					
	TOTAL ACREAGE AND VALUE OF ALL LAND USE			550.0			6,015.72		6,015.72
	LESS TOT ACRES (OPEN INV + PURCHASES)			550.0					
	YIELDS ACREAGE UNACCOUNTED FOR								

SECTION 15	ANALYSIS FACTORS	FARM NUMBER 00072			DATE PROCESSED 03/20/73			PAGE 10	
		TOTAL FARM AMOUNT	/ CROP ACRE ( 420)	/ FARM ACRE ( 550)	/ MAN YEAR (0.50 YEARS)	/ \$100 INVEST ( \$1100)	/ \$100 PRON ( \$231)		
	DESCRIPTION								
	GROSS FARM PRODUCTION	\$23,174.02	\$55.17	\$42.13	\$46,348.04	\$20.94			\$100.00
	MACHINERY INVESTMENT	\$3,094.50	\$7.36	\$5.62	\$6,189.00	\$2.79			\$13.35
	MACHINERY COST	\$4,963.52	\$11.81	\$9.02	\$9,927.04	\$4.48			\$21.41
	FERTILIZER & CHEMICAL COST	\$2,982.96	\$7.10	\$5.42	\$5,965.96	\$2.69			\$12.87
	SEED AND PLANT EXPENSE	\$1,227.57	\$2.92	\$2.23	\$2,455.14	\$1.10			\$5.29
	FARM SIZE INDEX	\$7,975.20	\$18.49	\$14.50	\$15,950.40	\$7.20			\$34.41

TABLE XIII (Continued)

SECTION 16 MACHINERY SECTION	FARM NUMBER 666077								DATE PROCESSED 03/20/73		PAGE 11			
	ENTERPRISE NO 1100		ENTERPRISE NO 1300		ENTERPRISE NO 7000		ENTERPRISE NO 8100		ENTERPRISE NO 9500		OVERHEAD		TOTALS	
	ENDING VALUE	DEPREC AMOUNT	ENDING VALUE	DEPREC AMOUNT	ENDING VALUE	DEPREC AMOUNT	ENDING VALUE	DEPREC AMOUNT	ENDING VALUE	DEPREC AMOUNT	ENDING VALUE	DEPREC AMOUNT	ENDING VALUE	TOTAL AMOUNT
PICKUPS AND TRUCKS														
ALYS DEPREC														
HCLRS USED	35.00		3.00		2.00		3.00							43.00
DEPREC ALLOCATED														
TRACTORS														
ALYS DEPREC										816	204.00	816	204.00	
HCLRS USED	62.00		165.00		149.00			187.00			56.00			619.00
DEPREC ALLOCATED	20.43		54.38		49.10			61.63			18.46			204.00
LIVESTOCK FEED EQUIP														
ALYS DEPREC	20	5.00										20	5.00	
HCLRS USED													15.00	
DEPREC ALLOCATED													5.00	
OTHER LIVESTOCK EQUIP														
ALYS DEPREC										223	55.00	223	55.00	
HCLRS USED	8.00													8.00
DEPREC ALLOCATED	55.00													55.00
MATERIAL HAND EQPT														
ALYS DEPREC	89	22.00								15	3.00	104	25.00	
HCLRS USED		8.00						3.00			23.00			34.00
DEPREC ALLOCATED		5.88						2.21			16.91			25.00
TILLAGE MACHINERY														
ALYS DEPREC														
HCLRS USED					83.00			64.00		379	94.00	379	94.00	
DEPREC ALLOCATED					47.86			36.91			9.23			163.00
PLANTING CULTIVATING														
ALYS DEPREC									137	21.00	677	169.00	814	190.00
HCLRS USED					66.00			51.00			6.00			123.00
DEPREC ALLOCATED					101.95			78.78			9.27			190.00
IRRIGATION, CHEM APPL														
ALYS DEPREC														
HCLRS USED			5.00					14.00		128	52.00	128	52.00	
DEPREC ALLOCATED			8.42					23.58						32.00
HARVESTING EQUIP														
ALYS DEPREC									173	26.00	57	14.00	230	40.00
HCLRS USED														38.00
DEPREC ALLOCATED								40.00						40.00
HAYING EQUIPMENT														
ALYS DEPREC										458	41.00	458	41.00	
HCLRS USED	58.00		160.00					16.00			5.00			239.00
DEPREC ALLOCATED	9.95		27.45					2.74			.86			41.00
MISCELLANEOUS														
ALYS DEPREC														
HCLRS USED														
DEPREC ALLOCATED														
BUILDINGS														
ALYS DEPREC			218	24.00							2377	263.00	2595	287.00
HCLRS USED				24.00								263.00		287.00
DEPREC ALLOCATED														
ENTERPRISE TOTALS														
ALYS DEPREC	109	27.00	218	24.00			3.00	310	47.00	5130	875.00	5767	973.00	
HCLRS USED		171.00		333.00		300.00			373.00		121.00			1301.00
DEPREC ALLOCATED		91.26		114.25		198.91			245.85		162.73			973.00
MACHINERY OPEN INV		137.00							9.00		2871.00			3017.00
CLOSE INV		109.00							319.00		2753.00			3172.00
BUILDINGS OPEN INV				242.00							2642.00			2884.00
CLOSE INV				218.00							2377.00			2595.00

TABLE XIII (Continued)

SECTION 17 LABOR SECTION				FARM NUMBER 14972				DATE PROCESSED 03/20/73				PAGE 12		
	ENTERPRISE NO 1100		ENTERPRISE NO 1300		ENTERPRISE NO 7000		ENTERPRISE NO 8100		ENTERPRISE NO 9500		OVERHEAD		TOTALS	
	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COST	HOURS	COST
LABOR USED OPERATING	23.0	34.50			3.0	4.50	4.0	6.00					15.0	22.50
PICKUPS AND TRUCKS	6.0	9.00							1.0	1.50	8.0	12.00		
TRACTORS														
LIVESTOCK FEED EQUI														
OTHER LIVESTOCK EQU														
MATERIAL HANDL EQPT	24.0	36.00			108.0	162.00			3.0	4.50	48.0	72.00	75.0	112.50
TILLAGE MACHINERY					16.0	24.00			73.0	109.50	18.0	27.00	199.0	298.50
PLANTING, CULTIVATI			6.0	9.00					82.0	93.00			78.0	117.00
IRRIGATION, CHEM AP									17.0	25.50			23.0	34.50
HARVESTING EQUIP									32.0	78.00			52.0	78.00
HAYING EQUIPMENT	8.0	12.00							24.0	36.00	5.0	7.50	37.0	55.50
MISCELLANEOUS	300.0	450.00	181.0	271.50	3.0	4.50			75.0	112.50	55.0	82.50	614.0	921.00
BUILDINGS					18.0	27.00							18.0	27.00
ENTERPRISE TOTALS	361.0	541.50	191.0	286.50	140.0	222.00	4.0	6.00	307.0	460.50	134.0	201.00	1145.0	1717.50

SECTION 18 FUEL SECTION				FARM NUMBER 14972				DATE PROCESSED 03/20/73				PAGE 12			
	ENTERPRISE NO 1100		ENTERPRISE NO 1300		ENTERPRISE NO 7000		ENTERPRISE NO 8100		ENTERPRISE NO 9500		OVERHEAD		TOTALS		
	GALLONS	COST	GALLONS	COST	GALLONS	COST	GALLONS	COST	GALLONS	COST	GALLONS	COST	GALLONS	COST	
FUEL USED BY															
PICKUPS AND TRUCKS	D				6.3	1.44							6.0	1.44	
	G	15.0	1.95	6.0	1.04			9.0	1.17				32.0	4.14	
TRACTORS	D									3.0	.72	10.0	2.43	13.0	3.12
	G	15.0	1.95									10.0	1.30	25.0	3.25
MATERIAL HANDL EQP	D									10.0	2.43	26.0	6.24	36.0	8.64
	G	3.0	.39										3.0	.39	
TILLAGE MACHINERY	D					100.0	38.40			45.0	10.80	30.0	7.20	235.0	56.40
	G					82.0	10.66			172.0	22.35	15.0	1.95	269.0	34.97
PLANTING, CULTIVA	D					4.0	.52			99.0	12.87			103.0	13.39
	G									40.0	9.60			40.0	9.60
IRRIGATION, CHEM	D			15.0	1.95									15.0	1.95
	G													70.0	9.10
HARVESTING EQUIP	D									70.0	9.10			36.0	8.64
	G									36.0	8.64			40.0	5.20
HAYING EQUIPMENT	D	25.0	3.25									15.0	1.95	40.0	5.20
	G					166.0	39.84			134.0	32.16	66.0	15.84	366.0	87.84
ENTERPRISE TOTALS	D	58.0	7.54	23.0	2.99	86.0	11.18	9.0	1.17	341.0	44.53	40.0	5.20	557.0	72.61
	G		7.54		2.99		51.02		1.17		76.49		21.04		160.25

\* G=GASOLINE AT \$.24, P=PROPANE AT \$.10, D=DIESEL FUEL AT \$.13, T=TRACTOR FUEL AT \$.20, N=NATURAL GAS AT \$.35/100

TABLE XIII (Continued)

SECTION 19 INVENTORY ANALYSIS										
TI DESCRIPTION	-----ENTERPRISE NO. 1100-----			FARM NUMBER 0K0072			DATE PROCESSED 03/20/73			PAGE 13
	UNITS	POUNDS	DOLLARS	UNITS	POUNDS	DOLLARS	UNITS	POUNDS	DOLLARS	7000----- DOLLARS
OPENING INVENTORY OF										
11 BEEF	7.0	700.0	280.00	38.0	18,425.0	6,564.50				
17 GRAIN							183.0			1,830.00
44 FEED	800.0	48,000.0	800.00							
91 BEEF BREEDING STOCK	50.0	43,900.0	8,355.00							
TOTAL OPENING OPERATING INVENTORY			\$9,435.00			\$6,564.50				\$1,830.00
CLOSING INVENTORY OF										
11 BEEF	5.0	500.0	200.00	36.0	16,960.0	8,365.60				
17 GRAIN							203.0			2,030.00
44 FEED										
91 BEEF BREEDING STOCK	55.0	47,100.0	9,355.00							
TOTAL CLOSING OPERATING INVENTORY			\$9,555.00			\$8,365.60				\$2,030.00
TOTAL OPERATING INVENTORY CHANGE			\$120.00			\$1,801.10				\$200.00
OPENING INVESTMENT										
OPENING OPERATING INVENT			9,435.00			6,564.50				1,830.00
97 MACHINERY - EQUIPMENT	5.0		337.00							
98 BUILDINGS - IMPROVEMEN										
99 LAND	200.0		31,710.56	102.0		16,189.42	8.0			1,600.00
CLOSING INVESTMENT			\$41,742.56			\$24,995.92				\$3,430.00
CLOSING OPERATING INVENT			9,555.00			8,365.60				2,030.00
97 MACHINERY - EQUIPMENT	5.0		309.00							
98 BUILDINGS - IMPROVEMEN										
99 LAND	200.0		31,710.56	102.0		16,189.42	8.0			1,600.00
CLOSING INVESTMENT			\$41,742.56			\$26,773.02				\$3,630.00
CHANGE IN INVESTMENT			\$92.00			\$1,777.10				\$200.00

