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# **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 with appropriate microcomputers 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 Economics at Cornell University for additional review prior to calculation of county, regional, and State summaries.

#### HARDWARE REQUIREMENTS

Version 2.7 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 2.7 REVISIONS

Revisions made for Micro DFBS Vertion 2.7 include the following:

- The constant used for the value of unpaid family labor and value of operator's labor is \$1,350 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 10 percent at the beginning of year, and 8.5 percent at the end of the year. These are the typical interest rates paid by farm borrowers during the year.
- 3) Operating cost of producing milk has been added as a cost control measure in the Progress of the Farm Business table on page 1 of the output.

- 4) An asset turnover ratio replaces capital turnover (in years) on pages 1 and 11. The asset turnover is calculated by dividing accrual receipts (including appreciation) by average assets.
- 5) Net sales of real estate (page 5 of output) are calculated by subtracting sale expenses from the total sale price. The beginning inventory value of real estate sold is no longer collected. Therefore, there is now only one real estate appreciation value calculated.
- 6) A Statement of Owner Equity (Reconciliation) has been added on page 6 of the output.
- 7) The Annual Cash Flow Statement (page 7) has been re-organized to show net cash provided by operating activities, investing activities, financing activities, and from reserves.
- 8) A diagnostic has been added that prints the amount of cash inflow, cash outflow and the imbalance.
- 9) An option to print the Annual Cash Flow Statement using the previous year's format has been added.

# 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. <u>Make backup copy of diskette</u>.

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:

46002.92 is the current year's data file, 46002.910 is the 1991 output file, and 46002.900 is the 1990 output file.

The 1991 and 1990 output data files are required for use by the current year data file (<farm no.>.92) in order to print a "Progress of the Farm Business" table on page 1 of the output. The 1992 data file contains data from the 1991 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 1-1-93, Micro DFBS will use the <farm no.>.92 data file and the printout will show:

#### 1992 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. Two floppy disk drives (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 1-1-93 ↓

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:46002.\* b: ↓

Skip to C on page 5.

B. <u>One floppy and one hard drive</u> (IBM or compatible):

If you have previously loaded DOS onto the hard disk<sup>2</sup>, turn on the computer and printer with the floppy drive empty. Wait until DOS is 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

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

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

(The symbol ↓ stands for a carriage return.)

C: 1

Upper- or lower-case letters will do. This makes drive C the default drive.

and the computer does not have an internal calendar, at the C> prompt type:

date 1-1-93 →

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.<sup>3</sup> 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:46002.\* ↓

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.

<sup>&</sup>lt;sup>3</sup>If 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:

A:1

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.

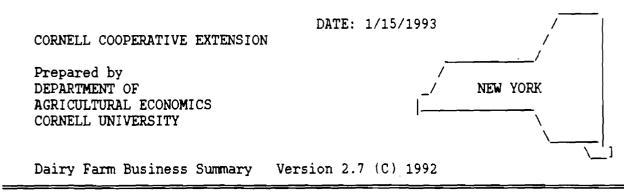
<u>Note</u>: The MD \DFBS and COPY commands need to be used only once -- the directory and files will remain after the session is ended and can be used in future sessions.

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

DFBS 🚽

You should see the main menu.

MAIN MENU



[ ] Create/Update/Display Record
[ ] Verify Record
[ ] Delete Record

[ ] Calculate and Print Farm Summary
[ ] Run 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  $(\uparrow \text{ or } \downarrow)$  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  $\lrcorner$ . 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 A DIRECTORY
- 2: REMOVE A 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.

If you will be storing the data on a floppy diskette, it is not necessary to create a directory on the diskette. Choose option 3 from the menu and when prompted for the directory name simply type , (return/enter). 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:

لہ ا

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.

# MAIN MENU WITH FARM NUMBER PROMPT

CORNELL COOPERATIVE EXTENSION	DATE: 1/15/1993	/
Prepared by DEPARTMENT OF AGRICULTURAL ECONOMICS CORNELL UNIVERSITY		/ NEW YORK
Dairy Farm Business Summary	Version 2.7 (C) 1992	\)

[ ] Create/Update/Display Record [ ] Calculate and Print Farm Summary
[ ] Verify Record [ ] Run Install Program
[ ] Delete Record [ ] 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  $\lrcorner$  (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  $\lrcorner$  (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 46002 and the number is written in the space labelled "Processing number".

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

Name Darla Dairyperson	County	uffolk	SCREEN 1.
Address <u>RD#/ Box 22</u> <u>Farmingville NV 19901</u> Phone no. <u>607-255-9429</u>	Proc. number ( Scomplete, () Update Screens:	<b>4600 2</b> Mentered, ()	

Type the farm number:

لم 46002

Micro DFBS will find the file 46002.92. 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:<sup>5</sup>

## 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  $\downarrow$  (return/enter) to move to the address line and type the rest of the farm information, (use the sample farm information from above).

Screen #1

		Verified	[N]
Farm No	46002		
Operator's Name .			
Farm Name			
Address			
City			
State	NY		
Zip	-		
County	SUFFOLK		
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:

Do-right Dairy J (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 ↓ or ↓ to move through the entire screen so values are recalculated.

[PgDn] or [RETURN] - next, [PgUp] - 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 J (Return/Enter) after entering the Screen #.

# Screen #1

# FARM INFORMATION

	Verified [N]
Farm No 46002	
Operator's Name . Darla Dairyman	
Operator's Name . Darla Dairyman Farm Name Do-right Dairy	
Address RD#1, Box 22 City Farmingville State NY Zip 19901- County SUFFOLK	
City Farmingville	
State NY	
Zip 19901-	
County SUFFOLK	
Phone (607)255-8429	
Regular [ ]	Irregular [x]

Move to Screen 2 by typing:

J as many times as necessary.

You should see Screen 2.

Farm No.46002

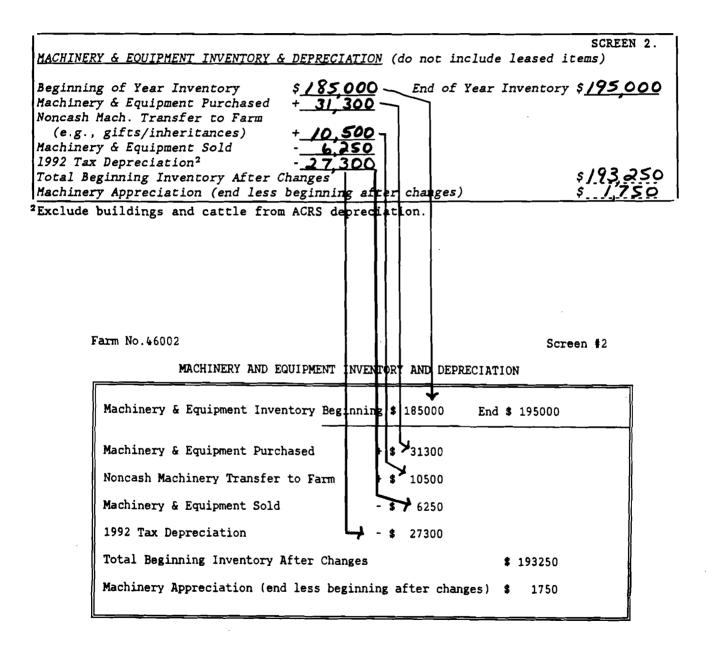
Screen #2

MACHINERY AND EQUIPMENT INVENTORY AND DEPRECIATION

Machinery & Equipment Inventory Be	ginning \$ 185	000 End	\$	0
Machinery & Equipment Purchased	+ \$	0		
Noncash Machinery Transfer to Farm	+ \$	0		
Machinery & Equipment Sold	- \$	0		
1992 Tax Depreciation	- \$	0		
Total Beginning Inventory After Cha	anges		\$ 18500	00
Machinery Appreciation (end less be	ginning after	r changes)	\$-1850(	00

Part of page 1 of Darla Dairyman'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 beginning of year inventory value will be displayed. If this value does not need to be revised, press  $\lrcorner$  (return/enter) to move to the next item. If it needs to be changed, simply type the revised value over the existing one. Enter the data called for. Use  $\lrcorner$  to move from one item to the next one below. The last two items are calculated by Micro DFBS. When you have entered all the data for Screen 2, advance to Screen 3 by typing:

[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 Do-right Dairy 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.<sup>6</sup> 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.

FEED & SUPPLY INVENTOR	K – – – – – – – – – – – – – – – – – – –	· · · ·	SCREEN 3.
Total Grown Feeds	\$ <u>5003</u> 4	\$ <u>73,943</u>	Inventory Change \$23,759
PURCHASED FEEDS:(use p Dairy grain & conc ?? Dairy roughage Nondairy feed	T. x/149/T=\$ <u>3,600</u>	x\$ <u>7,400</u>	-3,800
Fuel. oil, grease AQ Livestock: Semen Vet. supplies			s20 28 300 25
Other supplies Crops: Fertilizer Seeds Pesticides/Other			- 500 100
Land/Bldg./Fence: Other: Total Feed & Supplies			

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

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

FEED & SUPPLY INVENTORY

Farm No. 46002

Screen #3

Feed & Supply Inventory	Be	g-Year	Er	d-Year	Inven	tory Change
Total Grown Feeds		50084	\$	73843		23759
Purchased Feeds:						
Dairy Grain & Conc.		3600		7400	\$	-3800
Dairy Roughage		Ó		0	1	0
Nondairy Feed		Ō	Ś.	ñ	i i	ñ
Supplies:			-	•	•	•
Machine: Parts		250	1	270	1	-20
Fuel, Oil, Grease		115	. i	87	. i	28
Livestock: Semen		800	. i	500		300
Vet. Supplies		100		75		25
Other Supplies		0		ñ		
Crops: Fertilizer		6000	. i	4500		- 500
Seeds		700	1	600	. ž	100
Pesticides and Other	ž	0	Ť	0		100
Land/Bldg./Fence:	1	200	. i	ő		200
Other:	\$	0		ŏ		0
Total Feed & Supplies	\$	59849	\$	87275		

<sup>6</sup>There 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						SCREEN 4.
Number of leased/rented	dairy cows at	end of year		· 31, 1992 I	nventory	lleina
	<u>Jan. 1, 1992</u>	<u>Inventory</u>		Prices _		2 Prices
<u> </u>	\$ per No. Head	Total Value	\$ per <u>No. Head</u>	Total Value	\$ per Head	Total Value
Dairy Cows:	98 \$920	\$ <u>90,160</u>	<u>127 \$ 920</u>	\$ <u>116,84</u> 0	\$ <u>1020</u>	\$ <u>129,54</u> 0
• • • • • • • • • • • • • • • • • • • •		0-11-1				100
Total Dairy Cows	<u>98</u>	\$ <b>90/6</b> 0	12?	\$ <u>//6,840</u>		\$129540
Heifers:						
Bred Heifers	<u>20 \$ 900</u>	\$ <u>18,000</u>	25 \$ 900	\$ <u>22500</u>	\$ <u>950</u>	\$ <u>23750</u>
Open (6 mo bred)	25 700	17,500	30 700	21,000	750	22,500
Calves (< 6 mo.)	30 400	12,000	<u>30 400</u>	12,000	475	14,250
Total Heifers	<u>75</u>	\$47,500	<u>85</u>	\$55,500		\$ 60,500
Bulls & Other Lvstk.:						
Dair.ySteers	\$	\$	12 \$ 800	\$ <u>9600</u>	\$ <b>850</b>	\$ <u>10,200</u>
• • • • • • • • • • • • • • • • • • • •			<u> </u>			
Total Bulls & Other Livestock		\$	12	\$ 9600		\$ <u>10,200</u>
Total Livestock	173	\$137,660	224	\$181,940		\$ 200,240

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

Farm No.460	arm No.46002 LIVESTOCK INVENTORY Screen					en #4					
Leased Da	iry Cows	End Y	r.:	0		End of Year Inver			ntory Using:		
		Begin	ning of	Year		Beg. Pr	rices	End Pr	rices		
	_	No.	\$ per Head	Total Value	No.	\$ per Head		\$ per Head	Total Value		
Dairy Cow		98	\$ 920 0		127	\$ 920	\$ 116840	<b>\$</b> 1020	\$ 129540 0		
Total Da	iry Cows	98	Ū	90160	-	Ū	116840	·	129540		
Heifers:	Bred Open Calves	20 25 30	700	17500	30		22500 21000 12000	750	23750 22500 14250		
Total He		30 75		47500		400	55500		60500		
Bulls/Oth	er Lvstk	0 0	0 0	-	12 0	800 0	9600 0	850 0	10200 0		
Total Bu Other I	lls & Livestock	0		• 0	12		9600		10200		
TOTAL LIV	ESTOCK	173		137660	224		181940		200240		

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.

<u>REAL ESTATE INVENTORY BALANCE</u>		SCREEN 5.
Land & Building Market Value: Beginnin	s \$ 270 000	End \$ <b>325,000</b>
New Real Estate:		-
Purchased: 1\$ 0 + \$ 7,500 - \$ 2200 - land bldgs./land imp. lost capital	+\$ <b>5,300</b> value added	
Noncash Real Estate Transfer to Farm (e.g. gifts/inherit.)	+ <u>80,000</u>	
Depreciation: from 1992 income tax (Include bldgs. in pre-ACRS, ACRS, MACRS & ADS)	- 8,320	
Real Estate Sold: Total sale price \$ <u>32,000</u>		
Sale expenses - 2,500 Net sale price	29,500	
Note/mortgage held by seller - 20,000		
Net cash amt. rec'd. in 1992 - 9,500 2		
Total Beginning Value After Changes		\$317,480
Real Estate Appreciation		\$ 7 <b>520</b>

<sup>1</sup>Use Worksheet 4, page 2. <sup>2</sup>Calculated 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 11).

