MICRO DFBS



A Guide to Processing Dairy Farm Business Summaries in County and Regional Extension Offices for



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INTRODUCTION

This publication is a guide to using the Microcomputer Dairy Farm Business Summary (Micro DFBS) computer program for analyzing the financial and production performance of individual dairy farm businesses. County Cooperative Extension agents and regional specialists are the intended audience, however, college faculty in other states may also find this publication of value. Farm business summary and analysis projects have long been a basic part of the agricultural Extension program in New York State. Records submitted by New York State dairy farmers provide the basis for many Extension educational programs and the data for applied research studies and classroom teaching.

Extension offices have the capability to strengthen their dairy farm business analysis activities by calculating and printing the individual farm summaries for immediate use by the agent and farmer, at any time. After entry in the county, individual farm data are sent to the Department of Agricultural, Resource, and Managerial Economics at Cornell University for additional review prior to calculation of county, regional, and State summaries.

HARDWARE REQUIREMENTS

Version 3.1 of the Micro DFBS program will run on IBM and IBM-compatible computers with a minimum of 256K of random-access memory (RAM). The DOS 2.0 or higher operating system is needed. Either two floppy disk drives or one floppy and one hard disk are needed.

Printers vary from one Extension office to another, and an effort is made to make the program work with as many printers as possible. Most printers capable of printing in pica type (10 characters per inch, 66 lines per page) should work.

Each farm summary printout is 12 pages long and you typically need three copies -- one for the farmer, one for your county or regional Extension office file, and one to send to Cornell for the regional and State summaries. Triple-copy paper will allow you to print all three copies at once if a dot-matrix printer is used.

VERSION 3.1 REVISIONS

Revisions made for Micro DFBS Version 3.1 include the following:

- The constant used for the value of unpaid family labor and value of operator's labor is \$1,450 per month. This is based on the wage rate for all hired farm workers reported by the New York Agricultural Statistics Service.
- 2) The discount rates used in calculation of lease assets and liabilities are 7.75 percent at the beginning of year, and 8.25 percent at the end of the year. These are the typical interest rates paid by farm borrowers during the year.
- 3) A place to indicate whether or not the farm uses bST has been added in Screen 6. If bST is being used, indicate the percentage of the herd. The bST usage will be listed with the other business description items at the bottom of page 10 of the output.

- 4) Full-time months of labor in Screen 7 can now be entered to 1 decimal place. It is also possible to enter more than 12 months of labor per operator. See the instructions on page 70. Labor and management income per operator will not be affected by this change.
- 5) The balance sheet on page 4 of the output includes the current portion at both beginning and end of year. For farms that participated last year, the planned payment schedule from 1993 data is used to calculate the beginning 1994 current portion.

For farms that did not participate last year, the 1995 planned payment schedule is used on the continuing liabilities. For loans that were refinanced or otherwise paid off early, it is assumed that 17% of the principal outstanding on intermediate term loans is due in the next year. For long-term loans, 7 percent of the principal outstanding is calculatd as the current portion.

- 6) Debt levels per cow and per tillable owned acre for intermediate and longterm debt have been added to page 5 of the output.
- 7) Net Farm Income per cow and per cwt. have been added to the Dairy Analysis on page 10 of the output.

USING MICRO DFBS

This tutorial section will serve as a learning guide and "hands-on" exercise in using Micro DFBS. The user becomes familiar with the operation of Micro DFBS by:

- a) making backup copies of diskettes
- b) starting the program
- c) typing information from a sample input form
- d) calculating and printing a summary
- e) preparing a diskette for shipment to Cornell

This tutorial assumes that a suitable microcomputer and printer are available and the user knows how to operate them. Microcomputer hardware requirements were explained above. If you are not familiar with the operation of your microcomputer and operating system, refer to its <u>DOS</u> manual.

I. Make backup copy of diskette.

You should have received a program diskette that also has sample data on it. Make a copy of this diskette, put the original diskette in a safe place, and use the copy. Use the DOS "copy" command. For example, on a computer with two floppy disk drives, after booting the computer, place the diskette to be copied in Drive A and a blank formatted diskette in Drive B and type:

copy a:*.* b: ↓ (enter/return key)

The names of the files being copied will appear on the screen as they are copied. The sample farm has three data files on the diskette:

46006.94 is the current year's data file, 46006.930 is the 1993 output file, and 46006.920 is the 1992 output file.

The 1993 and 1992 output data files are required for use by the current year data file (<farm no.>.94) in order to print a "Progress of the Farm Business" table on page 1 of the output. The 1994 data file contains data from the 1993 data file, such as beginning of year inventory values and beginning of year assets and liabilities.

II. Start the program.

<u>Important</u> - if your computer does not have an internal calendar, be sure to always enter the correct date when you start the computer to run Micro DFBS. Micro DFBS prints this date on the summary printout. It also assumes that the summary is for the previous year. For example, if you enter 1-1-95, Micro DFBS will use the <farm no.>.94 data file and the printout will show:

1994 Dairy Farm Business Summary

If you don't enter the date and instead leave it as the default of 1-01-1980, a <farm no.>.79 data file could be created and the printout will show:

1979 Dairy Farm Business Summary

which is probably not what you wanted.

Follow A or B depending on the hardware system you are using.¹

A. <u>Two floppy disk drives</u> (IBM PC or compatible):

Insert your DOS diskette in drive A and turn on the computer and printer. Wait until DOS is loaded. Type the date and time, if asked. You should see a prompt A>. This means that drive A is the default drive. If you were not prompted for the date as the computer was booting, at the A> prompt type:

date 1-1-95 ↓

Take out the DOS diskette. Insert the Micro DFBS program diskette in drive A and a blank formatted data diskette in drive B.

Copy the sample data files from the program diskette in drive A to the blank formatted disk in drive B:

copy a:46006.* b: ↓

Skip to C on page 5.

B. One floppy and one hard drive (IBM or compatible):

<u>If you have previously loaded DOS onto the hard disk², turn on the</u> computer and printer with the floppy drive empty. Wait until DOS is

²If you have not previously loaded DOS onto the hard disk, follow the procedure in A, and when you see the prompt A>, type: C: \downarrow

(The symbol J stands for a carriage return.) Upper- or lower-case letters will do. This makes drive C the default drive.

¹If you have not already done so, be sure to make a backup copy of your program diskette.

loaded from the hard disk. Type the date and time, if asked. If you were not prompted for the date as the computer was booting and the computer does not have an internal calendar, at the C> prompt type:

date 1-1-95 ↓

If you will be storing data on the hard disk and/or operating the program from the hard disk, it is advisable to set up a separate directory on the hard disk for this purpose.³ Call the directory DFBS. First, check if the directory DFBS already exists. To check, type:

CD \DFBS J

If it does exist, you will see the prompt C> reappear. If it does not exist, you will see 'invalid directory', so set it up. To set up a directory named DFBS, from the prompt C>, type:

MD \DFBS J

Each time Micro DFBS is rerun on a one-floppy/one-hard disk system, the Micro DFBS directory must be accessed using the command:

CD \DFBS J

The program diskette contains sample data files which must be copied to your new Micro DFBS directory if you select to store data on the hard disk. Insert the program disk into drive A and copy the sample data files by typing:

COPY A:46006.* ↓

The C> prompt should reappear.

The Micro DFBS program may be run from the hard disk drive or from the floppy disk drive.

1. Operating the Micro DFBS program from the hard disk drive:

The Micro DFBS program diskette contains all the files necessary to run the Micro DFBS program. These files must be copied to your 'DFBS' directory to be able to run the program from the hard disk. If you are not already in the 'DFBS' directory, type 'CD \DFBS'. Insert the Micro DFBS program diskette into drive A and copy all the files to the hard disk by typing:

COPY A:*.* J

The names of the files being copied will appear on the screen as they are copied to the hard disk. The C> prompt should reappear after all the files are copied.

³If you are unfamiliar with the concept of a directory, refer to your DOS manual. Typing the command "prompt \$p\$g" or inserting this command in your autoexec.bat file will change your C> prompt to show which directory you are in, such as C:\DFBS>.

2. Operating the Micro DFBS program from the floppy disk drive:

Insert the Micro DFBS program diskette in drive A. Type:

L:A

This makes the A drive the default drive. With the Micro DFBs program operating from the A drive, you will need to store the data files on the C drive as there is insufficient space on the program diskette. The "Install" program described in Section III will enable you to specify the C drive for data storage.

Note: The MD \DFBS and COPY commands need to be used only once -the directory and files will remain after the session is ended and can be used in future sessions.

C. You are now ready to run Micro DFBS. Type:

DFBS J

You should see the main menu.

MAIN MENU

CORNELL COOPERATIVE EXTENSION	DATE: 1/10/1995	
Prepared by DEPARTMENT OF AGRICULTURAL, RESOURG AND MANAGERIAL ECONOMICS CORNELL UNIVERSITY	CE, _/	NEW YORK
Dairy Farm Business Summary Vers	ion 3.1 (C) 1994	
[] Create/Update/Display Record [] Verify Record	[] Calculate and [] Run Install Pr	Print Farm Summary ogram

[] Delete Record

Install Program [] Help

[] Quit

The main menu shows the options available in DFBS. A set of brackets [] appears to the left of each named option. An underline character [_] is used as the cursor and marks the first option 'Create/Update/Display Record'. Practice moving the cursor using \uparrow or \downarrow arrow keys. What happens when you use the \rightarrow and \leftarrow arrow keys?

III. Final startup instructions - the INSTALL program

An installation program must be run before using the Micro DFBS Program in order to specify which disk drive the **data files** are to be stored on. Use the cursor keys (\uparrow or \downarrow) to select "Run Install Program".

You should get the message:

DAIRY FARM BUSINESS SUMMARY INSTALLATION PROGRAM

DISK DRIVE SELECTION-Valid drives are A-G

Present Drive is a:

ENTER NEW DRIVE LETTER OR PRESS RETURN TO OK EXISTING DRIVE

Enter a drive letter, in most cases A, B, or C or press return if the correct drive is already specified. For the two floppy disk drive system, type B \downarrow . Once you set the drive, it will remain at that setting until you change it by selecting "install" again.

You should then see the following menu:

CURRENT DIRECTORY IS \

CHOOSE OPTION:

- 1: MAKE & DIRECTORY
- 2: REMOVE & DIRECTORY
- 3: SET NEW PATH TO DIRECTORY
- 0: CONTINUE INSTALLATION

OPTION:

This menu allows the user to create and select the path for the storage of data in the program. The current path will display at the top of the menu. If the path displayed is correct then choose 0 (zero) to continue installation and save the current path.

If the path displayed needs to be changed or a new subdirectory needs to be created, then select those items from the menu. For example, to create a subdirectory on the hard disk called DFBSDATA (within the directory c:\dfbs) you select 1 from the menu. The program will then prompt you for the name of the new directory. To specify the name you would type the complete path name to the new directory, e.g., C:\DFBS\DFBSDATA and press the return key. The program will now create the desired subdirectory. After the new directory is created the menu will again appear, the new path should be displayed at the top of the screen. If the path is not correct you can use option number 3 to set the proper path.

When you are satisfied with your selection, type 0 to continue installation.

FOR DOS 1.XX USERS:

The path command is not implemented in this version of DOS and you will get an error message if you try to specify a path or create a subdirectory. To properly install the program for this version enter the desired disk drive and then select option 3 from the menu and, when prompted for a path, press return. There should be either a $\$ or nothing displayed at the top of the screen where the path is normally displayed. Once this is done type 0 to continue installation.

FAILURE TO PROPERLY SET THE PATH WILL RESULT IN THE DATA BEING DIRECTED TO THE WRONG SUBDIRECTORY OR IN THE PROGRAM ABORTING WITH AN *I/O ERROR Ø1* ERROR MESSAGE DISPLAYED.

The following message will appear on the screen:

PRINT PRELIMINARY SUMMARIES? [Y/N]

Typing "Y" for yes will print the word "Preliminary" on page 1 of the Dairy Farm Business Summary printout. Typing "N" for no does not print "Preliminary" and the printout is then considered in final form. This setting will remain until this part of the install program is accessed again. County Extension offices are encouraged to leave the setting at "Preliminary". The final versions of the summary are printed at Cornell.

IV. Enter the input data.4

The Create/Update/Display Record option on the main menu is used to enter input data for a new farm or to change or display a previously entered farm record. Use the cursor keys (\uparrow or \downarrow) to select this option. Type:

┛

to select the 'Create/Update/Display Record' option.

You will see a prompt to enter a farm number. The farm number assigned will be made up of your 2-digit county number, followed by a 3-digit number identifying the individual farm.

⁴See Appendix A for guidelines to completing the Dairy Farm Business Summary check-in form.

MAIN MENU WITH FARM NUMBER PROMPT

CORNELL COOPERATIVE EXTENSION	DATE: 1/10/1995
Prepared by DEPARTMENT OF AGRICULTURAL, RESOURC AND MANAGERIAL ECONOMICS CORNELL UNIVERSITY	CE,NEW YORK
Dairy Farm Business Summary Versi	ion 3.1 (C) 1994
[] Create/Update/Display Record [] Verify Record [] Delete Record	[] Calculate and Print Farm Summary [] Run Install Program [] Help

[] Quit

ENTER FARM NO OR PRESS ENTER TO RETURN TO MENU

<u>Important</u> - select farm numbers carefully following the recommended procedure. You must assign the same number to the same farm each year and assign a new number to a new farm. This is essential for the first page of the summary, "Progress of The Farm Business", and page 8, "Repayment Analysis", to work properly.

If you make an error entering data and you notice it before typing the \downarrow (return/enter) key, you can correct the error by using the backspace key, delete key or the \leftarrow key to erase the error, and type the correct entry. If you type \downarrow (return/enter) before noticing the error, you can move back to the incorrect entry by using the \uparrow key, and then retype the number.

The top of the first page of the sample farm check-in form is shown below. The sample farm number is 46006 and the number is written in the space labelled "Processing number".

CORNELI	COO	PERATIVE	EXTENSION
DAIRY	FARM	BUSINES	S SUMMARY
D	ATA C	HECK-IN	TORM

Name Howard Holstein	county Suffolk	SCREEN 1.
Address 5355 County Rd. 55 Hicksville Ny 12345-1234 Phone no. 555 - 555 - 5555	Proc. number 46006 (Scomplete, ()entered, (Update Screens:	Year 1994)ready

Type the farm number:

46006 J

Micro DFBS will find the file 46006.94. This file already contains data from the previous year, such as beginning of year inventory values and beginning of year assets and liabilities. The program continues on to Screen 1.

If the data you are entering is for a new cooperator you will see the following message after you enter the newly assigned farm number:⁵

Data files missing, create new ones (Y/N)

Enter y J

The program will continue on to Screen 1. Screen 1 contains the farm name, address, and phone number from the boxed-in area at the top of page 1 of the check-in form. Screen numbers 2 through 14 correspond to the other 13 boxed-in areas of the check-in form.

Screen 1 should look like Screen 1 on the next page. The farm number, state, and county are already inserted for you and the cursor is at the operator's name.

Enter the farmer's name. There is no farm name, so enter I (return/enter) to move to the address line and type the rest of the farm information, (use the sample farm information from above).

⁵Assign farm numbers for new cooperators from the list of available farm numbers provided by Cornell.

Screen #1

FARM I	NFO	RMA	ΤI	ON
--------	-----	-----	----	----

Farm No Operator's Name . Farm Name Address City State County Phone	46006 NY SUFFOLK	Verified [N]
Phone	Regular []	Irregular []

At the bottom of the screen, find the classifications "Regular" and "Irregular". The regular and irregular classifications indicate the accuracy and completeness of the information for determination of whether or not this farm will be included in the county, regional, and state summaries. Regular is included; irregular is not. Select the appropriate classification by entering an "x" in the space between the brackets.

The "Verified [N]" notation in the upper right corner of Screen 1 indicates that the data has not yet been verified. The "N" will change to a "Y" after the verification has been completed.

The entering of farm information in Screen 1 has now been completed. It is possible to change data in the screen at this point. For example, use the \uparrow or \downarrow keys to move the cursor to "Farm Name" and type:

Golden Guernsey Farm → (return/enter)

There are three ways to get out of Screen 1 and move to the next screen:

- 1) J (return/enter). Keep pressing return until the cursor goes off the screen and you get the message below.
- 2) \downarrow key. Keep pressing the down arrow key until you get the message below.
- 3) [Esc] key. The escape key only needs to be pressed once to get the message below. Note: Use this key with caution. On screens with totals or computed values use J or ↓ to move through the entire screen so values are recalculated.

[PgDn] or [RETURN] - next, [PgOp] - previous screen, [Esc] to exit, or # of Screen.

The above message or command line allows you four courses of action:

- 1) [PgDn] or [RETURN] will take you to the next screen.
- 2) [PgUp] will take you to the previous screen.

- 3) [Esc] will exit the screen and take you back to the main menu.
- 4) # of Screen, i.e., enter the number of any screen to move to that screen. It is not necessary to ↓ (Return/Enter) after entering the Screen #.

Screen #1

FARM INFORMATION

Farm No Operator's Name . Farm Name Address City State Zip County Phone	46006 Howard Holstein Golden Guernsey 5355 County Rd. Hicksville NY 12345-1234 SUFFOLK (555)555-5555	Farm 55		Verified	[N]
	Regular []		Irregular [x]		

Move to Screen 2 by typing:

J as many times as necessary.

You should see Screen 2.

Farm No.46006

Screen #2

MACHINERY AND EQUIPMENT INVENTORY AND DEPRECIATION

Machinery & Equipment Inventory Beginni	.ng \$ 16	88000 En	d \$	0
Machinery & Equipment Purchased	+ \$	D		
Noncash Machinery Transfer to Farm	+ \$	0		
Machinery & Equipment Sold	- \$	0		
1994 Tax Depreciation	- \$	0		
Total Beginning Inventory After Changes \$ 188000				
Machinery Appreciation (end less beginning after changes) \$-188000				

Part of page 1 of Howard Holstein's check-in sheet, the machinery inventory and depreciation information, is shown below. The arrows show where each item is typed into Screen 2 of Micro DFBS. Do not type commas or spaces within or to the left of numbers. If there were previous year's data, the

[PgDn]



Screens 3 through 14 are handled in a similar way and, as with Screen 2, are designed to resemble the check-in form as closely as possible.

Now finish typing the farm information for Howard Holstein into Screens 3 through 14 using the data on the following pages. After Screen 14, you should be back to the main menu.

Screen 3, Feed and Supply Inventory, has three columns, two of which are for data entry. The beginning and end year columns are entered and the beginning and end year totals and inventory change column are computed. The check-in form has additional columns in Screen 3 for quantities and \$ per unit; however, these are work spaces.⁶ If there were previous year's data, the beginning of year inventory values will be displayed. The order of data entry is across the rows.

The inventory change for grown feeds is calculated by subtracting the beginning year inventory value from the end year inventory value. This inventory change is then transferred automatically to Screen 12, the accrual receipts screen.

The inventory changes for purchased feeds and supplies are calculated by subtracting the end year inventory value from beginning year value for each item. These inventory change values are then transferred to Screen 13, the accrual expenses screen.

Use the cursor (\downarrow) key or \downarrow (return/enter) to skip zero entries.

	Total	Total	
	+	+	
FEED & SUPPLY INVENTORY	+	+	SCREEN 3.
	+	1 Inv	entory Change
Total Grown Feeds	s <u>¶7000</u>	\$ <u>47,550</u>	\$12550
PURCHASED FEEDS: (use p.11 def	initions)	. 2000	- 400
Dairy grain & conc X	=\$ <u>1600</u>	x =\$ <u>3000</u>	
Dairy roughage	<u>3200</u>	<u>3000</u>	<u></u>
Nondairy feed			
<u>SUPPLIES</u> :			
Kachine: Parts X	<u>=\$_2000</u>		\$
Fuel, oil, grease	1000	<u>1000</u>	
Livestock: Semen	1300	<u>/000</u>	
Vet. supplies	<u>400</u>	<u>500</u>	
Other supplies	<u>75</u>	<u>/00</u>	
Crops: Fertilizer	1250		_125 <u>9</u> _
Seeds	125	<u>/00</u>	<u></u>
Pesticides/Other	1700	/000	200
Land/Bldg./Fence:	500	100	
Other:	320	/000	- 650
Total Feed & Supplies	s <u>IQI,479</u>	s TID,45 9	

Farm No. 46006	FEED & SUPPLY IN	VENTORY	Screen #3
Feed & Supply Inventory	Beg-Year	End-Year	Inventory Change
Total Grown Feeds	\$ 87000	\$ 97550	\$ 10550
Purchased Feeds:			
Dairy Grain & Conc.	\$ 2600	\$ 3000	\$ -400
Dairy Roughage	\$ 3200	\$ 3000	\$ 200
Nondairy Feed	\$ 0	\$ 0	\$ 0
Supplies:			
Machine: Parts	\$ 2000	\$ 2000	\$ 0
Fuel, Oil, Grease	\$ 1000	\$ 1000	\$ 0
Livestock: Semen	\$ 1300	\$ 1000	\$ 300
Vet. Supplies	\$ 400	\$ 500	\$ -100
Other Supplies	\$ 75	\$ 100	\$ -25
Crops: Fertilizer	\$ 1250	\$ 0	\$ 1250
Seeds	\$ 125	\$ 100	\$ 25
Pesticides and Other	\$ 1700	\$ 1000	\$ 700
Land/Bldg./Fence:	\$ 500	\$ 200	\$ 300
Other:	\$ 320	\$ 1000	\$ -680
Total Feed & Supplies	\$ 101470	\$ 110450	

⁶There are four kinds of spaces on the check-in form: for work space, ______ for data entry items, _____ for calculated values, and x_____x for optional input. Data entry in Screen 4, Livestock Inventory, starts with "leased dairy cows" then continues across the remaining rows. All totals are calculated. The "\$ per Head" columns are calculated after the "number of head" and "total value" entries are made for each row. If you prefer to enter "\$ per Head" values, type J (return/enter) for "Total Value" and the cursor will move back to the "\$ per Head" column. Enter the value per head and press J (return/enter) and the "Total Value" will be calculated. Once the "Total Value" has been calculated, the cursor will not return to the "\$ per Head" space.

If there were previous year's data, the beginning of year inventory values will be displayed.

LIVESTOCK Number of leased/rented	dairy cove at	end of year	40			SCREEN 4.
				or 31, 1994	Inventory Using:	
	<u>van. 11 1994</u> \$ per <u>No. Head</u>	Total Value	\$ pe: No. Head	Total Yalue	\$ per Head	Total Value
Dairy Cows:	<u>120 \$ 1000</u>	s <u>/20,000</u>	115 \$ 1000	s <u>115000</u>	\$ <u>//00</u>	\$ <u>126500</u>
	<u> </u>					
Total Dairy Cows	120	\$ 120,000	115_	\$115,000		\$126500
Heifers:						
Bred Heifers	25 \$ 850	s <u>21250</u>	<u>30 \$ 850</u>	\$ <u>25500</u>	s <u>900</u>	\$ <u>27000</u>
Open (6 mo bred)	21 550	11550	<u>20 550</u>	11000	600	12000
Calves (< 6 mo.)	<u>55 400</u>	22000	<u>55 400</u>	22000	<u>425</u>	23375
Total Heifers	<u>[0]</u>	s <u>54,800</u>	105	<u>\$\$8,500</u>		\$ 62,375
Bulls & Other Lystk.:						
	\$	\$	\$	_ \$	\$	\$
	·		<u> </u>			
Total Bulls & Other Livestock		\$		\$		\$
Total Livestock	<u>22)</u>	\$17 <u>4,800</u>	770	\$ <u>173,500</u>		\$1 19,975

Farm No.46006

I.

LIVESTOCK INVENTORY

Screen #4

Leased Dairy Cows	End Y:	r.:	40	1	End of 1	Year Inve	ntory Us	ing:
	Begin	ning of	Year		Beg. Pr	rices	End Pr	ices
_	No.	\$ per Head	Total Value	No.	\$ per Head	Total Value	\$ per Head	Total Value
Dairy Cows:	120	\$ 1000	\$ 120000 0	115	\$ 1000 0	\$ 115000	\$ 1100 0	\$ 126500
Total Dairy Cows	120	Ū	120000	115	Ū	115000	U	126500
Heifers: Bred Open Calves	25 21 55	850 550 400	21250 11550 22000	30 20 55	850 550 400	25500 11000 22000	900 600 425	27000 12000 23375
Total Heifers	101		54800	105		58500		62375
Bulls/Other Lvstk	0 0	0 0	0	0	0 0	0	0 0	0
Total Bulls & Other Livestock	0		0	0		0		0
TOTAL LIVESTOCK	221		174800	220		173500		188875

The data for Screen 5, Real Estate Inventory, is entered in the following order: beginning year market value, end year market value, new land, new buildings, lost capital, nonfarm noncash transfer, depreciation, and real estate sold (total sale price, sale expenses, and note/mortgage held by seller). All remaining items are calculated.

If there were previous year's data, the beginning of year inventory value will be displayed. It may be revised, if necessary, by typing the new value over the existing one.