SECTION 19 INVENTORY ANALYSIS										
TI DESCRIPTION	-----ENTERPRISE NO. 0100-----			FARM NUMBER 0K0072			DATE PROCESSED 03/20/73			PAGE 13
	UNITS	POUNDS	DOLLARS	UNITS	POUNDS	DOLLARS	UNITS	POUNDS	OVERHEAD----- DOLLARS	
OPENING INVENTORY OF										
10 MISC CURRENT FARM SALE										1,141.06
15 OTHER LIVESTOCK										250.00
18 FORAGE	25.0		750.00							
90 MISC CAPITAL ASSETS				7.1		710.00				
95 OTHER LIVESTOCK										
TOTAL OPENING OPERATING INVENTORY			\$750.00			\$710.00				1,000.00
CLOSING INVENTORY OF										
10 MISC CURRENT FARM SALE										561.80
15 OTHER LIVESTOCK										250.00
18 FORAGE	25.0	19,080.0	818.00							
90 MISC CAPITAL ASSETS						710.00				
95 OTHER LIVESTOCK										
TOTAL CLOSING OPERATING INVENTORY			\$818.00			\$710.00				\$811.80
TOTAL OPERATING INVENTORY CHANGE			\$68.00			\$0.00				\$1,579.26-
OPENING INVESTMENT										
OPENING OPERATING INVENT			750.00			710.00				2,391.06
97 MACHINERY - EQUIPMENT						9.00				2,871.00
98 BUILDINGS - IMPROVEMEN							47.0			2,802.00
99 LAND	25.0		3,750.00	35.0		7,000.00	180.0			9,250.00
CLOSING INVESTMENT			\$4,500.00			\$7,719.00				\$17,314.06
CLOSING OPERATING INVENT			818.00			710.00				811.80
97 MACHINERY - EQUIPMENT						313.00				2,753.00
98 BUILDINGS - IMPROVEMEN							40.0			2,537.00
99 LAND	25.0		3,750.00	35.0		7,000.00	180.0			9,250.00
CLOSING INVESTMENT			\$4,500.00			\$8,023.00				\$15,351.80
CHANGE IN INVESTMENT			\$68.00			\$301.00				\$1,962.26-



TABLE XIII (Continued)

SECTION 20 ENTERPRISE SUMMARY		FARM NUMBER 70077		DATE PROCESSED 03/20/73		PAGE 14 9	
TI	DESCRIPTION	UNITS	PCUABS	DOLLARS	UNITS	PCUABS	DOLLARS
11	BEEF	38.0	15,200.0	7,600.00	21.0	14,422.0	5,839.62
17	GRAIN						
18	FORAGE						3,080.10
36	AGRI. PROGRAM PAYMENTS						671.05
37	TAX REFUNDS						15.18
	TOTAL CURRENT FARM SALES			47,600.00			55,839.62
40	MISC CURR FARM EXPENSE						53,766.33
41	LABOR	301.0		518.50	191.0		331.50
42	REPAIRS			100.00			100.00
44	FEED	406.0	28,000.0	1,667.30	280.0	17,225.0	1,961.95
45	SEEDS AND PLANTS						203.0
46	FERTILIZER-LIME-UFER	8.0	18,550.0	339.46		22,960.0	642.74
47	MACHINE HIRE						8.0
48	SUPPLIES	3.0		302.73			176.90
50	MISCELLANEOUS EXPENSE	11.0		431.07			152.58
51	VETERINARY-MEDICINE	2.5		143.06	1.5		111.75
52	GAS-FUEL-OIL			7.54			2.99
54	TAXES			235.90			95.20
55	INSURANCE						5
56	UTILITIES (ELEC,PHONE)			100.16			72.26
57	FARM RENT						330.64
58	FREIGHT-TRUCKING						170.00
	TOTAL CURRENT FARM EXPENSES			54,365.72			54,143.51
61	BEEF				45.0	31,769.0	13,018.62
	TOTAL SALE OF PURCHASES FOR RESALE			50.00			13,018.62
71	BEEF				63.0	36,450.0	10,362.73
	TOTAL PURCHASE OF PURCH FOR RESALE			50.00			16,362.73
81	BEEF BREEDING STOCK	13.0	13,084.0	3,485.69			
	TOTAL SALE OF CAPITAL LIVESTOCK			53,485.69			50.00
91	BEEF BREEDING STOCK	2.0	1,200.0	650.00			
	TOTAL PURCHASE OF CAPITAL LIVESTOCK			650.00			50.00
	ENTERPRISE OPERATING INCOME			\$11,766.69			\$10,858.24
	OPERATING INVENTORY CHANGE			\$120.00			\$1,801.10
	ENTERPRISE OPERATING EXPENSE			\$5,215.72			\$20,511.24
	DEPRECIATION FROM SECT 16			\$91.26			\$114.25
	NET INT CHARGE LESS INT PAID			\$2,546.44			\$2,055.17
	ENTERPRISE OPERATING GAIN OR LOSS			\$3,553.27			\$1,433.32
	ENTERPRISE PLT RETURN ON INVESTMENT			13.40			0.09
							41.54

TABLE XIII (Continued)

SECTION 20 ENTERPRISE SUMMARY (CONT)		FARM NUMBER 1000		*****ENTERPRISE NO. 9500*****		DATE PROCESSED 03/20/73		PAGE 15 9	
II DESCRIPTION	UNITS	ENTERPRISE NO. POUNDS	\$100 DOLLARS	UNITS	POUNDS	DOLLARS	UNITS	POUNDS	DOLLARS
15 OTHER LIVESTOCK							2.0		895.00
17 GRAIN									
18 FORAGE	340.0	20,400.0	340.00						3,080.10-
19 CASH CROPS					15,643.0	1,965.62			
20 RENTAL INCOME									330.64
30 PATRONSAGE REFUNDS						4.55			14.20
36 AGRI. PROGRAM PAYMENTS									770.04
TOTAL CURRENT FARM SALES			\$340.00			\$1,970.17			\$1,070.22-
40 MISL CLAR FARM EXPENSE									
41 LABOR	4.0		6.00	307.0		460.50	1,011.0-		803.99
42 REPAIRS			40.00			103.90			
43 INTEREST									3,461.54
44 FEED							150.0	12,475.0	2,799.00-
45 SEEDS AND PLANTS		750.0	130.66		2,813.0	1,021.43		100.0	8.13
46 FERTILIZER-LIME-CHEM		3,040.0	125.60	5.7		122.65	3.0	22,724.0	900.63
47 MACHINE HIRE	585.0		221.21			427.05		65.0	2,408.00
48 SUPPLIES			50.00	7.0		106.82	110.0	50.0	
50 MISCELLANEOUS EXPENSE			50.00			119.50			224.52
51 VETERINARY-MEDICINE									15.63
52 GAS-FUEL-OIL			1.17			76.49	1,040.9		89.47
54 TAXES			40.00	.5		82.18	14.0		
55 INSURANCE			50.00			70.00			
56 UTILITIES (ELEC, PHONE)			10.00			25.00			
58 FREIGHT-TRUCKING	585.0		76.96						10.00
59 CONSERVATION EXPENSE									1,598.00
TOTAL CURRENT FARM EXPENSES			\$509.62			\$2,606.52			\$6,750.91
85 OTHER LIVESTOCK								3.0	1,810.00
TOTAL SALE OF CAPITAL LIVESTOCK			\$0.00			\$0.00			\$1,810.00
87 MACHINERY - EQUIPMENT									
TOTAL SALE OF MACH, BULLS, LAND			\$0.00			\$0.00			\$0.00
97 MACHINERY - EQUIPMENT						350.00			500.00
TOTAL PURCHASE OF MACH, BULLS, LAND			\$0.00			\$350.00			\$500.00
ENTERPRISE OPERATING INCOME			\$340.00			\$1,970.17			\$739.78
OPERATING INVENTORY CHANGE			\$66.00			\$0.00			\$1,579.25-
ENTERPRISE OPERATING EXPENSE			\$809.62			\$2,606.52			\$5,780.91
DEPRECIATION FROM SECT 16			\$0.00			\$245.85			\$322.73
6 PCT INT CHARGE LESS INT PAID			\$297.10			\$542.36			\$2,246.33-
ENTERPRISE OPERATING GAIN OR LOSS			\$596.72-			\$1,424.56-			\$5,696.79-
ENTERPRISE PLT RETURN ON INVESTMENT			\$4.11-			\$9.75-			11.97

TABLE XIII (Continued)

SECTION 21 ENTERPRISE SUMMARY PER UNIT		FARM NUMBER 090875		DATE PROCESSED 03/20/73		PAGE 16	
		-----ENTERPRISE NO. 1100-----		*****ENTERPRISE NO. 1300*****		-----ENTERPRISE NO. 7000-----	
TI	DESCRIPTION	UNITS	POUNDS	DOLLARS	UNITS	POUNDS	DOLLARS
11	BEEF	.9	301.9	180.95	.1	119.1	48.26
17	GRAIN						
18	FCRAGE						16.83
36	AGRI. PROGRAM PAYMENTS						3.66
37	TAX REFUNDS						.08
	TOTAL CURRENT FARM SALES			\$180.95			\$48.26
40	MISC CURR FARM EXPENSE						
41	LABOR	6.5		14.72	1.5		2.73
42	REPAIRS			2.36			.82
44	FEED	10.9	666.0	44.93	2.3	142.3	16.21
45	SEEDS AND PLANTS						1.1
46	FERTILIZER-LIME-CHEM	.1	441.0	12.84	189.7		5.31
47	MACHINE HIRE						82.6
48	SUPPLIES			7.20			1.46
50	MISCELLANEOUS EXPENSE	.2		10.26			1.26
51	VETERINARY-MEDICINE			3.40			.92
52	GAS-FUEL-OIL			.17			.02
54	TAXES			5.61			.78
55	INSURANCE						.63
56	UTILITIES(ELEC,PHONE)			2.38			.59
57	FARM RENT						2.73
58	FREIGHT-TRUCKING						1.40
	TOTAL CURRENT FARM EXPENSES			\$103.09			\$34.23
61	BEEF				.3	262.5	107.59
	TOTAL SALE OF PURCHASES FOR RESALE			\$0.00			\$107.59
71	BEEF				.6	301.2	135.22
	TOTAL PURCHASE OF PURCH FOR RESALE			\$0.00			\$135.22
81	BEEF BREEDING STOCK	.3	311.0	83.01			
	TOTAL SALE OF CAPITAL LIVESTOCK			\$83.01			\$0.00
91	BEEF BREEDING STOCK	20.5		20.23			
	TOTAL PURCHASE OF CAPITAL LIVESTOCK			\$20.23			\$0.00
	ENTERPRISE OPERATING INCOME			\$263.96			\$155.85
	OPERATING INVENTORY CHANGE			\$2.85			\$14.08
	ENTERPRISE OPERATING EXPENSE			\$124.18			\$109.51
	DEPRECIATION FROM SECT 16			\$2.17			\$0.94
	6 PCT INT CHARGE LESS INT PAID			\$60.62			\$17.06
	ENTERPRISE OPERATING GAIN OR LOSS			\$79.03			\$18.78
	ENTERPRISE PCT RETURN ON INVESTMENT			13.90			7.09