Farm No.46002

REAL ESTATE INVENTORY

Screen #5

Land and Building Market Value Beginning \$ 270000 End \$ 325000 New Real Estate: 0 + 7500 -2200 =+ \$ 5300 Purchased: land + bldgs./land imp.-lost cap. = value added + \$ 80000 Noncash Real Estate Transfer to Farm 8320 Depreciation: From 1992 Income Tax Real estate sold: 32000 Total sale price 2500 Sale expenses Net sale price - \$ 29500 Note/mort. held by seller - \$ 20000 = \$ 9500 Net cash amt. rec'd \$ 317480 Total Beginning Value After Changes 7520 Real Estate Appreciation:

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, 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  $\lrcorner$ (return/enter). The appropriate business description item will be displayed on the screen. Initially, all the items are set to 1, 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 & BUSINESS DESC	RIPTION			SCREEN 6.
	Avg. No.	Production	•	Primary
<u>Livestock</u>	For Year	Record	<u>Milking System</u>	<u>Business Type</u>
Dairy cows (owned,		🗶 (1)D.H.I.	(1)Bucket & carry	(l)Single prop.
rented & leased)	<u>_/18</u> _		(2)Dumping station	n 🔀 (2) Partnership
Heifers (dairy)	80	DHI#21 <b>460124</b>	(3)Pipeline	(3)Corporation
Bulls		(3)Other	📕 (4)Herringbone pai	r
Other: (type) Dairy Steer	\$[ 12]	(4)None	(5)Other parlor	Primary Financial
(# head) <b>6</b>	w.u.1			Recordkeeping System
		<u>Milking Frequency</u>	Dairy Housing	(1)ELFAC II
Lbs. milk sold _2/50	868	<u>★(1)2x/day<sup>2</sup></u>	(1)Stanchion/	(2)Account Book
		(2)3x/day <sup>3</sup>		(3)Agrifax Mail-in
Avg. milk plant test 3.	<b>8</b> _€ B.F.	(3)Other <sup>4</sup>	🗶(2)Freestall	×(4)On-Farm Computer
			(3)Combination	(5)Other

Farm No.46002

LIVESTOCK and BUSINESS DESCRIPTION

Screen #6

Livestock	Average No For Year	. Production Record		Milking System					
Dairy Cows	118	1 D.H.I	4 HERRINGBO	NE PAR	2 PARTNERSHI				
Heifers(dairy)	80								
		D.H.I 🛊							
Bulls	0	21460124							
Other:	12 w	<i>.</i> u.							
			<b>.</b> .		ancial				
Milk Production		Milking	Dairy		dkeeping				
milk sold (lb)	21500/0	Frequency	Housing	Sy	stem				
MIIK SOIG (ID)	2150868	1 2X/DAY	2 FREESTALL	/ ON	FARM COMPUTER				
Average Milk Pla	ant Test	1 2A/ DA1		4 014	FRAME COMPOSED				
3.80% B.F.	HIC TESC								

	Work units per <u>head or per acre</u>
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 <sup>7</sup> -	
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
Oats Wheat	0.6

Table 1. Work Units For Livestock and Crops

.\*

3

<sup>7</sup>Work 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. 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	Full-Time Months	Age Years Edu 42 15 31 15	SCREEN 7. <u>c. Value of Management &amp; Labor</u> <u>\$20,000</u> <u>\$20,000</u>
- 3 - 4 - 5 - 6 Family (paid employees) Family (unpaid)	9		\$ \$ \$
Hired (regular & seasonal Total	)	- 3.50 Worker Eq	uivalent
<u>LAND INVENTORY</u> Tillable land Pasture (nontillable) Woods & other nontillable Total	<u>Acres Owned</u> 300 10 65 .375	<u>Acres Rente</u> /50 /0 <u>5</u> ./65	d <u>All Acres</u> <u>450</u> 20 70 540

Farm No.46002

LABOR and LAND INVENTORY

Screen #7

LABOR INVENTORY Full-T	ime	Months	Age	Years Educ.	Value of	Mgmt	& labor
Operator - 1	12		42	15	\$2	0000	
- 2	12		31	15	\$2	0000	
- 3	0		0	0	\$	0	
- 4	0		0	0	\$	0	
- 5	0		0	0	\$	0	
- 6	0		0	0	\$	0	
Family (paid emp.)	9						
Family (unpaid emp.)	9						
Hired (reg & seasonal)	0						
Total 42			+ 12	= 3.50	Worker Eq	uival	ent
LAND INVENTORY		Acres O	wned	Acres H	Rented	A	ll Acres
Tillable land		300		150	)		450
Pasture (nontillable)		10		10	)		20
Woods & other nontillabl	e	65		5	õ		<b>70</b>

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). The order of data entry is across the rows. Total Tillable Acres and the Total Tons Dry Matter column are the calculated values.

				Dry Matter	SCREEN 8.
	Acres	Total Product	tion	Coeffi-	Total Tons
TILLABLE LAND USE	(lst cut only)	(all cutting	<u>(s)</u>	Cient <sup>6</sup>	Dry Matter
Hay Crop (lst cut acres only)	300				
Нау		150	tons	.85	128
Hay crop silage	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	/300	tons	.40	520
Corn silage	70	1025	tons	.35	3.59
Other forage harvested	10	40	tons		
Corn for grain <sup>5</sup>	70	6500 dry s	shbu.	Tot. tn DM	1023
Oats			iry bu.		
Wheat			iry bu.		
Other:		1	]w.u.1		
Tillable pasture				•	
Idle tillable acres					
Total tillable acres	450				

<sup>1</sup>Work units. <sup>2</sup>All cows were milked 2x for entire year. <sup>3</sup>All cows were milked 3x for entire year. <sup>4</sup>A portion of herd was milked 3x or total herd was milked 3x for part of year. <sup>5</sup>Convert to dry shelled equivalent (see tables, opposite page). <sup>6</sup>Enter as decimal, e.g., 40% is entered as .4.

Farm No.46002

TILLABLE LAND USE

Screen #8

	Acres (1st cut)	Total Produ (all cutti		Dry Matter Coefficient	Total Tons Dry Matter
Hay Crop	300			0.85	128
Hay		150 1300	tons	0.40	520
Hay Crop Silage			tons		359
Corn Silage	70	1025	tons	0.35	
Other Forage	10	40	tons	0.40	16
Corn for Grain	70	6500	bu.	Total Tons D.	M.: 1023
Oats	0	0	bu.		
Wheat	0	0	bu.		
Other	0	0	w.u.		
Tillable Pasture	0				
Idle Till. Acres	0				
Total Till. Acres	450				

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.
AS	<u>SETS</u>	
	<u>January 1. 1992</u> 1	<u>December 31, 1992</u>
Total Farm Inventory <sup>2</sup>	\$ <b>652,509</b>	s <b>807,5</b> 15
Other Farm Assets:		
Farm cash, checking, & savings	20000	5,000
Accounts receivable <sup>3</sup>	20,575	20,725
Farm Credit stock	6950	7,250
Other stock & certificates	3,000	3200
Prepaid expenses <sup>4</sup>	x <u>_200_</u> x	x <b>80</b> 0_x
Total Farm Assets	\$ 703,234	\$ <b>\$44,490</b>
Nonfarm Assets: <sup>5</sup>		-
Personal cash, checking & savings	2000	2,100
Cash value life insurance	3,000	3,100
Nonfarm real estate		
Personal share auto	2,000	1500
Stock & bonds	·	, 
Household furnishings	5000	5,000
Other (include mortgages & notes)	8,000	27 700
Total Nonfarm Assets	s 20,000	\$ 39,400
TOTAL ASSETS (not including leases)	<u>\$ 72 3,234</u>	\$ 883,990

# FARM FAMILY FINANCIAL SITUATION

Farm No.46002

FARM FAMILY FINANCIAL SITUATION--ASSETS

Screen #9

	January 1, 1992	December 31, 1992
Total Farm Inventory	\$ 652509	\$ 807515
Other Assets:		
Farm Cash, Check/Saving	20000	5000
Accounts Receivable	20575	20725
Farm Credit Stock	6950	7250
Other Stock and Cert.	3000	3200
Prepaid Expenses	200	800
Total Farm Assets:	. \$ 703234	\$ 844490
Nonfarm Assets:		
Personal Cash, Check/Saving	\$ 2000	\$ 2100
Cash Value Life Insurance	3000	3100
Nonfarm Real Estate	0,	0
Personal Share Auto	2000	1500
Stocks & Bonds	0	0
Household Furnishings	5000	5000
Other	8000	27700
Total Nonfarm Assets	\$ 20000	\$ 39400
TOTAL ASSETS	\$ 723234	\$ 883890

Screen 10, Liabilities and Planned Debt Payment Schedule, is divided into two screens (Screen 10 and Screen 10a). Screen 10 contains the Long Term and Intermediate Liabilities and Debt Payments. Screen 10a contains the Short Term, Operating Debt, Accounts Payable, Advanced Government Receipts, and Nonfarm Liabilities and Debt Payments. To move from Screen 10 to Screen 10a, press the [PgDn] key. To get back to Screen 10 from Screen 10a, press the [PgUp] key.

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.

	FARM FAMILY FINANCIAL SITUAT						SCREEN 10		
LIABILIT	<u>[ES<sup>1</sup>]</u>		}		DE1	<u>BT PAYMENT</u>		1005	
Creditor (the first 12	Ало		Amount of	Amt. of Debt	1	992 Pymts	Planned		
characters will be	Jan. 1,			Refin-	Princi-	792 Pymes	Amt. of	Pymcs. Per	
used as input.)	1992	1992	rowings	anced <sup>2</sup>	pal	Interest	Pymts.	Year	
	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(\$)	(no.)	
Long Term Debt (≥10yrs		-							
1st Bank Mortgage	73,000	70000	xx		3000	5,916	743	L	
Farm Credit 1	60000	58000	xx			4540			
			xx		<u> </u>				
	<u> </u>		xx						
Intermediate Term Debi	: (>1yr.,	<10yrs.)	1		ļ				
First Bank	31,000	<u> </u>	x <u>15,000 x</u>	• • • • • • •	3,000	•			
Farm Credit 2	•		x_ <u>5,000</u> x	• • • • • • •		6,100			
John Deere	42,000	39,000	××	•••••	3,000	<u>3,828</u>	569	. 12	
			xx						
			xx	•••••				· —	
<u> </u>			xx	• • • • • • • •		<u></u>			
			xx	• • • • • • • •	I		I		
Farm Credit Stock	•6950	\$7250	*****	++++++++	*****	*****	<del>, , , , , , , , , , ,</del>	+++++	
Short Term Debt - 1 y (borrowed to purchase	ear or le capital	ess items)					.		
			xx						
			xx		l			•	
Operating Debt (borrow entered as expenses in	n Screen	13)	{				net rec <u>planne</u>	<u>in:</u>	
Farm Credit 3	16,000	15,000		• • • • • • • •		3,000	oper. d	4,000	
	0						accts.		
Accounts Payable <sup>3</sup>		26,200				3,000	pay.: _	1,00	
Advanced Gov't Rec. <sup>4</sup> Total Farm Liab/Pymts		2,000		e 0	\$ <b>/3,000</b>	s <b>30 4</b> 04	Total		
· · ·				÷	•		Nonfari	0	
Nonfarm Liab/Pymts <sup>5</sup>			\$x		\$_0_	\$ <u>0</u> \$ <b>30,404</b>	rymus.		
TOTAL LIAB/PYMTS (not including leases	> <b>~~</b>	2472,750	\$		\$/ <b>3,000</b>	\$ 20,70.7			

<sup>3</sup>Farm Credit liabilities at beg. 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.

<sup>2</sup>Enter payment as a negative amount; loan as a positive amount. Do not include in new borrowings or with principal payments.

<sup>3</sup>Accounts not paid (not money borrowed) for noncapital items/services. Accounts payable at beginning and end of year must agree with the totals in Worksheet 7, page 10.

<sup>4</sup>Include government payments received in 1992 that are for participation in the 1993 program, as the end year balance. Enter government payments received in 1991 for participation in the 1992 program as the beginning year balance.

Include debt incurred for all nonfarm assets purchased.

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. However, if it is more convenient to enter the total annual payment amount in the "Amount of Payments" column, simply type a "1" in the "Payments Per Year" column. If the payments are not monthly or annual, enter the appropriate number of payments.