REAL ESTATE INVENTORY BALANCE	SCREEN 5.
Land & Building Market Value:	Beginning \$385000 End \$4/8000
New Real Estate: Purchased: $\frac{12000}{1} + \frac{28000}{1} - \frac{500}{1}$ land bldgs./land imp. lost c Noncash Real Estate Transfer to Farm (e.g. gifts/	$\frac{0}{10} = +s_{35000}$ $\frac{1}{10000}$ $\frac{1}{10000}$
Depreciation: from 1994 income tax (Include bldgs. pre-ACRS, ACRS, NACRS & ADS)	ln - <u>10,000</u>
Real Estate Sold: Total sale price \$ Sale expenses Net sale price Note/mortgage held by seller	<u>500</u> <u>250</u> <u>0</u> - <u>10,250</u>
Net cash amt. rec'd. in 1994 = <u>/</u> Total Beginning Value After Changes Real Estate Appreciation	<u>\$ 409750</u> \$ 8250

Farm No.46006

REAL ESTATE INVENTORY

Screen #5

Land and Building Market Value	Beginning	g \$	385000	End	6 41	8000
New Real Estate:						
Purchased: 12000 + 28000 - land + bldgs./land imp2	5000 : lost cap.	=+ \$ = ``	35000 value add	led		
Noncash Real Estate Transfer to Farm		+ \$	10000			
Depreciation: From 1994 Income Tax		- 1	\$ 10000			
Real estate sold: Total sale price \$ Sale expenses - \$ Net sale price Note/mort. held by seller - \$ Net cash amt. rec'd = \$ Total Beginning Value After Changes	10500 250 0 10250	\$	10250		\$	409750
Real Estate Appreciation:				_	\$	B 250

The order of data entry in Screen 6 is as follows: numbers of livestock, milk sold, butterfat test, production record, DHI#, milking system, business type, milking frequency, bST usage, dairy housing, and financial recordkeeping system.

The value entered for other livestock is the number of total work units for the total number of other livestock. Table 1 on the next page shows estimated work units for various livestock and crops.

When entering the Average Milk Plant Test, the decimal must be typed.

Business description items in Screen 6 are entered by typing the number that appears in parentheses on the data check-in form and pressing J (return/enter). The appropriate business description item will be displayed on the screen. Initially, all the items are set to 1, except bST usage which is set to 5, so there will be data on the screen when you call it up. The DHI number requires a 6-digit entry. The first 2 digits refer to the county, the last 4 digits are unique to the farm.

If there were previous year's data, the production record, milking system, business type, milking frequency, dairy housing, and financial recordkeeping system will have last year's data displayed. These items may be revised by typing the correct number.

LIVESTOCK & BUSINES	S DESCRIPTION			SCREEN 6.
	Avg. No.	Production		Primary
<u>Livestock</u>	<u>For Year</u>	Record	<u>Milking System</u>	<u>Business Type</u>
Dairy cows (owned,		✓(1)D.H.I.	(1)Bucket & carry	V(1)Single prop.
rented & leased)	157	(2)0. S .	(2) Dumping station	(2)Partnership
Heifers (dairy)	101	DHI#21 <u>46123</u> 4	<u>(3)Pipeline</u>	(3)Corporation
Bulls		(3)Other	V(4)Herringbone par	· ·
Other:(type)	·····[]	(4)None	(5)Other parlor	<u> Primarv Financial</u>
(# head)	<u>w.u.</u> 1	bST Usage	—	<u>Recordkeeping System</u>
		\ of Herd:	<u>Dairy Housing</u>	(1)ELFAC II
Lbs. milk sold	<u>Milking</u>	V(1)<25%	(1)Stanchion/	(2)Account Book
3500000	Frequency	(2)25-75	Tie-Stall	(3)λgrifax Mail-in
	$(1)2x/day^2$	(3)>75	V(2)Freestall	V(4)On-Farm Computer
Avg. milk plant	$\overline{\mathbf{Y}}(2)3\mathbf{x}/day^{3}$	(4)Stopped	(3)Combination	(5)Other
test 3.7 & B.F.	(3)Other ⁴	using in 19 (5)Not Used	-94	_

Farm No.46006

LIVESTOCK and BUSINESS DESCRIPTION

Screen #6

Livestock	Average For Yea	No. Produ r Rec	ord	ion 1	Milk	ing System	Pr Busin	rimar ness	у Гуре
Dairy Cows	157).H.	. I	4 HE	RRINGBONE PAR	1 SI	NGLE	PROP
Heifers(dairy)	101	D.F	. т	÷					
Bulls	0	2146	123	34					
Other:	0	w.u.							•
Milk Production		Milking Frequency		bST Usage	3	Dairy Housing	Reco	nancı rdkee Syste	al ping m
milk sold (ID)	3500000	2 3X/DAY	1	<25%	-	2 FREESTALL	4 ON	FARM	COMP
Average Milk Pl 3.70% B.F.	ant Test								

	Work units per
	head or_per_acre
Livestock	
Beef cows	2
Horses	2
Hens (production only)	0.04
Egg processing (per dozen)	0.002
Pullets raised	0.004
Broilers raised	0.003
Brood sows	3
Hogs raised	0.15
Ewes	0.5
Crops	
Barley	0.6
Dry beans	1.5
Potatoes	6
Cabbage	9
Snap beans for processing	1
Sweet corn	1
Onions	12
Apples - growing	4
Apples – harvest – per bushel	0.02
Work off farm, days	1
Primary Enterprises ⁷	
Livestock	
Dairy cows	7
Heifers	2
Bulls	2
Crops	
Нау	0.6
Hay crop silage	0.8
Corn silage	0.8
Other forage harvested	0.6
Corn for grain	0.6
Oats	0.6
Wheat	0.6
Tillable pasture	0

Table 1. Work Units For Livestock and Crops

⁷Work units for the primary enterprises are built into Micro DFBS and are not entered by the user. They are provided here for information only.

In Screen 7, the order of data entry for the labor and land inventory is across the rows. To enter a value with decimals in the full-time months column, you must type the decimal point. The total months of labor, worker equivalent, and land inventory totals are calculated. If there were previous year's data, the entire land inventory section will be displayed. If revisions need to be made in this data, simply type over the existing values. The "all acres" column and the "total" row will be recalculated.

LABOR INVENTORY Operator - 1 - 2 - 3 - 4 - 5 - 6 Family (paid employees) Family (unpaid) Hired (regular & seasonal Total	Full-Time Nonths _//	<u>Age</u> <u>Years Educ.</u> <u>28</u> <u>14</u> <u>31</u> <u>16</u> <u></u>	SCREEN 7. <u>Yalue of Management & Labor</u> <u>\$ 2000 0</u> <u>\$ 30000</u> <u>\$ 50000</u> <u>\$ 500000</u> <u>\$ 500000</u> <u>\$ 5000000</u> <u>\$ 5000000000000000000000000000000000000</u>
LAND INVENTORY Tillable land Pasture (nontillable) Woods & other nontillable Total	<u>Acres Owned</u> <u>300</u> <u>10</u> <u>13</u> <u>3</u>	Acres Rented /SO 0 	<u>All Acres</u>

Farm No.46006

LABOR and LAND INVENTORY

Screen #7

LABOR INVENTORY F	ull-Time Months	Age	Years Educ.	Value of	Mgmt & labor
Operator - 1	11.0	28	14	\$20	0000
- 2	11.0	31	16	\$3(0000
- 3	0.0	0	0	\$	0
- 4	0.0	Ō	0	\$	0
- 5	0.0	0	0	\$	0
- 6	0.0	0	0	\$	0
Family (paid emp.)	0.0				
Family (unpaid emp.) 12.0				
Hired (reg & season	al) 22.0				
Total	56.00	+ 12	= 4.67	Worker Equ	livalent
LAND INVENTORY	Acres (Dwned	Acres R	lented	All Acres
Tillable land	300				450
Pasture (nontillabl	e) 10		0	1	10
Woods & other nonti	llable 13		0		13
Total	323		150)	473

Screen 8 is Tillable Land Use. When entering the data in the dry matter coefficient column, the decimal must be typed. The entry for total production of "Other Crops" is in number of work units (see Table 1 on page 17). If the farm uses rotational grazing, type an "X" in the box next to tillable pasture acres. The order of data entry is across the rows. Total Tillable Acres and the Total Tons Dry Matter column are the calculated values.

•

TILLABLE LAND USE	Acres	Total Production	Dry Matter Coeffi- . cient ⁷	SCREEN 8. Total Tons
Hay Crop (1st cut acres only) Hay Hay crop silage Corn silage	/80 	280 tons 900 tons 2080 tons	· 88 · 4 · 35	246 246 360 728
Other forage harvested Corn for grain ⁶ Oats Wheat	100 15 15	tons 11148 dry sh. bu. 900 dry bu. 800 dry bu.	Tot. th DK	1334
Tillable pasture Idle tillable acres Total tillable acres	30 450	[_] Check if Rot at least 3 months paddock at least	 ational Graz of year, ch every 3 days	ing anging

Farm No.46006

TILLABLE LAND USE

Screen #8

:

	Acres (1st cut)	Total Produ (all cutti	ction ngs)	Dry Matter Coefficient	Total Tons Dry Matter
Hay Crop	180	<u> </u>			
Hay		280	tons	0.88	246
Hay Crop Silage		900	tons	0.40	360
Corn Silage	110	2080	tons	0.35	728
Other Forage	0	0	tons	0.00	0
Corn for Grain	100	11148	bu.	Total Tons D.	M.: 1334
Oats	15	900	bu.		
Wheat	15	800	bu.		
Other	0	0	w.u.		
Tillable Pasture	30	[] Type	'x' if	rotational gra	zing
Idle Till. Acres	0	at 1 chan	east 3 ging pa	months of year, ddock at least	-
Total Till. Acres	450	ever	y 3 day	'S	

Screen 9 is the Asset portion of the Farm Family Financial Situation. The first items, beginning and end year total farm inventories, are calculated from data entered in earlier screens and displayed here. The order of data entry is across the rows. The calculated values are Total Farm Assets, Total Nonfarm Assets, and Total Assets. If there were previous year's data, the entire beginning year column will be displayed.

		SCREEN 9.
کم	ISETS	
	January 1, 1994 ¹	<u>December 31, 1994</u>
Total Farm Inventory ²	<u>s 849,270</u>	<u>s 967.325</u>
Other Farm Assets:		
Farm cash, checking, & savings	3500	875
Accounts receivable ³	35,000	29,825
Farm Credit stock	2000	1500
Other stock & certificates	25	25
Prepaid expenses ⁴	xx	××
Total Farm Assets	<u>\$ 889,795</u>	<u>\$ 999,550</u>
Nonferm Assets: ⁵		
Personal cash, checking & savings	12,000	11,000
Cash value life insurance	6,000	6200
Nonfarm real estate	10,500	11,000
Personal share auto	14,280	12,860
Stock & bonds	7,000	<u> </u>
Household furnishings	8,000	<u> </u>
Other (include mortgages & notes)		
Total Nonfarm Assets	<u>\$ 57,780</u>	\$ 57,560
TOTAL ASSETS (not including leases)	<u>\$ 947,575</u>	\$ 1,057,110

Farm No.46006

FARM FAMILY FINANCIAL SITUATION--ASSETS

Screen #9

	January 1, 1994	December 31, 1994
Total Farm Inventory	\$ 849270	\$ 967325
Other Assets:		
Farm Cash, Check/Saving	3500	875
Accounts Receivable	35000	29825
Farm Credit Stock	2000	1500
Other Stock and Cert.	25	25
Prepaid Expenses	0	0
Total Farm Assets:	\$ 889795	\$ 99 9550
Nonfarm Assets:		
Personal Cash, Check/Saving	\$ 12000	\$ 11000
Cash Value Life Insurance	6000	6200
Nonfarm Real Estate	10500	11000
Personal Share Auto	14280	12860
Stocks & Bonds	7000	· 8500
Household Furnishings	8000	2 8000
Other	0	0
Total Nonfarm Assets	\$ 57780	\$ 57560
TOTAL ASSETS	\$ 947575	\$ 1057110

Financial leases are entered in Screen 10. The columns titled *amount of each payment*, *no. of payments in 1994*, *no. of payments/full year*, and "no. of payments remaining" from the data check-in form are entered on Screen 10. The total 1994 expense column is calculated. The order of data entry is across rows.

Leased item	Amount of each payment	No. of payments in 1994	Totel 1994 expense	No. of payments/ full year	SCREEN 10. No. of payments remaining
Cattle:	s <u>80</u>	12	\$_960	12	6
•••••	·····	Total	\$960 '		
Bquipment: Tractor	s <u>400</u>	<u>_1</u> 2_	s <u>4800</u>	12	
		Total	\$ <u>9800</u> 2		
structures: Bunkers	\$ 800	12	<u>s 9600</u>	<u></u>	
		Total	<u>\$ 9600</u> *		

¹Enter under "Cattle leases" on Screen 13, page 13. ²Enter under "Machine hire, rent, & lease" on Screen 13, page 13. ³Enter under "Real Estate rent/lease" on Screen 13, page 13.

Farm No.46006

FINANCIAL LEASES

Screen #10

Leased Item	Amo Eac	unt of h Pymt	No. of Payments in 1994	To 19 Ex	otal 994 kpense	No. of Payments/ Full Year	No. of Payments Remaining
Cattle	5 5 5	80 0 0	12 0 0 Total	\$ \$ \$ \$	960 0 960	12 0 0	6 0 0
Equipment	5 5 5	400 0 0	12 0 0 Total	\$ \$ \$ \$	4800 0 0 4800	12 0 0	3 0 0
Structures	\$ \$ \$	800 0 0	12 O O Total	55 55 55 56 55 56 55	9600 0 9600	12 0 0	4 0 0

Screen 11, Liabilities and Planned Debt Payment Schedule, is divided into two screens (Screen 11 and Screen 11a). Screen 11 contains the Long Term and Intermediate Liabilities and Debt Payments. Screen 11a contains the Short Term, Operating Debt, Accounts Payable, Advanced Government Receipts, and Nonfarm Liabilities and Debt Payments. To move from Screen 11 to Screen 11a, press the [PgDn] key. To get back to Screen 11 from Screen 11a, press the [PgUp] key. (Will abort if PgUp PgDn too many times!)

The first column, the creditor description, is limited to 12 characters of input. You may abbreviate and use upper or lower case letters, however you wish; the description will be printed on the output just as it is entered here.

PARM PANTLY PINANCIAL STRUCTOR

"IES"					DEST P	ATKENTS	1	
	unt Dec. 31, 1994	Amount of New Bor- rowings	Amt. of Debt Refin- anced ²	<u>Actual 19</u> Princi- pal	<u>94 Pymts</u> Interest	Beg. 1995 Int. Rate	<u>Plannes</u> Amt. of Pymts.	<u>t 1995</u> Pymts. Por Yoar
(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(1)	(\$)	(no.)
202000	198400	xx	•••••	3600	17500	<u>٩</u>	1700	<u>12</u>
		** **	•••••					_
		××						
	10yrs.)	<i>*</i> *				<u> </u>		—
110 000	80500	xx		29500	11500	12	3300	<u>12</u>
99000	95240	xx		3760	7130	7.4	11240	1 <u> </u>
<u>45000</u>	<u>133800</u>	××		11700		13	<u> 25700</u>	<u> </u>
		zz	••••••					—
		×*	• • • • • • • •					_
		××	•••••					_
		×*	* • • • • • • •			—		—
		×*				<u> </u>		
		×*		I		I	<u> </u>	—
	<u>Asc</u> Jan. 1, 1994 (\$) <u>Jo2000</u> (\$) (>1yr., < <u>110 000</u> <u>99 000</u> <u>45 000</u>	ISES ¹ Amount Jan. 1, Dec. 31, 1994 1994 1994 1994 LOLODO 198400 LOLODO 10000 SOSOD 99000 YS000 133800 Lono Lono Lono Lono Lono Lono	Image: system is a system in the system is system. Amount of system is system is system is system is system is system is system. Image: Imag	Image: state stat	Amount Amount of Jan. 1, Dec. 31, 1994 Amount of Petropanoid Petropanoid Actual 19 1994 1994 1994 rowings Actual 19 (\$) (\$) (\$) (\$) Amount of Petropanoid (\$) (\$) (\$) (\$) (\$) 202000 198400 xx 36000	ISES ¹ DEST P. Jan. 1, Dec. 31, 1994 Amount of New Bor- rowings Amt. of Debt Refin- anced Actual 1994 Pymis Princi- pal Interest (\$) (\$) (\$) (\$) (\$) 102000 198400 x_x x x x 3600 17500 x x x x x x x x x x x x x x X YE YE YE </td <td>IES1 DEST PATHENTS Amount Jan. 1, Doc. 31, 1994 Amount of New Bor- rowings Amount of Debt Retin- rowings Amount of Debt Retin- pal Beg. 1995 Intci- pal Interest Rate (\$) (\$) (\$) (\$) (\$) (\$) 102000 198400 x x </td> <td>DEST PATHENTS DEST PATHENTS DEST PATHENTS Amount Amount of Debt Actual 1994 Pymin Bog. Plannes Jan. 1, Dec. 31, Dec. 31, rowings Amount of Refine rowings Amount of Refine pail Interest Bog. Plannes (\$) (\$) (\$) (\$) (\$) (\$) (\$) Amount of Refine pail Interest Rate. Pymins (\$)</td>	IES1 DEST PATHENTS Amount Jan. 1, Doc. 31, 1994 Amount of New Bor- rowings Amount of Debt Retin- rowings Amount of Debt Retin- pal Beg. 1995 Intci- pal Interest Rate (\$) (\$) (\$) (\$) (\$) (\$) 102000 198400 x x	DEST PATHENTS DEST PATHENTS DEST PATHENTS Amount Amount of Debt Actual 1994 Pymin Bog. Plannes Jan. 1, Dec. 31, Dec. 31, rowings Amount of Refine rowings Amount of Refine pail Interest Bog. Plannes (\$) (\$) (\$) (\$) (\$) (\$) (\$) Amount of Refine pail Interest Rate. Pymins (\$)

FARM FAMILY FINANCIAL SITUATION (continued)

SCREEN 11. (continued)

SCREEN 11

LIABILI	TIES				DEST PI	ATHENTS					
Creditor (the first 12 characters will be used as input.)	<u>Ато</u> Јал. 1, 1994	unt Dec. 31, 1994	Amount of New Bor- rowings	Amt. of Debt Refin- anced ²	<u>Actual 19</u> Princi- pal	9 <u>94 Pymts</u> Interest	Beg. 1995 Int. Rate	<u>Planne</u> Amt. of Pymts.	d 1995 Pymts. Por Year		
Farm Credit Stock	(\$) 2,000	(\$) 1500	(\$)	(\$)	(\$)	(\$)	(1)	(\$)	(no.)		
Short Term Debt (1 y (borrowed to purchas	ear or less) e capital it	•25)									
PCA	27000	30000	- <u>30000</u> *		27000	1800	8	<u>2500</u>	12		
	- <u></u>		** **	:					_		
Operating Debt (bors entered as expenses	rowed to buy in Bcreen 13	items					Det	reduction			
John Deere	2000	2500		•••••		200	plan oper	ned in: . debt	1500		
Accounts Psyable ³	15050	<u>30000</u>		•••••			acco paya	unts 4	2000		
Advanced Gov't Rec." Total Farm Liab/Pymt	502550	592 440	 <i>\$</i>	s	,75060	38130	Tota Nonf	." 1 470			
Nonfarm Liab/Pymts ⁵ TOTAL LIAB/PYMTS (not including lease	502550	5 <u>93.440</u>	\$x <u> </u>	r	5.750b	38130	Рауш	ents \$			

When entering the interest rate planned for next year, you must type the decimal. The values entered in the "Amount of Payments" and "Payments Per Year" columns will be multiplied together to arrive at a total annual planned payment. The "Payments Per Year" column defaults to "12" since it is most likely the "Amount of Payments" column will contain the monthly payment amount. If the payments are not monthly, enter the appropriate number of payments.

The "Farm Credit Stock" values at the top of Screen 11a are displayed. These values were entered as assets in Screen 9. The order of data entry is across the rows. The calculated values are the rows for Total Farm Liabilities/Payments and Total Liabilities/Payments. If there were previous year's data, the creditor description and beginning year liability columns will be displayed.

Farm No.46006	LIABILITIES	& PLANNED	DEBT PAYMENT	SCHEDULE	Screen #1	1
---------------	-------------	-----------	--------------	----------	-----------	---

LIA	LIABILITIES:						DEBT PAYMENTS:							
	Jan. 1	un	Dec. 31.		new	-	Actual 1994			Int	ne t Am	nea 19 ht.of	90 Pv	mts.
	1994		1994	j	ings	P	rincipal	L	Int.	Rate	Py	mts	/	Yr
*Long Term:														
FLB 3	\$ 202000	\$	198400	\$	0	\$	3600	\$	17500	9.00	\$	170	0	12
:	\$0	\$	0	\$	0	\$	0	\$	0	0.00	\$		Ũ	12
	\$0	\$	0	\$	0	\$	0	\$	0	0.00	\$		0	12
	\$0	\$	0	\$	0	\$	0	\$	0	0.00	\$		0	12
	\$0	\$	0	\$	0	\$	0	\$	0	0.00	\$		0	12
*Intermediate:		••				.		• •						
PCA	\$ 110000	\$	80500	\$	0	\$	29500	\$	11500	12.00	\$	330	0	12
First Bank	\$ 99000	\$	95240	\$	0	\$	3760	\$	7130	7.40	\$	1124	0	1
John Deere	\$ 45000	\$	133800	\$	0	\$	11200	\$	0	12.00	\$	2520	0	1
	\$0	\$	0	\$	0	\$	0	\$	0	0.00	\$		0	12
1	\$ D	\$	0	\$	0	\$	0	\$	0	0.00	\$		0	12
	\$ 0	\$	0	\$	0	\$	0	\$	0	0.00	\$		0	12
	\$ O	\$	0	\$	0	\$	0	\$	0	0.00	\$		0	12
:	\$ O	\$	0	\$	0	\$	0	\$	0	0.00	\$		0	12
<u>ا</u> ۱	\$0	\$	D	\$	D	\$	0	\$	0	0.00	\$		0	12

PRESS [PgDn] OR [ESC] TO GO TO SCREEN 11A

<<<<< (SCREEN 11 CONTINUED)>>>>> (PRESS [PgUp] TO GO TO SCREEN 11)

LI	LIABILITIES:								1	DEBT	PAYMEN	IS:	3 199	5	
	J	an. 1, 1994		Dec. 31, 1994	B	orrow- ings	F	rincipa	1	Int.	Int Rate	Amt Pymt	Of	Ρj	mts /Yr
FCB Stock *Short Term:. PCA	\$ 	2000 27000 0 0	\$ • \$ \$ \$ \$ \$	1500 30000 0 0		30000 0 0	. 5 5 5	27000 0 0	• • • • • • • • • • • • • • • • • • •	1800 0 0	8.00 0.00 0.00		250	 0 0	12 12 12 12
*Operating De John Deere *Accts. Pay.: *Ady Gov Rec.	bt \$ \$ \$	2000 0 15050 500		2500 0 50000 500			.		 \$ \$ \$	200 0 0	Net R Plann Oper. 1 Accts	educt ed: Debt Pay	s \$ \$ \$ \$	 15 00	
*Total Farm: *Nonfarm Liab TOTAL:	* * * *	502550 0 502550	\$ \$ \$	592440 0 592440	\$	0	\$ \$ \$	75060 0 75060	\$ \$ \$	38130 0 38130	Total Payme:	Nonf nts S	arm		0

Screen 12 is the Summary of Yearly Receipts and Changes in Inventory and Accounts Receivable. The pounds of milk sold will be displayed on the screen when it is first brought up. This value was entered earlier in Screen 6. The change in inventory values are also displayed. The dairy cattle change in inventory value is calculated from the dairy cow and heifer values entered in Screen 4. The other livestock change in inventory value is calculated from the bulls and other livestock values entered on Screen 4. The crops change in inventory value is calculated from the grown feeds inventory on Screen 3. The change in advanced government receipts is calculated from the liabilities entered in Screen 11.

There is work space to itemize other receipt items, only the total is entered. The order of data entry is across the rows. The calculated values include the change in inventory column, accrual receipts column, and the total accrual receipts row.

For any negative values in the Change in Accounts Receivable column, you must type the negative sign.

· · · · · · · · · · · · · · · · · · ·				SCREEN 12.
			Change in	
Zaze	Cash 🔶	Change in 🖡	Accounts .	Accrual
Receipts	Receipts	Inventory ¹	<u>Receivable²</u>	Receipts
NILK 3,500,000 Ibs.	\$ <u>437500</u>		<u>s-2151</u>	<u>5435349</u>
Dairy Cattle	20400	<u>s=1300</u>		19100
Dairy Calves	4500			<u> </u>
Other Livestock				
Crops	12 500	10550	-2024	31030
Government Receipts	10950	·*		10426
Custom Nachine Work	3500		-1000	2500
Gas Tax Refunds	<u> </u>			
Other: \$				
····· <i>\$</i> ·····				
····· <i>\$</i> ·····				
Total Other		******		
TOTAL	\$490,050	\$ 9250	5-5175	5499125
Sale of other stock & certificates	(exclude Farm	Credit stock)		کد 17_4
Nonfarm Receipts:				
Cash income (describe & itemise):	argest amounts	•		
		· · · · · · · · · · · · · · · · · · ·	·····) EOEA.	1 1 1 1 00
Noncash Canital transferred to fa	niele capitel re business fo	r cattle, cros	. etc. /e.a.	• <u></u>
cifts/inheritances) /excluding mar	chinery (enter	Screen 2) 4 I	Wal estate	-
(enter Screen 5))				s_1050

SUMMARY	OF	1994	RECEIPTS	AND	CHANGES	IN	INVENTORY	AND	ACCOUNTS	RECEIVABLE

Farm No.46006

Screen #12

SUMMARY OF YEARLY RECEIPTS & CHANGES IN INVENTORY & ACCOUNTS RECEIVABLE

Receipts	C Rec	ash eipts	+	Changes in Inventory	- C	hanges in ccts Rec.	=	Accrual Receipts
Milk 3500000 lbs	\$ 4	37500		_	\$	-2151	\$	435349
Dairy Cattle	\$	20400		-1300	\$	0	\$	19100
Dairy Calves	\$	4500			\$	0	\$	4500
Other Livestock	\$	0	\$; O	\$	0	\$	0
Crops	\$	12500	5	10550	\$	-2024	\$	21026
Government Recpts	\$	10950		; D	\$	0	\$	10950
Cust Mach Work	\$	3500			\$	-1000	\$	2500
Gas Tax Refunds	\$	700			\$	D	\$	700
Other	\$	0			\$	0	\$	0
TOTAL	\$	490050)	\$ 9250		\$ - 5175		\$ 494125
Sale of Other Stoc	k &	Certif:	icate	s (exclude	Farm	Credit Sto	ck)	\$ 1725
NONFARM RECEIPTS								26500
Cash Income								20000
Cash Used in Busi	ness	ITTOM	NONIS	irm Capital	_		5	2600
Noncash Capital T	rans	ferred	to F	'arm Busine	ss, C	attle & Cro	ps Ş	1050

· .