TABLE XIII (Continued)

SECTION 21 ENTERPRISE SUMMARY PER UNIT	(CONT)			FARM NUMBER	DATE PROCESSED	PAGE 17				
	ENTERPRISE NO. 25.0	ACRES	25.0			OVERHEAD	550.0	ACRES	550.0	
TI DESCRIPTION	DIVIDED BY	UNITS	POUNDS	DOLLARS	*****	PRIZE NO. 9500*****	DIVIDED BY	UNITS	POUNDS	DOLLARS
15 OTHER LIVESTOCK										1.62
17 GRAIN										
18 FORAGE		13.6	816.0	13.60						5.60-
19 CASH CRKPS						446.9				56.16
20 RENTAL INCOME										.60
35 PATRIDGE REFUNDS										.92
36 ADKL. PROGRAM PAYMENTS										1.40
TOTAL CURRENT FARM SALES				\$13.60		\$56.29				\$1.96-
40 MISC CURR FARM EXPENSE										
41 LABOR	.1			.24	8.7	13.15	1.8-			1.46
42 REPAIRS				1.60		2.96				6.29
43 INTEREST										5.08-
44 FEED							.2	22.0	.1	.01
45 SEEDS AND PLANTS			30.0	5.22		80.3				1.63
46 FERTILIZER-LIME-CHEM			121.6	5.02	.1	3.50		41.3		4.48
47 MACHINE HIRE	23.4			8.84	.2	12.20	.1			.40
48 SUPPLIES				2.00		3.15	.2			.02
50 MISCELLANEOUS EXPENSE				2.00						.10
51 VETERINARY-MEDICINE				.04		2.18	1.8			.01
52 GAS-FUEL-OIL				1.84		2.34				2.90
54 TAXES				2.00		2.00				.71
55 INSURANCE				.40						
56 UTILITIES(ELEC,PHONE)				3.15						.01
58 FREIGHT-TRUCKING	23.4									2.90
59 CONSERVATION EXPENSE										
TOTAL CURRENT FARM EXPENSES				\$32.35		\$74.42				\$12.28
65 OTHER LIVESTOCK										3.29
TOTAL SALE OF CAPITAL LIVESTOCK				\$0.00		\$0.00				\$3.29
67 MACHINERY - EQUIPMENT										
TOTAL SALE OF MACH, BULD, LAND				\$0.00		\$0.00				\$0.00
97 MACHINERY - EQUIPMENT										10.00
TOTAL PURCHASE OF MACH, BULD, LAND				\$0.00		\$10.00				\$0.90
ENTERPRISE OPERATING INCOME				\$13.60		\$56.29				\$1.34
OPERATING INVENTORY CHANGE				\$2.72		\$0.00				\$2.87-
ENTERPRISE OPERATING EXPENSE				\$32.38		\$74.47				\$12.32
DEPRECIATION FROM SECT 16				\$0.00		\$7.02				\$0.58
NET INT CHARGE LESS INT PAID				\$11.00		\$15.49				\$4.78-
ENTERPRISE OPERATING GAIN OR LOSS				\$27.94-		\$40.70-				\$10.35-
ENTERPRISE NET RETURN ON INVESTMENT				\$6.11-		\$7.75-				\$1.97

TABLE XIII (Continued)

SECTION 22 PRODUCTION SECTION	DESCRIPTION	ENTERPRISE NO. 1100		FARM NUMBER 0K0072		DATE PROCESSED 03/20/73		ENTERPRISE NO. 7000		PAGE 18
		UNITS	POUNDS	DOLLARS	UNITS	POUNDS	DOLLARS	UNITS	POUNDS	DOLLARS
OPEN INV OF	MATURE FEMALES	40.0	36,000.0	6,490.00						
	OTHER LIVESTOCK	17.0	6,600.0	2,235.00	38.0	18,425.0	6,564.90			
	GRAIN							183.0		1,830.00
	FEED	800.0	48,000.0	800.00						
PURCHASES OF	BREEDING STOCK	2.0	1,200.0	650.00						
	OTHER LIVESTOCK				83.0	36,450.0	16,362.73			
	FEED	460.0	28,000.0	1,887.30	280.0	17,225.0	1,961.95			
SALES OF	LIVESTOCK	51.0	28,264.0	11,086.69	66.0	46,191.0	18,858.24			
	FORAGE									3,080.10
CLOSE INV OF	MATURE FEMALES	36.0	32,400.0	5,760.00						
	OTHER LIVESTOCK	24.0	15,200.0	3,795.00	38.0	16,960.0	8,365.60			
	GRAIN							203.0		2,030.00
DEATHS AND CASUALTY LOSSES		6.0	1,005.0							
PRODUCTION	BIRTHS	41.0								
	WEANINGS	38.0								
	RESIDUAL LIVESTK	38.0	30,064.0	11,156.69		8,276.0	4,296.61			
	GRAIN							208.0	12,480.0	312.00
	FORAGE									3,080.10
	TOTAL PRODUCTION	38.0	30,064.0	11,156.69		8,276.0	4,296.61	208.0	12,480.0	3,392.10
FEED FED IN ENTERPRISE		1,260.0	76,000.0	2,687.30	280.0	17,225.0	1,961.95			
ITEMS LOST OR UNACCOUNTED FOR		17.0			17.0				12,480.0	112.00

SECTION 22 PRODUCTION SECTION CONTINUED	DESCRIPTION	ENTERPRISE NO. 1100		FARM NUMBER 0K0072		DATE PROCESSED 03/20/73		OVERHEAD		PAGE 19
		UNITS	POUNDS	DOLLARS	UNITS	POUNDS	DOLLARS	UNITS	POUNDS	DOLLARS
OPEN INV OF	OTHER LIVESTOCK			750.00				3.0	3,200.0	1,250.00
	FORAGE	25.0								
PURCHASES OF	FEED							150.0	12,475.0	2,799.00
SALES OF	LIVESTOCK	340.0	20,400.0	340.00				5.0		2,705.00
	FORAGE									3,090.10
	CASH CRUPS					15,643.0	1,965.62			
CLOSE INV OF	OTHER LIVESTOCK			818.00				1.0	1,000.0	250.00
	FORAGE	343.0	19,080.0							
PRODUCTION	RESIDUAL LIVESTK			658.00						2,200.00
	FORAGE	658.0	39,480.0	658.00						1,705.00
	CASH CROP, OTHER					17,220.0	1,965.62			
	TOTAL PRODUCTION	658.0	39,480.0	658.00		17,220.0	1,965.62		2,200.00	1,705.00
ITEMS LOST OR UNACCOUNTED FOR				250.00				3.0	12,475.0	281.10

SECTION 23 ANALYSIS OF PRODUCTION	ENTERPRISE NO.		FARM NUMBER 0K0072		DATE PROCESSED 03/20/73		ENTERPRISE NO.		PAGE 19
	1100	7000	1300	7000	8100	9500	9500	OVERHEAD	
ENTERPRISE SIZE (UNITS)	42,000	121,000	121,000	183,000	25,000	35,000		550.000	
UNITS OF PRODUCTION / UNIT	.994			1.136	26.320				
POUNDS OF PRODUCTION / UNIT	715.809		68.396	68.194	1,579.200	492.000		4,300-	
VALUE OF PRODUCTION / UNIT	265.635		35.509	35.509	18.536	56.160		3.100	
FEED COST / HEAD	63.983		16.214						
FEED COST / 100 LBS PROD	8.938		23.706						
LBS FEED / 100 LBS PROD	252.794		208.131						
VALUE OF PROD / 100 LBS FEED	14.679		24.944						
POUNDS OF PROD / 100 LBS FEED	39.957		48.046						
BIRTHS / 100 DAMS	97.619								
WEANINGS / 100 DAMS	90.476								
WEANINGS / 100 BIRTHS	92.682								
DEATHS / 100 UAMS	14.285								

punched from the Costfinder Analysis Strip, and Balance Due Consolidation programs. Among these cards are accounts payable and receivable, opening and closing inventory, crop reports and corrections. Division C lists the Machinery and Labor Use cards which have been reported throughout the year. The value of this information will be pointed out in the explanation of Sections 16 through 18. Division D lists the cards punched by the depreciation program. They include one card for each type of asset for each enterprise.

Section 11, Table of Income and Expenses is listed in Table XIII. The section is converted to the accrual accounting basis by subtracting the opening accounts payable and receivable and adding closing accounts payable and receivable to include charged purchases and sales made, but not paid for this year. Inventory analysis, Section 12, has been explained in Chapter II because of its application to financial analysis and credit acquisition. However, it is an important part of the whole-farm analysis. Section 13, Value of Net Livestock Production prints only if there were non-zero observations for a particular class of livestock. Net production is computed as Closing Inventory plus Sales minus Purchases less Opening Inventory. In the case of feed, FEED FED is computed as Opening Inventory plus Purchases plus Production minus Sales less Closing Inventory. Accurate computation of feed fed is extremely sensitive to missed inventories and sales. Section 14, Land Use Summary, lists total acres and value of production from the crop report entries listed in Section 10, Division B. Section 15, Analysis Factors, concludes and summarizes the whole-farm analysis. These factors are explained in the Costfinder Report Manual. A sample output of Sections 10, 11, 13, 14, and 15 is listed in Table XIII. These sections

will not be changed as a part of this study. The remaining sections 16-23 will be explained in greater detail to illustrate the modification included in the 1973 version of these sections.

#### 1966-72 Version of Modified Output Sections

Section 16, Machinery Analysis, Table XIII, lists horizontally seven columns for the five individual enterprises, the overhead, and the total. It lists vertically, a major category for each type of machinery, as set out in the General column of the Costfinder code under TI code 96, vehicles, and TI code 97, machinery and one row for TI code 98, buildings. Subcategories under each of the preceding include: (1) ANALYSIS DEPRECIATION which equals 20 percent per year since purchase for machinery and ten percent per year for buildings; (2) HOURS USED which equals the amounts in the MACH HR column of the Machine and Labor Use reports in Section 10 Division C; (3) DEPRECIATION ALLOCATED which equals the percentage distribution among enterprises of the depreciation computed. Opening and closing inventories for machinery and buildings for each enterprise concludes this section.