The "Farm Credit Stock" values at the top of Screen 10a 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.46002 LIF	ABILITIES & PLANNED	DEBT PAYMENT	SCHEDULE	Screen #1	.0
-------------------	---------------------	--------------	----------	-----------	----

Li	ab	ilities	:				Debt Payments:									
						mount f New			Actu	ıa	1	Planned 1993				
		Jan. 1 1992	, T	Dec. 31, 1992	B	Borrow-		riı	incipal		Int.		Amt. Pyn			ymts. Yr
*Long Term: 1st Bank Mtg Farm Credit1 *Intermediate First Bank Farm Credit2	\$ \$ \$ \$ \$ \$ \$	73000 60000 0 0 31000	\$ \$ \$ \$	70000 58000 0 0 43000 33000	· \$ \$ \$ \$ . \$ \$	0 0 0 0 15000 5000	· \$ \$ \$ \$ . \$ \$	•••	2000 0 0	\$ \$ \$ . \$	0 0 4020		\$ \$ \$ \$ \$ \$	545	5 ) ) 5	12 12 12 12 12 12 12 12 12
John Deere	\$ \$ \$ \$ \$	42000 0 0 0	\$ \$	39000 0 0 0 0	\$ \$ \$ \$ \$ \$ \$ \$ \$	0 0 0 0	\$ \$ \$ \$ \$ \$ \$ \$ \$		3000 0 0 0 0	\$ \$ \$	0 0		\$ \$ \$ \$	569 ( ( ( (	)	12 12 12 12 12 12

PRESS [PgDn] OR [ESC] TO GO TO SCREEN 10A

<<<<< (SCREEN 10 CONTINUED)>>>>> (PRESS [PgUp] TO GO TO SCREEN 10)

Lia	ab:	ilities	:					Debt Payments:								
		 Aຫວາ	t		_			Acti	Ja	1	Planned 1993					
		an. 1, 1992	1	Dec. 31, 1992			Pr.	rincipal		Int.	-	Amt. Of Pymts.	Pymts. / Yr.			
FCB Stock *Short Term:	\$	6950	\$	7250			_									
	\$	0 0		0 0	\$		0	\$ \$	0 0				\$	0 12 0 12		
*Operating Del	ot				.								Reductio med:			
Farm Credit3	\$ \$	16000 0		15000 0						\$ \$	3000 0	Oper.	Debt \$	4000 0		
*Accts. Pay.: *Adv Gov Rec.				26200 2000				ļ		\$	3000	Accts	s Pay \$	1000		
*Total Farm: *Nonfarm Liab		267950 0		293450 0	\$		0	\$ \$	13000 0		30404 0	Total	Nonfar			
TOTAL:	\$	267950	\$	293450	ŀ	• • • •	•	\$	13000	\$	30404	Payme	ents \$	0		

Financial leases are entered in Screen 11. The columns titled "amount of each payment", "no. of payments in 1992", "no. of payments/full year", and "no. of payments remaining" from the data check-in form are entered on Screen 11. The total 1992 expense column is calculated. The order of data entry is across rows.

Leased item	Amount of each payment	No. of payments _in 1992	Total 1992 expense	No. of payments/ full year	SCREEN 11. No. of payments remaining
Cattle:	\$		\$ 1		
Equipment: tractor	\$ <u> 70</u>		\$_ <b>2040</b> \$2		<u></u>
Structures:	\$ 	Total	\$3		<b>_</b>

<sup>1</sup>Enter under "Cattle leases" on Screen 13, page 11.

<sup>2</sup>Enter under "Machine hire, rent, & lease" on Screen 13, page 11.

<sup>3</sup>Enter under "Real Estate rent/lease" on Screen 13, page 11.

Farm No.46002

FINANCIAL LEASES

Screen #11

Leased Item		unt of h Pymt	No. of Payments in 1992	19	otal 192 Spense	No. of Payments/ Full Year	No. of Payments Remaining
Cattle	\$ \$ \$	0 0 0	0 0 0 Total	\$ \$ \$ \$	0 0 0 0	0 0 0	0 0 0
Equipment	\$ \$ \$	170 0 0	12 O O Total	\$ \$ \$	2040 0 0 2040	12 0 0	24 0 0
Structures	\$ \$ \$	0 0 0	0 0 0 Total	\$ \$ \$ \$	0 ~ 0 0 0	0 0 0	0 0 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 10.

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
_		<b>.</b>	Change in	• • • •
Farm	Cash +	Change in +	Accounts Receivable <sup>2</sup>	_ Accrual
Receipts	<u>Receipts</u>	Inventory <sup>1</sup>	Kecelveule-	Receipts
111k 2150,868 1bs.	s <u>279615</u>	TOTAL	s <u>2400</u>	\$ <b>282</b> 019
Dairy Cattle	-21,420	s <u>34,680</u>	<u>-2,000</u>	
Dairy Calves	<u>2`280</u>		- 250	2,030
Other Livestock		9,600		9,600
Crops	600	25,759		24,359
Government Receipts	3,250	-2,000		1250
Custom Machine Work	150	202222222	<u> </u>	/50
Gas Tax Refunds Other: Pat, Refunds 200	<u>250</u>	XXXXXXXXX		250
\$				• • • •
Total Other	200			200
TOTAL	\$307,765	\$ 66,039	s 150	\$ <b>37.3,9</b> 54
Sale of other stock & certificate	s (exclude Farm	Credit stock)		s <u> </u>
Nonfarm Receipts: Cash income (describe & itemize Sam's, income : \$/2,00 Cash used in the business from Noncash capital transferred to gifts/inheritances) [axcluding (enter Screen 5)]	00. : <b>Reo. Es</b> nonfarm capital farm business fo	t. mort. : \$ pr cattle, crops	s, etc. (e.g.	\$ 30,000

SUMMARY OF 1992 RECEIPTS AND CHANGES IN INVENTORY AND ACCOUNTS RECEIVABLE

<sup>1</sup>End of year (at beginning prices for cattle) minus beginning of year. <sup>2</sup>Use Worksheet 6 on page 8 to calculate. <sup>3</sup>Change in advanced government receipts (beginning year - end year) calculated from values entered in Screen 10, page 7.

#### Farm No.46002

Screen #12

SUMMARY OF YEARLY RECEIPTS & CHANGES IN INVENTORY & ACCOUNTS RECEIVABLE

Receipts	Cash Receipts +	Changes in Inventory +		Accrual Receipts
Milk 2150868 lbs	\$ 279615		\$ 2400	\$ 282015
Dairy Cattle	\$ 21420	\$ 34680	\$ -2000	\$ 54100
Dairy Calves	\$ 2280		\$ -250	\$ 2030
Other Livestock	\$ 0	\$ 9600	\$ 0	\$ 9600
Crops	\$ 600	\$ 23759	\$ 0	\$ 24359
Government Recpts	\$ 3250	\$ -2000	\$ 0	\$ 1250
Cust Mach Work	\$ 150		\$ 0	\$ 150
Gas Tax Refunds	\$ 250		\$ 0	\$ 250
Other	\$ 200		\$ 0	\$ 200
TOTAL	\$ 307765	\$ 66039	\$ 150	\$ 373954
Sale of Other Stoc	k & Certifica	tes (exclude Fa	rm Credit Stock	)\$0
NONFARM RECEIPTS Cash Income Cash Used in Busi Noncash Capital T			Cattle & Crops	\$ 12520 \$ 2000 \$ 30000

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.

ee page 12 for instructions.		Change in Inventory		SCREEN 13
arm Expenses	Cash <u>Amount paid</u>	+ or Prepaid Expenses <sup>1</sup>	+ Change in Acct.Pay. <sup>2</sup>	Accrual Expenses
		¢	<u>,</u>	s /0,000
<u>ired Labor</u>	\$ <u>/0,000</u>	\$xx	<u>ې</u>	\$. <u>,</u> ,,,,,,,,,,,,,
eed (see Guideline 2 on page 12)	24000	-3,800	9000	88,20
airy grain & concentrate	84,000		<u> </u>	
airy roughage		•••••		
londairy feed				
lachinery				1400
lachine hire, rent & lease	15,245	x <u>-350</u> x		14,89
lachinery repairs & parts	7,000		800	. 7,78
uto expense (farm share)	1,000	x x		
uel, oil & grease	6,250		··	. 6,27
<u>ivestock</u>				
Replacement livestock		x <u>x</u> <u>300</u>		
Breeding	5,750	300		6,05
eterinary & medicine	9.000	25	2,000	_[],02
filk marketing	10.000	xx	, 	10,00
Cattle lease/rent		xx		
Ther livestock expense	5.400			5,40
· • • • • • • • • • • • • • • • • • • •	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	**********	+++++++++++++++++++++++++++++++++++++++	-++++++++++++++++++++++++++++++++++++++
Crops				
Fertilizer & lime	22150	-500 3	2,200	23.850
Seeds & plants	6 350		600	7.050
Spray, other crop expense	5170		•	5.170
Real Estate				-,
Land, building, fence repair	2.500	200		2.704
Taxes	6240			6.24
Rent & lease	9250	x <u> </u>		8,12
Other				•
Insurance	7.000	x -/00 x		6,90
Telephone (farm share)	950	x - 25 x		
Electricity (farm share)	6750	xx		6,75
Interest	30,404	xx	3600	34,00
Inceresc Miscellaneous		^^		1,50
JT2CETTWIGOUS	1,500			···;•
TOTAL OPERATING	\$ <b>350,909</b>	5-4267	\$ 17,200	\$ 263,84
Expansion livestock	\$ <u>20000</u>	•	•	\$ 20,00
Purchase of other stock & certificat	,			\$20
				,
<u>Nonfarm Cash Expenses</u> Personal withdrawals & family expend				\$ <u>4812</u>

<sup>1</sup>Changes in prepaid exp. can be entered in x x spaces. Total change in prepaid exp. must equal the difference between prepaid exp. totals in Screen 9, page 6 (beg. year - end year). <sup>2</sup>Use Worksheet 7 on page 10 to calculate.

<sup>3</sup>Must calculate for completion of Screen 14.

"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 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 10, page 7. If any or all "Nonfarm Cash Income" has been excluded from the value entered in Screen 12, pg. 9, you must also exclude any family expenses paid from that income.

	sh unt Paid	+	ge in Inv repd exp		ange In cts Payabl		crual penses
Hired Labor FEED	\$ 10000		\$ 0	\$	0	\$	10000
Dairy Grain/Conc	\$ 84000		\$ -3800	\$	8000	\$	88200
Dairy Roughage	\$ 0		\$ 0	\$	0	\$	0
Nondairy Feed MACHINERY	\$ 0		\$ 0	\$	0	\$	0
Mach Hire/Rent/Ls	\$ 15245		\$ -350	\$	0	\$	14895
Mach repair/parts	\$ 7000		\$ -20	\$	800	\$	7780
	1000		\$ 0	\$	0	\$	1000
Fuel Oil & Grease	\$ 6250		\$ 28	\$	0	\$	6278
Replacement Lvstk	\$ 0		\$ 0 -	\$	0	\$	0
Breeding	\$ 5750		\$ 300	\$	0	. \$	6050
Vet & Medicine	\$ 9000		\$ 25	\$	2000	\$	11025
Milk Marketing	\$ 10000		\$ 0	\$	0	\$	10000
Cattle Lease	\$ 0		\$ 0	\$	0	\$	0
Other Lvstk Exp	\$ 5400		\$ 0	\$	0	\$	5400

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

Expenses		sh ount Paid			ge in Inv repd exp			-		Accrual Expenses
CROPS								<u> </u>		
Fertilizer/Lime	\$	22150		\$	-500		\$	2200	\$	23850
Seeds & Plants	\$	6350		\$	100		\$	600	\$	7050
Spray/Other Exp REAL ESTATE	\$	5170		\$	0		\$	0	\$	5170
Land/Bldg Repair	\$	2500		\$	200		\$	0	\$	2700
Taxes	\$	6240		\$	0		\$	0	\$	6240
Rent/Lease OTHER	\$	8250		\$	-125		\$	0	\$	8125
Insurance	\$	7000		\$	-100		\$	0	\$	6900
Telephone	\$	950		\$	-25		\$	0	\$	925
Electricity	5	6750		Ś	0		\$	0	Ś	6750
Interest Paid	\$	30404		\$	Ō		\$	3600	ŝ	34004
Miscellaneous	•	1500		\$	Ō		\$	0	Ś	1500
TOTAL	\$ 25	0909	\$	-1	4267	1	1	7200	\$ 26	53842
Expansion Lvstk.	\$	20000		\$	0		\$	0	\$	20000
Purchase of Other S NONFARM CASH EX			ficat	es	(exclude	Far	m C	redit)	\$	1200
Personal Withdraw			Evne	nd.	iturae				\$	48126

Screen #13

Farm No.46002

The final screen, Screen 14, contains the breakdown of crop expenses by crop. 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 and corn 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.

<u>Crop</u>	Accrual Fertilizer & Lime	Accrual Seeds & Plants	SCREEN 14. Accrual Spray, Other Crop Expenses
Hay crop (silage & dry)	•	\$ 2256	s <u>1,895</u>
Corn (silage & grain)	13,158	<u>4,794</u>	3,275
All other crops	0	Q.	0
Total	\$ <b>23,850</b> Totals a	\$ <b>7,050</b> bove must equal <u>accra</u>	<u>\$ 5,170</u> <u>ual</u> expenses
	in Scree		

BREAKDOWN OF 1992 ACCRUAL CROP EXPENSES BY CROP

Farm No.46002

Screen #14

BREAKDOWN OF 1992 ACCRUAL CROP EXPENSES BY CROP

Асси Стор		Fertilizer Lime		Seeds ants	-	pray, Other Expenses
Hay Crop (silage & dry) Corn (silage & grain)			\$ \$	2256 4794	\$ \$	1895 3275
All Other Crops	\$	0	\$	0	\$	0
TOTAL	T	23850 otals above ight column	must equ	al accr		5170 s in

#### V. Verify the data.

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  $\lrcorner$ . You will be asked for the farm number. Type:

46002 J (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 "Drala Dairyman", 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>.<sup>8</sup>

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

46002 ↓ (return/enter)

The following will be displayed on the screen<sup>9</sup>:

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 device: 10

- Type "S" to have the output be displayed on the screen. The output will scroll, so use [Control] - [num-lock]<sup>11</sup> 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: **Press (A)11 Pages, (D)iagnostics, (C)ash Flow, or number of 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 you last year's format of the Cash Flow Statement; and entering a number from 1 to 12 gives you that page number.