Screen 13, Summary of Year's Expenses and Changes in Inventory or Prepaid Expenses and Accounts Payable, is divided in two screens (Screen 13 and Screen 13a). Screen 13 contains the hired labor, feed, machinery, and livestock expense categories. Screen 13a contains the crops, real estate, other, and nonfarm expense categories. To move from Screen 13 to Screen 13a, press the [Esc] key. To get back to Screen 13 from Screen 13a, press the [Esc] key, then type "13".

The change in inventory values in the "change in inventory or prepaid expenses" column are displayed when Screen 13 is first brought up. These values are calculated from the purchased feed and supply inventories entered in Screen 3. The order of data entry is across the rows. The calculated values are the changes in inventory, accrual expenses column, and the total accrual expenses row.

See page 11 for instructions.		Change in		SCREEN 13.
• • •		Inventory		
	Cash	+ or Prepaid	+ Change in	A ccrual
Farm Expenses	Amount paid	Expenses ¹	Acct.Pay ²	Expenses
				110 7 4 0
<u>Hired Labor</u>	s <u>48750</u>	\$xx	\$	\$78750
<u>Feed</u> (see Guideline 2 on page 11)		- 1/0 0	1	J-UANC
Dairy grain & concentrate	110 000	- 400	15325	147722
Dairy roughage	20000		·	20200
Nondairy feed				
<u>Nachinery</u>	0 3 4 4			9204
Nachine hire, rent & lease	4 500	××		200
Nachinery repairs & parts	38600			JLM
Auto expense (farm share)		xx		13800
Fuel, Oll & grease	14000		-200	12000
Livestock	CAD	.		500
Replacement livestock	<u> </u>	300		5300
Veterinary & Redicine	10450	-/00	-2200	8350
Nilk marketing	8400	asobëjuuu X y	-4400	8400
Cattle lease/rent	940			960
Other livestock expense	20440	-25		20415
+++++++++++++++++++++++++++++++++++++++			· + + · + + + + + + + + +	·+++++++++++
Crops				
Fertilizer & lime	17000	1250 3		182503
Seeds & plants	8300	<u>25</u> 3		8325 3
Spray, other crop expense	8000	700 3		8 700 3
<u>Real Estate</u>			<u> </u>	
Land, building, fence repair	6000	300	22000	<u> </u>
Taxos	1500	xx		
Rent & lease	9600	xx		1600
Other				4000
Insurance	4000	××		
Telephone (farm share)		××		12025
Electricity (farm Share)	12000	××	<u> </u>	78130
Interest	5000	-680 [*]		4320
LISCOLLENGOUS				and and Parks
TOTAL OPERATING	<u>s406530</u>	<u>\$ 1,570</u>	<u>\$ 34,950</u>	<u>\$443,050</u>
Expansion livestock	\$	xx		\$
Purchase of other stock & certificates (e	xclude Farm Ci	redit stock)		s 10.00
<u>Nonfarm Cash Expenses</u> Personal withdrawals & family expenditure	3 ⁴			<u>s 40,000</u>

SUMMARY OF 1994 EXPENSES & CHANGES IN INVENTORY & ACCOUNTS PAYABLE

.

Farm	No.46006										Screen
	SUMMARY	OF	YEARS	EXPENSES	&	CHANGES	IN	INVENTORY	&	ACCOUNTS	PAYABLE

Screen #13

Expenses	Cash Amount Paic	Change in In d + or Prepd ex p	nv. Change In p + Accts Payabl	Accrual e = Expenses
Hired Labor	\$ 48750	\$ 0	\$ O	\$ 48750
Dairy Grain/Conc	\$ 110000	\$ -400	\$ 15325	\$ 124925
Nondairy Feed	\$ 20000 \$ 0	\$\$200 \$0	\$ 0 \$ 0	\$ 20200 \$ 0
MACHINERY Mach Hire/Rent/L:	s \$ 9300	\$ 0	\$ 0	\$ 930 0
Mach repair/parts Auto Expense	s\$38600 \$1600	\$0 \$0	\$\$0 \$0	\$ 38600 \$ 160D
Fuel Oil & Grease LIVESTOCK	e\$14000	\$ 0	\$ - 200	\$ 13800
Replacement Lvst	k\$ 500	\$ 0	\$ O	\$ 500 • 5300
Vet & Medicine	s 10650	\$ 300 \$ -100	\$ -2200	s 5300 S 8350
Milk Marketing Cattle Lease	\$ 8400 \$ 960	\$0 \$0	\$0 \$0	\$\$8400 \$\$960
Other Lystk Exp	\$ 20440 GO TO SCPET	\$ -25	\$ O	\$ 20415

<<<<(SCREEN 13 CONTINUED)>>>>> (PRESS [ESC] TO GO TO SCREEN 13)

Expenses	Ca Amo	sh unt Paíd	Char + or I	nge in Inv Prepd exp	7. Cha + Acc	nge In ts Pay.	7 = F	lccrual Expenses	
CROPS	-								
Fertilizer/Lime	\$	17000	\$	1250	\$	0	\$	18250	
Seeds & Plants	\$	8300	\$	25	\$	0	. \$	B325	
Spray/Other Exp	\$	8000	\$	700	\$	0	\$	8700	
REAL ESTATE									
Land/Bldg Repair	\$	6000	\$	300	\$	22000	\$	28300	Ì
Taxes	\$	8500	\$	0	\$	0	\$	8500	
Rent/Lease	\$	9600	\$	0	\$	0	2	9600	
OTHER									
Insurance	\$	4000	\$	0	\$	0	\$	4000	ļ
Telephone	\$	1800	\$	0	\$	0	\$	1800	
Electricity	\$	12000	\$	0	\$	25	\$	12025	
Interest Paid	\$	38130	\$	0	\$	0	\$	38130	1
Miscellaneous	\$	5000	\$	-680	\$	0	\$	4320	
TOTAL	\$ 40	6530	\$	1570	\$ 3	4950	\$ 44	13050	Ì
Expansion Lystk.	\$	0	\$	0	\$	D	\$	0	
Purchase of Other S	tock	& Certi	ficates	5(exclude	Farm C	redit)	\$	1000	
NONFARM CASH EX	PENS	ES							
Personal Withdraw	als	& Family	Expend	ditures			\$	40000	

The final screen, Screen 14, contains optional input. The first section is where the breakdown of crop expenses are entered. The total crop expense row at the bottom of the screen is displayed. These values were calculated from the crop expense data entered in Screen 13. The rows for hay crop, corn, and pasture require data entered in them. The all other crops row is calculated as the residual so the column totals equal the crop expenses in Screen 13.

The second section of Screen 14 is the input for deferred tax calculations. Enter tax basis, market value, and proprietorship or partnership information.

BREAKDOWN OF 1994 ACCRUAL	CROP EXPENSES BY C	ROP	SCREEN 14
	Accrual Ferti-	Accrual Seeds	Accrual Spray.
Crop	lizer & Lime	& Plants	Other Cron Expenses
Hay crop (silage & dry)	s 5000	\$ 3500	S LODD
Corn (silage & grain)	12000	4500	<u> </u>
Pasture	500		
All other crons	750	325	1700
Total	18250	\$ \$325	
10021	¥	Ŷ <u>₹</u> _ <u></u> <u></u> _ <u></u>	\$ <u>1_/_</u> ¥
Totals above mus	t equal <u>accrual</u> exp	enses in Screen 13, p	eage 13.
OPTIONAL INPUT FOR DEFERR	ED TAX CALCULATIONS		
It will be assumed that: ((1) farm assets not	listed below will no:	t significantly
influence deferred tax lis	bility, and (2) all	l gain on machinery a	nd purchased
livestock is ordinary gain			•
Tax Basis (undepreciated)	palance) of: (as of	December 31, 1994)	
Purchased livestock (inclu	aded in livestock i	nventory, Screen 4)	s 500
Machinery & equipment (inc	cluded in mach. inv	entory, Screen 2)	\$ 150000
Buildings & improvements	(included in R.E. i	nventory, Screen 5)	\$ 55000
Part that is single i	urpose livestock s	tructure.	·
silos. 4 grain	bing (S or N)		NOR 5 3000
Land (included in land and	1 building inventor	v. Screen 5)	\$200,000
Operator residences ¹ (inc	luded in lend £ bld	, inventory. Screen	51 5 25000
Nonfarm assets (included	in Screen 9)		5 H 0000
			\$ 40000
+++++++++++++++++++++++++++++++++++++++	*****	++++++++++++++++++++++++++++++++++++++	*****
Market Value of:			
Operator residences (inclu	uded in land & bldg	. inventory, Screen 5	1 5 50000
Single purpose livestock	tructure, silos		, <u>, , , , , , , , , , , , , , , , , , </u>
f grain bing (\$	or & of R.E. inven	tory)	NOR 5 20000
Purchased Livestock (S or	h of livestock inv	entory)	
		mcory)	• UR \$ <u>500</u>
Proprietorehin.			
Tay filing status?			2
Nonform income of onerste		lowerst ton was said	
Roman Income of Operator	on which sell-emp.	loyment tax was paid	»
Partnership Information	<u>Partner 1 Partr</u>	ner 2 Partner 3 Pi	artner 4 Partner 5
Tax Filing Status ²			
Percent Share of Farm			
Adjusted Gross Income	•		\
Percent Ownership of:			*
Current Assets			· • •
	·;	—; ——; —	
Nachinery		—; — <u> </u>	
Real Retate	·;		
Nonfarm Lesses Tisted	`	—; ——; —	
Nonferm Treese of onesets	```	**	**
Romierm income of operato	E	· · ·	
on which self-employme.	nt 🔺		,
tax was paid	» \$	<u> </u>	*

¹Residences included in farm real estate lived in by the operators of the business. ²I-single, 2-married filing jointly, 3-married filing separately, 4-head of household. Farm No.46006

Screen #14

•

BREAKDOWN Crop Acc	N O Fe:	F 1994 ct./Lim	ACCRUAL	CROP Seed	EXPENSES ds/Plants	BY CROP Acc S	pry/0	thr Exp
Hay Crop (silage & dry) Corn (silage & grain) Pasture All other crops TOTAL	* * * * *	5000 12000 500 750 18250		* * * *	3500 4500 0 325 8325	\$ \$ \$ \$	10 60 17 87	00 00 00 00 00
OPTIONAL INPUT FOR DEFERE Tax Basis (undepreciated Purchased livestock Machinery & equipment Buildings & improvemen Part that is single silos, & grain h Land Operator residences Nonfarm assets	ED ba	TAX CA Lance) urpose 5 (% or	ALCULATIC of: (as livestoc \$)	ONS of De k st:	ecember 3: ructure,	1, 1993) 0%	\$ \$ 0T \$ \$ \$	500 150000 55000 200000 25000 40000

Press [ESC] or [PgDn] to go to Screen 14A

<<<<(SCREEN 14 CONTINUED)>>>> (PRESS [ESC] TO GO TO SCREEN 14)

Market value of: Operator residence Single purpose liv	s estock st	ructure	silo	S			\$	50000
& grain bins		0%	or \$	20000				
Purchased Livestoc)	0%	\$	500				
Proprietorship Inform	ation:			•				
Tax filing status	*							2
Nonfarm income of o	perator o	n which	self-	employment	tax was	pai	2 b	0
PARTNERSHIP INFO.	PARTNER 1	PARTNE	ER 2	PARTNER 3	PARTNER	4	PARTN	ER 5
Tax Filing Status	0		0	0	0			0
Percent share of Farm						•		
Adj. gross income	0%		0%	0%	0%	`		0%
Percent Ownership of:								
Current Assets	0%		0%	0%	0%	`		0%
Livestock	0%		0%	0%	0%			0%
Machinery	0%		0%	0%	0%	5		0%
Real Estate	0%		0%	0%	0%			0%
Nonfarm Assets List	ed 0%	•	0%	0%	0%			0%
Nonfarm Income of O	perator of	n which	Self-	Employment				
tax was paid	\$	0\$	0	\$ 0	\$	0	\$	D

At the command line, type J (return/enter) or [Esc] to go back to the main menu. AT THIS POINT THE DATA ARE STORED TO DISK - THEREFORE DO NOT REMOVE THE DISKETTE FROM THE DRIVE.

V. <u>Verify the data</u>.

We all make typing mistakes occasionally. The "Verify Record" option is an important step that will reduce the embarrassment of having a farmer tell you that you typed one of his figures incorrectly and printed out a "nonsense" summary for him. It is tempting to skip this step. The best advice is <u>don't skip this step</u>.

Use the \downarrow cursor key to move down to "Verify Record" in the main menu and type \downarrow . You will be asked for the farm number. Type:

46006 ↓ (return/enter)

The program will go on to Screen 1. As you see, the information that was entered under the "Create/Update/Display Record" option is displayed. Re-enter the data for Screen 1.

If you were to incorrectly enter the Operator's name as "Harvey Holstein", the following message would appear on the screen:

ENTRY DOES NOT MATCH PREVIOUS ENTRY

The program will give you this kind of message for up to three tries. On the fourth try, if it still does not match a previous entry, the following message will be displayed:

LAST ENTRY DIDN'T MATCH - ACCEPTED WITHOUT QUESTION

At this point you are on your own to see that the entry is correct. Use the cursor key (\uparrow) to move back to the incorrect entry and retype it.

In Screens 2 through 14, where the entries are numeric not character data, the value you are verifying will appear as a zero.

Re-enter the data for all the screens. The cursor movement and movement between screens are done the same as in the "Create/Update/Display Record" option.

When you have completed the verification process on Screen 14, the program will return to the main menu.

VI. <u>Calculate and print farm summary</u>.⁸

You are now ready to calculate and print a dairy farm business summary. Use the \downarrow cursor key to move down to "Calculate and Print Farm Summary". You will be prompted for the farm number. Type:

46006 ↓ (return/enter)

The following will be displayed on the screen⁹:

BEGINNING CALCULATIONS-If you get error 02, you may have missing data.

DFBS CALCULATION PROGRAM

ENTER DESIRED OUTPUT DEVICE; (S)creen, (P)rinter, (F)ile or (Q)uit

Select the appropriate output device¹⁰:

- Type "S" to have the output be displayed on the screen. The output will scroll, so use [Control] - [num-lock]¹¹ keys or the [Pause] key to stop the output from scrolling. Press any key to continue scrolling.
- 2. Type "P" to have the output printed on your printer. You will be prompted for the number of copies to print. Before entering the number be sure to have your printer on and the paper set at the perforation. The program will advance the paper a couple of lines before starting to print.
- 3. Type "F" to have the calculated output stored on your disk in text format. The file name will be made up of the farm number with a file extension of .prn (<farm no.>.prn). This file will be stored on the disk that you specified when you ran the "install" program. This option is useful when you want to load the output into a word processing package or print from DOS.
- 4. Type "Q" to go back to the main menu.

After you select one of the above, you will see the following message: ENTER DESIRED REPORT, PAGE NUMBER OR A FOR ALL PAGES: (A)11 Pages, (D)iags.,(C)ash Flow, (V)Convert, (T) Tax Deferment or Page #: Typing A J (return/enter) will display, print or file the 12 pages of output plus the diagnostic page; D J gives the diagnostic page only; C J gives the old format of the Cash Flow Statement; VJ makes the file <farm no.>XP.prn that is used by the DFBS Expert System Analysis, TJ gives the condensed balance sheet including deferred taxes; and entering a number from 1 to 12 gives you that page number.

⁸See Appendix C for the procedure used to calculate costs of producing milk that are printed on page 10 of the following output.

⁹If there were no previous year's data, the following messages will also be displayed:

1993 FILE DOES NOT EXIST - SETTING VALUES TO 0 1992 FILE DOES NOT EXIST - SETTING VALUES TO 0

 10 If there is an I/O error F3 during calculation, follow the instructions in Appendix D.

¹¹Hold down the [ctrl] key and press the [num-lock] key.



1994 DAIRY FARM BUSINESS SUMMARY

FARM NO. 46006 PROGRESS OF THE FARM	BUSINESS	JANUARY 25,	1995
SELECTED FACTORS	<u>1992</u>	<u>1993</u>	<u>1994</u>
Size of Business Avg # of cows Avg # of heifers Milk sold, lbs. Worker equiv. Total tillable acres	108 60 2320051 2.33 280	110 60 2310262 2.42 280	157 101 3500000 4.67 450
Rates of Production Milk sold per cow,lbs. Hay DM per acre,tons Corn silage per acre,tons	21482 1.9 8	21002 3.9 15	22293 3.4 19
Labor Efficiency Cows per worker Milk sold per worker,lbs.	46 994308	46 955970	3 4 750000
Cost Control Grain & conc. purch. as % milk sales Dairy feed & crop exp. per cwt. milk Labor and mach. costs per cow Operating cost of prod. milk per cwt.	26% \$ 3.65 \$ 1051 \$ 8.39	30% \$ 4.44 \$ 1055 \$ 8.23	29% \$ 5.15 \$ 1314 \$ 11.01
Capital Efficiency (average for year) Farm capital per cow Machinery and equipment per cow Asset turnover ratio	\$ 8261 \$ 2095 0.41	\$ 8460 \$ 2307 0.40	\$ 6081 \$ 1413 0.54
Profitability Net farm income w/o apprec. Net farm income w/ appreciation Labor & management income per op/mgr Rate return on equity capital w/appre Rate return on all capital w/apprec.	\$ 47043 \$ 110307 \$ 5022 \$ 9.6% 9.1%	\$ 65108 \$ 96434 \$ 14245 7.0% 6.9%	\$ 6025 \$ 24175 \$ -17068 -10.9% -0.5%
Financial Summary Farm net worth, end year Debt to asset ratio Farm debt per cow Cash flow coverage ratio	\$ 786705 0.14 \$ 1169 0.88	\$ 819899 0.13 \$ 1156 1.67	\$ 407110 0.59 \$ 3832 3.10
SINGLE FROP, ON FARM COMPUTER, OWNER, F	CTTL_THF'	DAIKI."	

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JANUARY 19, 1995

		INCOME S'	TAT	EMI	ENT				
EXPENSES	Amc	Cash ount paid	+	Cha Inv or Ex	ange in ventory Prepaid - opense*	+	Change in Accounts Payable**	ŧ	Accrual Expenses
Hired Labor	\$	48750		\$	0<<		\$0	\$	48750
Feed Dairy grain & conc. Dairy roughage Nondairy		110000 20000 0			-400 200 0		15325 0 0		124925 20200 0
Machinery Mach hire, rent/lease Machinery repairs/parts Auto expense (f.s.) Fuel, oil & grease	5	9300 38600 1600 14000			0<< 0 0<< 0		0 0 -200		9300 38600 1600 13800
Livestock Replacement livestock Breeding Veterinary & medicine Milk marketing Cattle lease/rent Other livestock expense	2	500 5000 10650 8400 960 20440			0<< 300 -100 0<< -25		0 0 -2200 0 0 0		500 5300 8350 8400 960 20415
Crops Fertilizer & lime Seeds & plants Spray, other crop exp.		17000 8300 8000			1250 25 700		0 0 0		18250 8325 8700
Real Estate Land/bldg/fence repair Taxes Rent & lease		6000 8500 9600			300 0<< 0<<		22000 0 0		28300 8500 9600
Other Insurance Telephone (farm share) Electricity (farm share Interest paid Miscellaneous	2)	4000 1800 12000 38130 5000			0<< 0<< 0<< 0<< - 680		0 0 25 0 0		4000 1800 12025 38130 4320
TOTAL OPERATING	\$	406530		\$	1570		\$ 34950	Ş	\$ 443050
Expansion livestock Machinery depreciation Building depreciation	\$	0		\$	0<<		\$0		0 34000 10000
TOTAL ACCRUAL EXPENSE	s							Ş	487050

*Changes in inventory include net amounts of items used out of purchased inventory this year (positive change is amt. inventory declined, negative change is amt. inventory increased). Changes in prepaid expenses, (noted by << above) apply to non-inventory categories (positive change is amt. pre-pymnt. declined.) **Unpaid items or services used or added to inventory during the year.

FARM NO. 46006	•				JANUARY	19,	1995
	INCOME STAT	r <u>ement (</u> c	<u>onti</u>	nued)			
				Cha	nge in –	_	-
	Cash	Change i	n .	Acc	ounts	Acc	rual
RECEIPTS	<u>Receipts +</u>	Inventor	<u>y* +</u>	Rece	<u>ivable =</u>	Rec	eipts
Milk sales	\$ 437500	• • • • • •		Ş	-2151	Ş 4	35349
Dairy Cattle	20400	Ş - 1300			0		19100
Dairy calves	4500				0		4500
Other livestock	0	0			0		0
Crops	12500	10550			-2024		21026
Gov't receipts	10950	0	**		0		10950
Custom machine work	3500				-1000		2500
Gas tax refund	700				0		700
Other	0				0		0
-Noncash capital transfe	r (·	-) 1050	***		(•	-)	1050
TOTAL ACCRUAL RECEIPTS	\$ 490050	\$ 8200)	\$	-5175	\$4	93075
*Change in lvstk inv. w/	o apprec. &	total ch	ange	e in g	rown feeds	s ir	v.
**Change in advanced gov	ernment rec	eipts.	-	-			
***Gifts & inheritances	of cattle &	crops to	the	farm	business.	•	
	PROFITA	BILITY AN	ALYS	SIS			
			Wit	hout	Appreci-		With
RETURN TO OPERATOR(S) &	FAMILY LABO	R	Apr	prec.	+ ation	= A	pprec.
UNPAID, MGMT., & EOUITY	CAPITAL:					-	
Total Accrual Receipts			\$ 49	3075			
Livestock Apprec	iation		• ••		\$ 15375		
Machinery Apprec	iation				-6200		
Real Estate Annr	eciation				8250		
Other Stock/Cert	Annreciat	ion			725		
other block/cert	. Appreciat	1011			123	Ś	511225
- Total Accrual Expenses	1		\$ 48	87050		š	487050
= NFT FARM INCOME			š	6025		š	24175
- NEI IMMI INCOME			¥	0025		Ŷ	241/5
RETURN TO OPERATOR(S) LA	BOR						
MANAGEMENT & EOUTTY CAPI	TAL.						
Net Farm Income			Ś	6025		Ċ	24175
- Family Labor Unnaid 6	\$1450/mo		¥ 1	7400		4	17400
= RETURN TO OP /S LABOR	MGT L FO	CADTUAL.	s _1	1375		¢	6775
- ALIONA TO OF. 5 LABOR,	MGI. a by.	CULTIND	Υ			Ŷ	0775
PETTION TO ODEDATODIC TAE	OD & MANACE	MENT.					
Deturn to On (a Tabox	Wat I Fa	Comitol	¢	1275			
- Deal Internet on 6 207	170 Junerogo	Capital	ş	113/5			
- Real interest on 5 397	178 Average			0050			
Equity Capital @ 5%				19859			
= LABOR & MANAGEMENT INC	OME		3 -3	51234			
LABOR & MANAGEMENT INC	. PER 1.83	OP./MGR.	Ş -	17068			
RETURN TO EQUITY CAPITAL			<u> </u>				<
Return to Op.'s Labor	Mgt. & Eq.	capital	\$ -	11375		Ş	6775
- value of Operator's La	por & Manag	ement		00000		▲	50000
= RETURN TO EQUITY CAPIT	AL		Ş -(51375		Ş	-43225
Rate of Return on Equi	ty Capital		-:	15.5%			-10.9%
RETURN TO ALL CAPITAL:	_		•				
Return to Equity Capit	al		Ş -0	51375		Ş	-43225
+ Interest Paid				38130			38130
= RETURN TO ALL CAPITAL			Ş -2	23245		Ş	-5095
Rate of Return on All	Capital			-2.49	5		-0.5%