Section 17, Labor Section is listed in Table XIII. Across the top of the page, five enterprises, overhead, and totals are printed just as in Section 16. Each enterprise lists the number of hours and total cost for each row. One row is listed for each job according to the machine or building used. The number of hours is determined from the data in Section 10, Division C. Labor is valued at \$1.50 per hour to calculate cost for allocation purposes.

Section 18, Fuel Section, is organized horizontally the same as Section 16 and 17. Gallons and cost are listed for each enterprise

and row. Vertically, there is one row for each type of machinery and a separate row in each machine type for each fuel used. The total number of gallons is taken from Machine and Labor Use column, GAL FUEL, while cost is determined by multiplying gallons by a preassigned value which is listed at the bottom of Section 18, Table XIII.

Section 19, Inventory Analysis of Enterprises, utilized the same data cards that were used in Section 12 whole-farm Inventory analysis.<sup>4</sup> Horizontally, three enterprises are printed per page. Information listed for each of the enterprises includes units, pounds, and dollars. Vertically, the difference in opening and closing inventory represents total operating inventory change. In this section livestock is considered in operating inventory, while buildings, machinery, and land are classified as non-operating investment.

Section 20, Enterprise Summary, is listed in Table XIII. The top of the page is a duplicate of Section 19 with three enterprises per page. Vertically, only those TI categories that are used by one of the three enterprises on that page, are printed. Sub-totals are printed for non-farm income, farm sales, farm expenses, sale of items purchased for resale, purchase of items purchased for resale and purchase and sales of capital assets. Operating income plus inventory change and expenses, less depreciation, from section 16, and an interest charge equal enterprise operating gain or loss.

Since the enterprise section is always on an accrual basis, there is no adjustment to accounts payable and receivable necessary. However,

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<sup>4</sup>A sample of Section 19 is listed in Table XIII.



the following adjustments are made: (1) operator and family labor is valued at \$250 per month and added to TI code 41 in the overhead enterprise; (2) enterprise labor costs from Section 17 added to the individual enterprises and subtracted from overhead; (3) fuel costs from Section 18, are added to the individual enterprise and subtracted from overhead; (4) depreciation from Section 16 is charged in the summary part of the section for each enterprise; (5) a capital charge of six percent on average investment and operating expenses adjusted for income is also added to the costs in the summary part of Section 20. Also land inventoried in the enterprise on the closing inventory is assumed to have been used by that enterprise, and interest is charged accordingly.<sup>5</sup>

Section 21, Enterprise Summary Per Unit, Table XIII, is the same as Section 20, except that all figures have been divided by the number of units in the enterprise. The divisors and their method of calculation are listed in the Costfinder Report Manual. For crop and livestock enterprises, this per unit section provides a budget on a per-acre or per-head basis which may be used for comparison and planning purposes.

Section 22, Production Section, Table XIII, is organized horizontally the same as Sections 19, 20, and 21. Three enterprises per page are listed with units, pounds, and dollars for each enterprise. Opening inventory of mature females and other livestock is added to purchases

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<sup>5</sup>Ted R. Nelson and William L. Brant, Costfinder Report Manual (Oklahoma State University, 1970), pp. 19-20.

of livestock, while sales and closing inventory are subtracted to give Net Production of livestock. Also, births and weaning are included on a per-head basis. For crop enterprises, ITEMS LOST OR UNACCOUNTED FOR equal opening inventory plus crops purchased or internally transferred in plus production minus crop sales or items internally transferred out of the enterprise minus closing inventory. ITEMS LOST OR UNACCOUNTED FOR should equal zero except for omissions and inventory estimation errors. The crop production information comes directly from the crop report entries, account code 8.

Section 23, Analysis of Production, Table XIII, lists the following production efficiency factors. Enterprise units is the same as defined in Section 21, Per Unit Summary. Units of production per unit may be bushels per acre, or tons of hay per acre depending on the enterprise. Pounds of production per unit represents such measures as Beef per Cow, or Milk per Cow. The value of production per unit divides the dollar value of production by the number of units in the enterprise.

The remaining efficiency factors are self-explanatory. Birth rate per 100 dams for cattle is the percent calf crop. Weanings per 100 dams and weanings per 100 births are recognized as weaning rate depending on the enterprise. Deaths per 100 dams is referred to as the death rate. These production factors are listed horizontally for each enterprise and overhead.

The previous explanation of the year-end analysis program, Section 10 through 23, was given to provide a comparison with the new version of the program and provides an understanding of the reasons for change. It will also help in evaluating the merit of the changes made.

## 1973 Version of Sections 16 Through 22

The original initiative for modification of the year-end analysis program was the modification of the enterprise sections, printed in Sections 16 through 23. Depending on the amount of input data, the printing of these sections could require as much as fifteen pages of computer output. It is confusing and inconvenient to search among these fifteen pages to analyze all information relating to an individual enterprise.

### Objectives

The first objective of this modification is to list all analysis information relating to an individual enterprise on one or two consecutive pages. The enterprises would appear in single-file instead of three per page in each of the sections. The second objective is to reduce duplication of output information. For example, inventory information appears in Sections 19, 20, 21 and 22. The third objective is to minimize the increase in the number of pages of output and possibly to reduce the number of pages needed. Long and complex computer printouts can be discouraging to a farmer.

### Sections 16 Through 18

The following will explain the reorganization of year-end analysis Sections 16 through 22. Sections 16 through 18 are similar in their organization.<sup>6</sup> As a result, these three sections are combined into one

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<sup>6</sup>Sections 16 through 18 are listed in Table XIII.

section that lists the information from all three sections relating to one enterprise. The title line of Section 16, Machinery, Labor and Fuel Analysis lists the enterprise.<sup>7</sup> Vertically, the categories are the same for all three sections. They represent each type of machinery as set out in the GENERAL column of the Costfinder code under TI code 96, vehicles, TI code 97, machinery, and one row for TI code 98, buildings. Across the page, Ending Value, Hours Used, and Depreciation Allocated appear from the old Section 16. From the old Section 18, the basic fuels are listed: Gas, Deisel, and others. Value is determined by multiplying the number of gallons by a predetermined price. Values from the old Section 17, Labor, include the two workers having the largest number of hours of labor allocated to this enterprise. All other labor is added to give total hours of labor which is multiplied by a predetermined price to yield total labor cost. The last column is a total of the depreciation, fuel and labor cost for each type of machinery. Enterprise totals are listed for each horizontal category. This new section is expected to be shorter than either of the old Sections 17 or 18. A farm which uses many types of specialized machinery and buildings should require no more than one-half page for this section.

The most apparent saving of space is in the old Section 16. In practice most machinery depreciation costs are not allocated to a specific enterprise, thus most values are listed in overhead. Table XIII indicates a large amount of blank space in the old Sections 16, 17, and 18.

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<sup>7</sup>A sample of the new Section 16 Machinery, Labor, and Fuel Analysis is listed in Table XIV.

TABLE XIV

THE 1973 VERSION OF SECTION 16, MACHINE, FUEL, AND LABOR  
ANALYSIS AND SECTION 19, ENTERPRISE ANALYSIS

SECTION 16 MACHINE LABOR AND FUEL ANALYSIS				ENTERPRISE 9500				PEANUTS				PAGE 10		
TI CODE	DESC	ENDING VALUE	HOURS USED	DEPREC ALLOCATD	FUEL GAS	USED *****		-----LABOR USED-----			TOTAL \$VALUE	TOTAL \$ COST		
						DEISEL	OTHER	\$VALUE	WKR 1	WKR 07	OTHERS	TOTAL		
63	TRACTORS		187.00	61.63	3.0		.72	1.0				1.0	63.85	
73	MATER & HDNG		3.00	2.21	10.0		2.40	3.0				3.0	9.11	
74	TILLAGE MACH		64.00	36.91	45.0	172.0	33.16	50.0	23.0			73.0	179.57	
75	PLANT & CULT	137.00	51.00	78.78		99.0	12.87	31.0	22.00		9.0	62.0	184.65	
76	IRRRG & CHEM		14.00	23.58	40.00		9.60	10.0	5.0	2.0		17.0	58.68	
77	HARVST EQUIP	173.00	38.00	40.00		70.0	9.10	45.0	7.0			52.0	127.10	
78	HAYING EQUIP		16.00	2.47	36.00		8.64	10.0	12.0	2.0		24.0	47.11	
	MISCELLANEOUS							50.0	25.0			75.0	112.50	
ENTRPRSE TOTALS				310.00	573.00	245.85	134.0	341.0	76.49	200.0	94.0	13.0	307.0	782.52

SECTION 19 ENTERPRISE ANALYSIS				PER ACRE ON 35 ACRES			PER HUNDREDWEIGHT ON 156.43 CWT.			
TI CODE	DESCRIPTION	UNITS	POUNDS	DOLLARS	UNITS	POUNDS	DOLLARS	UNITS	POUNDS	DOLLARS
INCOME										
019	CASH CROPS		15643.0	1965.62		446.94	56.16		1.0	12.50
035	PATRONAGE REFUNDS			4.55			.13			.03
	TOTAL INCOME			1970.17			56.29			12.53
CLOSING INVENTORY										
590	MISC CAPITAL ASSET			710.00			20.28			.61
599	LAND	35.0		7000.00			2000.00			44.74
	TOTAL CLOSING INVENTORY			7710.00			2020.28			45.35
OPENING INVENTORY										
590	MISC CAPITAL ASSET			710.00			20.28			.61
599	LAND	35.0		7000.00			2000.00			44.74
	TOTAL OPENING INVENTORY			7710.00			2020.28			45.35
EXPENSES										
041	LABOR			460.50			13.20			2.94
042	REPAIRS			103.90			2.96			.66
045	SEEDS & PLANT		2813.0	1021.43		80.37	29.18		17.98	6.52
046	FERT-LIME-CHEM			122.65			3.50			.78
047	MACHINE HIRE			427.05			12.20			2.72
048	SUPPLIES	7.0		106.82			3.05			.68
050	MISC EXPENSES			110.50			3.15			.70
052	GAS-FUEL-OIL			76.49			2.18			.49
054	TAXES			82.18			2.34			.52
055	INSURANCE			70.00			2.00			.44
056	UTILITIES			25.00			.71			.15
	TOTAL EXPENSES	7.0	2813.0	2606.52		80.37	74.47		17.98	16.67
RETURNS SUMMARY										
	TOTAL OPERATING RETURNS			1970.17			56.29			12.52
PLUS:	NET INVENTORY CHANGE			0.00			0.00			0.00
LESS:	TOTAL OPERATING EXPENSES			2606.52			74.47			16.67
GIVES:	RETURNS TO LABOR CAPITAL MACH & MGMT			-636.35			-18.15			-4.06
LESS:	DEPRECIATION			245.85			7.11			1.59
GIVES:	RETURNS TO LABOR, CAPITAL & MGMT			-885.20			-25.29			-5.65
LESS:	INTERNAL LABOR			0.00			0.00			0.00
GIVES:	RETURN TO CAPITAL AND MANAGEMENT			-885.20			-25.29			-5.65
LESS:	INTEREST ON OPERATING INVESTMENT			542.36			14.01			3.46
LESS:	LAND CHARGE			0.00			0.00			0.00
GIVES:	RETURN TO MANAGEMENT			-1427.56			-40.87			-9.12
DIV BY:	AVERAGE INVESTMENT			14610.87			-417.45			-93.40
GIVES:	RATE OF RETURN ON INVESTMENT			-9.75						