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

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

1991 FILE DOES NOT EXIST - SETTING VALUES TO 0 1990 FILE DOES NOT EXIST - SETTING VALUES TO 0

 $^{10} {\rm If}$  there is an I/O error F3 during calculation, follow the instructions in Appendix D.

<sup>11</sup>Hold down the [ctrl] key and press the [num-lock] key.

CORNELL COOPERATIVE EXTENSION Prepared by ** P R E L I DEPARTMENT OF AGRICULTURAL ECONOMICS CORNELL UNIVERSITY	MINA	RY**	**** * * * *
Name Do-right Dairy	. *	****	*
Address RD#1 Box 22	*	NY	*
Farmingville, NY	****	******	*
* * * * * PRELIMIN	<b>X D V +</b>	*	*****
1992 DAIRY FARM BUSIN		RY	
FARM NO. 46002 PROGRESS OF THE FARM	BUSINESS	JANUARY 18	3, 1993
SELECTED FACTORS	<u>1990</u>	1991	<u>1992</u>
Size of Business Avg # of cows Avg # of heifers Milk sold, lbs. Worker equiv. Total tillable acres	88 57 1538172 2.75 325	94 68 1690022 3.25 375	118 80 2150868 3.50 450
Rates of Production Milk sold per cow,lbs. Hay DM per acre,tons Corn silage per acre,tons	17479 2.2 14	17979 2.2 14	18228 2.2 15
Labor Efficiency Cows per worker Milk sold per worker,lbs.	32 559335	29 520007	34 614534
Cost Control Grain & conc. purch. as % milk sales Dairy feed & crop exp. per cwt. milk 9 Labor and mach. costs per cow Operating cost of producing milk	33% 5.87 938 10.49	33% \$5.81 \$1016 \$9.15	31% \$5.78 \$1028 \$10.32
Capital Efficiency (average for year) Farm capital per cow Machinery and equipment per cow Asset turnover ratio	\$  6946 \$  1925 0.42	\$ 6902 \$ 1816 0.44	\$ 6595 \$ 1647 0.48
Profitability Net farm income w/o apprec. Net farm income w/ appreciation Labor & management income per op/mgr Rate return on equity capital w/apprec Rate return on all capital w/apprec.	\$ 9865 \$ 50615 \$ -5500 \$ 2.0% 4.2%	\$ 56699 \$ -943 2.4%	\$ -6158 -0.2%
Debt to asset ratio	0.41 \$2929 0.45	\$ 2817 0.60	\$ 551040 0.35 \$ 2339 1.28

FARM NO. 46002

Do- right Dairy XPENSES	Amc	INCOM Cash ount r			Cha	ange in			nge in		
	Amc				Tns	· • • + • • • • •		3 ~ ~			
	Amc	ount r				ventory		-	ounts		ccrual
ired Labor		-	aid	+		Prepaid (pense*	+	Pay	able**	= E	xpenses
TTER DANAT	\$	1000	0		\$	0<<		\$	0	\$	10000
reed											
Dairy grain & conc.		8400	0			-3800			8000		88200
Dairy roughage			0			0			0		0
Nondairy			0			0			0		0
achinery											
Mach hire, rent/lease		1524				-350<<			0		14895
Machinery repairs/parts	5	700				-20			800		7780
Auto expense (f.s.)		100				>>0			0		1000
Fuel, oil & grease		625	50			28			0		6278
ivestock						-					_
Replacement livestock			0			>>0			0		0
Breeding		575				300			0		6050
Veterinary & medicine		900				25			2000		11025
Milk marketing		1000	-			0<<			0		10000
Cattle lease/rent		<b>E</b> 4 (	0			0<<			0		0
Other livestock expense	9	54(	0			0			0		5400
rops		001				500					00050
Fertilizer & lime		2215				-500			2200		23850
Seeds & plants		635 517				100 0			600 0		7050 5170
Spray, other crop exp.		51	0			U			U		5170
eal Estate		054							0		0700
Land/bldg/fence repair		250				200			0		2700
Taxes		624				0<<			0		6240
Rent & lease		825	50			-125<<			0		8125
ther						10044			•		<b>6000</b>
Insurance		700				-100<<			0		6900
Telephone (farm share)			50			-25<<			0		925
Electricity (farm share	2)	675				>>0			0		6750
Interest paid		3040				>>0			3600		34004
Miscellaneous		150	00			0			0		1500
TOTAL OPERATING	\$	25090	9		\$	-4267		\$	17200	\$	263842
xpansion livestock	\$	2000	00		\$	0<<		\$	0	\$	20000
lachinery depreciation										\$	27300
uilding depreciation										\$	8320
TOTAL ACCRUAL EXPENSE	ES									\$	319462
Changes in inventory inclusion in the second	lude	e nēt	amo	unt	ts	of items	u	sed	out of	pur	chased

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.

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JANUARY 18, 1993

FARM NO. 46002	INCOME STATEMENT	( co	ntin	(beu	JANUARI	18,	, 1993
		•		Cha	nge in		
DECEIDEC	Cash Change				ounts		crual
RECEIPTS Milk sales	Receipts + Invento \$ 279615	JLY	<u> </u>		$\frac{10010}{2400} =$		ceipts 282015
Dairy cattle	21420 \$ 3468	80		¥	-2000	Υ 4	54100
Dairy calves	2280				-250		2030
Other livestock	0 96	00			0		9600
Crops	600 237				0		24359
Gov <sup>7</sup> t receipts	3250 -200	00*	*		0		1250
Custom machine work	150				0		150
Gas tax refund	250				0		250
Other	200	~ ^ +	<b>.</b>		0		200
-Noncash capital transf	er (-) 300	207	**	ċ	150	-)	
TOTAL ACCRUAL RECEIPTS *Change in lvstk inv. w							343954
**Change in advanced go	vernment receipts		nge .	ru d	JIOWII IEEU	5 11	
***Gifts & inheritances	of cattle & crops	to	the <sup>·</sup>	farm	business	_	
	PROFITABILITY	ANA	LYSI	S	<u> </u>	<u> </u>	
	DINITY INDOD				Appreci-		
RETURN TO OPERATOR(S) &	FAMILY LABOR	:	Appr	ec.	+ ation	= [	Apprec.
UNPAID, MGMT., & EQUITY Total Accrual Receipt	CAPITAL:	Ċ	343	951			
Livestock Appre		Ŷ	545	9.54	\$ 18300		
Machinery Appre					1750		
Real Estate App					7520		
	t. Appreciation				-1000		
						\$	370524
- Total Accrual Expense	S	Ş	319				319462
= NET FARM INCOME		Ş	24	492		\$	51062
RETURN TO OPERATOR (S) L	ABOR .						
MANAGEMENT & EQUITY CAP	PITAL:						
Net Farm Income		\$	24	492		\$	51062
- Family Labor Unpaid @	\$1350/mo.		12	150		-	12150
= RETURN TO OP.'S LABOR	, MGT. & EQ. CAPITA	L\$	12	342		\$	38912
	·						
RETURN TO OPERATOR'S LA		- →					
Return to Op.'s Labor	, Mgt. & Eq. Capita	τ\$	12	342			
- Real Interest on \$ 49			24	650			
Equity Capital @ 5% = LABOR & MANAGEMENT IN	COME	ć	-12	658			
LABOR & MANAGEMENT IN				158		•	
HADOR & MANAGEMENT IN	C. I II. 2.00 01.7MG	κ. γ	0	100			
RETURN TO EQUITY CAPITA	L:						
Return to Op.'s Labor		\$	12	342		\$	38912
- Value of Operator's I	abor & Management			000		-	40000
= RETURN TO EQUITY CAPI		\$	-27			\$	
Rate of Return on Equ	ity Capital		-5	.6%			-0.2%
RETURN TO ALL CAPITAL:	-						
Return to Equity Capi	tal	Ś	-27	658		\$	-1088
+ Interest Paid		4		004		Ŷ	34004
= RETURN TO ALL CAPITAL	J Company and the second se	\$		346		\$	32916
Rate of Return on All	-	T		0.89	Ś	т	4.2%
					·		

FARM	NO. 4	6002
Do-	right.	Dairy

ASSETS

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**1992 BALANCE SHEET** 

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FARM BUSINESS LIABILITIES & NET WORTH Jan. 1 Dec. 31 Current Jan

ADDELD Tom 1	Dec. 21	Current Ten 1 Dec 21		
Jan. 1	Dec. 31	Current Jan. 1 Dec. 31		
Current		Accounts payable \$ 9000 \$ 26200		
Farm cash, chkg		Operating debt		
<b>&amp; savings \$ 20000</b>	\$ 5000	Farm Credit3 16000 15000		
Accts. rec. 20575	20725	0 0		
Prepaid exp. 200	800	Short term:		
Feed/supplies 59849	87275	0 0		
recu/suppries 55045	07275	0 0		
	<b>* * * * *</b>			
<b>Total \$ 100624</b>	\$ 113800	Advanced Gov. Rec. 0 2000		
		Total \$ 25000 \$ 43200		
Intermediate				
Dairy cows:		Intermediate		
owned 90160	129540	First Bank 31000 43000		
leased 0	0	Farm Credit2 30000 33000		
Heifers 47500	60500	_ • _		
	80500			
Bulls/other		0 0		
lvstk. 0	10200	0 0		
Mach/eq owned 185000	195000	0 0		
Mach/eq leased 5073	3613	0 0		
FCB Stock 6950	7250	Financial lease		
Other stock		(cattle/mach.) 5073 3613		
	2200			
& cert. 3000	3200			
<b>Total \$ 337683</b>	\$ 409303	<b>Total \$ 115023 \$ 125863</b>		
Long-Term		Long-Term		
Land/buildings:		1st Bank Mtg 73000 70000		
owned 270000	325000	Farm Credit1 60000 58000		
leased 0	0			
Total \$ 270000	\$ 325000 <sup>°</sup>	ő ő		
10Cal \$ 270000	\$ 525000			
		Fin. lease (struc) 0 0		
Total Farm		Total \$ 133000 \$ 128000		
Assets \$ 708307	\$ 848103	Total Farm Liab. \$ 273023 \$ 297063		
		FARM NET WORTH \$ 435284 \$ 551040		
NONFARM				
Jan. 1	Dec. 31	Jan. 1 Dec. 31		
Nonfarm Assets	0000 01	Nonfarm Liab. \$ 0 \$ 0		
Pers cash, chkg.				
& savings \$ 2000	) \$ 2100			
Cash value of				
life ins 3000	) 3100			
Nonfarm RE (				
Auto (pers sh) 2000	1500			
Stocks & Bonds				
Hshld. furn. 5000				
All other 8000				
Total Nonfarm \$ 20000		NONFARM NET WORTH \$ 20000 \$ 39400		
	FARM	& NONFARM		
		Total Farm &		
		Nonfarm Liab. \$ 273023 \$ 297063		
Total Farm &		FARM & NONFARM		
Nonfarm Assets \$ 728307	<u>&gt; 88/503</u>	NET WORTH \$ 455284 \$ 590440		

**JANUARY 18, 1993** 

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# BALANCE SHEET ANALYSIS

5

	DALAN	CE SHEET ANALYSI	<u></u>	
Financial Ratios		<u>Farm B</u>	Business Far	m & Nonfarm
Percent equity			65%	678
Debt to asset ratios:	Total Long-ten Intermed	rm diate/current	0.35 0.39 0.32	0.33
Debt Analysis				
Accounts payable as %	of total	debt	9%	
Long-term debt as a %	of total	debt	43%	
Current & intermediate	e debt as	<pre>% of total debt</pre>	57%	
Debt Levels		Per Cow	Per Tillable Acre Owned	_
Total farm debt		\$ 2339	\$ 990	
Long-term debt		1008	427	
Intermediate/current		1331	564	
Farm Inventory	Real <u>Estate</u>	Machinery & Equipment	Livestock	Feed & Supplies
Beginning of Year \$	270000	\$ 185000	\$ 137660	\$ 59849
Purchases	7500*	31300		
+ Noncash Transfer to Farm	80000	10500		
- Lost Capital	2200			
- Net Sales	29500	6250		
- Depreciation	8320	27300		
= Net Investment	47480	8250	44280**	
Appreciation	7520	1750	18300	
End of Year \$	325000	<b>\$ 195000</b>	\$ 200240	\$ 87275

See page 10, Dairy Inventory Analysis, for dairy cow and heifer inventory detail. . .

STATEMENT OF OWNER EQUITY (R	ECONCILIATION)	
	<u>F</u>	arm Business
Beginning of year farm net worth		\$ 435284
Net farm income without appreciation	\$ 24492	
+ Nonfarm cash income	+ 12520	
- Personal withdrawals and family expenditure	s - <u>48126</u>	_
RETAINED EARNINGS	=	+\$ -11114
Nonfarm noncash transfers to farm	\$ 120500	•
+ Cash used in business from nonfarm capital	+ 2000	)
- Note/mortgage from farm real est. sold (non	farm) - <u>20000</u>	2
CONTRIBUTED/WITHDRAWN CAPITAL	=	+\$ 102500
Appreciation	\$ 26570	)
- Lost capital	2200	2
CHANGE IN VALUATION EQUITY	=	+\$ 24370
IMBALANCE/ERROR		- <u>\$</u> 0
End of year farm net worth		=\$ 551040
Change in net worth with appreciation		\$ 115756
Change in Net Worth	Farm Business	Farm & Nonfarm
Without appreciation	\$ 89186	• • • • • • •

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).