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FARM NO. 46006

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			<u> 1994 B</u>	ALANCE SHEET	
ASSETS	_	_	FAR	M BUSINESS LIABILITIES & NET WORTH	
Current	Jan.	1	Dec. 31	CurrentJan. 1Accounts payable\$ 15050Constraint\$ 15050	Dec. 31 50000
& savings Accts. rec.	\$3 \$35	500 000	\$	John Deere 2000 0	2500 0
Feed/supplies	101	470	0 110450	Short term: PCA 27000 0	30000 [*] 0
Total	\$ 139	970	\$ 141150	0 Advanced Gov. Rec. 500	0 500
				Current portion: Intermediate 29917 Long Term 345 Total \$ 74811 \$	44979 2652 130631
Intermediate Dairy cows: owned leased Heifers Bulls/other	120 1 54	000 312 800	126500 226 62375 0	Intermediate PCA 100839 First Bank 98044 John Deere 25200 0	48857 91048 124656 0
Mach/eq owned Mach/eq lease FCB Stock Other stock	188 d 5 2	000 517 000	250000 285 1500		0 0 0 0
& cert. Total	\$ 371	25 655	25 \$ 440912	Financial lease (Cattle/mach.) 6830 FCB Stock 2000	512 1500
Long-Term Land/buildings owned leased	s: 385 11	000 735	418000 1012	Long-Term FLB 201655 0 0	195748 0 0
Total	\$ 396	735	\$ 419012	$\begin{array}{c} 0\\ 0\\ Fin \ lease \ (struc) \ 11735 \end{array}$	0 0 1012
Total Farm Assets	\$ 908	359	\$1001073	Total \$ 213390 \$ Total Farm Liab. \$ 521114 \$ FARM NET WORTH \$ 387245 \$	196760 593963 407110
Nonfarm Asset Pers. cash/c Cash value o Nonfarm Real Auto (person Stocks & Bon Household Fu All other Total Nonfarm	s hkg/sa f life Estat al sha ds rnishi	vings insu e re) ngs	Jan. 1 $ $	NONFARM Dec. 31 Nonfarm Jan. 1 \$ 11000 Liab. \$ 0 6200 11000 12860 8500 8000 0 NONFARM \$ 57560 NET WORTH \$ 57780 & NONFARM	Dec. 31 \$ 0 \$ 57560 Dec. 31
Total Farm & Total Farm & FARM & NONFAR	Nonfar Nonfar <u>M NET</u>	m Ass m Lia WORTH	sets bilities	\$ 966139 \$ \$ 521114 \$ \$ 445025 \$	1058633 593963 464670

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BALANCE SHEET ANALYSIS

5

Financial Ratios			Farm	Business	Farm	& Nonfarm
Percent equity				41%		448
Debt to asset ratios:	Total Long-te Interme	rm diate/c	urrent	0.59 0.47 0.68		0.56
Debt Analysis						
Accounts payable as a	of total	debt		8	8	
Long-term debt as a a	of total	debt		33	8	
Current & intermediat	e debt as	% of t	otal deb	t 67	8	
Debt Levels		Per	Cow	Per _Acr	Tillable e Owned	
Total farm debt		\$ 38	332	\$	1980	
Long-term debt		12	269		656	
Intermediate + Long-t	erm	29	89		1544	
Intermediate + currer	it	25	563		1324	
Farm Inventory	Real <u>Estate</u>	Mac & Ec	chinery nuipment	Liv	vestock	Feed & Supplies
Beginning of Year	385000	\$ 3	L88000	\$ 1	74800	\$ 101470
Purchases	40000*	-	L00000			
+ Noncash Transfer to Farm	10000		2500			
- Lost Capital	5000					
- Net Sales	10250		300			
- Depreciation	10000		34000			
= Net Investment	24750		68200		-1300**	
Appreciation	8250		-6200		15375	
End of Year	418000	\$ 2	250000	\$:	L88875	<u>\$ 110450</u>

** See page 10, Dairy Inventory Analysis, for dairy cow and heifer inventory detail. FARM NO. 46006

STATEMENT	OF	OWNER	EQUITY	(RECONCILIATION
	_			

			<u>Fa</u>	rm Bu	<u>isiness</u>
Beginning of year farm net worth				\$	387245
Net farm income without appreciation		\$	6025		
+ Nonfarm cash income		+	26500		
 Personal withdrawals and family expenditures excluding nonfarm borrowings 	S		40000		
RETAINED EARNINGS		=		+\$	-7475
Nonfarm noncash transfers to farm		\$	13550		
+ Cash used in business from nonfarm capital		+	2600		
- Note/mortgage from farm real est. sold (non:	farm)		0		
CONTRIBUTED/WITHDRAWN CAPITAL		=		+\$	16150
Appreciation		\$	18150		
- Lost capital			5000		
CHANGE IN VALUATION EQUITY		=		+\$	13150
IMBALANCE/ERROR				- <u>\$</u>	1960
End of year farm net worth				=\$	407110
Change in net worth with appreciation				\$	19865
Change in Net Worth	Fa <u>Busi</u>	rm ness		Fa: Noi	rm & nfarm
Without appreciation With appreciation	\$ \$ 1	1715		s ·	19645

The Statement of Owner Equity has two purposes. It allows (1) verification that the accrual income statement and market value balance sheet are interrelated and consistent (in accountants' terms, they reconcile) and (2) identification of the causes of change in equity that occurred on the farm during the year. The Statement of Owner Equity allows you to determine to what degree the change in equity was caused by (1) earnings from the business, and nonfarm income, in excess of withdrawals being retained in the business (called retained earnings), (2) outside capital being invested in the business or farm capital being removed from the business (called contributed/withdrawn capital) and (3) increases or decreases in the value (price) of assets owned by the business (called change in valuation equity).

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7 ANNUAL CASH FLOW STATEMENT JANUARY 19, 1995

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Cash Flow From Operating Activities			
Cash farm receipts - Cash farm expenses = Net cash farm income	\$ 490050 406530	\$ 83520	
Nonfarm income - Personal withdrawals/ family expenses, including nonfarm debt payments + Net cash nonfarm income	26500 40000	<u>\$ -13500</u>	
= Net Provided by Operating Activities		\$	70020
Cash Flow From Investing Activities			
Sale of assets: machinery + real estate + other stock/cert. = Total asset sales	\$	\$ 12275	
Capital purchases: expansion livestock + machinery + real estate + other stock/cert. - Total invested in farm assets	\$0 100000 40000 1000	<u>\$ 141000</u>	
 Net Provided by Investing Activities 		\$-	128725
Cash Flow From Financing Activities			
Money borrowed (intermediate & long-term) + Money borrowed (short-term) + Increase in operating debt + Cash from nonfarm capital used in business + Money borrowed - nonfarm = Cash inflow from financing	\$ 100000 30000 500 2600 0	\$ 133100	
Principal payments (inter. & long-term) + Principal payments (short-term) + Decrease in operating debt - Cash outflow for financing	\$ 48060 27000 0	<u>\$ 75060</u>	
 Net Provided by Financing Activities 		\$	58040
Cash Flow From Reserves			
Beginning farm cash, checking & savings - Ending farm cash, checking & savings		\$ 3500 <u> 875</u>	
= Net Provided from Reserves		\$	2 625
Imbalance (error)		\$	1960

FARM NO. 46006

REPAYMENT ANALYSIS

8

JANUARY 19, 1995

Debt Payments	f	Planned for 1994*	Made in 1994	<u>t</u>	Planned for 1995
Long term	\$	12960	\$ 21100	\$	20400
Intermediate term		21900	63090		76040
Short-term		0	28800		30000
Operating (net reduction)		0	0		1500
Accounts payable (net reduction)		0	0		40000
Total	\$	34860	\$ 112990	\$	167940
(% made of planned = 324%)					
Per cow	\$	222	\$ 720		
Per cwt. 1994 milk	\$	1.00	\$ 3.23		
Percent of total 1994 receipts		78	23%		
Percent of 1994 milk receipts		88	26%		
* If on Business Summary in 1993.					
Cash Flow Coverage Ratio					
Cash Farm Receipts	\$	490050			
- Cash Farm Expenses		406530			

- Cash Farm Expenses	406530	
+ Interest Paid	38130	
- Net Pers. Withdls from H	Farm** 13500	
(A) = Amount Available for Deb	ot Service	\$ 108150
(B) = Debt Payments Planned for	\$ 34860	
(A / B) Cash Flow Coverage Rat	tio for 1994	3.10

** Personal withdrawals & family expenditures less nonfarm income and nonfarm money borrowed. FARM NO. 46006

CROPPING PROGRAM ANALYSIS

JANUARY 19, 1995

Land	Owned		Rent	ed	Total
Tillable	300]	50	450
Nontillable Pasture	10			0	10
Other nontillable	13			0	13
Total	323]	L50	473
Owen Wielde		•	Tot	al	Production
Crop Yleids		Acres	Produ	ICTION	<u>Per Acre</u>
Hay grop gilago			240	TONS DM	
Total Hay Crop Product	ion	100	300	Tons DM	2 27 TODE DW
Corp silage	ION	110	2000	Tons Dr	18 91 Tons
corn Bridge		110	2000	Tons DM	6 62 Tons DM
Other forage		0	/20	Tons DM	0.02 Tons DM
Total Forage		290	1334	Tons DM	4.60 Tons DM
Corn grain		100	11148	Bushels	111.48 Bushels
Oats		15	900	Bushels	60.00 Bushels
Wheat		15	800	Bushels	53.33 Bushels
Other crops		Ō			
Tillable pasture		30			
Idle tillable land		0			•
Total tillable acres		450			
Crop Related Accrual Exp	enses				
	otal Per	r All C	orn Co	orn Silag	e Corn Grain/
<u>Crop Expenses</u> <u>Ti</u>	<u>ll. Acre</u>	e /Ac	re	/Ton DM	Dry Shell Bu
Fertilizer & Lime \$	40.56	\$ 57.	14 Ş	8.63	\$ 0.51
Seeds & plants	18.50	21.	43	3.24	0.19
spray/other crop exp.	19.33	28.	57	4.32	0.26
Total Crop Expense \$	/8.39	\$ 107.	14 Ş	16.19	\$ 0.96
	Hay	Crop			Pasture
Crop Expenses	/Acre	/Ton D	M 7	Till. Ac	re /Total Acre
Fertilizer & lime 5	27.78	\$ 8.2	5 -	Ş 16.6	7 \$ 12.50
Seeds & Plants	19.44	5.7	8	0.0	0 0.00
Spray/other crop exp.	_5.56	1.6	5	0.0	0 0.00
Total Crop Expense \$	52.78	Ş 15.6	8	Ş 16.6	7 \$ 12.50
Machinery		Total		P	er Tillable Acre
Fuel, oil & grease		s <u>13800</u>		<u>*</u>	<u>5 30.67</u>
Machinery repair & parts		38600			85.78
Machine hire, rent & lea	se	9300			20.67
Auto expense (farm share	$\overline{\mathbf{b}}$	1600			3.56
Interest (5%)	•	10950			24.33
Depreciation		34000			75.56
<u>Total Machinery Cost</u>		<u>\$ 108250</u>			\$ 240.56
Crop/Cow Factors					
Total Tillable Acres per	Cow		2.87		
Total Forage Acres per C	ow	A	1.85		
Harvested Forage Dry Mat	ter per	Cow	8.50		

FARM NO. 46006

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JANUARY 19, 1995

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Dairy Inventory		DA1	.RI	ANA	LI212		Heife	re			
Daily inventory	Dairy	7 Cows -		Br	ed		Open	<u> </u>	Ca	lve	s
	No.	Value	<u>Nc</u>	<u>).</u>	Value	<u>No.</u>	<u>Val</u>	<u>ue l</u>	No.	V	alue
Beg. of Year + Change in Inv	120	\$ 120000	25	5\$	21250	21	\$ 11	.550 !	55	\$	22000 3
(w/o apprec + Appreciation = End of Year	2.) 115	-5000 11500 \$ 126500	30)\$	4250 1500 27000	20	- 1 \$ 12	550 000 000	55	\$	0 1375 23375
(incl. leased) Average Number	155 157		101	À	ll Age	Group	ps				
Milk Production Total milk sold Milk sold per cov Average milk plan	w nt tes	st		3	500000 22293 3.70	lbs. lbs. % but	tterfa	it			
Accrual Receipts Milk Dairy cattle (ind Dairy calves	<u>From</u>	<u>Dairy</u> ng culls)	\$	<u>Tot</u> 435 19 4	al 349 100 500	\$ ¹	Per Co 277 12 2	22 29	\$	<u>Per</u> 12 0	<u>Cwt.</u> .44 .55 .13
Total			\$	458	949	\$	292	23	\$	13	.11
Accrual Costs and Operating cost of Purchased inputs	<u>d Pro</u> f pro cost	fitability ducing mil} of	c \$	385	324	\$	245	54	\$	11	.01
producing milks Total cost of pro Net Farm Income w Net Farm Income w	* oducin withow with a	ng milk ut apprec. apprec.		429 516 24	324 583 6025 175		273 329 15	35 90 38 54			2.27 4.76 0.17 0.69
Dairy Related Acc Purchased dairy of & concentrates Purchased dairy of Total Purchased	<u>crual</u> grain rougha d Dai:	Expenses age ry Feed	\$	124 20 145	925 200 5125	\$	79 12 92	96 29 24	\$		8.57).58 4.15
Purchased grain as % of milk ro Purchased feed & Purchased feed &	crop crop crop	centrates ts exp. exp.	\$	180	29%)400	\$	114	19	\$	5	5.15
as % of milk re Breeding Veterinary & med Milk marketing	eceip [.] icine	ts.	\$	8	41% 300 350 3400	\$		34 53 54	\$).15).24).24
Other livestock	expen	se	\$	20	960	\$	13	30	\$	().58

D.H.I, HERRINGBONE PAR, FREESTALL, 3 TIMES/DAY, bST Usage = <25%.

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*Total cost of producing milk excluding unpaid family labor and operator's labor, management and capital.

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11 JANUARY 19, 1995 CAPITAL & LABOR EFFICIENCY ANALYSIS

<u>Capital Efficiency</u> (Average fo	r Year)		
P Farm capital \$ Real estate Machinery & equip.	<u>er Worker</u> 204582 47550	<u>Per Cow</u> \$ 6081 2598 1413	Per Tillable <u>Acre</u> \$ 2122 493	Per Tillable <u>Acre Owned</u> \$ 3182 1360
Asset Turnover Ratio	0.	54		
Labor Force	Months	Age	Years of Education	Value of Labor & Mgmt.
Operator number 1 Operator number 2 Family paid Family unpaid Hired	11.0 11.0 0.0 12.0 22.0	28 31	14 16	\$ 20000 \$ 30000
Total	56.00 /	12 = 4.6 1.8	7 Worker Equival 3 Operator/Manag	ent er Equivalent
Labor Efficiency				
	<u>T</u>	<u>otal</u>	Per	Worker
Cows, average no. Milk sold, lbs. Tillable acres Work units	350	157 0000 450 1575		34 750000 96 338
Labor Cost		<u>Total</u>	Per Cow	Per Cwt.
Value of Operator(s) Labor (\$1450/month Family unpaid (\$1450 Hired)* /month)*	\$ 31900 17400 48750	\$203 111 311	\$ 0.91 0.50 1.39
Total Labor		\$ 98050	\$ 625	\$ 2.80
Machinery Cost (see	page 9)	\$ 108250	\$ 689	\$ 3.09
Total Labor & Machir	ery Costs	\$ 206300	\$ 1314	\$ 5.89

* When comparing to previous years data, please note 1990 constants used in calculations were \$1250/month for both the Value of Operator(s) Labor and Unpaid Family Labor. In 1991, these values were \$1,300/month, in 1992 they were \$1350/month, and in 1993 they were \$1,400/month.

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12 ANNUAL CASH FLOW WORKSHEET

JANUARY 19, 1995

	Receipt or Expense								
Ttom	motal	Per	Per	Expected	1995 Drojoction				
Average Number of Cours	<u>167</u>		CWC.	Change	Projection				
Cut of Milk Sold	35000								
ACCDUAL ODEDATING DECETORS	35000								
Milk creating Receiving c	135310	62772	612 11		ć				
Dairy cattle	10100	122	912.44		¥				
Dairy Calves	4500	20	0.55		····				
Other livestock	4500	29	0.13						
Crong	21026	134	0.00						
Miscellaneous receipts	21020	T 34	0.00		······································				
miscerraneous recerpts	404125	62147	¢14 12		¢				
	494120	Ş314/	Ş14.12		¥				
ACCRUAL OPERATING EXPENSES									
Hired Jabor 6	49750	\$ 211	¢ 1 20		ć				
Dairy grain & concontrato	40/00	2 JII 706	2 1.35 2 57		ې				
Dairy grain & concentrate	124925	120	3.57	<u> </u>	······································				
Nordairy food	20200	129	0.58						
Machino biro (ront (loago	0200	50	0.00						
Machine hire/rent/rease	9300	29		_					
Mach. repair/parts & auto	40200	250	1.12						
Puel, oll & grease	13800	88	0.39						
Replacement livestock	500	3	0.01						
Breeding Noteminerus f. medicine	5300	34	0.15						
veterinary & medicine	8350	53	0.24						
Milk marketing	8400	54	0.24						
Cattle lease	960	6	0.03						
Other livestock expense	20415	130	0.58						
Fertilizer & lime	18250	116	0.52	·					
Seeds & plants	8325	53	0.24						
Spray/other crop expense	8700	55	0.25						
Land, bldg., fence repair	28300	180	0.81						
Taxes	8500	54	0.24						
Real estate rent/lease	9600	61	0.27						
Insurance	4000	25	0.11						
Utilities	13825	88	0.40						
Miscellaneous	4320	28	0.12						
Total Less Interest Paid \$	404920	\$2579	\$11.57		\$				
NET ACCRUAL OPERATING INCOME									
(w/o interest paid) \$	89205	\$ 568	\$ 2.55		\$				
- Change in lvstk/crop inv	8200	52	0.23						
- Change in accounts rec.	-5175	-33	-0.15						
+ Change in feed/supply inv	1570	10	0.04						
+ Change in accts. payable*	34950	223	1.00						
NET CASH FLOW \$	122700	\$ 782	\$ 3.51	······································	\$				
- Net personal withdrawals &	ł								
family expenditures	13500	86	0.39						
Available for Farm Debt									
Payments & Investments \$	109200	\$ 696	\$ 3.12		\$				
- Farm debt payments**	112990	720	3.23		·				
Avail. for Farm Investment S	-3790	\$ -24	\$-0.11		\$				
- Capital purchases: cattle.		· -·			*				
machinery, improvements	141000	898	4.03						
Additional Capital Needed					\$				
					·				
* Loce change in account nav	able for	intore		0 0 0 0	·				

* Less change in account payable for interest. **See page 8.

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FARM NO. 46006 **JANUARY 19, 1995** MACHINERY & EQUIPMENT INVENTORY FEED AND SUPPLY INVENTORY LIVESTOCK INVENTORY REAL ESTATE INVENTORY LIVESTOCK & BUSINESS DESCRIPTION Milk per cow = 22293 lbs. Milk per worker = 750000 lbs. LABOR LAND INVENTORY AND CROPS ASSETS AND LIABILITIES Scheduled debt payment > .35 of milk sales = 39%. Debt per cow > \$3500, = 3832. FINANCIAL LEASES RECEIPTS Government receipts or other receipts > \$5000. Government Receipts = \$ 10950 Other Receipts = \$ 0 Gas tax refund in excess of \$500. **EXPENSES** CROP EXPENSE BREAKDOWN MANAGEMENT PERFORMANCE MEASURES Net farm income w/o appreciation = \$ 6025. Labor & management income/operator < \$0 or > \$30,000 = \$ -17068. Return to operator's labor, management and equity capital < \$10000 or > \$50000, = \$ -11375. Rate return on equity capital w/o appreciation = -15.5. Rate return on equity capital w/appreciation = -10.9. Cash flow coverage ratio < .8 or > 1.2, = 3.10. Cash inflow = \$ 665425, Cash outflow = \$ 663465, Imbalance =\$ OTHER 1960. Farm coded irregular. Dairy Farm Full-Time Farm OWNER

Optional Cash Flow Statement FARM NO. 46006

ANNUAL CASH FLOW STATEMENT

JANUARY 20, 1995

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Cash Inflows
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Beginning farm cash, checking & savings	\$ 3500	
Cash farm receipts	490050	
Sale of assets: Machinery Real estate Other stock & certificates	300 10250 1725	
Money borrowed (intermediate & long-term)	100000	
Money borrowed (short-term)	30000	
Increase in operating debt	500	
Nonfarm income	26500	:
Cash from nonfarm capital used in business	2600	
Money borrowed - nonfarm	0	
TOTAL		\$ 665425

Cash Outflows

Cash farm expenses		\$ 406530	
Capital purchases:	Expansion livestock Machinery Real estate Other stock & certificates	0 100000 40000 1000	
Principal payments	(intermediate & long-term)	48060	
Principal payments	(short-term)	27000	
Decrease in operation	ing debt	0	
Personal withdrawal including nor	ls & family expenditures, nfarm debt payments	40000	
Ending farm cash, o	checking & savings	875	
TOTAL			\$ 663465
Imbalance (error)			\$ 1960

FARM NC	0. 46006 CONDENSED BA	LANCE SHEET Decembe	JANUARY 19, INCLUDING DEFERRED TAXES T 31, 1993	נ	995
ASSETS			LIABILITIES & NET WORTH		
			Current debts & payables	\$	130631
			Current deferred taxes		35486
Total C	Current Assets	\$ 141150	Total Current Liabilities	\$	166117
			Intermediate debts & leases	\$	266572
			Intermediate deferred taxes		113357
Total I	inter. Assets	\$ 440912	Total Inter. Liabilities	\$	379929
			Long term debts & leases	\$	196760
			Long term deferred taxes		54246
Total I	ong Term Assets	\$ 419012	Total Long Term Liab.	\$	251006
TOTAL F	ARM ASSETS	\$1001073	TOTAL FARM LIABILITIES	\$	797052
			Farm Net Worth	\$	204023
			Percent Equity (Farm)		208
			Nonfarm debts	\$	c
			Nonfarm deferred taxes		6903
Total N	Ionfarm Assets	\$ 57560	Total Nonfarm Liabilities	Ş	6903
TOTAL A	SSETS	\$1058633	TOTAL LIABILITIES	\$	803955
			Total Net Worth	\$	254679
Deferre	ed taxes represent	an estimate	Percent Equity (Total) of the taxes that would be	a	249 aid

Deferred taxes represent an estimate of the taxes that would be paid if the farm were sold on the balance sheet date. Accuracy is dependent on the accuracy of the market values and the tax basis data provided. Any tax liability for assets other than livestock, machinery, land, buildings and nonfarm assets is excluded. It is assumed that all gain on purchased livestock and machinery is ordinary gain and that listed market values are net of selling costs. The effects of investment tax credit carryover and recapture, carryover of operating losses, alterna-tive minimum taxes and other than average exemptions and deductions are excluded because they have only minor influence on the taxes of most farms. However, they could be important.

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VII. Check the diagnostics page.

The diagnostics page is a listing of data items that fall outside of "normal" ranges for that item. These unusual items may indicate data entry errors or simply unusual farm situations. Look over the diagnostics page. Refer to the section beginning on page 50 entitled, "Hints for Interpreting and Using Dairy Farm Business Summary Diagnostics". Initial each item and write an explanation as necessary on one copy. Send this copy to Cornell along with the diskette and check-in form to indicate that the record is correct. This will save everyone time and telephone calls spent verifying and correcting farm records.

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VIII. <u>Update a record</u>.

Select the "Create/Update/Display Record" option on the main menu to update a farm record. After entering the farm number, the program will take you to Screen 1. If no updates are to be made on Screen 1, press the [Esc] key to display the message:

[PgDn] or [RETURN] - next, [PgUp] - previous screen, [Esc] to exit, or # of Screen.

Enter the number of the screen where a change needs to be made. Use the cursor keys to move to the appropriate value and retype the new value over the old one. <u>Important</u>: If totals or calculated values appear on the screen, be sure to press return or use the $\frac{1}{2}$ arrow key to move through the calculated items so they will be recalculated.

You may now move to another screen to make more changes in data or return to the main menu.

IX. Display a record.

To display a record, select "Create/Update/Display Record" on the main menu. Move to any screen by entering the screen number as described in the previous section.

X. <u>Delete a record</u>.

To delete a farm record, select "Delete Record" on the main menu. You will be prompted for a farm number. Enter the number of the farm you want deleted. The current year's data file (<farm no.>.94) will be erased.

XI. <u>Help</u>

Select the "Help" option on the main menu. A brief description of each option on the main menu will be displayed.

XII. <u>Ouit</u>

To leave the Micro DFBS program, select "Quit" on the main menu. You will then be at the DOS prompt (C>). For a two-floppy disk system, you will be prompted to insert the DOS diskette in drive A. You can restart Micro DFBS by typing 'dfbs'.

XIII. Make two backup copies of the data diskette.

Remove the DFBS program diskette from drive λ and insert a blank, formatted diskette. To review the data files on your data diskette, type:

DIR B: (Or DIR C: J if the data is on the hard disk and you are still in the 'dfbs' directory.)

You should see a list of data files as shown below.

A:\>dir b:

Volume in drive B has no label Directory of B:\

46006	94	8083	1-19-95	11:33a
46006	930	751	1-18-95	9:55a
46006	920	270	1-18-95	9:57a
	3 File(s)	13:	32224 bytes	s free

The 1994 farm record files entered in 1995 will have file extensions of .94. The sample farm is file 46006.94.

To make backup copies of the farm record files from drive B to the blank, formatted diskette in drive A, type:

COPY B:*.* A: J (Or COPY *.* A: if the data is on the hard disk.)

;

Do this twice.

One backup diskette is now ready to be shipped to Cornell, along with the check-in form, a copy of the printout and initialed diagnostics page. Keep the other diskette as your backup. This completes the operation of Micro DFBS.

DFBS ERROR MESSAGES

- Run Time Error 02 PCXXXX¹² Caused by an attempt to divide by zero. Check input to assure that all information is correct. If problem persists, call the authors for help.
- Run Time Error FØ PCXXXX Caused by program attempting to locate and not finding the program file Calc.000. Check the program disk to see if the file is present. If the file is not present, copy the file from a backup disk to the program disk.
- I/O Error Øl PCXXXX Caused by an attempt to open a file that the program cannot find; i.e., a data file that is not on the disk. Check to make sure the file exists and that you are using the proper disk drive.
- I/O Error FØ PCXXXX Disk full error. Too many files on the data disk. See the next section "What to do When the Diskette Gets Full".

I/O Error F3 PCXXXX - Too many files open. See Appendix D.