Sections 19 Through 22

Sections 19 through 22, Table XIII, lists Inventory, Income and Expense Accounting, Per Unit Division, and Production Analysis in the respective sections. The modifications are designed to combine the important information from each of these sections for one enterprise. This section will follow the new Section 16 which has previously been explained. Thus, all information relating to one enterprise will appear on one or two consecutive pages. The heading of the 1973 version of Section 19, Enterprise Analysis, Table XIV, includes three sets of units, pounds, and dollars as in the old section. Total figures from the old Section 20 are first. The second set have been divided by the enterprise size just as in the old per unit Summary, Section 21. Enterprise size may be defined as number of head or acres. The third set of unit pounds, and dollars have been divided by the number of hundred weights, bales, bushels, or tons produced by the enterprise. Horizontally, the three sets of figures provide information previously listed in Sections 20, 21, and 22. The analysis of any enterprise must include inventory, income and sales, and purchases and expenses. Vertically, the first category is income which includes Product sales, Capital sales, and sales of Items Purchased for Resale. The total of these items is added to closing inventories to give total operating returns.

Opening inventories and production expenses, which include purchases of Capital assets, items purchased for resale, and the cost of internally transferred items, are added to yield total operating expenses. The difference in returns and expenses gives returns to Labor,

Capital, Machinery, and Management. Then depreciation from Section 16 is subtracted to give returns to Labor, Capital, and Management. Return to capital and management can be obtained by subtracting internal labor. Return to management is then obtained by taking out interest on operating investment, or on opportunity cost, and subtracting a land charge. Thus, by dividing the return to management by average investment, the more familiar rate of return on investment is obtained. Section 23 will be printed after the last enterprise.

The preceding discussion explains the enterprise analysis information for one enterprise. Depending on the type of enterprise, the new Section 16 and 19 should take no more than two pages. If the average farm has five enterprises the number of pages of computer printout will not increase. Obviously all enterprise information relating to one enterprise will be listed on one or two consecutive pages. Some duplication of information is unavoidable in providing understandable financial and production analysis information.

#### Comparison With Other Farms

A very important part of financial and production analysis is comparing one's results with other farms of the same type, geographical area, or size. The Costfinder program, Analysis Comparison, provides a variety of possible alternatives.<sup>8</sup> The year-end analysis program punches a wholefarm header card for each farm processed. This card contains the current year, farm number, gross farm production, farm size

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<sup>8</sup>The Analysis Comparison program was initiated in 1969 by Ted R. Nelson, Extension Economist. Original programming was done by Steve Schultz, student programmer. Modifications since that time have been completed by Mike Hardin, Research Assistant.

index, return to labor and management, percent return to labor and management, percent of crop land irrigated, and percent of gross farm production from: beef, dairy, swine, other livestock, poultry, grain, forage, and cash crops. A comparison can be made on each of the previously listed categories in the wholefarm header card. The year-end analysis program also writes all wholefarm information on a disk file so that the analysis comparison program generates an output very similar to Sections 11 through 15. Table XV lists Sections 41 through 45 which contains three sets of information. However, the three sets in these sections represent: (1) low group, (2) high group, and (3) average of all farms. As previously mentioned, comparisons can be made based on any of the values listed in the wholefarm header card. By printing the wholefarm header cards for all farms in a particular comparison run, the high and low value can be determined so that one-third of the values of the farms included will fall below and above respectively the low and high values chosen. This program allows the farmer to compare his farm with other farms. For example, comparisons can be made on rates of return using only the farms receiving more than 50 percent of their gross farm income from beef, or dairy, or any percent that is determined.

The year-end analysis program also punches an enterprise header card for each enterprise. This card contains the current year, unique farm number, enterprise code, enterprise size or units, percent return on average investment, percent contribution to gross farm production and return per unit. It has been suggested that a program similar to the wholefarm analysis comparison program be written to compare enterprises. Careful examination of these enterprise header cards indicated that this



TABLE XV

THE ANALYSIS COMPARISON PROGRAM PRINTOUT

SECTION	41	1970 ALL FARMS BY RATE WITH AN AVG INVESTMENT-OKLA.				DATE PROCESSED 03/22/75				PAGE 01			
		LOW GROUP BELOW				HIGH GROUP ABOVE				AVERAGE OF ALL FARMS			
	# OBS	UNITS	POUNDS	DOLLARS	# OBS	UNITS	POUNDS	DOLLARS	# OBS	UNITS	POUNDS	DOLLARS	
10 MISC CURRENT FARM SALE	( 1 )			4,000.00					( 1 )			4,000.00	
11 BEEF	( 40 )	85	35,047	14,850.07	( 5 )	43	15,174	5,457.19	( 52 )	80	32,782	13,580.83	
12 LAIRY	( 17 )	25	6,135	2,182.91					( 18 )	25	5,001	2,158.77	
13 SHEEP					( 5 )	116	4,115	2,882.47	( 0 )	98	3,564	2,433.36	
14 SWINE	( 9 )	231	41,490	11,351.17	( 2 )	418	4,565	32,145.75	( 11 )	265	34,702	15,132.00	
15 OTHER LIVESTOCK	( 1 )	15		4,850.00					( 1 )	15		4,850.00	
17 GRAIN	( 45 )	7341	440,663	12,925.65	( 6 )	15950	531,014	20,506.32	( 52 )	8224	490,181	12,801.13	
18 FORAGE	( 25 )	1620	233,215	5,988.34	( 4 )	994	799,878	4,084.77	( 34 )	1513	293,652	3,531.96	
19 CASH CROPS	( 31 )	1334	44,795	10,887.73	( 2 )	143	1,870	622.82	( 34 )	1225	40,960	9,782.00	
TOTAL RAISED SALES	( 62 )			28,993.03	( 0 )			41,102.08	( 69 )			29,757.93	
20 RENTAL INCOME	( 37 )	168	7,328	3,839.38	( 3 )			1,254.00	( 41 )	152	8,613	3,439.22	
21 FRUITS AND NUTS	( 5 )		37,910	13,306.47					( 5 )		37,910	13,306.47	
22 LAIRY PRODUCTS	( 17 )	218	946,576	91,341.81					( 18 )	206	919,427	99,466.09	
23 WCLL	( 1 )			31.04	( 4 )		1,176	827.94	( 0 )		827	420.90	
24 MEAT PRODUCTS	( 2 )	5	3,254	1,554.22					( 2 )	5	3,254	1,554.22	
26 EGGS	( 1 )			2,183.80					( 1 )			2,183.80	
28 VEGETABLES	( 1 )	12		2,024.19					( 1 )	12		2,024.19	
29 SUPPLIES SOLD	( 10 )	11	17,019	1,207.27					( 11 )	19	15,471	1,154.89	
TOTAL PRODUCT SALES	( 50 )			25,200.42	( 6 )			1,032.29	( 57 )			22,815.36	
30 SPECIAL INCOME	( 8 )			62.94					( 8 )			62.94	
31 MERCHANDISE REC.	( 1 )			12.30					( 1 )			12.30	
32 MALTING WORK	( 29 )	354	419	1,099.76	( 3 )	40		488.48	( 32 )	306	380	1,588.22	
33 BREEDING FEES	( 1 )			110.00	( 1 )			150.00	( 2 )			130.00	
34 WOOD AND LUMBER	( 3 )	300	1,843	501.24					( 3 )	300	1,843	501.24	
35 PATRONAGE REFUND	( 35 )		434	504.08	( 4 )			220.90	( 40 )		379	493.51	
36 AGRIC. PROGRAM	( 52 )	15		7,189.48	( 6 )			7,414.88	( 59 )	13		7,152.49	
37 TAX REFUNDS	( 9 )			207.80	( 3 )			226.47	( 12 )			212.47	
38 INSURANCE PROCEEDS	( 1 )			155.63	( 3 )	2		139.79	( 15 )			152.46	
39 MISC SALES	( 28 )			376.72	( 3 )			84.64	( 31 )			347.61	
TOTAL ADDITIONAL FARM INCOME	( 56 )			9,145.61	( 0 )			6,255.37	( 63 )			8,054.65	
60 MISC PURCHASES FOR RESALE	( 2 )		18,300	16,369.98					( 2 )		18,300	16,369.98	
61 BEEF	( 34 )	219	132,031	46,709.19	( 4 )	94	44,236	18,550.99	( 38 )	206	122,790	43,745.17	
63 SHEEP	( 1 )	2		55.63	( 1 )	1	80	25.00	( 2 )	1	40	30.41	
64 SWINE	( 4 )	133	26,748	7,156.38	( 1 )	3		154.41	( 5 )	107	24,596	5,755.98	
65 OTHER LIVESTOCK	( 1 )			55.25					( 1 )			55.25	
67 GRAIN	( 7 )	598	132,201	5,506.29					( 7 )	595	132,201	5,366.29	
68 FORAGE	( 3 )	709	85,613	2,602.35					( 3 )	709	85,613	2,602.39	
69 CASH CROPS	( 1 )	2511	216,878	15,182.18					( 1 )	2511	216,878	13,182.16	
TOTAL SALE OF PUR. FOR RESALE	( 36 )			47,447.84	( 4 )			18,595.85	( 40 )			44,562.64	
60 MISC SALE OF CAP ASSETS	( 2 )			10,989.25					( 2 )			10,989.25	
61 BEEF BREEDING	( 44 )	24	17,267	4,706.77	( 3 )	8	9,515	1,856.71	( 42 )	22	16,487	4,446.81	
62 LAIRY	( 17 )	22	26,031	5,927.20					( 15 )	21	25,919	5,695.51	
63 SHEEP					( 3 )	16	2,203	175.86	( 4 )	13	1,742	152.52	
64 SWINE	( 7 )	27	10,070	1,876.30	( 1 )	40	625	3,446.21	( 8 )	28	9,889	2,072.54	
65 OTHER LIVESTOCK	( 2 )	3		1,749.25					( 2 )	5		1,749.25	
66 MOTOR VEHICLES	( 10 )			623.65	( 1 )			400.00	( 11 )			603.31	
67 MACHINERY AND EQUIPMENT	( 1 )			332.39					( 12 )			321.35	
68 BUILDINGS AND IMPROV.	( 1 )			3,500.00					( 1 )			3,500.00	
69 LAND	( 6 )	72		10,101.99	( 1 )	11		5,595.00	( 7 )	63		4,458.14	
TOTAL SALE OF CAPITAL ASSETS	( 58 )			7,246.90	( 5 )			3,107.78	( 64 )			6,856.14	
TOTAL GROSS FARM INCOME	( 62 )			91,075.17	( 6 )			65,376.80	( 69 )			88,152.40	
40 MISC CURRENT FARM EXPENSE	( 35 )			435.63	( 2 )			832.15	( 37 )			457.56	
41 LABOR HIRED	( 61 )	512		7,044.37	( 6 )	541		3,501.12	( 68 )	510		6,632.68	
42 REPAIRS	( 62 )		26	3,118.02	( 6 )	167		2,698.23	( 69 )	19	23	3,056.63	