\$ 115756

\$ 135156

With appreciation

35

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7 ANNUAL CASH FLOW STATEMENT

Cash Flow From Operating Activities		
Cash farm receipts - Cash farm expenses = Net cash farm income	\$ 307765 250909	\$ 56856
Nonfarm income - Personal withdrawals/ family expenses, including nonfarm debt payments + Net cash nonfarm income	12520 48126	<u>\$ -35606</u>
Net Provided by Operating Activities		\$ 21250
Cash Flow From Investing Activities		
Sale of assets: machinery + real estate + other stock/cert. = Total asset sales	\$ 6250 9500 0	\$ 15750
Capital purchases: expansion livestock + machinery + real estate + other stock/cert. - Total invested in farm assets	\$ 20000 31300 7500 1200	<u>\$ 60000</u>
Net Provided by Investing Activities		\$ <b>-</b> 44250
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	\$ 20000 0 2000 0	<b>\$</b> 22000
Principal payments (inter. & long-term) + Principal payments (short-term) + Decrease in operating debt - Cash outflow for financing	\$ 13000 0 0	<u>\$ 14000</u>
Net Provided by Financing Activities		\$ 8000
Cash Flow From Reserves		
Beginning farm cash, checking & savings - Ending farm cash, checking & savings		\$   20000 5000
Net Provided from Reserves		\$ 15000
Imbalance (error)		\$0

FARM NO. 46002

REPAYMENT ANALYSIS

8

**JANUARY 18, 1993** 

Debt Payments		Planned or 1992*	_	Made in 1992		Planned for 1993
Long term	\$	16644	\$	15456	\$	15456
Intermediate term		21804		21948		21948
Short-term		0		0		0
Operating (net reduction)		2000		1000		4000
Accounts payable (net reduction)		0		0		1000
Total	\$	40448	\$	38404	\$	42404
(% made of planned = 95%)						
Per cow	\$	343	\$	325		
Per cwt. 1992 milk	\$	1.88	\$	1.79		
Percent of total 1992 receipts		12%		115	8	
Percent of 1992 milk receipts		14%		14	\$	
* If on Business Summary in 1991.						
Cash Flow Coverage Ratio						
Cash Farm Receipts	\$	307765				
- Cash Farm Expenses		250909				
+ Interest Paid		30404		•		
- Net Pers. Withdls from Farm	**	35606				
(A) = Amount Available for Debt S	ervi	.ce		\$	51654	
(B) = Debt Payments Planned for 1	992			\$	40448	
(A / B) Cash Flow Coverage Ratio	for	1992			1	.28

\*\* Personal withdrawals & family expenditures less nonfarm income and nonfarm money borrowed. FARM NO. 46002

CROPPING PROGRAM ANALYSIS

9

# **JANUARY 18, 1993**

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Land	Owned		Ren	ted		Total
Tillable	300			150		450
Nontillable	10			10		20
Other nontillable	65			5		70
Total	375			165		540
			<b>m</b> -	± - 1	Dece let	
Omen Vielda		1		tal	Produc	
Crop Yields		Acres		uction Tons DM	<u>Per</u>	Acre
Dry hay				Tons DM		
Hay crop silage	tion	300		Tons DM	2 16	Tong DW
Total Hay Crop Product Corn silage	CION	70		Tons	14.64	Tons DM
corn sirage		70		Tons DM		Tons DM
Other forage		10		Tons DM		Tons DM
Total Forage		380		Tons DM		Tons DM
Corn grain		70		Bushels		Bushels
Oats		0		Bushels		Bushels
Wheat		Ő		Bushels		Bushels
Other crops		0	0	Dubilerb	0.00	Dubiters
Tillable pasture		Ő				
Idle tillable land		õ				
Total tillable acres		450				
Crop Related Accrual Ex	penses					
Total/		Crop			Corn	Corn Grain
Till.		Per	— All	Corn	Silage/	Per Dry
Crops Acre				Acre	Ton DM	Shell Bu.
Fert. & lime \$ 53.00			.50 \$	93.99 \$	18.33	\$ 1.01
Seeds & plants 15.67	7.5	23	.48	34.24	6.68	0.37
Spray/other						
crop expense 11.49	6.3		.92	23.39	4.56	0.25
Total Crop \$ 80.16	\$ 49.4	8 \$ 22	.91 \$ 1	.51.62 \$	29.56	\$ 1.63
		<b>m</b> - <b>b</b>	- 7		D	
Machinery		<u>Tot</u>		<u> </u>		able Acre
Fuel, oil & grease	_	\$ 62				3.95
Machinery repair & part			80			7.29
Machine hire, rent & le		148			-	3.10
Auto expense (farm shar	e)	10				2.22
Interest (5%)		95			_	1.11
Depreciation		273				0.67
<u></u>		\$ 667	<u> 23</u>		\$ 14	8.34
Crop/Cow Factors						
Total Tillable Acres pe	r Cow		3.81			
Total Forage Acres per			3.22			
Harvested Forage Dry Ma		Cow	8.67			
	The bor		0.07			

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FARM NO. 46002		JANUARY	18, 1993
Dairy Inventory DAL	RY ANALYSIS	Heifers	
Dairy Cows	Bred	Open	Calves
No. Value	No. Value	No. Value	No. Value
Beg. of Year 98 \$ 90160	20 \$ 18000	25 \$ 17500	30 \$ 12000
+ Change in Inv.			_
(w/o apprec.) 26680	4500	3500	0
+ Appreciation 12700 = End of Year 127 \$ 129540	1250	1500 30 \$ 22500	2250 30 \$ 14250
Total End	25 \$ 23750	30 \$ 22500	30 \$ 14250
(incl. leased) 127			
Average Number 118	80 All Age	Groups	
	· ···· <b>·</b>		
Milk Production			
	2150060	1	
Total milk sold Milk sold per cow	2150868 18228		
Average milk plant test		<pre>% butterfat</pre>	
moraye min plane cooc	5.00		
Accrual Receipts From Dairy	<u>Total</u>	Per Cow	Per Cwt.
	<b>A</b> 000015	<b>A A A A A A A A A A</b>	<b>A A A A</b>
Milk Dairy cattle (including culls)	\$ 282015 54100	\$ 2390	\$ 13.11
Dairy calves	2030	458 17	2.52 0.09
Daily Calves	2030	17	0.09
Total	\$ 338145	\$ 2866	\$ 15.72
Accrual Cost of Producing Milk -			
Whole Farm Method			
Operating cost of producing milk	\$ 221903	\$ 1881	\$ 10.32
Total cost of producing milk			
excluding operator's labor,	260672	0005	
management & capital Total cost of producing milk	269673 334331	2285 2833	12.54 15.54
Total cost of producing milk	22422T	2033	10.04
Dairy Related Accrual Expenses			
Purchased dairy grain	•	•	
& concentrates	\$ 88200	\$ 747	\$ 4.10
Purchased dairy roughage	0	0	0.00
Total Purchased Dairy Feed Purchased grain & concentrates	88200	747	4.10
as % of milk receipts	31%	•	
Purchased feed & crop exp.	\$ 124270	\$ 1053	\$ 5.78
Purchased feed & crop exp.			·
as % of milk receipts	44%	<b>.</b> .	<b>•</b>
Breeding Vebening	\$ 6050	\$ 51	\$ 0.28
Veterinary & medicine	11025	93	0.51
Milk marketing Cattle lease	10000 0	85 0	0.46 0.00
Other livestock expense	\$ 5400	\$ 46	\$ 0.25
		T • •	T

D.H.I, HERRINGBONE PAR, FREESTALL, 2 TIMES/DAY.

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FARM NO. 46002

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JANUARY 18, 1993 CAPITAL & LABOR EFFICIENCY ANALYSIS

<u>Capital Efficiency</u> (	Average for	Year)		•
	<u>er Worker</u> 222344 55527	\$ <u>Per Cow</u> \$ <u>6595</u> 2521 1647	Per Tillabl <u>Acre</u> \$ 1729 432	e Per Tillable <u>Acre Owned</u> \$ 2594 992
Asset Turnover Ratio	0.48	ł		
Labor Force	Months	Age	Years of Education	
Operator number 1 Operator number 2 Family paid Family unpaid Hired	12 12 9 9 0	42 31	15	
Total	42 / 1		Worker Equiv Operator/Mar	valent nager Equivalent
Labor Efficiency				
	Tot	al	Ī	Per Worker
Cows, average no. Milk sold, lbs. Tillable acres Work units	1 21508 4	.18	Ī	Per Worker 34 614534 129 366
Milk sold, İbs. Tillable acres	1 21508 4 12	18 668 50	<u>Per Cow</u>	34 614534 129
Milk sold, İbs. Tillable acres Work units	1 21508 4 12 <u>1</u> 1)* \$	18 668 50 882	-	34 614534 129 366
Milk sold, İbs. Tillable acres Work units <u>Labor Cost</u> Value of Operator(s) Labor (\$1350/month Family unpaid (\$1350	1 21508 4 12 <u>1</u> 1)* \$	18 68 50 82 Cotal 32400 12150	<u>Per Cow</u> \$ 275 103	34 614534 129 366 <u>Per Till Acre</u> \$ 72.00 27.00
Milk sold, İbs. Tillable acres Work units <u>Labor Cost</u> Value of Operator(s) Labor (\$1350/month Family unpaid (\$1350 Hired	1 21508 4 12 <u>1</u> 1)* \$ /month)* \$	18 68 50 882 Potal 32400 12150 10000	Per Cow \$ 275 103 85	34 614534 129 366 <u>Per Till Acre</u> \$ 72.00 27.00 22.22

\* When comparing to previous years data, please note 1989 constants used in calculations were \$1050/month for the Value of Operator(s) Labor and \$750/month for Unpaid Family Labor. In 1990, the Value of Operator(s) Labor and Unpaid Family Labor were both \$ 1,250/month and in 1991 they were both \$1300/month.

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C 1 NO. 40002

FARM NO. 46002

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12 ANNUAL CASH FLOW WORKSHEET

**JANUARY 18, 1993** 

Ttom	_ ] 7	Receipt	or	Expense	Expecte	
<u>Item</u>		<b>Fotal</b>		Per Cow	Change	Projection
Average Number of Cows		118				
ACCRUAL OPERATING RECEIPTS						
Milk	\$	282015		\$2389.96		\$
Dairy cattle	•	54100		458.47		
Dairy calves		2030		17.20		
Other livestock		9600		81.36		
Crops		24359		206.43		
Miscellaneous receipts		1850		15.68		
Total	\$	373954		\$3169.10		- ş
ACCRUAL OPERATING EXPENSES	<b>A</b>			<b>•</b> • • • • •		•
Hired labor	\$	10000		\$ 84.75		_ \$
Dairy grain & concentrate		88200		747.46		
Dairy roughage		0		0.00		
Nondairy feed		0		0.00		
Machine hire/rent/lease		14895		126.23		
Mach.repair/parts & auto		8780		74.41		
Fuel, oil & grease		6278		53.20		<b>_</b>
Replacement livestock		0		0.00		
Breeding		6050		51.27		
Veterinary & medicine		11025		93.43		
Milk marketing		10000		84.75		
Cattle lease		0		0.00		
Other livestock expense		5400		45.76		
Fertilizer & lime		23850		202.12		
Seeds & plants		7050		59.75		
Spray/other crop expense		5170		43.81		
Land, bldg., fence repair		2700		22.88		
Taxes		6240		52.88		
Real estate rent/lease		8125		68.86		_
Insurance		6900		58.47		
Utilities		7675		65.04		
Miscellaneous		1500		12.71		
Total Less Interest Paid	\$	229838		\$1947.78		\$
NET ACCRUAL OPERATING INCO						
(w/o interest paid)	2	144116		\$1221.32		\$
- Change in lvstk/crop inv	¥	36039		305.42		_ Y
- Change in accounts rec.		150		1.27		<b></b>
+ Change in feed/supply in		-4267		-36.16		
+ Change in accts. payable	v tr	13600		115.25	<del></del>	
NET CASH FLOW	د	117260		\$ 993.73		– c <sup></sup>
- Net personal withdrawals	ŝ	11/200		¥ 333.73		<u> </u>
family expenditures	u	35606		301.75		
Available for Farm Debt		22000		201.12		
	\$	01654		\$ 601 00		ć .
Payments & Investments	Ş	81654		\$ 691.98		<sup>&gt;</sup>
- Farm debt payments**	e,	38404		325.46		- c <sup></sup>
Avail. for Farm Investment		43250		\$ 366.53		_
- Capital purchases; cattle	2,	60000		500 47		
machinery, improvements		60000		508.47		
Additional Capital Needed * Less change in account pa						<u> </u>

FARM NO. 46002 JANUARY 18, 1993 MACHINERY & EQUIPMENT INVENTORY FEED AND SUPPLY INVENTORY 2.Feed & supply inventory increase > 25%. LIVESTOCK INVENTORY REAL ESTATE INVENTORY LIVESTOCK & BUSINESS DESCRIPTION LABOR ASSETS AND LIABILITIES FINANCIAL LEASES RECEIPTS **EXPENSES CROP EXPENSE BREAKDOWN** 13.Total crop expense per acre of corn is > \$150 or < \$50, = \$ 151.62. MANAGEMENT PERFORMANCE MEASURES \*.Net farm income w/appreciation = \$ 51062. \*.Labor & management income/operator < \$0 or > \$30,000 = \$ -6158. \*.Rate return on equity capital w/o appreciation = -5.6. \*.Rate return on equity capital w/appreciation = -0.2. \*.Cash flow coverage ratio < .8 or > 1.2, = 1.28. \*.Cash inflow = \$ 378035, Cash outflow = \$ 378035, Imbalance =\$ 0. OTHER Farm coded irregular. Dairy Farm Full-Time Farm OWNER

# Optional Cash Flow Statement FARM NO. 46002

ANNUAL CASH FLOW STATEMENT

# **JANUARY 18, 1993**

\$ 378035

# Cash\_Inflows

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Beginning farm cash, checking & savings	\$ 20000
Cash farm receipts	307765
Sale of assets: Machinery Real estate Other stock & certificates	6250 9500 0
Money borrowed (intermediate & long-term)	20000
Money borrowed (short-term)	0
Increase in operating debt	0
Nonfarm income	12520
Cash from nonfarm capital used in business	2000
Money borrowed - nonfarm	0
TOTAL	

# Cash Outflows

Cash farm expenses	\$ 250909	
Capital purchases: Expansion livestock Machinery Real estate Other stock & certificates	20000 31300 7500 1200	
Principal payments (intermediate & long-term)	13000	
Principal payments (short-term)	0	
Decrease in operating debt	1000	
Personal withdrawals & family expenditures, including nonfarm debt payments	48126	
Ending farm cash, checking & savings	5000	
TOTAL		\$ 378035
Imbalance (error)		\$ 0

# 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 48 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.

## 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  $\downarrow$  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.>.92) 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 A and insert a blank, formatted diskette. To review the data files on your data diskette, type:

DIR B: J (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:\ 46002 910 331 1-08-93 2.24-

46002	910	331	T-08-93	2:34p
46002	900	270	1-08-93	2:34p
46002	92	8809	1-15-93	8:29a
	3 File	(s)	61440 bytes	free

The 1992 farm record files entered in 1993 will have file extensions of .92. The sample farm is file 46002.92.