All of the above errors will cause the program to terminate and will bring the user back to the operating system. After checking and correcting the cause of the problem, the program may be run as usual.

COMMON PROBLEMS:

<u>Message</u>	Interpretation	Solution
Program won't recognize a farm record file	File extension (year, example .94) must be one less than the year you entered when you turned the computer on or typed "DATE"	Rename the file, changing the file extension. See your DOS manual, RENAME command
Disk error on drive A (or B or C)	Diskette not inserted, door not closed, bad diskette	Insert diskette Close door Try again or copy files from other drive. Replace diskette.
	Drive out of alignment	Service disk drive
CAN'T OPEN FILE!! or other cycling - keyboard won't respond	Cannot locate a file	Check file name. Use DIR command to check disk to see if file exists.

If the program locks up, the user can exit by pressing the Ctrl and C keys at the same time or, if that fails, by turning the computer off.

Please notify the authors (607-255-8429) of any problems.

¹²"XXXX" will be replaced by a number. Make note of this number. It is useful information to the programmer if there is a persistent problem.

WHAT TO DO WHEN THE DISKETTE GETS FULL

A 5 1/4" diskette formatted in DOS 2.1 holds about 360K of data. The "Create/Update/Display Record" option creates a data file for each farm which is about 9K in size. The two previous year's data files total 1K. "Calculate and Print Farm Summary" has the option to create a file (the one with the .prn extension) which is 35K. So, it takes a total of 45K for each farm if you have previous year's data, enter new data and save the calculated output for each summary. The data diskette should then hold about eight (360K + 45K) farm records if you save the print files, and about 36 farm records if you do not. If you do wish to save the print files (<farm no.>.prn), it is recommended you save them on a separate disk.

When you fill up the diskette, you will get a message telling you to change diskettes. This may happen when you use "Create/Update/Display Record", but more likely at "Calculate and Print Farm Summary".

When this happens, you will need to use the DOS command COPY to copy the current and previous years' farm record files to another diskette. For example, to copy the record files for farm 46006 to a new diskette, remove the DFBS program diskette from drive A and insert a blank, formatted diskette. Then type:

COPY B:46006.* A:J

Then remove the original data diskette from drive B, move the new one from A to B, and reinsert the DFBS program diskette in drive A.

HINTS FOR INTERPRETING AND USING DAIRY FARM BUSINESS SUMMARY DIAGNOSTICS

The last page(s) of a farm business summary printout are the "diagnostics". Diagnostics serve the purpose of alerting the person editing the record to possible data problems. Diagnostic statements are generated when data are missing, inconsistent or outside a "normal" expected range. Each diagnostic statement should be carefully scrutinized to help insure that the data are accurate. One should not rely on the diagnostics to "catch" data entry or data acquisition errors. Accurate original collection and entry of data are the best methods.

Page No. of Check-In Form

MACHINERY AND EOUIPMENT INVENTORY

1. "Machinery owned but no machinery depreciation."

Check to see if machinery depreciation was collected on the checkin form (Screen 2) and not entered or if an entry error is present. Machinery could be rented from a partner in the business with the market value being reported, but not the depreciation. In situations where machinery is rented from a partner, it is preferable to enter machinery inventory values and depreciation for business analysis purposes. However, check to make certain machinery rental payments have been removed as a cash expense, but that debt payments on machinery remain.

1. "Machinery depreciation = n% of beginning inventory plus new machinery." (When n < 5% or n > 20%)

Depreciation reported is probably too low or too high (Screen 2). Check to be certain that building and/or cattle depreciation has not been included as a machinery entry. Low depreciation values are expected when the average age of machinery is high (greater than 10 years) and little if any new machinery was purchased. High depreciation values are expected when the average age of machinery is low (less than five years) and relatively large purchases of new machinery occurred in recent years.

1. "Machinery appreciation exceeds depreciation."

Check to see if depreciation is within the expected range, but is not correct (Screen 2). Low depreciation often results in appreciation that is unrealistically high. In "normal" years of low to moderate inflation, machinery appreciation is expected to be less than machinery depreciation.

1. "Machinery appreciation = -\$n." [When n <(-)10% of beginning machinery inventory]

> Reported machinery market values fell more than was accounted for by depreciation (Screen 2). While this is possible, especially in periods of "soft" machinery markets, the decrease was more than 10% of beginning machinery inventory. Check to see if all values, especially depreciation, are correct.

FEED AND SUPPLIES

Feed and supply inventory increase > 25%.

Feed and supply inventory increased beyond what would "normally" be expected (Screen 3). Check to see if physical quantities and/or prices increased from beginning to end of year.

2. *Feed and supply inventory decrease > 25%.*

Feed and supply inventory decreased beyond what would normally be expected (Screen 3). Check to see if physical quantities and/or prices decreased from beginning to end of year.

LIVESTOCK INVENTORY

3. "End of year (bred, open, or calf) heifer inventory at beginning prices > beginning of year inventory but no increase in (bred, open, or calf) heifer numbers."

Two possible explanations exist:

- (1) An increase in the quality of heifers has occurred.
- (2) The average age of youngstock from beginning of year to end of year has increased and thereby value per head increased.

Check to be certain one or both of the above actually occurred (Screen 4).

3. "End of year (bred, open, or calf) heifer inventory at beginning prices < beginning of year inventory, but no decrease in (bred, open, or calf) heifer numbers."

Again, two possible explanations exist:

- (1) A decrease in the quality of heifers has occurred.
- (2) The average age of youngstock from beginning to end of year has decreased and thereby value per head decreased.

Check to be certain one or both of the above actually occurred (Screen 4).

3. Change in cow values/head >\$100, change = \$_____.*

The upward or downward movement in dairy cow market prices was greater than \$100 per head. Check to see if this actually occurred as a result of:

(1) An increase or decrease in quality of animals.

(2) A change in market conditions from beginning to end of year.

Check to be certain one or both of the above occurred (Screen 4). If the beginning of year values taken from last year's end of year inventory were incorrect, make the change in beginning of year values so as to accurately reflect the market at the beginning of the year being analyzed.

3. "Number of leased dairy cows > 0 but cattle lease expense = \$0."

An inconsistency may exist. Check to see if cattle were leased (Screen 4) and if lease payments were entered correctly (Screens 10 and 13). Cows may in fact be rented from others or boarded for others. In this situation, do not report cows as leased, but enter the rental expense on Screen 13 and total average numbers, including rentals, on Screen 6.

3. Livestock appreciation is < \$0, = \$____.*</pre>

Livestock values fell from beginning to end of year (Screen 4). Check to make certain this occurred.

3. "Livestock appreciation > change in inventory, = \$_____."

The majority of the increase in total livestock inventory resulted from price increases and not growth or quality improvement of the herd (Screen 4). Check to see if this is accurate.

3. "Expansion livestock expense > \$0 but no increase in dairy cow numbers."

> An inconsistency exists. If herd size did not increase from beginning to end of year, cattle purchases were not for increase of herd size. Cattle purchases should be entered under "Replacement Livestock" on Screen 13.

> An exception to the above is the purchase of youngstock/bred heifers in anticipation of a herd size increase. If this is the situation, disregard the diagnostic.

3. Dairy cow numbers decreased _____ and dairy cattle sales
< \$400/head."</pre>

The revenue from dairy cattle sales is divided by the number of cows by which herd size decreased and this diagnostic is printed if the result is less than \$400 per head.

Did dairy cow numbers decrease (Screen 4) and, if so, were the prices received for cull cows low or did a higher proportion of cows die, or was the sales revenue not accurately reported (Screen 13)? Check the accuracy of input data.

3. Dairy cow end year inventory at beginning prices > beginning year inventory but no increase in dairy cow numbers."

Quality of cows increased from beginning to end of year (Screen 3). Check to see if this is accurate.

3. Dairy cow end year inventory at beginning prices < beginning year inventory but no decrease in dairy cow numbers."

Quality of cows decreased from beginning to end of year (Screen 3). Check to see if this is accurate.

3. "Number of cows = 0, total value = \$x." (Where x > 0)
"Number of cows = x, total value = \$0." (Where x > 0)

(Also for heifers and bulls and other livestock.)

There is missing data. If number of livestock is entered there must be a corresponding value for those livestock. If a value for livestock is entered, the number of livestock must be entered.

REAL ESTATE INVENTORY

> Real estate appreciation is greater than expected in "normal" circumstances or is negative (Screen 5). Real estate values may have not been changed for several years and this year's change reflects more than one year's increase. If this occurred, change the beginning of year value to accurately reflect beginning of year value.

3. "Lost capital > 0.50 of real estate purchased = ______."

Lost capital is greater than "normally" expected (Screen 5). Small capital improvements may not add to the market value of the property and, therefore, lost capital could be equal to the total cost.

3. Land and building inventory > \$30,000 but no land is owned.

Implies ownership of buildings, but no land (Screens 5 and 7). Check to see if this is accurate. The operator could rent or lease a farm, but own improvements or real estate consistent with the terms of the contract. If the farm is a partnership or corporation, check to determine if assets are recorded consistent with expenses.

3. "Land is owned but no beginning land and building inventory value."

If land is owned, a market value was not entered (Screen 5). Land owned may have incorrectly been entered. The above stated possibilities should also be explored.

3. Building depreciation > 4% of beginning real estate.

Building depreciation is greater than "normally" expected (Screen 5). Check to see if machinery and equipment or livestock depreciation was incorrectly included. Large investments in new buildings may justify depreciation in excess of four percent.

3. "Real estate inventory value added < \$0."

Lost capital exceeds the value added from new real estate purchases (Screen 5). At worst, this should be \$0. Check to be certain data entry is correct.

LIVESTOCK AND BUSINESS DESCRIPTION

5. "Number of bulls and other livestock inconsistent with livestock inventory." (When number = 0 and inventory > 0, or number > 0 and inventory = 0)

Data entered on Screens 4 and 6 are inconsistent with respect to other livestock. Check data collected and entered for accuracy.

5. •Milk per cow = n pounds.• (When n <8,000 or n >20,000)

Pounds milk sold per cow is outside the "normal" range. Check to see if average cow numbers and pounds of milk sold (Screen 6) are entered correctly. Check butterfat content to see if a non-Holstein herd is being analyzed.

5. •Milk per worker = n pounds.• (When n < 200,000 or n > 700,000)

Milk sold per worker is outside the "normal" range. Check to see if months of labor (Screen 7) and milk sold (Screen 6) are entered correctly.

5. "Average number of dairy cows at least 25% more than total at end, owned and leased."

Implies a significant reduction in herd size from beginning to end of year which occurred close to year end (Screens 4 and 6). Check to see if this is correct.

5. *Average number of dairy cows at least 25% less than total at end, owned and leased.*

Implies a significant increase in herd size from beginning to end of year which occurred close to year end (Screens 4 and 6). Check to see if this is correct.

5. Invalid business description.

One or more of the coded business descriptions (Screen 6) are out of acceptable range. Check data entry.

LABOR

5. Single proprietorship but operator #2 months > 0.

Single proprietorship category was checked on Screen 6, but more than one operator was recorded on Screen 7. A single proprietor in the majority of instances would have only one operator, the other should be reported as family unpaid. An exception to this would be when a second person is significantly involved in the day-to-day management of the business, then this person would be entered as Operator #2.

5. •Operator #N months > 16.• (Where N is operator 1 through 6.)

It is possible to have operator months greater than 12 when converting to months of labor based on 230 hours/month (Screen 6). If an operator enters more than 16 months per year they would be working more than 72 hours per week. Check for accuracy.

5. *Hired labor expense but no hired labor.*

Hired labor expense was recorded on Screen 13 but no months of hired labor were recorded on Screen 7. Check to be certain these two entries are consistent. Example: labor hired off farm to repair a roof should be reported as land, building, and fence repair, not as hired labor. If the farm is a partnership or corporation, check the labor inventory against business organization for consistency.

5. "Hired labor but no hired labor expense."

Hired labor months were recorded on Screen 7 but no expense on Screen 13. These two entries should be consistent. Example: Hired labor was paid with milk, beef or other farm products. Add the value of the products to receipts (Screen 12) and then count it as an expense (Screen 13). If the farm is a partnership or corporation, check the labor inventory against business organization for consistency.

5. Partnership or corporation but operator labor is ≤ 12 months."

Partnership or corporation operator labor input is "normally" expected to be greater than 12 months. Check to see if labor input (Screen 7) is correct.

LAND AND CROPS

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_____. •

5. *Land is rented but rental expense = \$0.*

Land is rented (Screen 7) but real estate rent/lease is \$0 (Screen 13). Check to see if this is correct. Example: If land rent is paid with a portion of crop, report that value as a crop sale and as a rent payment.

5. "There are less than two tillable acres per cow."

Land is very limited. Check to see if feed purchases (Screen 13) reflect low levels of farm grown feeds. Check to see if all owned and rented land has been omitted (Screen 7).

5. *Hay crop yield is < 2 or > 4 tons DM per acre. Yield is

Hay crop yield is outside the "normal" range. Check to see if a large number of acres of new seeding were established, poor weather or good weather existed. Also check acres in hay for accuracy (Screen 8).

5. Corn silage yield is < 2.5 or > 7 tons DM per acre. Yield is

Corn silage yield is outside "normal" range. Check to see if the dry matter coefficient and conversion are correct (Screen 8). Check acres of corn silage (Screen 8) and determine if some acres were not harvested. Check calculation of quantity harvested.

5. Corn grain yield is < 50 or > 120 bushels per acre. Yield is

Corn grain yield is outside "normal" range. Check to see if moisture conversion and/or bushel conversions were done correctly (Screen 8). Check acres in corn grain and repeat calculations of quantity harvested.

5. •Oat yield is < 40 or > 100 bushels per acre. Yield is _____.•

Oat yield is outside the "normal" range. Check to see if oat acreage was reported under grain and production under forage if harvested as oatlage (Screen 8).

5. • Tons DM harvested per cow < 4 or > 12 = _____.•

Tons of dry matter harvested is outside "normal" range. Check dry matter harvested calculations, cow numbers, and feed purchases for consistency.

5. •Tillable land, all acres, does not equal total tillable acres.•

Calculations on Screen 7 and Screen 8 are not correct/consistent. Review the data entries for accuracy and recheck your math.

FINANCIAL LEASES

7. "Leases cattle but no lease expense."

Cattle are leased (Screen 10) but lease expense is \$0 (Screen 13). Check to be certain cattle lease is not included with machinery or real estate lease and the cattle are in fact leased, not rented.

7. "Leases equipment but no lease expense."

Equipment is leased (Screen 10), but lease expense is \$0 (Screen 13). Check to see if cattle or real estate lease includes equipment (Screen 13) and if equipment is in fact leased.

7. "Leases structures but no lease expense."

Structures are leased (Screen 10), but lease expense is \$0 (Screen 13). Check to see if cattle or real estate lease includes equipment (Screen 13) and if equipment is in fact leased.

ASSETS AND LIABILITIES

8 & 9. Scheduled debt payments > 0.35 of milk sales = _____&.*

Scheduled debt payments are 10 percentage points above the average (Screens 11 and 12). Check milk sales and debt payment schedule for accuracy.

8 & 9. Long-term debt > 0.80 of land and building inventory.

Long-term debt is higher than "normally" expected. Check to see if data is entered correctly (Screen 10). Falling asset values may have contributed to creation of this situation as well as increased borrowing.

8 & 9. Farm net worth < 0.30 of farm capital. NW = _____.

Farm net worth is lower than normal (Screen 11). Check all calculations for accuracy. Falling asset values and increased borrowing may have contributed.

8 & 9. *Debt per cow > \$3,500 = \$_____.*

Debt per cow is above average. Check for accuracy of data (Screens 6 and 11).

8 & 9. *Accounts receivable < 5% of milk sales.*

The December milk check may not have been included as an account receivable (Screen 9). Check to see if all accounts have been included.

8 & 9. Intermediate term debt > total farm inventory less real estate."

Intermediate term debt is high and, in fact, greater than intermediate term assets (Screens 9 and 11). Check to see if this is correct.

8 & 9. Principal payment exceeds liability."

If no new money was borrowed, the amount of principal paid should not be greater than the beginning year liability amount. Check to make certain the data are accurate.

8. "Long-term planned payments > long term debt."

Long-term planned payments being greater than long-term debt would be expected to occur only in the last year of the payment schedule. Check all entries for accuracy (Screen 11).

8. Intermediate term planned payments > intermediate term debt.

Intermediate term planned payments greater than intermediate term debt would be expected to occur only in the last year of the payment schedule. Check all entries for accuracy (Screen 11).

- 9. Short-term planned payments > 120% of short-term debt. Short-term planned payments are higher than expected. Check for accuracy of entries (Screen 11).
- 9. "Planned reduction of operating debt > operating debt."

This is a definite inconsistency. The reduction in operating debt cannot be greater than the end of year balance (Screen 11). Check to see if interest is included.

9. *Planned reduction of accounts payable > accounts payable.*

This is a definite inconsistency. The reduction in accounts payable cannot be greater than the end of year balance (Screen 11). Check to make certain interest and penalties have not been included.

8 & 9. Liability > 0 but no scheduled payment, liability = \$_____.

Liabilities are greater than \$0 but scheduled debt payments are \$0, indicates that the payments were inadvertently omitted or, in fact, that no payments are scheduled (Screen 11). Check to make certain the data are accurate.

8 & 9. "Decrease in _____ liability from beginning to end year does not equal principal paid. Did refinancing occur?"

> If no new money was borrowed, the decrease in the liability amount from beginning to end year should equal the amount of principal paid during the year. Check to make certain the data are accurate (Screen 11).

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8 & 9. *Amount of money borrowed entered (_____) does not equal calculated money borrowed (_____).*

If a value was entered in the "amount of new borrowings" column (Screen 11), it should equal the calculated value for money borrowed. The formula for calculating money borrowed is: (end year liability - beginning year liability) + principal paid. Check to make certain the data are accurate (Screen 11).

RECEIPTS

10. •Milk price < \$11 or > \$15. Price = \$_____ per cwt.•

Milk price is outside the "normal" range. Check to see if pounds of milk sold are under-reported (Screen 6), milk sales (gross) is over-reported (Screen 12) or a Jersey herd is being summarized (Screen 6).

10. "Tillable crop acres per cow > 4, but \$0 crop sales."

Tillable crop acres per cow are high (Screen 7) but not crop sales are reported (Screen 12). Check to see if crop yields are low (Screen 8) or inventories of feed and supplies increased (Screen 3).

10. No dairy cattle sales.

This statement indicates that dairy cattle sales on Screen 12 is blank. Check to see if this was overlooked when gathering data or not entered in the computer.

10. "No dairy calf sales."

This statement indicates that dairy calf sales on Screen 12 is blank. Check to see if this was overlooked when gathering data, not entered in the computer or if in fact all calves were either raised or died and, therefore, no sales existed.

> Government receipts, other receipts or miscellaneous receipts are greater than normally expected. Verify that the entry is correct (Screen 12) and that other categories are not more appropriate.

10. "Gas tax refund in excess of \$500."

Gas tax refund is greater than normally expected. Verify that the entry is correct (Screen 12) and that other receipts have not been included here.

6 & 10. "Total change in accounts receivable entered as a receipt does not equal change in accounts receivable entered as an asset."

This indicates a problem in calculation or data entry as these two totals should be equal.

EXPENSES

13. "Hired labor expense < \$750 or > \$2,500 per month, = \$_____
per month."

Expenses per month for family paid and hired labor are outside the normal range. Determine if months of labor recorded (Screen 7) and labor expense (Screen 13) are accurate.

2 & 13. "Nondairy feed inventory or expense is >0, but no nondairy livestock in inventory."

> The nondairy feed expense and inventory category should include what is fed to beef cattle, horses, chickens, sheep, etc. Check to see that dairy feed was not entered as nondairy feed.

13. *Total accrual (item) expenses are negative.*

An accrual expense (Screen 13) would not likely be a negative value. Check the data for accuracy. Values in the column "Cash amount paid" cannot be negative. It is possible to have negative values in the "Change in Acct. Payable" column; however, an offsetting value in "Cash Amt. Paid" calculates to a positive accrual expense. It is possible to have negative values in the "Change in Inventory" column calculated from entries made on page 2, Screen 3. However, this indicates an increase in that inventory item and, therefore, should be offset by "Cash Amt. Paid" or "Change in Acct. Payable".

13. "Owns farm real estate but pays no taxes."

Farm real estate is owned (Screen 5) but taxes are not reported (Screen 13). Check to see if taxes were paid but not reported, paid by a third party or not paid during the year.

> Farm liabilities exist (Screen 11), but no interest expense reported (Screen 13). Check to see if special circumstances exist or if interest was in fact not paid during the year.

13. Interest expense on Screen 13 does not equal interest payments on Screen 11." The total farm liability interest (Screen 11) does not equal cash interest expense (Screen 13). Check to see if data was collected and entered correctly. These two totals must be identical.

13. •Cattle lease expense > \$0, but no lease information.*

Cattle lease expense is reported (Screen 13), but lease information is missing (Screen 10). Record the information on Screen 13 once the existence of an actual lease has been verified. .

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13. "Owns farm real estate but pays no insurance."

Farm real estate is owned (Screen 5) but no insurance expense is reported (Screen 13). Check to see if insurance expense was omitted or is included in other categories. Make certain real estate is owned.

13. *Personal withdrawals and family expenditures < nonfarm income.*

This indicates that the nonfarm income could be subsidizing the farm business and, therefore, the Net Personal Withdrawals from Farm on page 7 of the Business Summary will be negative. Check to be certain this is accurate.

11. *Expansion livestock per head of additional dairy cattle =
\$_____.*

Check the accuracy of this value. It should be about the average cost of purchased livestock.

6 & 13. "Total change in prepaid expenses entered as an expense (\$_____)
does not equal the total prepaid expenses change entered as an
asset (\$_____).

The total change in prepaid expenses in Screen 13 does not equal the total prepaid expenses change in Screen 9. There must be a data acquisition or data entry problem.

9 & 13. "Total change in accounts payable entered as expense does not equal change in accounts payable entered as liability."

> The total change in accounts payable on Screen 11 does not equal the total accounts payable change on Screen 13. There must be a data acquisition or data entry problem.

13. *Operating cost of producing milk is < \$8 or > \$12/cwt., =
\$_____.*

The operating cost of producing milk is outside the "normally" expected range. Check all operating expenses and nondairy receipts for accuracy (Screens 12 and 13) as well as total pounds of milk sold (Screen 6).

> The total cost of producing milk is outside the "normal" range. Check all expenses and nondairy receipts, plus interest on equity

capital and value of operator's labor and management and unpaid family labor for accuracy (Screens 12, 13, and 7). Also check the total pounds of milk sold for accuracy (Screen 6).

MANAGEMENT PERFORMANCE MEASURES

> Net farm income without appreciation is outside the "normally" expected range. Review receipts and expenses especially accounts payable and receivable, depreciation, and inventory changes for accuracy.

10 & 13. "Net farm income w/appreciation = \$n." (When n < \$10,000 or >\$50,000)

> Net farm income with appreciation is outside the "normally" expected range. Review receipts and expenses especially livestock, machinery, and real estate appreciation for accuracy.

10 & 13. Labor and management income per operator < \$0 or > \$30,000 = \$_____.*

Labor and management income is outside "normally" expected range. Review the cash receipts and cash expenses (Screens 12 and 13) and especially inventory adjustments and/or depreciation for real estate, machinery and equipment, livestock, and feed and supplies.

10 & 13. "Return to operator's labor, management, and equity capital
 < \$10,000 or > \$50,000."

Return to operator's labor, management, and equity capital is outside the "normally" expected range. Check all receipts and expenses, plus the unpaid family labor for accuracy.

> Feed purchases as a percent of milk sales is outside the "normally" expected range. Check feed purchases (Screen 13) for accuracy, check to see if crop yields are high and/or a large number of crop acres per cow exists.

10 & 13. "Rate of return on equity capital w/o appreciation = n%." (When n ≤ 0 % or > 10%)

This indicates a rate of return without appreciation outside the "normally" expected range. Check expenses and receipts as well as assets and liabilities for accuracy.

8, 9, 10 & 13. "Cash flow imbalance (error) is > 1% of total cash inflows."

The cash flow imbalance is greater than can be accepted. Check the family withdrawals and family expenditures calculations for accuracy; remember income and social security taxes are considered personal withdrawals and family expenditures. Check principal payments as well as new borrowings for accuracy. Also consider gifts and inheritances as possible sources of discrepancy.

6, 8, & 9. Debt to asset ratio < 0.3, = ____.*

Debt to asset ratio is very low. Check asset values and liabilities for accuracy.

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8,9,10, & 13. "Cash flow coverage ratio < 0.8 or > 1.2."

Cash flow coverage ratio is outside "normal" range. Check receipt and expense items as well as debt payments made for accuracy.

8,9,10, & 13. Cash inflow = \$n, cash outflow = \$n, imbalance = \$n*

These values are printed for all farms.

CROP EXPENSES

14. Sum of fertilizer and lime expenses for hay crop and corn is > farm total for all crops.

The allocation of expenses among crops is not accurate (Screen 14). Check the allocations.

14. "Sum of seed and plant expenses for hay crop and corn is > farm total for all crops."

The allocation of expenses among crops is not accurate (Screen 14). Check the allocation.

14. "Sum of spray and other expenses for hay crop and corn is > farm total for all crops."

The allocation of expenses among crops is not accurate (Screen 14). Check the allocations.

14. "Total crop expenses per acre of hay crop is > \$150 or < \$20, =
\$_____."</pre>

The total crop expense per acre of hay is outside the "normally" expected range (Screen 14). Check the allocation of expenses to hay and compare with yields to see if a deviation is justified. Also check acreage for accuracy.

OTHER

"Farm coded irregular" - A farm is coded irregular when data is incomplete, missing or judged to be inaccurate.