TABLE XV (Continued)

SECTION 41		1970 ALL FARMS BY RATE RTN ON AVG INVESTMENT-OKLA.				DATE PROCESSED 03/22/75				PAGE 02			
		LOW GROUP BELOW		1.89	HIGH GROUP ABOVE		6.01	AVERAGE OF ALL FARMS					
	# OBS	UNITS	POUNDS	DOLLARS	# OBS	UNITS	POUNDS	DOLLARS	# OBS	UNITS	POUNDS	DOLLARS	
43	INTEREST	( 59)			6,223.30 ( 6)			3,877.30 ( 66)				5,959.75	
44	FEED	( 61)	2218	360,307	11,481.23 ( 6)	307	109,849	5,743.53 ( 68)	2017	333,432	10,833.79		
45	SEEDS AND PLANTS	( 57)	104	15,524	1,233.72 ( 6)	555	16,456	1,037.53 ( 64)	198	15,374	1,197.11		
46	FERTILIZER-LIME-CHEM	( 60)	348	103,944	4,460.72 ( 6)	105	340,457	5,108.90 ( 67)	326	124,120	4,474.51		
47	MACHINE HIRE	( 62)	1071	20,099	2,320.21 ( 6)	792		1,792.97 ( 69)	1032	23,914	1,974.18		
48	SUPPLIES PURCHASED	( 62)	75	3,434	1,744.32 ( 6)	12	7	1,253.34 ( 69)	70	3,657	1,876.99		
49	BREEDING FEES	( 23)	16		698.20 ( 24)				16		780.43		
50	MISCELLANEOUS EXPENSE	( 62)	23		835.19 ( 6)	4		960.45 ( 69)	24		889.90		
51	VETERINARY-MEDICINE	( 60)	32	22	906.03 ( 6)	5		739.38 ( 67)	30	20	875.95		
52	CAS-FUEL-CIL	( 61)	3493	30	2,243.46 ( 6)	5593	17	1,815.39 ( 68)	3688	34	2,188.85		
53	STORAGE-WAREHOUSE	( 20)	121	0,712	320.59 ( 3)	2		41.94 ( 24)	127	5,751	273.97		
54	TAXES	( 60)	44		1,536.27 ( 6)	100		2,077.03 ( 67)	49		1,581.75		
55	INSURANCE	( 61)			739.11 ( 6)			748.54 ( 58)			732.18		
56	UTILITIES (ELEC, PHONE)	( 60)	694		552.37 ( 6)	61		692.85 ( 67)	627		831.46		
57	FARM RENT	( 58)	182	353	4,243.41 ( 6)	158		1,985.24 ( 65)	177	315	4,079.51		
58	FREIGHT-TRUCKING	( 58)	1131	90,419	1,873.52 ( 6)	1055		659.15 ( 65)	1231	04,137	1,786.93		
59	CONSERVATION EXPENSE	( 27)	12		693.12 ( 2)	9		404.30 ( 30)	11		681.22		
	TOTAL CURRENT FARM EXPENSE	( 62)			50,361.58 ( 6)			33,088.62 ( 69)			48,576.28		
70	MISC PURCHASES FOR RESALE	( 2)		18,300	14,732.10 ( 2)				( 2)		18,300	14,732.10	
71	BEEF	( 30)	231	75,639	31,728.92 ( 4)	131	46,174	15,939.15 ( 40)	221	72,693	30,131.95		
72	DAIRY	( 3)	1		480.21 ( 3)				( 3)	1	480.21		
73	SHEEP	( 1)	0		102.50 ( 1)	0			( 1)	0	102.00		
74	SWINE	( 6)	71	3,260	1,061.93 ( 1)	0		213.00 ( 7)	61	2,600	935.69		
76	POLLTRY	( 3)	24		67.35 ( 3)				( 3)	24	67.35		
77	GRAIN	( 4)	3916	320,307	9,505.28 ( 4)	3916	320,307	9,595.28 ( 4)	3916	320,307	9,595.28		
78	PACKAGE	( 3)	134	33,182	3,796.17 ( 3)	134	33,182	3,796.17 ( 3)	134	33,182	3,796.17		
79	CASH GROUPS	( 3)	971	60,526	2,741.07 ( 3)	971	60,526	2,741.07 ( 3)	971	60,526	2,741.07		
	TOTAL PUR. OF PUR. FOR RESALE	( 42)			29,526.02 ( 4)			15,991.65 ( 46)			28,349.67		
90	MISC PUR OF CAPITAL ASSETS	( 8)	125	227	12,387.32 ( 8)				( 9)	111	245	11,530.15	
91	BEEF BREEDING	( 20)	13	9,355	3,543.40 ( 2)	1	700	775.00 ( 31)	12	3,517	3,258.55		
92	DAIRY	( 9)	22	29,178	10,259.90 ( 4)	5	270	383.75 ( 4)	22	29,178	10,259.58		
93	SHEEP	( 6)	11	1,575	968.70 ( 1)	58		8,079.05 ( 7)	17	1,350	1,964.46		
94	SWINE	( 1)	1		300.00 ( 1)	1		40.00 ( 2)	1		170.00		
95	OTHER LIVESTOCK	( 46)			4,454.37 ( 5)	2		2,209.67 ( 52)			4,226.74		
96	VEHICLES	( 36)	37	740,833	3,199.24 ( 5)			3,148.07 ( 62)	34	606,747	3,166.04		
97	MACHINERY	( 27)			2,360.13 ( 2)			1,535.83 ( 30)			2,242.52		
98	BUILDINGS	( 10)	53		20,453.59 ( 1)			6,557.10 ( 11)	48	18	19,372.09		
	TOTAL PUR. OF CAPITAL ASSETS	( 62)			15,317.72 ( 6)			9,844.51 ( 68)			14,843.28		
	TOTAL FARM EXPENSE	( 62)			65,681.22 ( 6)			33,933.66 ( 69)			82,104.23		
	TOTAL FM CASH ADJ FOR AP, AK	( 62)			5,393.95 ( 6)			11,443.11 ( 69)			6,048.17		

TABLE XV (Continued)