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 PCXXXX<sup>12</sup> 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 Ø1 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/Ø 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:

Message	<u>Interpretation</u>	<u>Solution</u>
Program won't recognize a farm record file	File extension (year, example .92) 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 46002 to a new diskette, remove the DFBS program diskette from drive A and insert a blank, formatted diskette. Then type:

COPY B:46002.\* A:↓

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.

"Machinery owned but no machinery depreciation."

Page No. of Check-In Form

#### MACHINERY AND EOUIPMENT INVENTORY

1.

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]</pre>

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

2. "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.

"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 11 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, = \$\_\_\_\_."</p>

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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 4). 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 4). 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 operators labor = n months." (When n
> 12)

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. "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  $\leq$  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

\_\_\_\_.\*

\_\_\_\_.\*

\_\_\_\_.**"** 

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.

ASSETS AND LIABILITIES

7. "Scheduled debt payments > 0.35 of milk sales = \_\_\_\_\_%."

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

7. "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.

7. "Farm net worth < 0.30 of farm capital. NW = \_\_\_\_\_."

Farm net worth is lower than normal (Screen 10). Check all calculations for accuracy. Falling asset values and increased borrowing may have contributed.

7. \*Debt per cow > \$3,500 = \$\_\_\_\_\_.\*

Debt per cow is above average. Check for accuracy of data (Screens 6 and 10).

7. \*Accounts receivable < 5% of milk sales.\*

The December milk check may not have been included as an account receivable (Screen 12). Check to see if all accounts have been included.

ι.

7. "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 10). Check to see if this is correct.

7. "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.

7. "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 10).

7. "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 10).

7. •Short-term planned payments > 120% of short-term debt.•

Short-term planned payments are higher than expected. Check for accuracy of entries (Screen 10).

7. "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 10). Check to see if interest is included.

7. "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 10). Check to make certain interest and penalties have not been included.

7. \*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 10). Check to make certain the data are accurate.

7. "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 10).

7. "Amount of money borrowed entered (\_\_\_\_\_) does not equal calculated money borrowed (\_\_\_\_\_)."

If a value was entered in the "amount of new borrowings" column (Screen 10), 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 10).

# FINANCIAL LEASES

8. Leases cattle but no lease expense.

Cattle are leased (Screen 11) 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.

8. "Leases equipment but no lease expense."

Equipment is leased (Screen 11), 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.

8. "Leases structures but no lease expense."

Structures are leased (Screen 11), 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.

RECEIPTS

9. "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).

9. "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).

9. "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.

9. 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.

- 9.
- "Government receipts, other receipts or miscellaneous receipts > \$5,000."

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. 9.

"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 & 9 "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**

11.

"Hired labor expense < \$600 or > \$2,000 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 & 11 "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.

11. "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".

11. "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.

11. "Farm liabilities > \$0 but no interest expense, liabilities = \$\_\_ 

> Farm liabilities exist (Screen 10), 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.

11. "Interest expense on page 11 does not equal interest payments on page 7."

The total farm liability interest (Screen 10) does not equal cash

interest expense (Screen 13). Check to see if data was collected and entered correctly. These two totals must be identical.

11. "Cattle lease expense > \$0, but no lease information."

Cattle lease expense is reported (Screen 13), but lease information is missing (Screen 11). Record the information on Screen 13 once the existence of an actual lease has been verified.

11. "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.

11. "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.

6 & 11 •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.

7 & 11 "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 10 does not equal the total accounts payable change on Screen 13. There must be a data acquisition or data entry problem.

11. "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).

11. "Total cost of producing milk is < \$10 or > \$16/cwt., =
\$\_\_\_\_\_."

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.

9 & 11 "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.

9 & 11 "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.

> 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.

9 & 11 "Grain and concentrate as % milk unusually low or high. Value is
n%." (When n < 10% or > 40%)

Feed purchases as a percent of milk sales is outside the normally expected range. Check feed purchases (Screen 11) for accuracy, check to see if crop yields are high and/or a large number of crop acres per cow exists.

9 & 11 Rate of return on equity capital w/o appreciation = n%." (When n  $\leq 0$ % 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.

- 7, 9, & 11
- "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.

7.

"Debt to asset ratio < 0.3, = \_\_\_\_\_."

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

7, 9, & 11 "Cash flow coverage ratio < 0.8 or > 1.2."

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

7, 9, & 11 "Cash inflow = \$n, cash outflow = \$n, imbalance = \$n"

These values are printed for all farms.

## CROP EXPENSES

13. 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.

13. "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.

13. "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.

13. "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

# 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. The processing number will be assigned at Cornell if the data are to be entered on the computer at Cornell. If entering the data in the county, use the list of processing numbers provided by Cornell to assign numbers to new cooperators and to confirm numbers used for continuing cooperators.

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.

# Worksheet 2. Machinery and Equipment Sold or Destroyed (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 1992 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.

# Worksheet 3. Grown Feed Inventory Worksheet (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.

## Worksheet 4. Land and Buildings Purchases and Sales (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.

- c) Building depreciation from 1992 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 1992	= 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 1992" would then equal \$24,000.

The calculated value, "net cash amount received in 1992", 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.

- 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>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; or, check "other" if a portion of the herd was milked three times a day or the total herd was milked three times a day for part of the year.

## <u>Screen 7, Labor Inventory</u> (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 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 excluded 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 =  $\frac{No. hours/week \times 4.3 weeks/month}{230 hours}$  x No. months worked

# 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.

# 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. The measure of production of the roughages is the total tons of dry matter. The intermediate columns of total production and percent dry matter 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. The total of all of the acres in each of these 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. Farm Family Financial Situation - Liabilities (page 7)

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 1992, and the planned payments for 1993. 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 11.

The "Amount of New Borrowings" column is optional input. If the amount of money borrowed in 1992 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 1992, use of the "Amount of Debt Refinanced" column will help you arrive at more accurate values for "Amount of New Borrowings" and "Actual 1992 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 1992 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 10 and interest expense, Screen 13), and enter the interest amount as money borrowed. Enter planned payments for 1993. 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 1992 (7th column) should equal the interest expense entered in Screen 13, page 11.

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 11.

See the footnotes at the bottom of page 7 of the check-in form for additional guidelines to completing this section.

## Screen 11. Financial Leases (page 8)

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 11. 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 8)

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 9. 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, 1992) from the end of year balance (December 31, 1992) 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, 1992" in Worksheet 6 must equal the value in Screen 9, page 6 for "Accounts Receivable, December 31, 1992". The total of the column "Balance, January 1, 1992" in the worksheet must equal "Accounts Receivable, January 1, 1992" 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 9. See the bottom of page 8 of the check-in form for further guidelines to recording changes in accounts receivable.

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# <u>Screen 12.</u> Summary of 1992 Receipts and Changes in Inventory and Accounts <u>Receivable</u> (page 9)

Record the 1992 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 10 (advanced government receipts). Use Worksheet 6 on page 8 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 9 of the check-in form for further guidelines to recording the farm and nonfarm receipts.

#### Worksheet 7. Changes in Operating Accounts Payable (page 10)

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 11. If there are no operating accounts payable, do not use the worksheet, go directly to Screen 13 on page 11. 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 12/31/92" in Worksheet 7 must equal the value in Screen 10, page 7 for "Accounts Payable, December 31, 1992". The total of the column "Balance 1/1/92" in the worksheet must equal the value in Screen 10 for "Accounts Payable, January 1, 1992". 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 11. See the bottom of page 10 of the check-in form for further guidelines to recording changes in accounts payable.

# Screen 13. Summary of 1992 Expenses and Changes in Inventory and Accounts Pavable (page 11)

Record the 1992 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 10 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 10, page 7. 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 9, you must also exclude any family expenses paid from that income.

See page 12 of the check-in form for further guidelines to recording farm expenses.

## Screen 14. Breakdown of 1992 Crop Expenses by Crop (page 13)

Record the breakdown of crop expenses for hay crop, corn, and other crops in Screen 14. The "Total" line at the bottom of the screen must equal the <u>accrual</u> expenses on Screen 13, page 11, 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> - <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 two lines of the screen for hay crop and corn.

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. DFBS DATA CHECK-IN FORM

APPENDIX B

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

Name	County	SCREEN 1.
Address	Proc. number	Year 1992
Phone no	( )complete, ( )entered, ( Update Screens:	)ready

# WORKSHEET 1. MACHINERY & EQUIPMENT PURCHASED

Description	value of	Market value of new item <sup>1</sup>	Remove	
	\$ \$	\$		
	 		·	
	 			· · · · · · ·
TOTAL MACH. & EQUIP. PURCHASED	\$ 			

<sup>1</sup>Loss 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 <u>Received</u>	Removed fromInventory?
	\$	\$	
TOTAL MACHINERY & EQUIPMENT SOLD	s		

MACHINERY & EQUIPMENT INVENTORY	& DEPRECIATION	(do not include leased it	SCREEN ems)	2.
Beginning of Year Inventory Machinery & Equipment Purchased Noncash Mach. Transfer to Farm (e.g., gifts/inheritances) Machinery & Equipment Sold 1992 Tax Depreciation <sup>2</sup>	\$ + +	End of Year Inventory .	\$	
Total Beginning Inventory After Machinery Appreciation (end less		er changes)	\$	· · ·

<sup>2</sup>Exclude buildings and cattle from ACRS depreciation.

<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.

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[Proc. no. \_\_\_\_\_

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WORKSHEET 3. GROWN FEED INVENTORY WORKSHEET

Name

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

	Jan	uary 1.	1992	Dece	mber 31.	1992	
		\$ per			\$ per	Total	
Item	Quant.	x Unit	<u>- Value</u>	Quant.	x Unit	<u>- Value</u>	
GROWN FEEDS:							
Corn-HMSC		\$	\$		\$	\$	
Corn-HMEC							
Corn-dry,							
Oats	_						
Wheat				_			
0ther							
Dry hay		\$	\$		\$	\$	
Hay crop silage							
Corn silage							
Other					<u></u>		
			Total			Total	
			+ _			+	
FEED & SUPPLY INVE.	<u>NTORY</u>		t			ţ	SCREEN 3.
			t			ţ	Inventory Change <sup>1</sup>
Total Grown Feeds			\$			\$	\$
PURCHASED FEEDS: (u	se p.12	defini	tions)				
Dairy grain & conc					<b>x</b>	<b>-</b> \$	
Dairy roughage			·			·	
Nondairy feed							
<u>SUPPLIES</u> :			<b>^</b>			•	<u>^</u>
Machine: Parts		<b>x</b>	-\$	• • • • •	<b>x</b>	=\$	\$
Fuel, oil, grease		• • • • •		• • • • •			
Livestock: Semen	• • • • • •			• • • • •	• • • • •		
Vet. supplies	• • • • • •		<u> </u>	•••••	• • • • •		
Other supplies	• • • • • •			• • • • • •	• • • • •		
Crops: Fertilizer Seeds	• • • • • •			• • • • • •	• • • • •		
	• • • • • •			• • • • •	• • • • •		
Pesticides/Other	• • • • • •			• • • • • •			
Land/Bldg./Fence:	• • • • • •			• • • • • •			
Other:		• • • • •	<u> </u>	• • • • •	• • • • •	<u> </u>	]
Total Feed & Suppl	1 <i>es</i>		Ŷ			Ŷ	

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

WORKSHEET 4. LAND & BUILDING PURCHASES & SALES

New Purchases & Capita	l Improvem	Sale Price		
Description	Cost	Lost Capital	Description	/Amount Received
Land:	\$	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Capital Sales:	\$
Total Land Purchases Buildings & Land Improve.	2\$			
	\$	\$	Losses:	\$
Total Buildings			Total Capital Sales	
& Lost Capital	\$	\$	& Losses	\$