"Farm coded part-time" - A farm is coded part-time when operator months are less than six months and total labor months are less than 12.

"Farm coded renter" - A farm is coded renter when no tillable land is owned or the real estate inventory at end year = 0.

"Farm coded cash-crop" - A farm is coded dairy-cash crop when cash crop sales amounted to more than 10 percent of accrual milk sales.

APPENDIX A

HOW TO COMPLETE DAIRY FARM BUSINESS SUMMARY DATA CHECK-IN FORMS

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HOW TO COMPLETE DAIRY FARM BUSINESS SUMMARY DATA CHECK-IN FORMS

Screen 1. Cooperator's Name and Address (page 1)

Fill in the name of the operator(s) of the farm business, the farm name if there is one, the address, and the county's record project in which he or she is participating. Use the list of processing numbers provided by Cornell to assign numbers to new cooperators and to confirm numbers used for continuing cooperators. 2

Please indicate if a farm is to be coded "irregular" at the top of the check-in form. An "irregular" farm has missing or inaccurate data and will not be included in the county, regional, or state summary.

Worksheet 1. Machinery and Equipment Purchased (page 1)

The only item from this section required to complete a farm business summary is the total machinery and equipment purchased. Worksheet 1 is included to provide a workplace for the operator, manager or managers to calculate this information. If prior to completion of the check-in forms the farm business has an accurate, up-to-date machinery and equipment inventory there is no particular need to copy that information onto Worksheet 1.

If completion of the worksheet is required, list all new or used machinery and equipment acquired during the year and the "boot" amount paid or obligated to pay on each item. List the market value of items traded-in and make the inventory checks in order to substantiate beginning and end inventory values. Check reported capital expenditures with the inventory book for the business. New items should be inventoried at "boot" plus market value of trade-in less first year's depreciation. Loss or increase in market value may occur from date of purchase to year end. Adjust year end value recorded in inventory to represent year end market values of machinery and equipment purchased. Make sure traded items are removed from this year's inventory. Do not include any leased items. We will assume the list of capital purchases and dollar amount reported here are correct and it will take precedence over other lists that may be included in the record.

<u>Worksheet 2. Machinery and Equipment Sold or Destroyed</u> (page 1)

List machinery and equipment that was disposed of by outright sales and items that were destroyed by fire, flood, and other disasters. Do not list items traded-in here. Report insurance received from machinery destroyed and check to see that all dispositions are removed from the end inventory. Add insurance received from machinery destroyed to total machinery and equipment sold and enter the total in Screen 2.

As with the machinery and equipment purchased, only the total machinery and equipment sold (including insurance proceeds) is required to complete a business summary; consequently, if the farm records are complete and accurate, Worksheet 2 is not needed for input and need not be used.

Screen 2. Machinery and Equipment Inventory and Depreciation (page 1)

The information to be collected in this section is required to calculate the ownership costs incurred in maintaining an inventory of owned machinery and equipment and to calculate the increase (or possibly decrease) in the value of the machinery complement resulting from changes in the price level of farm machinery and equipment. The fixed cost of maintaining the equipment inventory is charged as a business expense while machinery appreciation is credited toward the ownership income of the farm business.

Probably the most difficult information to obtain in this section is the beginning and end-of-year inventory. If this cooperator had a business summary the previous year, the end of the year inventory is the beginning of year inventory for this year. The cooperator then must inventory and determine the market value of machinery and equipment as of December 31 of the year for which you are summarizing. Do not include any leased items.

Machinery and equipment purchased and machinery and equipment sold are the totals from Worksheets 1 and 2 discussed above. If an alternative source of complete information for purchases and sales is available, it is not necessary to complete Worksheets 1 and 2.

Machinery and equipment received from "Noncash Transfer to Farm" is entered in Screen 2. Include machinery and equipment received as a gift/inheritance or converted from nonfarm to a farm business asset.

The next item is machinery and equipment depreciation as calculated for tax purposes. This value is used as the charge against the farm business for the use of the machinery and equipment complement. It is obtained by taking 1994 regular tax depreciation, excluding buildings and cattle from ACRS and MACRS depreciation. Including the Section 179 expensing allowance could bias depreciation upward. Excluding it could bias depreciation downward. Include it if used on a regular, ongoing basis. Exclude and convert to annual depreciation if used on an irregular, occasional basis.

End-of-year inventory less the total beginning inventory after changes is equal to machinery appreciation. This value is then used as the contribution toward ownership income from machinery and equipment.

If machinery appreciation appears to be too high or too low given changes in prevailing machinery and equipment prices during the year, one might consider some of the following possible causes:

If change in inventory due to price appears to be too high, check the following possible causes:

- a) There are more new items in the inventory book than listed as capital purchases.
- b) New items were not depreciated this year or were valued at "list price" rather than at a value based on cost.
- c) Trade-ins and other dispositions were not removed from book.
- d) Machinery was revalued upward during the year and beginning inventory was not adjusted in the same direction.

If change in inventory due to price appears to be too low, check these possible causes:

a) New items were not all listed in inventory book.

- b) Items acquired through trade were not valued correctly.
- c) Items no longer in use were removed from end inventory or devaluated without corresponding changes to beginning inventory.
- d) Machinery was revalued downward during the year and beginning inventory was not adjusted in the same direction.

Morksheet 3. Grown Feed Inventory Morksheet (page 2)

This worksheet is used to calculate the grown feed inventory at the beginning and end of year. Include only feed and supplies grown or produced by this farmer. Space is provided to enter quantities of the various grown feeds, their market value per unit, and the calculated market value for each grown feed. The total values of the grown feeds at beginning and end of year need to be calculated and entered in the appropriate spaces in Screen 3. The change will be computed and will appear on Screen 12 as a change in crop inventory. Inventory growth will produce a positive change or increase in crop receipts.

If winter wheat is grown, be sure to include in grown feed end-of-year inventory (Worksheet 3) the value of the crop based on the cost incurred in growing it.

Screen 3. Feed and Supply Inventory (page 2)

Report beginning and end market values of purchased feeds and supplies in Screen 3. Workspace is provided for the quantity and market value per unit for the purchased feed and supply categories to assist in the calculation of the total value for each item at beginning and end of year. Of course, if an accurate accounting was made for the previous year, the end-of-year inventory should be used for the beginning-of-year inventory for this year. The beginningof-year data is not optional; it is required.

Purchased dairy grain and concentrate inventory should include the concentrate, minerals, protein, and grain for the dairy herd including heifers, calves, and bulls. Non-dairy feed inventory includes all feed purchased for livestock such as horses, beef cattle, sheep, chickens, etc.

Some year-end purchases made by farmers are payments made for the next year's feed and supplies. The feeds or supplies purchased with these payments must be identified to make them legal tax deductions. Therefore, these are purchases of inventory items (Screen 3), they are not prepaid expenses (Screen 9).

Unused silage bags should be entered as supplies in the "land/bldg./fence" category.

The footnote for Screen 3 explains how inventory changes are computed and their effect on accrual expenses.

Screen 4. Livestock Inventory (page 3)

Report all leased dairy cows at end of year in the space provided. This number will be added to owned dairy cows at end of year when computing debt levels per cow.

For owned livestock, this section is used to obtain information on the inventory of livestock at the beginning and end of the year and to separate the

change in inventory during the year into the change (a) that results from changes in numbers and/or qualities of livestock and (b) that result from price changes during the year. The screen is designed to help inventory the livestock by categories. The heifer inventory allows space for three categories: bred heifers, open heifers (6 months to breeding), and calves (under six months). The information required is the number and value at the beginning of the year, the number and value at the end of the year using beginning-of-year prices, and the value at the end of the year using end-of-year prices. The value per head columns are calculated. If you prefer, the values per head may be entered and the total value columns will be calculated.

The quantity and value for beginning-of-year inventory can either be taken from last year's end-of-year inventory if accurate information is available or can be calculated based on the livestock on hand and the value per head at the beginning of the year.

The end-of-year inventory is more complex since the livestock numbers at the end of the year need to be valued both at beginning-of-year prices and at end-of-year prices in order to separate the increase in inventory into two parts. Unless large numbers of animals have been purchased of a different quality or the composition of the animals in the group has been altered significantly during the year, the value per head using the beginning-of-year prices is the same as the value per head in the beginning-of-year inventory. Situations which could result in the value per head in the beginning-of-year inventory and the value per head using beginning-of-year prices for the end-of-year inventory being different include: 1) the purchase of a large number of animals of higher quality than those previously in the herd, and 2) the average age of calves in the end inventory being two or three months more than those in the beginning inventory. Finally, the end-of-year inventory at end-of-year prices is the same number of head as for the end-of-year inventory at the beginning-of-year prices times the value per head based on the market price of the livestock on December 31 of the summary year.

<u>Worksheet 4. Land and Buildings Purchases and Sales</u> (page 2)

In this section, only the totals for cost and lost capital of new purchases and capital improvements, and sale price/amount received of capital sales and losses are required. If the cooperator has an accurate record of his or her real estate transactions, these totals can be taken from that record; if the cooperator does not, Worksheet 4 can be used to assist in calculating the totals.

Screen 5. Real Estate Inventory Balance (page 3)

This section must be completed to confirm changes in the market value of real estate during the year.

- a) Report the beginning-of-year market value (previous year's end-of-year value) net of estimated sale expenses.
- b) Enter the <u>cost</u> of new purchases and capital improvements for land and
 buildings and subtract lost capital. Value added (the difference between cost of new real estate and lost capital) is that proportion of the new investment that adds to the market value of the farm.

Enter the value of real estate that has come into the farm business

during the year from gifts/inheritances and from conversion of nonfarm real estate to farm real estate.

1

- c) Building depreciation from 1994 tax return is used as an estimate of a total building depreciation charge for the year. Be sure to include depreciation on single purpose agricultural structures, grain bins, fences, tile, and silos as well as general purpose buildings.
- d) Deduct the net sale price of real estate sold. For example, a five acre lot sold for \$25,000 with \$1,000 of sale expenses and a mortgage of \$15,000 held by the seller would be entered as follows:

Real	Estate	Sold:	Total sale price		\$25,000	
			Sale expenses		- 1,000	
			Net sale price			- \$24,000
			Note/mortgage held by	/ seller	- 15,000	
			Net cash amt. rec'd.	in 1994	= 9,000	

The "note/mortgage held by seller" of \$15,000 must be entered as an "Other Nonfarm Asset" in Screen 9, page 6. If the seller is not the mortgage holder, there would be no entry in the "note/mortgage held by seller" space and the "Net cash amount received in 1994" would then equal \$24,000.

The calculated value, "net cash amount received in 1994", is a cash inflow to the farm. If part or all of this was converted to nonfarm, include that amount as a "personal withdrawal and family expenditure" in Screen 13.

- e) Beginning market value plus value added from real estate purchased, minus depreciation and the value of sales, equals total beginning value after changes.
- f) End-of-year market value (net of estimated sale expenses) less the total beginning value after changes is equal to real estate appreciation.

Screen 6. Livestock and Business Description (page 5)

The average <u>number of cows</u> for the year is a key factor. It can be taken from the DHIA or other herd testing records. It is the average number of cows in the herd each month totaled and divided by 12. It includes dry cows as well as cows in milk. It includes leased cows. It is not an average of beginning and ending inventory numbers. Also report the average number for year of dairy heifers and bulls. If the data are being entered on a computer in the county, enter the work units for other livestock. Use Table 1, page 17 of the Micro-DFBS User's Manual as a guide.

Total pounds of milk sold is the total weight reported by the milk plant. Average milk plant test is not used to convert to a 3.5 equivalent. It is used as a reference only.

Check the appropriate item under <u>Production Record</u>, <u>Milking System</u>, <u>Business Type</u>, <u>Milking Frequency</u>, <u>bST Usage</u>, <u>Dairy Housing</u>, and <u>Primary Financial</u> <u>Recordkeeping System</u>.

Under production record, if DHI or Owner-Sampler are checked, enter the 6digit DHI number. Providing the DHI number allows possible coordination with the

Animal Science Department by combining DHI and DFBS data. If DHI data were used, no individual farm data would be identified. Providing the DHI number <u>does not</u> provide DHI or Animal Science people access to DFBS data.

Under milking frequency, check "2x/day" if all cows were milked twice a day for the entire year. Check "3x/day" if all cows were milked three times a day for the entire year. Check "other" if a portion of the herd was milked three or more times a day, or the total herd was milked three or more times a day for part of the year, or if the total herd was milked more than three times a day for the entire year.

If bST was used in 1994, check the appropriate "% of herd" category. Estimate the average usage since February of 1994. For example, if a dairy farmer started supplementing his cows on November 1, and supplemented 100 percent of the eligible cows in both November and December, he would select option 1, less than or equal to 25 percent. The calculation would be 100% multiplied by 2 months of usage divided by 11 possible months for supplementation in 1994 = 18 percent. Eligible cows are defined as those cows that are 64 or more days in milk.

If bST is no longer being used on any of the herd, check "Stopped using in 1994". If bST was never used, check "not used".

Screen 7. Labor Inventory (page 5)

Begin by identifying the operators of the farm. Operators should include all individuals who are integrally involved in the operation and management of the farm business. They are not limited to those who are the owner of a sole proprietorship or are formally a member of a partnership or corporation. In instances where a husband and wife operate and manage the farm as a team both may be included as operators. The labor input of each operator should then be specified in months. In most instances, this is 12 months but in some instances where one or more operators of the farm business have other work occupying their time, such as operating an off-farm enterprise, directing a farm organization or managing of the family; less than 12 months would be appropriate. In order to calculate more accurate labor efficiency factors, operator months greater than 12 are also possible. Convert average weekly operator hours to months using 4.3 weeks/month and 230 hours/month. For example, Operator #1 works, on average, 60 hours per week, which converts to 13.5 months per year:

60 hours/week x 4.3 weeks/month x 12 months worked = 13.5 full-time months 230 hours/month

In addition, for each operator, indicate their age, their years of education, and the estimated value of their management and labor input. This value should be based on what that person could earn in a similar capacity in similar employment. Any farm expenses for labor or perquisities for these operators should be <u>excluded</u> from the labor expenses entered later in the input. This exclusion will probably be most relevant for corporations but may also apply to other businesses.

In addition, the total months of family labor who are paid, the months of family labor not paid, and the total full-time months of hired labor should be recorded. The full-time months can then be totaled and divided by 12 to determine the worker equivalent.

The conversion to full-time, worker-month equivalents is necessary; conversion is not always easy but is very important to an accurate summary. A
high school student may provide three months of worker-month equivalent labor during the 10 month school year by working part-time. Convert hourly labor on the basis of 230 hours per month. There are 4.3 weeks in a month. Below is a formula for converting hours per week to full-time months:

Full-time months = No. hours/week x 4.3 weeks/month x No. months worked 230 hours

Screen 7. Land Inventory (page 5)

The purpose of this section is to obtain a complete accounting of the owned and rented acreages included as a part of this farm business. First, the tillable acres owned and rented should be entered. Tillable acres should include all acres that normally are cropped, either in row crops, hay crops, or cropland pasture. Pasture acres owned and rented should include all acres of pasture that are not cropland. Nontillable woodland and other acres owned would then be included and the three would add to total acres owned, rented and to the total acres in the farm business. 4

Screen 8. Tillable Land Use (page 5)

The purpose of this section is to obtain a complete accounting of the tillable acres in the farm business and an accurate record of the cropping program of the farm business. This record is an essential part of the business summary.

The forage crops should be separated into hay, hay crop silage, corn silage, and other forage crops harvested (could include green chop, small grain silage, and sudan/sorghum silage). Enter only the first cut acres for all hay crops on the first line. Find instructions for allocating hay crop acres to pasture below. The measure of production of the roughages is the total tons of dry matter. The intermediate columns of total production and dry matter coefficient are used to assist in calculating the total tons of dry matter. Total production of all hay crops are divided into dry hay and hay crop silage. The total production of corn for grain, oats, and wheat should be reported on a dry bushel equivalent. Worksheet 5 is included on the opposite page for conversion of corn to a dry shelled basis.

Clear seeding acres should be entered under hay unless another crop is grown on those acres and considered the major crop in which case the acres are entered with the major crop. Acres used to grow winter wheat should be entered with the crop grown during the regular growing season.

After the acreages and production of the harvested crop enterprises have been reported, the acres of tillable cropland included in pasture and the acres of idle tillable cropland should be recorded. Check the box next to tillable pasture if rotational grazing or intensive pasture has been used at least three months of the year, changing the paddock at least every three days. When the same field is used for both hay crop and pasture, allocate the acreage between hay crop and pasture according to its estimated share of dry matter produced from the field. For example; if hay crop silage was harvested from a 20 acre field on May 30th and the field was rotational grazed for the rest of the season, approximately the same quantity of dry matter was grazed as was ensiled. Allocate 10 acres to hay crop and 10 acres to pasture. Do not include pasture production in total production from hay crop.

The total of all of the acres in each of the enterprises should be the total tillable acres. This total should then be compared to the total tillable

acres recorded above in the land inventory. Furthermore, if this cooperator was in the summary the previous year and has not had a change in owned or rented acres, the tillable acres should be exactly the same as they were in the previous year.

Screen 9. Farm Family Financial Situation - Assets (page 6)

The assets section of the Farm Family Financial Situation requires entry of all farm and nonfarm assets for beginning and end of year. Total farm inventory is calculated from the previously-entered inventory sections. If a cooperator had a business summary the previous year, the end-year assets are the beginningyear assets for this year.

The x_____x spaces for prepaid expenses indicates optional input; i.e., the entire concept of prepaid expenses may be ignored if you feel it has no significant affect on the profitability of the business. Items that can be inventoried (such as dairy grain, seeds, and fertilizer) should <u>not</u> be included as prepaid expenses; they should be entered in the purchased feed and supply inventory, Screen 3, page 2.

Do not enter negative numbers for "Farm cash, checking & savings". If there is a negative checkbook balance, it should be considered money borrowed and included in operating debt, and a zero entered for farm cash, checking, and savings.

Nonfarm assets for partnerships and corporations should include nonfarm assets of all families in the business or none at all.

Mortgages or notes held from the sale of farm real estate should be included as "Other Nonfarm Assets".

See the footnotes at the bottom of page 6 of the check-in form for further guidelines to completing the assets section.

Screen 10. Financial Leases (page 7)

The purpose of this table is to help calculate the expenses associated with financial leases and to determine the present assets and liabilities for the leased items. Include those items for which the farmer originally had an obligation to make specific payment for more than one year. Do not include items such as: machines rented per hour or day; buildings, equipment and, cattle rented from a family member; payments on purchase contracts.

The total yearly expense is calculated by multiplying the amount of each payment times the number of payments for the year. The total yearly expenses for each item are added to get the total expense for cattle, equipment, and structures. The totals must be entered under expenses on page 13. The total expense for cattle is entered under cattle lease; the total expense for equipment is entered under machine hire, rent and lease; and the total expense for structures is entered under real estate rent/lease.

Enter the number of payments in a full year and the number of payments remaining for each item. From this information present values for assets and liabilities can be computed for the leased items.

Worksheet 6. Changes in Operating Accounts Receivable (page 7)

The purpose of Worksheet 6 is to assist in calculating the changes in operating accounts receivable and to allocate the changes to the appropriate receipt category for entry in Screen 12, page 10. If there are no operating accounts receivable other than the January milk check, it is not necessary to use the worksheet. Simply calculate the difference in the account receivable from beginning to end of year and enter that value in Screen 12 in the space for "Milk, Change in Accounts Receivable".

\$

Note: To calculate the correct change in accounts receivable, subtract the beginning of year balance (January 1, 1994) from the end of year balance (December 31, 1994) to get the increase in accounts receivable. Worksheet 6 is designed to produce the right calculation when used correctly.

The total of the column "Balance, December 31, 1994" in Worksheet 6 must equal the value in Screen 9, page 6 for "Accounts Receivable, December 31, 1994". The total of the column "Balance, January 1, 1994" in the worksheet must equal "Accounts Receivable, January 1, 1994" in Screen 9. The totals of the "Change in Account" and "Receipt Category Amount" columns in Worksheet 6 must be equal. They must also equal the total of the column "Change in Accounts Receivable" in Screen 12, page 10. See the bottom of page 7 of the check-in form for further guidelines to recording changes in accounts receivable.

Screen 11. Farm Family Financial Situation - Liabilities (pages 8 and 9)

The liabilities and debt payments sections of the Farm Family Financial Situation require entry of all liabilities for beginning and end of year, the principal and interest actually paid in 1994, the interest rate at the beginning of 1995, and the planned payments for 1995. If a cooperator had a business summary the previous year, the end-year liabilities are the beginning-year liabilities for this year.

The primary objective in classifying liabilities is to identify the correct term of the loan. Long-term and intermediate term loans will be analyzed separately in the summary. If more liabilities exist than there are lines for, liabilities for the same term may be combined. Do not include leased items, they are entered in Screen 10.

The "Amount of New Borrowings" column is optional input. If the amount of money borrowed in 1994 is entered, this value will be compared to the calculated value for money borrowed ((End year liability - beginning year liability) + principal paid). If the two values do not agree, a diagnostic will be printed. The calculated value for money borrowed will be used in the Annual Cash Flow Statement.

For Farm Credit liabilities, be sure the proceeds amount is entered as the liability (i.e., exclude Farm Credit stock). The amount of Farm Credit stock will be displayed under Intermediate Term Debt. These values are automatically carried over from Farm Credit stock assets entered in Screen 9, page 6.

If refinancing occurred during 1994, use of the "Amount of Debt Refinanced" column will help you arrive at more accurate values for "Amount of New Borrowings" and "Actual 1994 Principal Payments". The amount of the "old" loan refinanced should be entered as a negative number in the "Amount of Debt Refinanced" column. The "new" loan or refinanced amount added to existing loans is entered as a positive number. These entries offset each other; therefore, the total of the "Amount of Debt Refinanced" column would always be zero. The amount of debt refinanced would <u>not</u> be included in the "Amount of New Borrowings" or the "Actual 1994 Principal Payments" columns.

Include debt payments for all liabilities listed. If no payments are made, please enter zero. In the event of a deferred loan (except FmHA), add the interest to the end year liability, enter the interest as paid (under debt payments, Screen 11 and interest expense, Screen 13), and enter the interest amount as money borrowed. Enter the beginning 1995 interest rate and planned payments for 1995. In the case of an FmHA Deferred Loan, the unpaid interest is not converted to principal; therefore, the interest would be included as an account payable.

The total of the farm interest actually paid in 1994 (7th column) should equal the interest expense entered in Screen 13, page 13.

The "Nonfarm Liability/Payments" line includes debt incurred for all nonfarm assets purchased. For example, if a pleasure boat was purchased using debt capital, record the beginning and end of year nonfarm loan balances, amount of new borrowing for the boat, actual payments made on the boat or any other nonfarm loan during the year, and next year's planned payments. If the farmer prefers not to record nonfarm liabilities, any new nonfarm borrowings must also be excluded from "personal withdrawals and family expenditures" in Screen 13, page 13.

See the footnotes at the bottom of pages 8 and 9 of the check-in form for additional guidelines to completing this section.

Screen 12. Summary of 1994 Receipts and Changes in Inventory and Accounts Receivable (page 10)

Record the 1994 cash receipts and changes in accounts receivable in Screen 12. The "Change in Inventory" column is calculated by the computer program from entries previously made in Screen 3 (grown feeds inventory) and Screen 4 (livestock inventory) and Screen 11 (advanced government receipts). Use Worksheet 6 on page 7 to assist in the calculation of changes in accounts receivable. The "Accrual Receipts" column is the total of the first three columns.

Enter the amount received for sale of stock and certificates other than Farm Credit stock. This value will be used in the calculation of appreciation of stock and certificates to be included as ownership income.

The section at the bottom of Screen 12 is used to record nonfarm cash inflows. The last line in Screen 12 is for noncash capital transferred to the farm business for cattle, crops, etc., excluding machinery (enter in Screen 2) and real estate (enter in Screen 5).

See the bottom of page 10 of the check-in form for further guidelines to recording the farm and nonfarm receipts.

Morksheet 7. Changes in Operating Accounts Pavable (page 12)

The purpose of Worksheet 7 is to assist in calculating the changes in operating accounts payable and to allocate the changes to the appropriate expense category for entry in Screen 13, page 13. If there are no operating accounts payable, do not use the worksheet, go directly to Screen 13 on page 13. When Worksheet 7 is used, enter the end of year balance, then enter and subtract the beginning of year balance to obtain the correct change in accounts payable. The total of the column "Balance 12/31/94" in Worksheet 7 must equal the value in Screen 11, page 9 for "Accounts Payable, December 31, 1994". The total of the column "Balance 1/1/94" in the worksheet must equal the value in Screen 11 for "Accounts Payable, January 1, 1994". The totals of the two "Change in Accounts Payable" columns in Worksheet 7 must be equal. They must also equal the total of the column "Change in Accounts Payable" in Screen 13, page 13. See the bottom of page 12 of the check-in form for further guidelines to recording changes in accounts payable.

Screen 13. Summary of 1994 Expenses and Changes in Inventory and Accounts Pavable (page 13)

Record the 1994 cash expenses and changes in accounts payable in Screen 13. Be sure to include as cash expenses any items paid directly by a bank through use of a "line-of-credit". Payment on the "line-of-credit" is a reduction in the account payable to the bank. Use Worksheet 7 on page 12 to assist in the calculation of changes in accounts payable. The "Accrual Expenses" column is the total of the first three columns. .