SECTION	42	1970 ALL FARMS BY RATE RTN ON AVG INVESTMENT-ORLA					DATE PROCESSED 03/22/73					PAGE 03
		LOW GROUP BELOW		1.00	HIGH GROUP ABOVE	0.01	AVERAGE OF ALL FARMS					
		# OBS OPERATIONS	OTHERS	TOT FARMS	# OBS OPERATIONS	OTHERS	TOT FARMS	# OBS OPERATIONS	OTHERS	TOT FARMS		
OPEN INV OF LASH & MISC ASSET	( 23)	9,127		9,127 ( 4)	1,472		1,472 ( 24)	7,655		7,655		
RAISEU LIVESTOCK	( 53)	10,132	333	10,465 ( 6)	3,992		4,492 ( 60)	9,745	314	10,060		
RAISEU GRAIN	( 45)	6,005	101	6,106 ( 0)	6,003		6,003 ( 32)	7,990	87	8,077		
RAISEU FORAGE	( 45)	5,767	26	5,815 ( 3)	4,290		4,290 ( 51)	5,720	24	5,745		
RAISEU CASH CROPS	( 10)	4,350	2	4,352 ( 0)				4,350	2	4,352		
PRODUCTS, FEED, SUPPLIES	( 41)	4,617	2	4,619 ( 0)	4,272		4,272 ( 45)	4,630	2	4,632		
LIVESTOCK FOR RESALE	( 20)	33,350	76	33,426 ( 3)	16,012		16,012 ( 29)	36,529	70	36,609		
CROPS FOR RESALE	( 2)	2,290		2,290 ( 0)				2,290		2,290		
MISC CAPITAL ASSETS	( 14)	45,324	1,502	46,826 ( 3)				45,324	1,502	46,826		
BREEDING LIVESTOCK	( 37)	31,682	1,000	32,682 ( 0)	11,453		11,453 ( 64)	29,001	1,441	30,442		
VEHICLES AND MACHINERY	( 42)	23,129	570	23,699 ( 0)	20,669		20,669 ( 69)	22,003	512	22,515		
BUILDINGS AND FENCES	( 60)	12,004	692	12,696 ( 0)	12,769		12,769 ( 67)	11,966	633	12,600		
LAND	( 62)	173,053	95,335	268,388 ( 6)	192,440	191,572	344,012 ( 69)	169,127	103,486	272,614		
TOTAL OPENING INVENTORY	( 62)	280,455	300,071	580,526 ( 6)	227,037	191,572	418,610 ( 69)	280,455	130,752	411,207		
PLUS OPEN CURRENT ACCTS REC	( 21)	7,615	046	7,661 ( 4)	2,626		2,626 ( 37)	6,776	268	7,044		
AND OPEN CAPITAL ACCTS REC	( 1)	2,190		2,190 ( 0)				2,190		2,190		
LESS OPEN CURRENT ACCTS PAY	( 61)	30,233	1,000	31,233 ( 3)	24,666		24,666 ( 68)	24,049	1,433	25,482		
AND OPEN CAPITAL LIABILITIES	( 50)	3,000		3,000 ( 0)	43,092		43,092 ( 36)	57,025	1,500	58,525		
YIELD TOTAL OPENING NET WORTH	( 62)	194,776	56,835	251,611 ( 6)	191,810	191,572	343,362 ( 69)	193,947	104,294	298,242		
CLOSE INV OF LASH & MISC ASSET	( 10)	12,305		12,305 ( 2)	525		525 ( 21)	10,051		10,576		
RAISEU LIVESTOCK	( 51)	13,009	327	13,336 ( 3)	7,665		7,665 ( 36)	15,423	464	15,887		
RAISEU GRAIN	( 44)	7,317	295	7,612 ( 0)	6,466	100	6,566 ( 51)	9,033	283	9,316		
RAISEU FORAGE	( 44)	5,337	01	5,338 ( 0)	2,931		2,931 ( 36)	5,123	53	5,176		
RAISEU CASH CROPS	( 10)	3,243	00	3,243 ( 0)				3,243	00	3,243		
PRODUCTS, FEED AND SUPPLIES	( 42)	4,111	00	4,111 ( 0)	4,766		4,766 ( 46)	4,123	413	4,536		
LIVESTOCK FOR RESALE	( 20)	43,682	79	43,761 ( 0)	21,406		21,406 ( 27)	42,310	70	42,380		
CROPS FOR RESALE	( 2)	6,607		6,607 ( 0)				6,607		6,607		
MISC CAPITAL ASSETS	( 14)	30,333	2,022	32,355 ( 3)				30,333	2,022	32,355		
BREEDING LIVESTOCK	( 37)	35,492	1,921	37,413 ( 0)	12,926		12,926 ( 62)	33,142	1,774	34,916		
VEHICLES AND MACHINERY	( 42)	24,038	603	24,641 ( 0)	20,452		20,452 ( 69)	23,297	614	23,911		
BUILDINGS AND FENCES	( 60)	11,583	702	12,285 ( 0)	12,007		12,007 ( 67)	11,356	743	12,100		
LAND	( 62)	173,022	95,217	268,239 ( 6)	192,006	191,572	343,438 ( 69)	174,533	104,275	278,808		
TOTAL CLOSING INVENTORY	( 62)	298,511	100,356	398,867 ( 6)	231,523	191,759	423,282 ( 69)	289,124	130,234	419,358		
PLUS CLOSE CURR ACCTS REC	( 21)	7,894	344	8,238 ( 4)	3,794		3,794 ( 35)	7,311	613	7,924		
AND CLOSE CAP ACCTS REC	( 1)	1,709		1,709 ( 0)				1,709		1,709		
LESS CLOSE CURR ACCTS PAY	( 61)	36,050	2,015	38,065 ( 3)	23,086		23,086 ( 68)	25,213	3,026	28,239		
AND CLOSE CAP LIABILITIES	( 50)	36,140	1,371	37,511 ( 0)	33,672		33,672 ( 35)	34,490	1,213	35,703		
YIELD TOTAL CLOSING NET WORTH	( 62)	236,965	97,162	334,127 ( 6)	195,942	191,759	347,771 ( 69)	230,777	144,630	375,407		
TOTAL INVENTORY CHANGE	( 62)	10,756	1,000	11,756 ( 6)	3,005	100	3,072 ( 69)	9,421	1,532	10,953		
CHANGE IN NET WORTH	( 62)	1,167	507	1,674 ( 0)	4,132	100	4,232 ( 69)	6,365	535	6,900		
OPENING CURRENT LOANS	( 54)	51,161	1,807	52,968 ( 3)	40,181		40,181 ( 60)	49,911	1,627	51,538		
OPENING NONCURRENT LOANS	( 47)	69,295	1,000	70,295 ( 0)	41,513		41,513 ( 54)	57,632	1,623	59,255		
CLOSING CURRENT LOANS	( 55)	57,017	2,937	60,954 ( 3)	32,034		32,034 ( 61)	50,757	3,163	53,920		
CLOSING NONCURRENT LOANS	( 45)	98,803	1,003	99,806 ( 0)	40,424		40,424 ( 51)	55,044	973	56,017		
OPENING 4 OWNER EQUITY	( 57)	00	97	97 ( 0)	00	1.00	00 ( 0)	00	97	97		
CLOSING 4 OWNER EQUITY	( 57)	00	90	90 ( 0)	00	1.00	00 ( 0)	00	90	90		
DEBT SERVICE TO GROSS FM INC	( 60)	03	36	39 ( 0)	54		54 ( 67)	42	36	78		
TOTAL FARM CASH EARNINGS PLUS	( 62)	3,053	2,340	5,393 ( 0)	6,110	3,332	11,443 ( 69)	3,478	2,509	6,048		
NONCASH INVENTORY CHANGE	( 62)	4,413	1,000	5,413 ( 0)	4,557	100	4,744 ( 69)	3,910	1,532	5,446		
INTEREST PAID EQUALS	( 59)	6,041	102	6,143 ( 0)	3,877		3,877 ( 66)	5,768	150	5,918		
RET TO UNPAID LAB, CAP, MONT	( 62)	18,215	4,001	22,216 ( 0)	14,485	5,519	20,004 ( 65)	17,907	4,285	22,192		
LESS UNPAID FAMILY LABOR	( 60)	3,032		3,032 ( 0)	3,750		3,750 ( 67)	3,074		3,074		
YIELDS RETURN TO CAP AND MONT	( 62)	14,730	4,271	19,001 ( 0)	10,735	5,519	16,254 ( 69)	14,833	4,285	19,118		

SECTION	42	1970 ALL FARMS BY RATE RTN ON AVG INVESTMENT-ORLA					DATE PROCESSED 03/22/73					PAGE 04
		LOW GROUP BELOW		1.00	HIGH GROUP ABOVE	0.01	AVERAGE OF ALL FARMS					
		# OBS OPERATIONS	OTHERS	TOT FARMS	# OBS OPERATIONS	OTHERS	TOT FARMS	# OBS OPERATIONS	OTHERS	TOT FARMS		
DIVIDED BY AVERAGE CAPITAL	( 62)	516,710	99,890	616,600 ( 6)	230,817	191,139	421,956 ( 69)	359,003	127,546	486,549		
% RETURN ON TOTAL CAPITAL	( 62)	4.61	4.20	4.41 ( 0)	4.40	2.00	3.73 ( 69)	4.03	3.98	4.00		
% RETURN ON EQUITY CAPITAL	( 62)	4.33	4.15	4.24 ( 0)	4.55	2.00	3.62 ( 69)	4.41	3.92	4.24		
NET TO UNPAID LAB, CAP, MONT	( 62)	13,215	4,201	17,416 ( 0)	14,545	5,519	20,064 ( 69)	17,907	4,285	22,192		
LESS 5 PCT INTEREST CHANGE	( 62)	14,122	3,390	17,512 ( 0)	14,770	11,466	26,236 ( 69)	10,555	6,452	17,007		
YIELDS RETURN TO LAB AND MONT	( 62)	407	1,789	2,196 ( 0)	101	5,947	6,048 ( 69)	300	2,107	2,407		
DIVIDED BY UNPAID LAB YRS	( 60)	1.21		1.21 ( 0)	1.25		1.25 ( 67)	1.22		1.22		
YIELDS RETURN PER LABOR YEAR	( 60)	1.007		1.007 ( 0)	1.404		0.960 ( 67)	.991		1.057		

TABLE XV (Continued)

SECTION 43		1970 ALL FARMS BY FATE RTN LN AND INVESTMENT-AREA										DATE PROCESSED 03/22/73		PAGE 95	
		LOW GROUP BELOW			1.80		HIGH GROUP ABOVE			6.01		AVERAGE OF ALL FARMS			
		# CBS	UNITS	POUNDS	DOLLARS	# CBS	UNITS	POUNDS	DOLLARS	# CBS	UNITS	POUNDS	DOLLARS		
BEEF	OPENING INVENTORY ( 57)	261	158,620		46,513.11 ( 0)	130	77,444		19,872.62 ( 64)	263	149,457		43,516.59		
	PURCHASES ( 57)	153	52,368		21,767.30 ( 6)	60	31,016		10,884.43 ( 64)	144	49,559		20,410.83		
	SALES ( 57)	218	120,360		43,317.76 ( 0)	103	46,894		17,843.34 ( 64)	205	111,907		40,343.23		
	CLOSING INVENTORY ( 57)	207	147,117		45,274.13 ( 0)	152	90,630		23,896.00 ( 64)	271	140,459		45,339.66		
	PRODUCTION ( 57)	72	56,499		24,311.49 ( 0)	37	29,063		10,902.28 ( 64)	68	53,350		22,755.49		
DAIRY	OPENING INVENTORY ( 17)	157	120,462		40,864.05					( 18)	154	110,066		39,676.56	
	PURCHASES ( 17)	12	15,447		5,916.28					( 18)	11	14,589		5,229.82	
	SALES ( 17)	47	978,743		39,452.94					( 18)	47	950,228		67,320.38	
	CLOSING INVENTORY ( 17)	182	130,298		40,150.23					( 18)	177	127,398		46,496.46	
	PRODUCTION ( 17)	59	973,132		71,230.82					( 18)	59	945,072		69,000.45	
SHEEP	OPENING INVENTORY ( 1)				102.00 ( 0)	206	11,625		3,267.00 ( 8)	159	9,286		2,533.50		
	PURCHASES ( 1)	6			102.00 ( 0)	3	180		255.83 ( 8)	3	135		212.12		
	SALES ( 1)	2			67.47 ( 0)	105	5,328		2,899.45 ( 8)	80	4,174		2,224.57		
	CLOSING INVENTORY ( 1)	8	1,120		160.30 ( 0)	225	14,695		3,974.16 ( 8)	173	10,627		3,065.50		
	PRODUCTION ( 1)	4	1,120		65.47 ( 0)	120	6,022		3,330.75 ( 8)	91	4,760		2,544.44		
SWINE	OPENING INVENTORY ( 12)	162	23,583		6,344.69 ( 2)	207	40,805		9,123.55 ( 14)	165	26,043		6,484.70		
	PURCHASES ( 12)	41	2,420		1,315.11 ( 2)	32	32		4,144.52 ( 14)	39	2,075		1,402.17		
	SALES ( 12)	234	47,173		11,593.35 ( 2)	439	4,877		33,948.06 ( 14)	263	41,331		15,129.45		
	CLOSING INVENTORY ( 12)	158	26,185		5,411.75 ( 2)	275	51,880		9,450.20 ( 14)	176	29,630		5,986.67		
	PRODUCTION ( 12)	169	47,355		10,345.06 ( 2)	400	13,952		30,126.18 ( 14)	213	42,888		13,171.24		
OTHER LIVE	OPENING INVENTORY ( 11)	9	3,227		2,825.00 ( 2)	3			875.00 ( 13)	6	2,730		2,525.00		
	PURCHASES ( 11)				27.27 ( 2)				20.00 ( 13)				26.15		
	SALES ( 11)				763.97 ( 2)					( 13)	2		640.44		
	CLOSING INVENTORY ( 11)	7	2,763		2,352.27 ( 2)	3			675.00 ( 13)	6	2,338		2,094.23		
	PRODUCTION ( 11)		463-		263.97 ( 2)				227.70 ( 13)		392-		189.51		
PULTRY	OPENING INVENTORY ( 4)	6			3.12					( 4)	6		3.12		
	PURCHASES ( 4)	18			50.51					( 4)	18		50.51		
	SALES ( 4)				345.95					( 4)			345.95		
	CLOSING INVENTORY ( 4)	16	33		21.02					( 4)	16	33	21.02		
	PRODUCTION ( 4)	8-	33		513.93					( 4)	8-	33	513.93		
TOTAL LIVESTOCK PRODUCTION ( 62)	115	327,072		43,965.24 ( 0)	318	40,403		24,282.40 ( 69)	132	305,205		42,139.59			
FEED	OPENING INVENTORY ( 62)	6677	645,201		12,321.97 ( 6)	5410	292,910		13,046.49 ( 69)	6746	617,621		12,450.35		
	PURCHASES ( 62)	2442	376,760		12,096.24 ( 6)	307	109,849		5,743.53 ( 69)	2221	346,610		11,397.56		
	SALES ( 62)	5188	440,182		11,127.03 ( 6)	16611	1464,207		23,229.50 ( 69)	7355	531,422		12,045.17		
	CLOSING INVENTORY ( 62)	6299	551,301		13,351.86 ( 6)	4703	202,698		12,105.98 ( 69)	6244	524,441		13,262.79		
	PRODUCTION ( 62)	13695	894,583		17,391.36 ( 6)	23924	1548,155		25,860.93 ( 69)	14490	951,600		18,036.95		
	FEED DISAPPEARANCE ( 62)	19327	917,666		17,332.39 ( 6)	7027	263,950		5,335.47 ( 69)	10172	861,968		16,579.92		
LIVESTOCK PROD / \$100 FB DISI ( 62)				237.64 ( 6)				510.80 ( 69)				261.86			