<sup>2</sup>e.g., new fences, tile drainage, farm ponds.

lame						[Proc. no		
low no. check: cows y	vear end	cows be	g. year +	heifers	fresh	t cows purch.	sold	died, etc.
<u>LIVESTOCK</u> Number of leased/ren				ar				SCREEN 4.
	<u>Jan.</u>		Inventory		1/1/	<u>er 31. 1992 1</u> 9 <u>2 Prices</u>	<u>12/31/</u>	2 Prices
	<u>No</u> .	\$ per <u>Head</u>	Total Value	No	\$ pe. <u>Hea</u> d		\$ per <u>Hea</u> d	
Dairy Cows:	·	\$	\$		\$	\$	\$	\$
••••••	·							<u> </u>
Total Dairy Cows	••••		\$			\$		\$
Heifers:								
Bred Heifers		\$	\$		\$	\$	\$	\$
Open (6 mo bred	i)							
Calves (< 6 mo.)	<u> </u>							=
Total Heifers	•		\$			\$		\$
Bulls & Other Lvstk	.:							
••••••••••••••••••		\$	\$		\$	\$\$	\$	\$
••••••••••••••	·				. <u></u>			
Total Bulls & Othe Livestock	er 		\$			\$		\$
Total Livestock			\$			\$		\$

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

<u>REAL ESTATE INVENTORY BALANCE</u>		SCREEN 5.
Land & Building Market Value:	Beginning \$	End \$
New Real Estate:		
Purchased: 1\$ + \$	\$ = +\$	
land bldgs./land imp.	lost capital value added	
Noncash Real Estate Transfer to Farm (e.g.		
Depreciation: from 1992 income tax (Include pre-ACRS, ACRS, MACRS & ADS)	bldgs. in	
Real Estate Sold: Total sale price	\$	
Sale expenses	•	
Net sale price	<b>--</b>	
Note/mortgage held by sell	er -	
Net cash amt. rec'd. in 19	922	
Total Beginning Value After Changes		\$
Real Estate Appreciation		\$

<sup>1</sup>Use Worksheet 4, page 2. <sup>2</sup>Calculated 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 11).

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WORKSHEET	5	CORN	CRATN	CONVERSION	UODVCUFFT
WUKKSHEEI	Э.	. CORIN	GRAIN	CONVERSION	WUKKSHEEI

	Percent Moisture	Tons as <u>Harv</u> ested <sup>1</sup>	Conversion Factor <sup>2</sup>	Dry Shell Equivalent
Ear Corn:	¥	T ÷		bushels
Shell Corn:	8	T +		bushels
	T	otal (enter on Sc	reen 8, page 5)	bushels
<sup>1</sup> Use Table 1 below.	<sup>2</sup> Use Table	2 below.		

Settled		High Moi side Diam			Tons High Moisture Shelled Corn <sup>4</sup> Sealed Storage
Depth	14	16	18	20	20 Feet Diameter
<u>Depen</u>	<b>i</b>				
15	47	62	78	97	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	

TABLE 1. TOWER SILO CAPACITIES FOR HIGH MOISTURE CORN

<sup>3</sup>Based on 33 percent moisture content. <sup>4</sup>Based on 28 percent moisture content.

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

Percent Moisture <u>in Kernel</u>	Tons of Shelled Corn Needed to Equal One Bushel of Dry Shelled <sup>5</sup>	Percent Moisture in Whole Ear	Tons of Ear Corn Needed to Equal One Bushel of Dry <u>Shelled Corn<sup>5</sup></u>
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

<sup>5</sup>One bushel of no. 2 corn at 15.5 percent moisture content.

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Name		[Proc. no	·]
LIVESTOCK & BUSINESS DESCRIPTI	<u>ON</u>		SCREEN 6.
Avg.	No. Production		Primary
<b>.</b>	<u>Year Record</u>	<u>Milking System</u>	<u>Business Type</u>
Dairy cows (owned,	(1)D.H.I.	(1)Bucket & carr	
rented & leased)	(2)0.S.	(2)Dumping stati	
Heifers (dairy)		(3)Pipeline	(3)Corporation
Bulls	(3)Other	(4)Herringbone p	
Other:(type)			Primary Financial
	$\underline{u}_{1}^{1}$		Recordkeeping System
(# neau) w.	u. <u>Milking Freque</u> i	<u>ncy Dairy Housing</u>	(1)ELFAC II
Lbs. milk sold			
	$(1)2x/day^{-}$	(1)Stanchion/	$\frac{(2)}{(2)}$
	$\frac{1}{(2)3x/day^3}$	Tie-Stall	(3)Agrifax Mail-in
Avg. milk plant test & B.	r(3)Other*	(2)Freestall	(4)On-Farm Computer
		(3)Combination	(5) Other
I	<u> </u>	<u></u>	
			SCREEN 7.
LABOR INVENTORY Full	<u>-Time Months</u> Age	<u>Years Educ.</u> Value	of Management & Labor
Operator - 1			\$
- 2			\$
- 3			\$
- 4			\$
- 5		_ <del></del>	s
- 6			<u></u>
Family (paid employees)			¥
Family (unpaid)			
Hired (regular & seasonal)			
Total		Worker Equivalent	
	<u>cres Owned</u>	<u>Acres Rented</u>	<u>All_Acres</u>
Tillable land			
Pasture (nontillable)			
Woods & other nontillable	<u>_</u>		
Total			
l			
			SCREEN 8.
			Dry Matter
	Acres	Total Production	Coeffi- Total Tons
TILLABLE LAND USE	<u>(lst cut only)</u>	<u>(all cuttings)</u>	<u>cient<sup>6</sup>  Dry Matter</u>
Hay Crop (1st cut acres only)		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Hay	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		
Hay crop silage	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	tons	
Corn silage			
Other forage harvested			······
Corn for grain <sup>5</sup>		tons dry sh. bu.	Tot. tn DM
Oats		dry bu.	<u> </u>
0403			

<sup>1</sup>Work units. <sup>2</sup>All cows were milked 2x for entire year. <sup>3</sup>All cows were milked 3x for entire year. <sup>4</sup>A portion of herd was milked 3x or total herd was milked 3x for part of year. <sup>5</sup>Convert to dry shelled equivalent (see tables, opposite page). <sup>6</sup>Enter as decimal, e.g., 40% is entered as .4.

dry bu.

lw.u

Wheat

Other:....

Tillable pasture Idle tillable acres Total tillable acres [Proc. no.

FARM FAMILY FINANCIAL SITUATION

		SCREEN 9.
<u>AS</u>	<u>SETS</u>	
	<u>January 1, 1992</u> 1	<u>December 31, 1992</u>
Total Farm Inventory <sup>2</sup>	Ş	\$
Other Farm Assets:		
Farm cash, checking, & savings		
Accounts receivable <sup>3</sup>		
Farm Credit stock		
Other stock & certificates		
Prepaid expenses <sup>4</sup>	xx	xx
Total Farm Assets	\$	\$
Nonfarm Assets: <sup>5</sup>		
Personal cash, checking & savings	·	
Cash value life insurance		
Nonfarm real estate		
Personal share auto		
Stock & bonds		<u> </u>
Household furnishings		
Other (include mortgages & notes)		
Total Nonfarm Assets	\$	\$
TOTAL ASSETS (not including leases)	\$	\$

<sup>1</sup>If you participated in the Dairy Farm Business Summary project last year, there is no need to enter the January 1, 1992 values unless a change needs to be made in the values entered last year.

<sup>2</sup>The 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.

<sup>3</sup>Remember 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 8.

<sup>4</sup>Include any expenses that have been paid for in advance of their use. For example, 1993 rent paid in 1992. The total change in prepaid expenses (beginning year - end year) must be distributed among the proper expense categories in the "Change in Inventory or Prepaid Expense" column in Screen 13, page 11.

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

80

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lame	FAD	FAMILY F	INANCIAL SI	-	roc. no.		909	] EEN 10.
					1	·		<u>EEN 10.</u>
LIABILIT	IESI		·	Amt. of	$\left  \underline{DE} \right $	<u>EBT PAYMENT</u>	1	d 1993
(the first 12 characters will be	Jan. 1,	Dec. 31,		Debt Refin-	Princi-	992 Pymts	Amt. of	Pymts. Per
<u>used as input.)</u>	<u>1992</u> (\$)	<u>1992</u> (\$)	rowings (\$)	<u>anced²</u> (\$)	<u>pal</u> (\$)	<u>Interest</u> (\$)	<u>Pymts.</u> (\$)	<u>Year</u> (no.)
Long Term Debt (≥10yr						(7)		(110.)
· ·		<del>_</del>	xx	• • • • • • • •				
			xx	••••••				
			xx	• • • • • • • •	· · ·		.	
			xx				.	
Intermediate Term Deb	t (>1yr.,	, <10yrs.)						
			xx	• • • • • • • • •		<u> </u>	_ [	
			xx				-l	
			xx				-	
			xx				-	
			xx		. <u></u>		-	
	<u> </u>		xx		[		-	
			xx				- I	
<del>+++++++++++++++++++++++++++++++++++++</del>	+++++++	++++++++++	+++++++++++++++++++++++++++++++++++++++	++++++++++	++++++++	++++++++++++	++++++	+++++++++++++++++++++++++++++++++++++++
Farm Credit Stock	\$	\$						
Short Term Debt - 1 y (borrowed to purchase	ear or le capital	ess items)						
			x				_	
			xx					
Operating Debt (borro entered as expenses i	wed to bu n Screen	iy items 13)					net re <u>planne</u> oper.	eduction e <u>d in</u> : debt:
				• • • • • • • •			-	
				• • • • • • •			accts.	
Accounts Payable <sup>3</sup>		<u> </u>					pay.:	
Advanced Gov't Rec.4							I	
Total Farm Liab/Pymts	\$	\$	\$	\$0	\$	\$	. Total Nonfar	-m
Nonfarm Liab/Pymts <sup>5</sup>	\$	\$	\$xx		\$	\$	_ Pymts.	

<sup>1</sup>Farm Credit liabilities at beg. 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.

<sup>2</sup>Enter payment as a negative amount; loan as a positive amount. Do not include in new borrowings or with principal payments.

\$.....\$.....

<sup>3</sup>Accounts not paid (not money borrowed) for noncapital items/services. Accounts payable at beginning and end of year must agree with the totals in Worksheet 7, page 10.

\$\_\_\_\_\_

\$----

<sup>4</sup>Include government payments received in 1992 that are for participation in the 1993 program, as the end year balance. Enter government payments received in 1991 for participation in the 1992 program as the beginning year balance.

<sup>5</sup>Include debt incurred for all nonfarm assets purchased.

TOTAL LIAB/PYMTS

(not including leases)

81

#### 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 11.

82 8

Leased item	Amount of each payment	No. of payments in 1992	Total 1992 expense	No. of payments/ full year	SCREEN 11. No. of payments remaining
Cattle:	\$	Total	\$ 1		
Equipment:	\$		\$ \$ 2		
Structures:	\$	Total	\$ \$3		

<sup>1</sup>Enter under "Cattle leases" on Screen 13, page 11. <sup>2</sup>Enter under "Machine hire, rent, & lease" on Screen 13, page 11. <sup>3</sup>Enter under "Real Estate rent/lease" on Screen 13, page 11.

# WORKSHEET 6. CHANGES IN OPERATING ACCOUNTS RECEIVABLE

				Allocation	
			Change in	(Option:go directly to	
Account Number	Balance	Balance	Accounts		Change in
<u>or Description</u>	<u>Dec. 31, 1992</u>	<u>- Jan. 1, 1992</u>	<u>= Receivable</u>	Receipt Category	<u>Acct. Rec.</u>
Milk Receipts:	\$	- \$	- \$	Milk	\$
-				Dairy cattle	
:	\$	- \$	<del>=</del> \$	Dairy calves Other livestock	
:	\$	- \$	<b>-</b> \$	Crops	
	\$	- \$	<b>-</b> \$	Government receipts Custom machine work	
·	Y	• • • <u>• · · · · · · · · · · · · · · · ·</u>	- Y	Gas tax refunds	
		•	<b>.</b> .	Other:	
TOTAL Must agree with:		- \$	- \$} (Screen 12)	equals>	Ş
Must agree with:	(Screen 9)	(Screen 9)	(Screen 12)		

## 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 1993 check minus Jan. 1992 check).
- 2. Assign and allocate changes in accounts receivable to appropriate farm receipts using worksheet or go directly to Screen 12, page 9.
- 3. The total of the two "Change in Accounts Receivable" columns must equal "Total Change in Accounts Receivable" in Screen 12, page 9.
- 4. All accounts receivable should appear as assets on the balance sheet, Screen 9, page 6.

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[Proc. no.