The "change in inventory or prepaid expenses" column contains both calculated values and optional input values. The change in inventory items (_______ spaces) are calculated by the computer program from entries previously made in Screen 3 (purchased feed and supplies inventory). The change in prepaid expense items (x______x spaces) are optional input (i.e., the entire concept of prepaid expenses may be ignored if you feel it has no significant affect on the profitability of the business). The total change in prepaid expenses must equal the difference between prepaid expense totals in Screen 9, page 6 (beginning year - end year).

Enter the amount spent for purchase of stock and certificates other than Farm Credit stock. This value will be used in the calculation of appreciation of stock and certificates to be included as ownership income.

Enter all personal withdrawals and family expenditures in the space provided at the bottom of Screen 13. <u>Do not skip this entry</u>. It is necessary for the Annual Cash Flow Statement to balance and also for an accurate Cash Flow Coverage Ratio to be calculated. Include all cash withdrawals plus all additional nonfarm expenses paid with farm cash or from farm accounts, e.g., income tax, self-employment tax, life insurance, and wages of corporate owneroperators. Include withdrawals used for nonfarm loan payments, savings, and investments as well as family living expenses. Include borrowed capital used for nonfarm purchases, providing it has been entered as a nonfarm liability in Screen 11, page 9. E.g., if a pleasure boat was purchased using debt capital, in the year of purchase the amount borrowed and any payments made during the year must be included as a family expenditure. If any or all "Nonfarm Cash Income" has been excluded from the value entered in Screen 12, page 10, you must also exclude any family expenses paid from that income.

See page 11 of the check-in form for further guidelines to recording farm expenses.

Screen 14. Optional Input (page 14)

Breakdown of 1994 Crop Expenses by Crop

In most cases it is possible to identify on which crop large purchases of inputs were used. Use field records, and dates and descriptions for large transactions.

Record the breakdown of crop expenses for hay crop, corn, pasture, and other crops in the top section of Screen 14. The "Total" line at the bottom of the screen must equal the <u>accrual</u> expenses on Screen 13, page 13, for fertilizer and lime, seeds and plants, and spray and other. Calculate the accrual expense for these three crop expense categories on Screen 13 by totaling "Cash Amount Paid" + "Change in Inventory" + "Change in Accounts Payable". The "Change in Inventory" values are calculated from the beginning and end year inventory values in Screen 3, page 2 (<u>beginning year</u> minus <u>end year</u> = change in inventory).

The computer program will display on Screen 14 the total accrual expenses for the crop expense categories from Screen 13 at the time of data entry. The "All other crops" line will be calculated using the accrual expense totals less the values entered in the first three lines of the screen for hay crop, corn, and pasture.

Unless you have a better basis for allocation, allocate lime expenses proportionately across all crop acres, to allow for the fact that benefits extend to crops grown in future years, not just the first year. Charge fertilizer, chemical, and seed costs to the crop applied to. Of course, fertilizer and chemicals can have carryover effects on future crops as well, but in most cases, it would be impossible to accurately allocate these carryover effects.

Optional Input for Deferred Tax Calculations

A balance sheet including deferred taxes can be printed for those farms that are able to complete this section of Screen 14. It is assumed that (1) farm assets not listed in this section will not significantly influence deferred tax liability, and (2) all gain on machinery and purchased livestock is ordinary gain. Enter tax basis information for assets previously entered in inventory. Operator residences should be included in tax basis for "buildings & improvements" as well as for "operator residences" if it was included in the Real Estate Inventory in Screen 5. Enter market values for operator residences; single purpose livestock structure, silos, and grain bins; and, purchased livestock. Enter proprietorship and partnership information. Spousal partners filing a joint tax return must combine their ownership in one column. The partner's percent share of farm adjusted gross income must include current cattle sales as well as Schedule F net farm profits. The partner's percent ownership of nonfarm assets must be based on only those included in Screen 9.

APPENDIX B

DFBS DATA CHECK-IN FORM

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CORNELL COOPERATIVE EXTENSION DAIRY FARM BUSINESS SUMMARY DATA CHECK-IN FORM

Name	County	SCREEN 1.
	Proc. number	Year 1994
Phone no	()complete, ()entered, (Update Screens:)ready

WORKSHEET 1. MACHINERY & EQUIPMENT PURCHASED

Description			Amount or boot paid +	Market value of trade-in	Market value of new item ¹	<u>Inventory</u> Remove trade-in	Checks (/) Add new item
_	· · ·		\$	\$	\$		
				·····			
							<u> </u>
				······			
					······		
TOTAL MACH.	& EQUIP.	PURCHASED	\$				·····

¹Loss in market value may occur from date of purchase to year end. Adjust year end value recorded in inventory to represent year end market values of machinery and equipment purchased.

WORKSHEET 2. MACHINERY & EQUIPMENT SOLD OR DESTROYED (not trade-ins)

Description	Sale Amount		Insurance Received	Removed from Inventory?
	\$		\$	
TOTAL MACHINERY & EQUIPMENT SOLD	\$	+	\$ - \$_	

			SCREEN 2.
MACHINERY & EQUIPMENT INVENTORY &	DEPRECIATIO	<u>N</u> (do not include leased it	tems)
Beginning of Year Inventory	\$	End of Year Inventory	\$
Machinery & Equipment Purchased	+		,
Noncash Mach. Transfer to Farm			
(e.g., gifts/inheritances)	+		
Machinery & Equipment Sold	-		
1994 Tax Depreciation ²	-		
Total Beginning Inventory After C	hanges		\$
Machinery Appreciation (end less	beginning af	ter changes)	\$
² Exclude buildings and cattle from	ACRS deprec	iation.	

<u>Note</u>: This form has 4 kinds of spaces in the boxed-in "Screen" areas: ______ are required input, ______ are calculated values, x______ x are for optional input, and are workspace. All sections entitled "Worksheet" are optional.

Name

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WORKSHEET 3. GROWN FEED INVENTORY WORKSHEET Use this worksheet to calculate beginning and end of year values of all grown feeds. Enter totals in Screen 3 below.

	January 1, 1994			December 31	. 1994	
		\$ per	Total	\$ per	Total	
Item	Quant.	x Unit	- Value	Quant. x Unit	- Value	
GROWN FEEDS:						
Corn-HMSC		\$	\$	\$	\$	
Corn-HMEC						
Corn-dry,					·	
Oats						
Wheat						
Other						
Dry hay		\$	\$	\$\$	\$	
Hay crop silage						
Corn silage						
Other						
			Total		Total	
			+		+ .	
FEED & SUPPLY INVE	NTORY		ŧ		Ŧ	SCREEN 3.
			ŧ		Ŧ	<u>Inventory</u> Change ¹
Total Grown Feeds			\$		\$	\$\$
PURCHASED FEEDS: (U.	se p.11	defini	tions)			
Dairy grain & conc		x	=\$	x	=\$	
Dairy roughage		• • • • •		•••••	·	
Nondairy feed	••••	• • • • •		•••••	·	
<u>SUPPLIES</u> :						
Machine: Parts	• • • • • •	x	=\$	x	=\$	\$
Fuel, oil, grease	• • • • • •	••••		•••••	,	
Livestock: Semen	• • • • • •	••••		•••••		
Vet. supplies	• • • • • •	••••		•••••		
Other supplies	• • • • • •	••••		•••••	,	
Crops: Fertilizer	• • • • • •	• • • • •		•••••	•	
Seeds	• • • • • •	••••		•••••	•	
Pesticides/Other	• • • • • •	••••		•••••	•	
Land/Bldg./Fence:	• • • • • •	••••		•••••	•	
Other:	• • • • • •	••••		•••••		
Total Feed & Suppl	ies	•	\$		\$	

¹Inventory changes are calculated: total grown feeds - end year minus beginning year and is carried over to Screen 12; purchased feeds and supplies - beginning year minus end year, and are carried over to Screen 13.

WORKSHEET 4. LAND & BUILDING PURCHASES & SALES

New Purchases & Capita	1 Improve		Sale Price	
Description	Cost	Lost Capital	Description	or Amount <u>Received</u>
Land:	\$	XXXXXXX XXXXXXX	Capital Sales:	\$
Total Land Purchases Buildings & Land Improve.	2 ^{\$}			
	\$	\$	Losses:	\$
Total Buildings			Total Capital Sales	
& Lost Capital	\$	\$	& Losses	\$

²e.g., new fences, tile drainage, farm ponds.

Name	_					[]	Proc. no		
Cow no. check:				+		+			
	cows year	end	cows beg.	year	heifers	fresh	cows purch.	sold	, died, etc.
<u>LIVESTOCK</u> Number of leas	sed/rented	dairy	cows at e	nd of ye	ar	_			SCREEN 4.
						Decembe	<u>r 31, 1994 I</u>	<u>nventor</u>	v Using:
		<u>Jan.</u>	<u>1, 1994 I</u>	nventory	2	_1/1/9	<u>4 Prices</u>	<u>12/31/</u>	94 Prices
		No	Ş per Nord	Total	No	\$ per	Total	\$ per	Total
		<u> </u>	<u>neau</u>	Value		<u>neau</u>	Value	леац	value
Dairy Cows:			\$	\$		_ \$	\$	\$	\$
• • • • • • • • • • • • •	• • • • • • •								
Total Dairy	Cows			\$		-	\$		\$
Heifers:									
Bred Heifer	8		\$	\$		_ \$	\$	\$	\$
Open (6 mo.	- bred)								
Calves (< 6	mo.)								
Total Heife	rs			\$		-	\$		\$
Bulls & Other	Lvstk.:								
	••••		\$	\$		_ \$	\$	\$	\$
•••••	• • • • • • •								
Total Bulls Livestock	& Other			\$		-	\$		\$
Total Lives	tock			\$		-	\$		\$

Explain change in livestock value per head from beginning of year to end of year at beginning of year prices:

REAL ESTATE INVENTORY BALANCE	SCREEN 5.
Land & Building Market Value: Beginning S	End \$
New Real Estate:	
Purchased: 1\$ + \$ - \$ + \$ = +\$	
land bldgs./land imp. lost capital value added	
Noncash Real Estate Transfer to Farm (e.g. gifts/inherit.) +	
Depreciation: from 1994 income tax (Include bldgs. in pre-ACRS, ACRS, MACRS & ADS)	
Real Estate Sold: Total sale price \$ Sale expenses Net sale price	
Note/mortgage held by seller Net cash amt, rec'd, in 1994 =2	
Total Beginning Value After Changes	\$
Real Estate Appreciation	\$

¹Use Worksheet 4, page 2. ²Calculated value is a cash inflow to the farm. If part or all of this was converted to nonfarm, include that amount in "personal withdrawals & family expenditures" (Screen 13, page 13).

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WORKSHEET 5.	CORN	GRAIN	CONVERSION	WORKSHEET
--------------	------	-------	------------	-----------

	Percent Moisture	Tons as <u>Harvestedⁱ</u>	Conversion Factor ²	Dry Shell Equivalent	
Ear Corn: Shell Corn:	* *	T + T + T + + T +		bushels	•

¹Use Table 1 below. ²Use Table 2 below.

Settled	Tons High Moisture Ear Corn ³ led Inside Diameter in Feet				Tons High Moisture Shelled Corn ⁴ Sealed Storage
<u>Depth</u>	14	16	18	20	<u> </u>
16		60	70	07	112
13	47	02	/8	9/	113
20	65	84	107	132	154
25	83	108	137	169	192
30	102	133	168	207	235
35	121	158	200	247	274
40	142	185	234	289	320
45	163	213	269	332	360
50	185	241	305	377	407
55		271	342	423	448
60		302	381	471	498
65			421	520	
70			462	571	
65 70			421 462	520 571	

TABLE 1. TOWER SILO CAPACITIES FOR HIGH MOISTURE CORN

³Based on 33 percent moisture content. ⁴Based on 28 percent moisture content.

HMEC stored in horizontal silos will range from 40 to 42 pounds per cubic foot.

Percent Moisture in Kernel	Tons of Shelled Corn Needed to Equal One Bushel of Dry Shelled ⁵	Percent Moisture in Whole Ear	Tons of Ear Corn Needed to Equal One Bushel of Dry Shelled Corn ⁵
14.0	0.0275	14.2	0.0335
15.5	0.0280	16.0	0.0342
16.0	0.0282	16.6	0.0345
18.0	0.0289	19.7	0.0357
20.0	0.0296	22.6	0.0370
22.0	0,0300	25.2	0.0384
24.0	0.0312	27.9	0.0399
26.0	0.0320	30.0	0.0414 *
28.0	0.0329	32.6	0.0428
30.0	0.0338	34.6	0.0443
32.0	0.0348	36.4	0.0457 •
35.0	0.0364	39.3	0.0479

TABLE 2. CORN GRAIN CONVERSION TABLE

⁵One bushel of no. 2 corn at 15.5 percent moisture content.

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Name			[Proc. no.]
LIVESTOCK & BUSINES	B DESCRIPTION	Broduct ion		SCREEN 6.
Livestock Dairy cows (owned, rented & leased) Heifers (dairy) Bulls Other:(type)	<u>For Year</u>	(1)D.H.I. (2)O.S. DHI#21(3)Other (4)None	<u>Milking System</u> <u>(1)Bucket & carry</u> <u>(2)Dumping station</u> <u>(3)Pipeline</u> <u>(4)Herringbone parts</u> <u>(5)Other parlor</u>	Primary <u>Business Type</u> (1)Single prop. n(2)Partnership (3)Corporation r. <u>Primary Financial</u>
(# head)	w.u.1	<u>bST Usaqe</u> ⁵	 Dairy Housing	<u>Recordkeeping System</u> (1)ELFAC II
Lbs. milk sold Avg. milk plant test & B.F.	<u>Milkinq</u> <u>Frequency</u> (1)2x/day ² (2)3x/day ³ (3)0ther ⁴	(1)<25% (2)25-75% (3)>75% (4)Stopped using in 19 (5)Not Tree	(1)Stanchion/ Tie-Stall (2)Freestall (3)Combination	(2)Account Book (3)Agrifax Mail-in (4)On-Farm Computer (5)Other

			SCREEN 7.
LABOR INVENTORY	<u>Full-Time Months</u>	<u>Aqe</u> <u>Years Educ.</u>	<u>Value of Management & Labor</u>
Operator - 1 - 2 - 3 - 4 - 5 - 6 Family (paid employees) Family (unpaid) Hired (regular & seasonal	,		\$ \$ \$ \$ \$
	+ 12 *	• Worker Equi	valent
LAND INVENTORY	<u>Acres Owned</u>	<u>Acres Rented</u>	<u>All Acres</u>
Tillable land			
Pasture (nontillable)		<u> </u>	
Woods & other nontillable			

				SCREEN 8.
			Dry Matter	
	Acres	Total Production	Coeffi-	Total Tons
TILLABLE LAND USE	(1st cut only)	<u>; (all cuttings)</u>	<u>cient</u> ⁷	Dry Matter
Hay Crop (1st cut acres only)		*****	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	*****
Hay	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	tons		
Hay crop silage	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	tons		
Corn silage		tons		
Other forage harvested		tons		
Corn for grain ⁶		dry sh. bu.	Tot. tn DM	
Oats		dry bu.		-
Wheat		dry bu.		
Other:		<u>[]w.u.1</u>		
Tillable pasture		[] Check if Rot	ational Graz.	ing
Idle tillable acres		at least 3 months	of year, ch	anging
Total tillable acres		paddock at least	every 3 days	•

¹Work units. ²All cows were milked 2x for entire year. ³All cows were milked 3x for entire year. ⁴A portion of herd was milked 3x or total hard was milked 3x for part of year or milked more than 3x/day. ⁵Estimate average use since Feb. 1994. ⁶Convert to dry shelled equivalent (see tables, opposite page). ⁷Entsr ss decimel, e.g., 402 is entered as 4.

Name

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FARM FAMILY FINANCIAL SITUATION

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		SCREEN 9.
<u> </u>	<u>SSETS</u>	
	<u>January 1, 1994</u> 1	<u>December 31, 1994</u>
Total Farm Inventory ²	\$	\$
Other Farm Assets:		
Farm cash, checking, & savings		<u> </u>
Accounts receivable ³	·	
Farm Credit stock		
Other stock & certificates		
Prepaid expenses ⁴	xx	xx
Total Farm Assets	\$	\$
Nonfarm Assets: ⁵		
Personal cash, checking & savings		
Cash value life insurance	······································	
Nonfarm real estate		
Personal share auto		
Stock & bonds	····	
Household furnishings		
Other (include mortgages & notes)		
Total Nonfarm Assets	\$	\$
TOTAL ASSETS (not including leases)	\$	\$

¹If you participated in the Dairy Farm Business Summary project last year, there is no need to enter the January 1, 1994 values unless a change needs to be made in the values entered last year.

- ²The sum of machinery inventory, livestock inventory, feed and supplies, and real estate market value for both beginning and end of year. The computer program automatically calculates this entry from earlier input.
- ³Remember to include the January milk check as an account receivable. The amount of accounts receivable at beginning and end of year must agree with the total accounts receivable calculated in Worksheet 6, page 7.
- "Include any expenses that have been paid for in advance of their use. For example, 1995 rent paid in 1994. The total change in prepaid expenses (beginning year minus end year) must be distributed among the proper expense categories in the "Change in Inventory or Prepaid Expense" column in Screen 13, page 13.

⁵Nonfarm assets for partnerships and corporations should include nonfarm assets of all families in the business or none at all.

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[Proc. no.

Name

FINANCIAL LEASES

Fill in the following table if you are leasing cattle, equipment, or structures from outside your family or business. Include only formal financial lease agreements; i.e., where there is a scheduled payment commitment. Do not include rent paid here but record it under the appropriate expense category on Screen 13, page 13.

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Leased item	Amount of each payment	No. of payments in 1994	Total 1994 expense	No. of payments/ full year	SCREEN 10. No. of payments remaining
Cattle:	\$	Total	\$ 1		
Equipment:	\$	Total	\$ \$ ²	\equiv	
Structures:	\$	Total	\$ \$ 3		

¹Enter under "Cattle leases" on Screen 13, page 13. ²Enter under "Machine hire, rent, & lease" on Screen 13, page 13. ³Enter under "Real Estate rent/lease" on Screen 13, page 13.

WORKSHEET 6. CHANGES IN OPERATING ACCOUNTS RECEIVABLE

		,	Change in	Allocation	Sem 12 - 10)
Account Number or Description	Balance Dec. 31, 1994	Balance - Jan. 1. 1994	Accounts - Receivable	Receipt Category	Change in Acct. Rec.
Milk Receipts:	\$	- \$	- \$	Milk Dairy cattle	\$
:	: \$	- \$	- \$	Dairy calves Other livestock	
;	\$	- \$	- \$	Crops Government receipts	
:	: \$	- \$	- \$	Custom machine work Gas tax refunds Other:	
TOTAL Must agree with:	\$ (Screen 9)	- \$(Screen 9)	- \$) (Screen 12)	equals>	\$

Guidelines for Recording Accounts Receivable

- Identify changes in operating accounts receivable by subtracting beginning from end of year balance (e.g. changes in milk receipts - January 1995 check minus Jan. 1994 check).
- 2. Assign and allocate changes in accounts receivable to appropriate farm receipts using worksheet or go directly to Screen 12, page 10.
- 3. The total of the two "Change in Accounts Receivable" columns must equal "Total Change in Accounts Receivable" in Screen 12, page 10.
- 4. All accounts receivable should appear as assets on the balance sheet, Screen 9, page 6.

[Proc. no.

FARM FAMILY FINANCIAL SITUATION

SCREEN 11.

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LIABILITIES ¹			LIABILITIES ¹						DEBT P	PAYHENTS			
Creditor (the first 12 characters will be used as input.)	<u>Amc</u> Jan. 1, 1994	Dec. 31, 1994	Amount of New Bor- rowings	Amt. of Debt Refin- anced ²	<u>Actual</u> Princi- pal	<u>1994 Pymts</u> Interest	Beg. 1995 Int. Rate	<u>Planne</u> Amt. of Pymts.	d 1995 Pymts Per Year				
Long Term Debt (≥10y)	(\$) (\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(%)	(\$)	(no.)				
			xx	•••••									
			xx	••••				<u> </u>					
			xx	•••••					_				
			xx	• • • • • • •									
Intermediate Term Del	bt (>1yr., <	:10yrs.)											
	·		x x	•••••	Í———		 						
			xx										
			xx	• • • • • • •									
				••••			 						
			xx										
			xx	•••••									
							1						

¹Farm Credit liabilities at beginning and end of year must be the proceeds amount; i.e., the liability excluding Farm Credit stock. Farm Credit stock displayed above Short Term Debt is entered in Screen 9, page 6.

²Enter amount of "old" loan refinanced as a negative number; "new" loan or refinanced amount as a positive number. Do not include these amounts in new borrowings or with principal payments.

Name

[Proc. no. _____

LIABILITIES ¹						DEBT P	AYNENTS		
Creditor (the first 12 characters will be used as input.)	<u>Amo</u> Jan. 1, 1994	Dec. 31, 1994	Amount of New Bor- rowings	Amt. of Debt Refin- anced ²	<u>Actual 1</u> Princi- pal	<u>994 Pymts</u> Interest	Beg. 1995 Int. Rate	<u>Planne</u> Amt. of Pymts.	<u>d 1995</u> Pymts. Per Year
	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(%)	(\$)	(no.)
Farm Credit Stock									
Short Term Debt (1 ye (borrowed to purchase	ear or less) capital it	ems)							
			xx						
			xx						
			xx						
Operating Debt (borro entered as expenses i	owed to buy in Screen 13	items)					net 1	reduction	
				••••			oper.	. debt	
				• • • • • • •			80001	unte —	
Accounts Payable ³							payat	ole:	
Advanced Gov't Rec. ⁴									
Total Farm Liab/Pymts	s\$	\$	\$	\$0	\$	_ \$	Total	1	
Nonfarm Liab/Pymts ⁵	\$	\$	\$xx	•	\$	_ \$	Payme	ents \$	
TOTAL LIAB/PYNTS (not including leases	\$ 3)	\$	\$		\$	_ \$			

FARM FAMILY FINANCIAL SITUATION (continued)

SCREEN 11. (continued)

³Accounts not paid (no money borrowed) for noncapital items/services. Accounts payable at beginning and end of year must agree with the totals in Worksheet 7, page 12.

⁴Include government payments received in 1994 that are for participation in the 1995 program, as the end year balance. Enter government payments received in 1993 for participation in the 1994 program as the beginning year balance.