TABLE XV (Continued)

SECTION	44	1970 ALL FARMS BY RATE RTN ON AVG INVESTMENT-DRLA.				DATE PROCESSED	03/22/73	PAGE	06
		LOW GROUP BELOW		1.50	HIGH GROUP ABOVE	6.01	AVERAGE OF ALL FARMS		
	# OBS	UNIT/ACRE	ACRES	DOLLARS	# OBS	UNIT/ACRE	ACRES	DOLLARS	
BARLEY	( 2)	51.65	42.50	2,240.00					
GRAIN SCGHUM	( 4)	20.42	138.12	8,955.42	( 1)	158.00			
OATS	( 2)	37.50	25.70	873.75					
WHEAT	( 1)	28.00	28.50	942.00					
ALFALFA	( 5)	90.40	90.00	8,231.28					
BERMUDA	( 1)	.80	30.30	750.00	( 1)				
SILAGE	( 1)	15.00	130.00	15,050.00	( 1)	11.00	110.00	1,210.00	
SUDAN	( 1)			992.00					
CRCP PASTURE	( 2)	1.30	10.30	1,206.00					
CTER HAY AND FORAGE	( 1)			1,206.00					
CUTTEN	( 1)	1.10	120.00	12,781.22					
PEANUTS	( 2)		30.30	1,095.56					
CTER CASH CROPS	( 2)		15.00	7,161.40					
TOT ACR & VAL OF IRR-CROPS	( 62)		25.34	2,553.33	( 6)	43.03		2,535.13	
BARLEY	( 30)	34.74	150.40	5,345.41	( 4)	40.75	231.27	7,020.95	
CRN	( 1)	10.40	110.30	2,355.00					
GRAIN SORGHUM	( 15)	8.58	74.00	1,420.35	( 1)	50.00		110.00	
OATS	( 14)	42.65	51.52	1,440.04	( 1)	70.90		5,057.14	
RYE	( 7)	14.48	60.34	3,107.03	( 1)	34.50		227.85	
WHEAT	( 42)	27.51	247.40	8,445.07	( 5)	55.16	312.22	13,921.43	
CTER GRAIN	( 4)	15.22	70.25	1,275.75					
ALFALFA	( 26)	79.78	74.55	5,425.72	( 3)	67.93	77.66	3,437.76	
BERMUDA	( 1)			720.00					
CRCP PASTURE	( 14)	14.48	97.21	2,374.71	( 2)	2.50	75.00	2,534.47	
GRASS	( 4)	9.95	260.00	5,305.05					
NATIVE	( 17)	10.24	47.21	1,505.51	( 1)	13.30	54.00	552.00	
SILAGE	( 4)	25.25	135.15	8,800.70					
SUDAN	( 10)	22.03	57.02	1,130.40	( 1)	40.30	30.00	1,183.20	
STRAW	( 8)	7.30	4.21	1,185.95	( 3)			1,288.23	
CRCP PASTURE	( 30)	5.07	123.36	2,405.71	( 1)	49.03		3,159.46	
CTER HAY AND FORAGE	( 11)	8.44	96.79	475.98	( 1)	25.00		4,128.00	
BELMUDA	( 1)		30.00	5,092.86					
CUTTEN	( 18)	.25	107.88	4,052.23	( 18)				
PEANUTS	( 5)	.20	118.52	7,000.93	( 5)				
SOYBEANS	( 9)	13.96	225.44	13,150.90	( 1)	12.50	235.00	10,795.77	
CTER CASH CROPS	( 9)	1.53	322.35	3,590.30					
DIVERTED ALREAGE	( 20)	.75	128.30	10,754.26	( 4)			29.02	
TOT ACR & VAL OF NON-IRR CRP	( 62)		659.29	25,150.39	( 6)			611.00	
TEMP PASTURE	( 1)			218.75				31,203.78	
PERMANENT PASTURE	( 30)	.10	704.71	1,317.40	( 2)			477.75	
FENCE, RCADS, FMSTD	( 4)		25.00					3,289.45	
TREES AND WASTE	( 10)	.05	83.21	107.93					
CTER DRY CRGRLAND	( 19)	3.74	999.57	4,339.40	( 1)	170.00		750.00	
TOT ACR & VAL OTHER LND USE	( 62)		770.31	2,190.91	( 6)			188.91	
TOT ACR & VAL ALL LAND USE	( 62)		1,454.55	29,090.04	( 6)	844.35		35,040.39	

SECTION	45	1970 ALL FARMS BY RATE RTN ON AVG INVESTMENT-DRLA.				DATE PROCESSED	03/22/73	PAGE	07
		LOW GROUP BELOW		1.80	HIGH GROUP ABOVE	6.01	AVERAGE OF ALL FARMS		
	# OBS	TOTAL FARM /CRUP	ACRE	/1000 PROD	TOTAL FARM /CRUP	ACRE	TOTAL FARM /CRUP	ACRE	
GRASS FARM PRODUCTION	( 62)	73055	139.89	100.00	( 6)	59.22	61.73	100.00	
MACHINERY INVESTMENT	( 62)	24043	39.99	35.45	( 8)	20000	27.22	40.15	
MACHINERY COST	( 62)	13594	23.90	22.71	( 6)	12882	15.04	22.97	
FERTILIZER & CHEMICAL COST	( 62)	4316	30.65	6.55	( 6)	5108	6.00	9.75	
SEED AND PLANT EXPENSE	( 62)	1134	2.32	1.83	( 6)	1037	1.59	2.07	
FARM SIZE INDEX	( 62)	31373	84.00	47.35	( 6)	2902	32.67	51.30	

information is more subject to bias than the wholefarm information. Since most of the results of the wholefarm comparison are a weighted average, one incorrect or unrealistic observation can bias the answer.

One of the sub-objectives of the new year-end analysis program was to eventually improve the quality of enterprise input data by improving the readability and understanding of the enterprise output. As the understanding and quality of enterprise information improves, the writing of the enterprise comparison program will become more valuable.

## CHAPTER V

### SUMMARY

The objectives of this study are to coordinate all program modifications to improve the readability, organization, and understanding of the Costfinder farm record system. These modifications are intended to help make Costfinder attractive to more farmers.

#### Research Approach

In the six years Costfinder has been in operation, many additions, deletions, and reorganizations of the program outputs have been suggested. These suggested modifications have been recorded and classified according to their purpose and the section of the output to which they apply. A list of these changes was developed that included a type representation of the modified computer output, required modification of the input data, time required to accomplish the program changes, and an estimation of the net change in the amount of paper generated by the program modification. A short questionnaire was included with the list of program modifications and given to the Area Agents. The purpose of the questionnaire was to determine: (1) Is change desired? (2) Will the farmer be willing to pay for this improvement? If so, how much? (3) What priority should be given to each of the changes? The Area Agents were encouraged to suggest changes in the type representations, or list new modifications that should be considered. All of the

preceding information was used to design and implement the programming modifications explained in this study.

### Results

The programs or sections of program that were modified are organized according to their purpose (1) to facilitate credit acquisition and financial analysis, (2) to facilitate tax reporting and analysis, (3) to improve readability and understanding of the year-end analysis program. These categories correspond to chapters two through four.

The check reconciliation program provides a means of checking the accuracy of the bank statement and the input data. The program logic of the financial analysis, Section 12, was revised to print opening and closing inventory for each TI code on the same line. New calculations, percent owner equity, percent current equity, and return to equity capital were included in this section.

Modifications in the tax reporting and analysis category were given high priority by the Area Agents. Designated TI codes in the 1973 version of the Cash Flow Summary are sub-divided into GENERAL classifications. These GENERAL sub-totals allow direct transfer of the non-farm deductible expense to the appropriate section of the tax return and a more detailed listing of raised sales and current farm expenses. A new program, Livestock Purchased for Resale provides cost information on specific groups of livestock purchased for resale.

Year-end Analysis is the most important program in the Costfinder system. All the input data reported during the year is used to generate financial and production efficiency information for the fiscal year. Reorganization of the program logic is designed to reduce duplication



of results, improve the readability of the output, and reduce the amount of information printed on each page. The logic changes allow all information that applies to an enterprise to be printed on one or two consecutive pages. In this way the enterprises are printed in single file, rather than having one type of information, machinery use for example, for all enterprises printed on one page. Cost to the farmer has a great effect on the number of farmers enrolled in the Costfinder system. Program changes in this study have in some cases reduced operation costs, in other instances the new information presented will increase cost. If the improvements to the computer outputs increase the number of Costfinder cooperators, some economies of size may offset the increased operation costs.

#### Further Research

The kind and amount of information provided by computerized farm record systems should change as the need for financial and production efficiency information changes. Some commercial farms can effectively use sophisticated accounting information while other farmers can use and interpret only a simplified cash flow analysis. Flexibility needs to be an important factor to be considered in any research in this area.

Within the Costfinder system, a program needs to be written to compare the year-end analysis information for enterprises. The program logic needs to be similar to the Wholefarm Comparison program explained in Chapter IV. In addition to the program modifications, emphasis needs to be placed on educational programs designed to increase the farmer's utilization of the Costfinder output.

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