			Change in	SCREEN 12.
Farm	Cash +	Change in +	Change in Accounts	_ Accrual
Receipts	Receipts	Inventory <sup>1</sup>	<u>Receivable<sup>2</sup></u>	<u>Receipts</u>
111k 1bs.	Ş	XXXXXXXXX	Ş	\$
Dairy Cattle	¥	\$	۲	Y
Dairy Calves		******		
Other Livestock		лллллллл		
Srops				
Government Receipts		3		
Sustom Machine Work				
as Tax Refunds		******		· · · · · · · · · · · · · · · · · · ·
		XXXXXXXXX	<del></del>	
)ther:\$\$				
· \$				
Total Other		xxxxxxxxx		
TOTAL	Ş	Ş	\$	<i>\$</i>
ale of other stock & certificates	(exclude farm	Credit Stock)		\$
Cash used in the business from n Noncash capital transferred to f	farm business fo	r cattle, crop.	s, etc. (e.g.	\$
Noncash capital transferred to f gifts/inheritances) [excluding m	farm business fo	r cattle, crop	s, etc. (e.g.	\$,
Noncash capital transferred to f gifts/inheritances) [excluding m (enter Screen 5)]	arm business fon achinery (enter	er cattle, crop Screen 2) & r	s, etc. (e.g. eal estate	\$ \$
Noncash capital transferred to f gifts/inheritances) [excluding m (enter Screen 5)] End of year (at beginning prices f	arm business fon machinery (enter for cattle) minu	s beginning of	s, etc. (e.g. eal estate year. <sup>2</sup> Use	\$ Worksheet 6 on
Noncash capital transferred to f gifts/inheritances) [excluding m (enter Screen 5)] End of year (at beginning prices f age 8 to calculate. <sup>3</sup> Change in a	Farm business fon machinery (enter For cattle) minu advanced governm	er cattle, crop. Screen 2) & r s beginning of ent receipts (1	s, etc. (e.g. eal estate year. <sup>2</sup> Use	\$ ¥ Worksheet 6 on
Noncash capital transferred to f gifts/inheritances) [excluding m (enter Screen 5)] End of year (at beginning prices f age 8 to calculate. <sup>3</sup> Change in a alculated from values entered in S	Farm business fon machinery (enter For cattle) minu advanced governm	er cattle, crop. Screen 2) & r s beginning of ent receipts (1 7.	s, etc. (e.g. eal estate year. <sup>2</sup> Use beginning year	\$ \$ Worksheet 6 on
Noncash capital transferred to f gifts/inheritances) [excluding m (enter Screen 5)] End of year (at beginning prices f age 8 to calculate. <sup>3</sup> Change in a alculated from values entered in S <u>Guidelines</u> . Include gross value for pounds	Farm business fon machinery (enter for cattle) minu advanced governm Screen 10, page s for Recording of milk sold.	er cattle, crop. Screen 2) & r s beginning of ment receipts (1 7. This Year's Re	s, etc. (e.g. eal estate year. <sup>2</sup> Use beginning year <u>ceipts</u>	\$ Worksheet 6 on - end year)
Noncash capital transferred to f gifts/inheritances) [excluding m (enter Screen 5)] End of year (at beginning prices f age 8 to calculate. <sup>3</sup> Change in a alculated from values entered in S <u>Guidelines</u> . Include <u>gross value</u> for <u>pounds</u> . <u>Dairy cattle sales</u> include rece	For cattle) minu advanced governm Screen 10, page <u>s for Recording</u> of <u>milk sold</u> .	er cattle, crop. Screen 2) & r s beginning of ment receipts (1 7. This Year's Re	s, etc. (e.g. eal estate year. <sup>2</sup> Use beginning year <u>ceipts</u>	\$ Worksheet 6 on - end year)
Noncash capital transferred to f gifts/inheritances) [excluding m (enter Screen 5)] End of year (at beginning prices f age 8 to calculate. <sup>3</sup> Change in a alculated from values entered in S <u>Guidelines</u> Include gross value for pounds <u>Dairy cattle sales</u> include rece receipts under <u>dairy calves sol</u>	For cattle) minu for cattle) minu dvanced governm Screen 10, page <u>s for Recording</u> of <u>milk sold</u> .	r cattle, crop. Screen 2) & r beginning of ent receipts (1 7. This Year's Re cows and breed	s, etc. (e.g. eal estate year. <sup>2</sup> Use beginning year <u>ceipts</u> ing stock. Ir	\$ Worksheet 6 on - end year)
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SUMMARY OF 1992 RECEIPTS AND CHANGES IN INVENTORY AND ACCOUNTS RECEIVABLE

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Name
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Account Number						Allocation (enter t	<u>otals on page 11)</u>
<u>or Description</u>	12/31/92		1/1/92		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)
:	\$	-	\$	102	\$	Fuel, oil & grease	
						Livestock	
:	\$	-	\$	-	\$	Replacement livestock	<u> </u>
						Breeding	
:	\$	-	\$	-	\$	Veterinary & medicine	
						Milk marketing	
:	\$	-	\$	_	\$	Cattle lease	
						Other livestock expense	
:	\$	-	\$		\$	Crops	
						Fertilizer & lime	····
:	\$	-	\$	-	\$	Seeds & plants	
						Spray, other crop exp.	·
:	\$	-	\$	-	\$	<u>Real Estate</u>	
						Land, bldg., fence rep.	
:	\$	-	\$	_	\$	Taxes	
						Rent & lease	
	\$	-	\$	=	\$	Other	
						Insurance	
:	\$	-	\$	-	\$	Telephone (farm share)	
						Electricity (farm share	e)
	\$	-	\$	_	\$	Interest	
						Miscellaneous	
						Expansion Livestock	
TOTAL:	\$	-	\$	-	\$)	equals>	\$

#### Guidelines for Recording Accounts Payable

- 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 11.
- 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 11.
- 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 10, page 7.
- 7. All accounts payable should appear as liabilities on the balance sheet, Screen 10, page 7.

Name

[Proc. no.

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SUMMARY OF 1992 EXPENSES & CHANGES IN INVENTORY & ACCOUNTS PAYABLE See page 12 for instructions. SCREEN 13. Change in Inventory Cash + or Prepaid + Change in \_ Accrual Farm Expenses Amount paid <u>Expenses</u><sup>1</sup> Acct.Pay.<sup>2</sup> Expenses \$\_\_\_\_\_\$x\_\_\_x \$\_\_\_\_\_\$..... <u>Hired Labor</u> Feed (see Guideline 2 on page 12) Dairy grain & concentrate ..... Dairy roughage ----Nondairy feed ----Machinerv Machine hire, rent & lease \_\_\_\_x x\_\_\_\_ -----Machinery repairs & parts ........ Auto expense (farm share) x x Fuel, oil & grease . . . . . . . . . ----<u>Livestock</u> Replacement livestock х x Breeding **. .** . . . . . . . -------Veterinary & medicine . . . . . . . . . - - - - - - - - - -Milk marketing x\_\_\_\_x -------*Cattle lease/rent* x\_\_\_\_x Other livestock expense Crops 3 3 Fertilizer & lime -3 3 Seeds & plants 3 3 Spray, other crop expense Real Estate Land, building, fence repair Taxes x x Rent & lease x x Other Insurance x Telephone (farm share) x ........ Electricity (farm share) x Interest \_x Miscellaneous TOTAL OPERATING \$.... \$\_\_\_\_\_ \$\_\_\_\_ \$.... \$ x x Expansion livestock \$\_\_\_\_\_ Purchase of other stock & certificates (exclude Farm Credit stock) Nonfarm Cash Expenses Personal withdrawals & family expenditures<sup>4</sup> \$

<sup>1</sup>Changes in prepaid exp. can be entered in x\_\_\_\_\_x spaces. Total change in prepaid exp. must equal the difference between prepaid exp. totals in Screen 9, page 6 (beg. year - end year). <sup>2</sup>Use Worksheet 7 on page 10 to calculate.

<sup>3</sup>Must calculate for completion of Screen 14.

<sup>4</sup>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 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 10, page 7. If any or all "Nonfarm Cash Income" has been excluded from the value entered in Screen 12, pg. 9, you must also exclude any family expenses paid from that income.

### Guidelines for Recording This Year's Expenses

- 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 \$600 and \$2,000 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.
- 2. 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. Dairy roughage 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 nondairy livestock feed.
- 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</u> <u>expenses</u> include DHIC dues, cattle registration, livestock board, milk house supplies, and bedding.
- 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</u> <u>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 10, page 7.
- 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 replacements 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.

Name

[Proc. no.

<u>Crop</u>	Accrual Fertilizer & Lime	Accrual Seeds & Plants	SCREEN 14. Accrual Spray, Other Crop Expenses
Hay crop (silage & dry)	\$	\$	\$
Corn (silage & grain)			
All other crops			
Total	\$	\$	\$
	Totals above in Screen 13	must equal <u>accrual</u> e	expenses

### BREAKDOWN OF 1992 ACCRUAL CROP EXPENSES BY CROP

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

Record the breakdown of crop expenses for hay crop, corn, and other crops in Screen 14. The "Total" line at the bottom of the screen must equal the <u>accrual</u> expenses on Screen 13, page 11, 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</u> <u>year</u> - <u>end</u> <u>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 two lines of the screen for hay crop and corn.

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.

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APPENDIX C

PROCEDURES FOR CALCULATING COST OF PRODUCING MILK



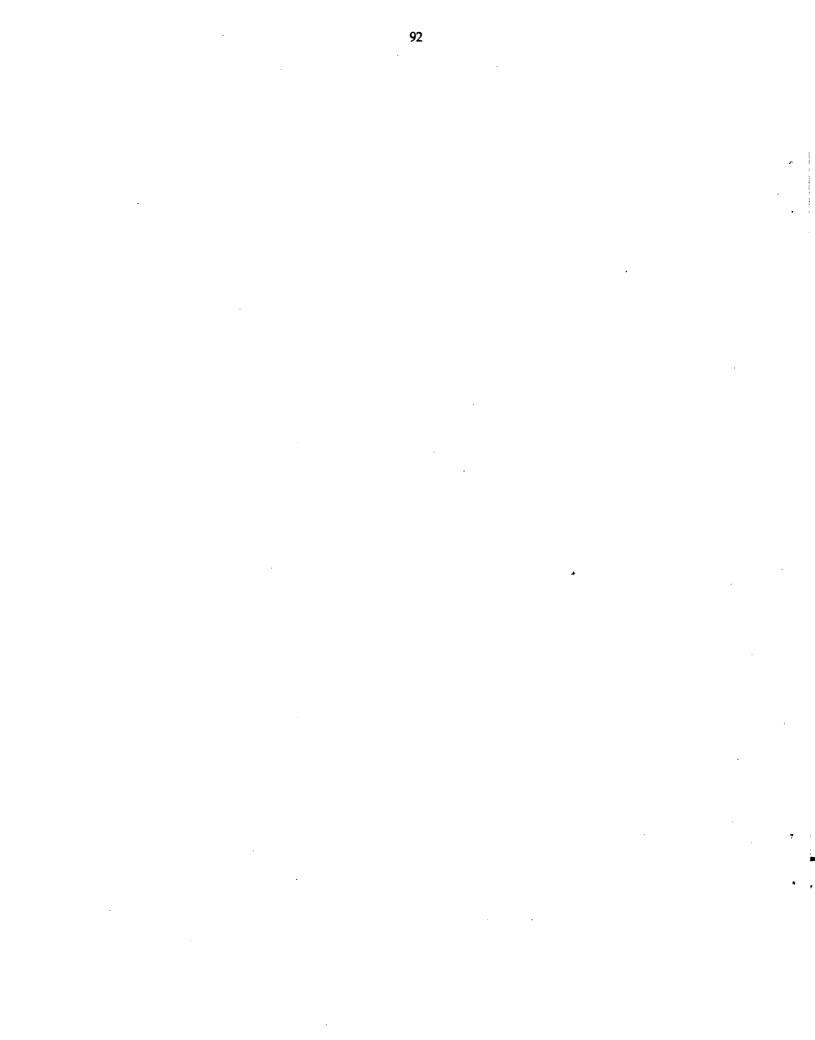
# PROCEDURES FOR CALCULATING COST OF PRODUCING MILK -1992 DAIRY FARM BUSINESS SUMMARY FOR DARLA DAIRYMAN

	<u>Example<sup>1</sup></u>
\$263,842	
+20,000	
	\$283,842
\$343,954	
-282,015	
<b>_</b> _	<u>- 61,939</u>
	\$221,903
	\$319,462
	+ 12,150
	<u>- 61,939</u>
g	
13	\$269,673
	\$319,462
	+ 12,150
	+ 40,000
	+ 24,658
	<u>- 61,939</u>
	\$334,331
	<u>+20,000</u> \$343,954 <u>-282,015</u>

<sup>1</sup> Same example as in Section VI of this publication.

<sup>2</sup> 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.

- <sup>3</sup> Considering all costs except 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.
- <sup>4</sup> 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



#### 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 = 1Ø 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

# OTHER AGRICULTURAL ECONOMICS EXTENSION PUBLICATIONS

- No. 92-17 Dairy Farm Business Summary Eastern New York Renter Summary 1991
- No. 92-18 State of New York/New Jersey Food Industry Wholesale Club Stores: The Emerging Challenge
- No. 92-19 Where to find Information on the Food Industry A Researcher's Guide
- No. 92-20 Farm Income Tax Management and Georg Reporting Reference Manual Stuar
- No. 92-21 Agricultural Economics Publications July 1, 1991 - 3June 30, 1992
- No. 92-22 Annual Cost of Investment in a Durable Asset Using Present Value Analysis
- No. 92-23 1991 Northeast Beef Farm Business Summary

Stuart F. Smith Linda D. Putnam

Edward McLaughlin Gerard Hawkes Debra Perosio

Edward W. McLaughlin Sandy Freiberg

George Casler Stuart Smith

Dolores J. Walker

John Brake

Caroline Nowak Rasmussen Danny G. Fox Stuart F. Smith Ted C. Perry

No. 92-24 New York Economic Handbook 1993 Ag Ec Staff Agricultural Situation and Outlook

No. 93-01 The Cornell Program on Dairy Andrew M. Novakovic Markets and Policy Summary of Activities, 1989 to 1992