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Q

Name

Name _

10 [Proc. no. ____]

			Charge i-	SCREEN 12.
Farm	Cash .	Change in .	Accounts	Accrual
Receipts		Inventory ¹	<u>Receivable²</u>	Receipts
Nilk lbs.	\$	*****	\$	\$
Dairy Cattle		\$		
Dairy Calves		XXXXXXXXX		
Other Livestock				
Crops				
Government Receipts		3		
Custom Machine Work		XXXXXXXXX		
Gas Tax Refunds		*******		
Other:\$	•			
· · · · · · · · · · · · · · · · · \$ · · · · · ·	•			
· · · · · · · · · · · · · · · · \$ · · · · · ·	•			
Total Other		****		
TOTAL	\$	\$	\$	\$
Sale of other stock & certificate	s (exclude Farm	Credit stock)		S
Cash used in the business from Noncash capital transferred to gifts/inheritances) [excluding	nonfarm capital farm business fo machinery (enter	: ^{\$} r cattle, crop Screen 2) & r) toti s, etc. (e.g. eal estate	\$
Cash used in the business from Noncash capital transferred to gifts/inheritances) [excluding (enter Screen 5)]	nonfarm capital farm business fo machinery (enter	r cattle, crop Screen 2) & r	s, etc. (e.g. eal estate	\$
Cash used in the business from Noncash capital transferred to gifts/inheritances) [excluding (enter Screen 5)] End of year (at beginning prices	nonfarm capital farm business fo machinery (enter for cattle) minu	<pre>cattle, crop Screen 2) & r </pre>	s, etc. (e.g. eal estate	\$ \$ Vorksheet 6 on
Cash used in the business from Noncash capital transferred to gifts/inheritances) [excluding (enter Screen 5)] End of year (at beginning prices bage 7 to calculate. ^S Change in calculated from values entered in	nonfarm capital farm business fo machinery (enter for cattle) minu advanced governm Screen 11. page	<pre>screen 2) & r s beginning of ent receipts (9.</pre>	s, etc. (e.g. eal estate year. ² Use W beginning year	\$ \$ Vorksheet 6 on minus end year)
Cash used in the business from Noncash capital transferred to gifts/inheritances) [excluding (enter Screen 5)] End of year (at beginning prices)age 7 to calculate. ³ Change in alculated from values entered in <u>Guideline</u>	nonfarm capital farm business fo machinery (enter for cattle) minu advanced governm Screen 11, page es for Recording	r cattle, crop Screen 2) & r s beginning of ent receipts (9. This Year's Re	s, etc. (e.g. eal estate year. ² Use W beginning year	\$ \$ Vorksheet 6 on minus end year)
Cash used in the business from Noncash capital transferred to gifts/inheritances) [excluding (enter Screen 5)] End of year (at beginning prices bage 7 to calculate. ³ Change in alculated from values entered in <u>Guideling</u> . Include gross value for pounds . <u>Dairy cattle sales</u> include rec receipts under dairy calves so	nonfarm capital farm business fo machinery (enter for cattle) minu advanced governm Screen 11, page es for Recording s of milk sold. ceipts from cull old.	r cattle, crop Screen 2) & r s beginning of ent receipts (9. This Year's Re cows and breed	s, etc. (e.g. eal estate year. ² Use W beginning year ecceipts ing stock. Inc	S S Worksheet 6 on minus end year)
Cash used in the business from Noncash capital transferred to gifts/inheritances) [excluding (enter Screen 5)] End of year (at beginning prices bage 7 to calculate. ^S Change in calculated from values entered in <u>Guideling</u> 1. Include gross value for pounds 2. <u>Dairy cattle sales</u> include recorreceipts under <u>dairy calves so</u> 3. <u>Crop sales</u> include sales of st	nonfarm capital farm business fo machinery (enter for cattle) minu advanced governm Screen 11, page es for Recording s of <u>milk sold</u> . ceipts from cull bld. canding and harve	r cattle, crop Screen 2) & r s beginning of ent receipts (9. <u>This Year's Re</u> cows and breed sted crops and	s, etc. (e.g. eal estate year. ² Use W beginning year <u>eccipts</u> ing stock. Ind any crop insur	S S Norksheet 6 on minus end year) clude bob calf rance proceeds.
Cash used in the business from Noncash capital transferred to gifts/inheritances) [excluding (enter Screen 5)] End of year (at beginning prices bage 7 to calculate. ³ Change in calculated from values entered in <u>Guideling</u> 1. Include gross value for pounds 2. <u>Dairy cattle sales</u> include recorreceipts under <u>dairy calves so</u> 3. <u>Crop sales</u> include sales of st 4. Machinery and real estate sale	nonfarm capital farm business fo machinery (enter for cattle) minu advanced governm Screen 11, page es for Recording s of milk sold. ceipts from cull bld. canding and harve	r cattle, crop Screen 2) & r s beginning of ent receipts (9. <u>This Year's Re</u> cows and breed sted crops and in the invent	s, etc. (e.g. eal estate year. ² Use W beginning year <u>eccipts</u> ing stock. Ind any crop insumory-depreciation	<pre>\$</pre>
Cash used in the business from Noncash capital transferred to gifts/inheritances) [excluding (enter Screen 5)] End of year (at beginning prices bage 7 to calculate. ³ Change in calculated from values entered in <u>Guideling</u> 1. Include gross value for pounds 2. <u>Dairy cattle sales</u> include recorreceipts under <u>dairy calves so</u> 3. <u>Crop sales</u> include sales of st 4. Machinery and real estate sale and must not be added in with	nonfarm capital farm business fo machinery (enter for cattle) minu advanced governm Screen 11, page es for Recording s of <u>milk sold</u> . ceipts from cull old. canding and harve es are netted out other farm recei	r cattle, crop Screen 2) & r s beginning of ent receipts (9. This Year's Re cows and breed sted crops and in the invent pts.	s, etc. (e.g. eal estate year. ² Use W beginning year <u>eccipts</u> ing stock. Inc any crop insur ory-depreciatio	S S Norksheet 6 on minus end year) clude bob calf rance proceeds. on calculations
Cash used in the business from Noncash capital transferred to gifts/inheritances) [excluding (enter Screen 5)] End of year (at beginning prices bage 7 to calculate. ^S Change in calculated from values entered in <u>Guideling</u> I. Include gross value for pounds 2. <u>Dairy cattle sales</u> include recorreceipts under <u>dairy calves so</u> 3. <u>Crop sales</u> include sales of st Machinery and real estate sale and must not be added in with 5. Itemize and identify <u>miscellar</u> product sales and positions su	nonfarm capital farm business fo machinery (enter for cattle) minu advanced governm Screen 11, page es for Recording of <u>milk sold</u> . ceipts from cull bld. canding and harve es are netted out other farm recei <u>neous</u> receipts of uch as director o	r cattle, crop Screen 2) & r s beginning of ent receipts (9. This Year's Re cows and breed sted crops and in the invent pts. more than \$50 f cooperative.	s, etc. (e.g. eal estate year. ² Use W beginning year <u>eccipts</u> ing stock. Ind any crop insur ory-depreciation 0. Include ind	<pre>% \$</pre>
Cash used in the business from Noncash capital transferred to gifts/inheritances) [excluding (enter Screen 5)] End of year (at beginning prices bage 7 to calculate. ³ Change in calculated from values entered in <u>Guidelin</u> I. Include gross value for pounds 2. <u>Dairy cattle sales</u> include recorreceipts under <u>dairy calves so</u> 3. <u>Crop sales</u> include sales of st 4. Machinery and real estate sales and must not be added in with 5. Itemize and identify <u>miscellan</u> product sales and positions su 5. <u>Nonfarm cash income</u> from nonfa interest received from prior s	nonfarm capital farm business fo machinery (enter for cattle) minu advanced governm Screen 11, page es for Recording s of <u>milk sold</u> . ceipts from cull old. canding and harve es are netted out other farm recei neous receipts of ach as director o arm work for self sale of farm asse	r cattle, crop Screen 2) & r s beginning of ent receipts (9. This Year's Re cows and breed sted crops and in the invent pts. more than \$50 f cooperative. and spouse, t ts, timber sal	s, etc. (e.g. eal estate year. ² Use W beginning year <u>eccipts</u> ing stock. Ind any crop insur ory-depreciation 0. Include ind ax refunds, pri-	S S Norksheet 6 on minus end year) clude bob calf rance proceeds. on calculations come from maple incipal and l royalties,
Cash used in the business from Noncash capital transferred to gifts/inheritances) [excluding (enter Screen 5)] End of year (at beginning prices bage 7 to calculate. ^S Change in calculated from values entered in <u>Guidelin</u> I. Include gross value for pounds 2. <u>Dairy cattle sales</u> include rec receipts under <u>dairy calves so</u> 3. <u>Crop sales</u> include sales of st Machinery and real estate sale and must not be added in with 5. Itemize and identify <u>miscellan</u> product sales and positions su interest received from prior s gravel sales, income from elect debt payments and family livin	nonfarm capital farm business fo machinery (enter for cattle) minu advanced governm Screen 11, page es for Recording of <u>milk sold</u> . ceipts from cull old. canding and harve es are netted out other farm recei neous receipts of ich as director o arm work for self cale of farm asse cted office, and mg. In some inst	r cattle, crop Screen 2) & r s beginning of ent receipts (9. <u>This Year's Re</u> cows and breed sted crops and in the invent pts. more than \$50 f cooperative. and spouse, t ts, timber sal other nonfarm ances, receipt	s, etc. (e.g. eal estate year. ² Use W beginning year <u>eccipts</u> ing stock. Ind any crop insur ory-depreciation 0. Include ind ax refunds, pri- es, gas and oil income that is s such as timbe	<pre>% \$ % orksheet 6 on minus end year) % orksheet 6 on minus end year) % orksheet 6 on minus end year) % orksheet 6 on encipal and % orksheet 6 on maple % orksheet 6 on minus end year) % orksheet 6 on orksheet 6 on orksheet 6 on orksheet 6 on orksheet 6 on orksheet 6 on orksheet 6 orksheet 6 orksheet % orksheet 6 orks</pre>
Cash used in the business from Noncash capital transferred to gifts/inheritances) [excluding (enter Screen 5)] End of year (at beginning prices bage 7 to calculate. ³ Change in calculated from values entered in <u>Guideling</u> I. Include gross value for pounds 2. <u>Dairy cattle sales</u> include rec receipts under <u>dairy calves sc</u> 3. <u>Crop sales</u> include sales of st 4. Machinery and real estate sale and must not be added in with 5. Itemize and identify <u>miscellan</u> product sales and positions su 5. <u>Nonfarm cash income</u> from nonfa interest received from prior s gravel sales, income from elec debt payments and family livin classified as farm income; i.e and the corresponding expenses be entered for the Annual Cash	nonfarm capital farm business fo machinery (enter for cattle) minu advanced governm Screen 11, page es for Recording of <u>milk sold</u> . ceipts from cull old. canding and harve es are netted out other farm receineous receipts of ach as director o arm work for self sale of farm asse cted office, and ng. In some inst the farm of a are included in o Flow Statement	r cattle, crop Screen 2) & r s beginning of ent receipts (9. <u>This Year's Re</u> cows and breed sted crops and in the invent pts. more than \$50 f cooperative. and spouse, t ts, timber sal other nonfarm ances, receipt perator has ac Screen 13, pa to balance	s, etc. (e.g. eal estate year. ² Use W beginning year <u>eccipts</u> ing stock. Ind any crop insur ory-depreciation 0. Include ind ax refunds, pri- es, gas and oil income that is s such as timbe tively managed ge 13. All noni	S Norksheet 6 on minus end year) clude bob calf rance proceeds. on calculations come from maple incipal and l royalties, available for er sales should b the enterprise farm income must
Cash used in the business from Noncash capital transferred to gifts/inheritances) [excluding (enter Screen 5)] End of year (at beginning prices bage 7 to calculate. ³ Change in calculated from values entered in <u>Guideling</u> I. Include gross value for pounds 2. <u>Dairy cattle sales</u> include rec receipts under <u>dairy calves so</u> 3. <u>Crop sales</u> include sales of st 4. Machinery and real estate sale and must not be added in with 5. Itemize and identify <u>miscellan</u> product sales and positions su 5. <u>Nonfarm cash income</u> from nonfa interest received from prior s gravel sales, income from elect debt payments and family livin classified as farm income; i.e and the corresponding expenses be entered for the Annual Cash 5. <u>Cash used in the business</u> from farm business from outside. I	nonfarm capital farm business fo machinery (enter for cattle) minu advanced governm Screen 11, page es for Recording of <u>milk sold</u> . eipts from cull old. canding and harve es are netted out other farm recei neous receipts of ach as director o arm work for self sale of farm asse eted office, and ng. In some inst taken in the farm of a are included in a Flow Statement include cash from	r cattle, crop Screen 2) & r s beginning of ent receipts (9. This Year's Re cows and breed sted crops and in the invent pts. more than \$50 f cooperative. and spouse, t ts, timber sal other nonfarm ances, receipt perator has ac Screen 13, pa to balance. is all the re personal savi	s, etc. (e.g. eal estate year. ² Use W beginning year <u>eccipts</u> ing stock. Ind any crop insur ory-depreciation 0. Include ind ax refunds, pri- es, gas and oil income that is s such as timber tively managed ge 13. All nonings st of the cash ngs accounts, s	<pre>\$</pre>

SUMMARY OF 1994 RECEIPTS AND CHANGES IN INVENTORY AND ACCOUNTS RECEIVABLE

Guidelines for Recording This Year's Expenses on Page 13

11

- Enter <u>hired labor</u> expenses separately including wages, social security paid on labor, worker's compensation insurance (net of refunds), unemployment insurance, and privileges purchased for hired labor. Wages paid must be consistent with months of hired labor. Check to see that <u>monthly wages</u> range between \$750 and \$2,500 per employee. Make sure that wages do not include "draws" to partners or wages of corporate owner-operators for individuals entered as operators in Screen 7, page 5.
- Dairy grain and concentrate bought should include the concentrate, minerals, protein, and grain purchased during the year for the dairy herd including heifers, calves, and bulls. <u>Dairy roughage</u> includes hay and silage for the dairy herd as well as anhydrous ammonia purchased for silage additive. All feed purchased for livestock such as horses, beef cattle, sheep, etc. should be included in <u>nondairy livestock feed</u>.
- 3. Include all <u>machinery rent</u> paid and any <u>lease</u> payments on machinery. Include insurance and registration for trucks used solely for farm purposes under <u>machinery repairs and parts</u>. An "auto", whether a pick-up or car, is a vehicle with a farm share and a nonfarm share; therefore, the farm expenses associated with these are entered as <u>auto expense</u>.
- 4. <u>Milk marketing</u> expenses include government assessments, milk hauling, milk promotion, and coop dues. Do not include capital assessments. <u>Cattle lease</u> expense includes cattle lease payments and cattle rent. <u>Other livestock expenses</u> include DHIC dues, cattle registration, livestock board, milk house supplies, bedding, and bST.
- 5. Enter all the town, county, and school <u>taxes</u> paid on farm real estate. Exclude income and self-employment taxes. (Itemize corporate taxes under miscellaneous.) Sales taxes should be capitalized along with cost of improvement.
- 6. Enter all the fire and farm liability <u>insurance</u> paid on farm property. Exclude life insurance and personal health insurance. Enter employee health insurance under hired labor expense, truck/auto insurance as machinery expense, and crop insurance as other crop expense.
- 7. Enter the farm share of <u>electricity</u> and <u>telephone</u> expenses.
- Include all <u>real estate rent</u> paid and any <u>lease</u> payments on structures. Identify taxes and insurance paid by the rentee as rent. Enter machinery lease payments under <u>machine hire. rent or lease</u>, cattle lease payments under <u>cattle lease</u> expense.
- 9. Include all <u>interest</u> paid on farm liabilities including finance charges. Make sure interest paid equals total farm interest, column 7, Screen 11, page 8.
- 10. <u>Miscellaneous</u> expenses should not be large. Include only those items which cannot be identified within another category. Maple product expenses should be entered as miscellaneous.
- 11. Cattle and other livestock purchased must be divided into those purchased as <u>replacements</u> and those that increase the size of the herd (<u>expansion</u>). Start by assigning the increase in herd size corresponding to changes recorded on Screen 4, page 3.

Account Number	Balance	-	Balance	-	Change in	Allocation (enter 1	totals on page 13)
or Description	12/31/94		1/1/94		Acct. Pay.	Expense Category	Change in Acct. Pay,
						Hired Labor	\$
:	\$	•	\$	-	\$	Feed	
						Dairy grain & conc.	\$
;	\$	-	\$	-	\$	Dairy roughage	
						Nondairy feed	
:	\$	-	\$	-	\$	Machinery	
						Mach. hire & lease	
:	\$	-	\$	_	\$	Mach. repairs & parts	
						Auto expense(farm share	e)
;	\$	-	\$	-	\$	Fuel, oil & grease	
						<u>Livestock</u>	
:	\$	-	\$. –	\$	Replacement livestock	
						Breeding	·····
:	\$	-	\$	-	\$	Veterinary & medicine	
	•		•			Milk marketing	<u> </u>
	\$	-	\$. –	\$	Cattle lease	· · · · · · · · · · · · · · · · · · ·
	•		•		•	Other livestock expense	B
;	\$	-	\$. –	\$	Crops	
	^		•		•	Fertilizer & lime	
	\$	-	\$. –	\$	Seeds & plants	.
	•		•		~	Spray, other crop exp.	
;	۶	-	<u>ې</u>	• -	≥	Keal Estate	
	¢		e	_	¢	Land, bldg., fence rep	•
·	ې	-	ə	. –	ې	Pont & longo	
	¢	_	¢	_	¢	Other	
·	۷	-	۷	. –	۷	Incurance	
	¢	-	\$	-	s	Telephone (farm chare)	· · · · · · · · · · · · · · · · · · ·
	¥		۷	• _	۷	Electricity (farm share)	a)
	Ś	-	ŝ	_	S	Interest	
·	·		¥	•	¥	Miscellaneous	
						Expansion Livestock	
TOTAL:	Ś	-	ŝ	_	\$)	equals>	s

Guidelines for Recording Accounts Payable

- 1. Identify changes in open operating accounts payable from beginning to end of year. These are accounts established when farm inputs, such as feed, fertilizer, farm supplies, machinery, repairs, and veterinarian services were bought on credit.
- 2. If there is more than one account per dealer or farm supplier (e.g., feed is purchased from the same supplier as fertilizer), list them separately on the left-hand portion of the worksheet to facilitate easier allocation to farm expense categories.
- 3. Assign and allocate changes in open operating accounts payable to appropriate farm expenses. Totals may be entered in Screen 13, page 13.
- 4. When more than one type of farm input is included in a particular open account, allocate to the expense categories using the estimated ratio of farm input actually purchased from the " account during the year.
- 5. The total of the "Change in Accounts Payable" column must equal "Total Change in Accounts Payable" on Screen 13, page 13.
- 6. If scheduled debt payments were not made, there is likely an increase in accounts payable for "interest". However, if the loan was refinanced and the unpaid amount added to the principal, the interest is considered paid and is reported in Screen 11, pages 8 and 9.
- 7. All accounts payable should appear as liabilities on the balance sheet, Screen 11, page 9.

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Name

12

[Proc. no.

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Name

13

[Proc. no.

1

SUMMARY OF 1994_EXPENSES & (CHANGES IN INV	VENTORY & ACCO	UNTS PAYABLE	
See page 11 for instructions.		Change in		SCREEN 13.
		Inventory		
	Cash	+ or Prepaid	+ Change in	_ Accrual
Farm Expenses	Amount paid	Expenses1_	Acct.Pay ²	Expenses
<u>Hired Labor</u>	\$	\$xx	\$	\$
<u>Feed</u> (see Guideline 2 on page 11)				
Dairy grain & concentrate	<u> </u>	0000#888a		
Dairy roughage				
Nondairy feed				
Machinery				
Nachine hire, rent & lease		xx		
Nachinery repairs & parts				
Auto expense (larm share)		xx		
fuel, oli a grease				
<u>Livestock</u> Benlecement livestock				
Replacement Alvescock	<u> </u>	**		
Veterinarv & medicine			·	
Nilk marketing	····			
Cattle lease/rent		 x x	·····	
Other livestock expense				
+++++++++++++++++++++++++++++++++++++++	+++++++++++++++++++++++++++++++++++++++		·++ ++++++++ +	+++++++++++++++++++++++++++++++++++++++
Crops				
Fertilizer & lime		S		3
Seeds & plants		3		3
Spray, other crop expense		3		3
<u>Real Estate</u>				
Land, building, fence repair				
Taxes	<u> </u>	xx		
Rent & lease		xx		
<u>Other</u>				
		xx	. <u> </u>	•
Telephone (Iarm Share)		<u>**</u>		
LIGCUTICILY (IEIM BREFW)		<u>*</u> *		
licerest Niecellaneous		**		
			······	
TOTAL OPERATING	\$	\$	\$	\$
Expansion livestock	\$	xx		\$
Purchase of other stock & certificates (e:	xclude Farm Ci	redit stock)		\$
<u>Nonfarm Cash Expenses</u> Personal withdrawals & family expenditure.	s ⁴			\$

¹Changes in prepaid exp. can be entered in x x spaces. Total change in prepaid exp. must - the difference between prepaid exp. totals in Screen 9, page 6 (beg. year minus end year). ²Use Worksheet 7 on page 12 to calculate.

³Must calculate for completion of Screen 14, page 14.

⁴Include all cash withdrawals plus all additional nonfarm expenses paid with farm cash or from farm accounts, e.g., income tax, self-employment tax, life insurance and wages of corporate owner-operators. Include withdrawals used for nonfarm loan payments, savings and investments as well as family living expenses. Include borrowed capital used for nonfarm purchases, providing it has been entered as a new nonfarm liability in Screen 11, page 9. If any or all "Nonfarm Cash Income" has been excluded from the value entered in Screen 12, page 10, you must also exclude any family expenses paid from that income. Name

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OPTIONAL INPUT

[Proc. no.

BREAKDOWN OF 1994 ACCRUAL CROP EXPENSES BY CROP SCREEN 14 Accrual Ferti-Accrual Seeds Accrual Spray, Crop <u>lizer & Lime</u> & Plants Other Crop Expenses Hay crop (silage & dry) Corn (silage & grain) Pasture All other crops Total Totals above must equal <u>accrual</u> expenses in Screen 13, page 13. OPTIONAL INPUT FOR DEFERRED TAX CALCULATIONS It will be assumed that: (1) farm assets not listed below will not significantly influence deferred tax liability, and (2) all gain on machinery and purchased livestock is ordinary gain. Tax Basis (undepreciated balance) of: (as of December 31, 1994) Purchased livestock (included in livestock inventory, Screen 4) Machinery & equipment (included in mach. inventory, Screen 2) Buildings & improvements (included in R.E. inventory, Screen 5) Part that is single purpose livestock structure, silos, & grain bins (\$ or %) 🖲 OR Ş Operator residences¹ (included in land & bldg. inventory, Screen 5) \$_____ Nonfarm assets (included in Screen ⁰) Market Value of: Operator residences (included in land & bldg. inventory, Screen 5) \$_____ Single purpose livestock structure, silos & grain bins (\$ or % of R.E. inventory) **%** OR \$ Purchased Livestock (\$ or % of livestock inventory) SOR S Proprietorship: Tax filing status² Nonfarm income of operator on which self-employment tax was paid Partner 1 Partner 2 Partner 3 Partner 4 Partner 5 Partnership Information Tax Filing Status² Percent Share of Farm Adjusted Gross Income 8 8 Percent Ownership of: Current Assets Livestock Machinery Real Estate Nonfarm Assets Listed Nonfarm Income of operator on which self-employment tax was paid \$_ \$_ \$__ \$_

¹Residences included in farm real estate lived in by the operators of the business. ²I-single, 2-married filing jointly, 3-married filing separately, 4-head of household. PROCEDURES FOR CALCULATING COST OF PRODUCING MILK

APPENDIX C



PROCEDURES FOR CALCULATING COST OF PRODUCING MILK -1994 DAIRY FARM BUSINESS SUMMARY FOR HOWARD HOLSTEIN

Total Accrual Operating Expenses Plus: Expansion Livestock Expense	\$443,050 _+0	<u>Example¹</u>
Expansion Livestock		\$443,050
Total Accrual Receipts	\$493,075	
Less: Accrual Milk Sales	-435.349	
Accrual Receipts Less Milk Sales		<u>- 57.726</u>
Operating Cost of Producing Milk ²		\$385,324
Total Accrual Expenses		\$487,050
Accrual Receipts Less Milk Sales		<u>- 57.726</u>
Purchased Inputs Cost of Producing Milk ³		\$429,324
Total Accrual Expenses		\$487,050
Family Labor Unpaid		+ 17,400
Value of Operator's Labor & Management		+ 50,000
Real Interest on Equity Capital		+ 19,859
Accrual Receipts Less Milk Sales		<u>- 57.726</u>
Total Cost of Producing Milk ⁴		\$516,583

¹ Same example as in Section VI of this publication.

- ² Considering only operating costs, this measure shows how you are doing on cost control in "operating" the business. If milk receipts are less than this measure, the farm has serious milk production profitability troubles which must be corrected immediately if the business is to survive.
- ³ Considering all costs except unpaid family labor and the opportunity cost of operator's labor, management, and equity capital, this measure after being subtracted from milk receipts will show the return from milk production to the above mentioned factors of production. If milk receipts are less than this measure of cost of producing milk, the business has milk production profitability difficulties. If the operating cost of producing milk is less than milk sales, but this measure is more than milk sales, the farm business is contributing to but not totally covering fixed costs. This situation must be corrected for long-run business survival.
- ⁴ Considering all costs of producing milk, including the opportunity cost of operator provided inputs, this measure is the best indicator of long-run business survival. On many farms, the total cost of producing milk will be less than milk sales. This does not imply the business is doomed. If milk sales are greater than the previously discussed two measures of cost of milk production, but less than the total cost of producing milk, the business is not returning the total opportunity cost of operator provided inputs. For long-run business survival, farms should strive for milk sales to meet or exceed this cost of producing milk.



APPENDIX D

CREATION OF A CONFIG.SYS FILE

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CREATION OF A CONFIG.SYS FILE

In order for the program to work properly, a CONFIG.SYS file must exist in the root directory of a hard disk or on the MSDOS or PCDOS boot diskette of a floppy based system. To see if such a file exists, use the DIR command to get a directory of the existing files in the root directory.

For example, on a hard disk you would type:

DIR C:\CONFIG.SYS and press return.

If the file exists, it will be listed on the screen, if the file is not present a message "FILE NOT FOUND" will be displayed.

Existing files will need to be edited. This can be done by using the EDLIN command. To use this command, type:

EDLIN CONFIG.SYS and press return

and the following message will be displayed if the file is found:

End of input file *

To get a listing of the file, type 1 and press return. The contents of the file will now be displayed:

```
1:*FILES = 1\emptyset
2: BUFFERS = 1Ø
```

What is displayed on your screen will be similar to the above example.

You will need to edit the line that contains the FILES statement. In the example above, line 1 contains the statement. To edit the line type:

1 and press return.
The following will then display:
 *1
 1:*FILES = 1Ø
 1:*

Enter new information on the blank line directly below the statement. You will now type:

FILES = 16 and press return.

The prompt will reappear. Type:

E and press return.

You will then return to the operating system prompt.

Once you have completed either of the steps outlined above, you will need to reboot the computer.

NOTES

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OTHER A.R.N.E. EXTENSION PUBLICATIONS (Formerly A.E. Extension Publications)

No. 94-18	Your Dairy in Transition Your Farm and the Industry	Faculty & Staff Cornell University
No. 94-19	Your Dairy in Transition A Planning Process for Considering Dairy Farm Expansion	Faculty & Staff Cornell University
No. 94-20	Your Dairy in Transition Winding Down Your Farm Operation	John R. Brake
No. 94-21	Dairy Farm Business Summary Eastern New York Renter Summary 1993	Stuart F. Smith Linda D. Putnam
No. 94-22	Income Tax Consequences of Farm Debt Cancellation and Bankruptcy	George Casler
No. 94-23	Farm Income Tax Management and Reporting Reference Manual	George L.Casler Stuart F. Smith
No. 94-24	Dairy Farm Business Summary New York Large Herd Farms, 300 Cows or Larger 1993	Jason Karszes Stuart F. Smith Linda D. Putnam
No. 94-25	New York Economic Handbook 1995 Agricultural Situation and Outlook	A.R.M.E. Staff
No. 94-26	Census of Agriculture Highlights New York State, 1992	W. Knoblauch L. Putnam B. Stanton N. Merrill
No. 94-27	Fruit Farm Business Summary Lake Ontario Region New York 1993	Gerald B. White Alison DeMarree Linda D. Putnam
No. 94-28	Category Management Current Status and Future Outlook	Edward W. McLaughlin Gerard F. Hawkes
No. 95-01	Pro-Dairy Financial Data Collection Workbook	Stuart F. Smith Linda D. Putnam
No. 95-02	Estate and Succession Planning for Small Business Owners	Loren W. Tauer Dale A. Grossman