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Business Side of Farming

PART I FARM RECORDS

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DEAN SCHOOL OF COMMERCE
OREGON AGRICULTURAL COLLEGE

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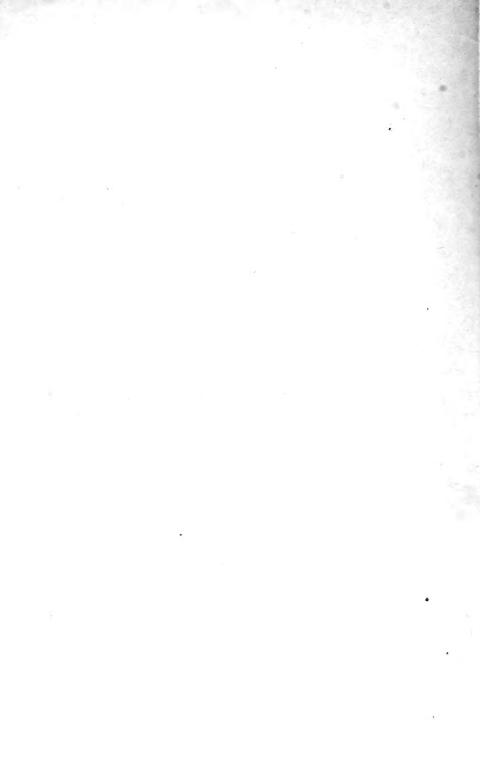
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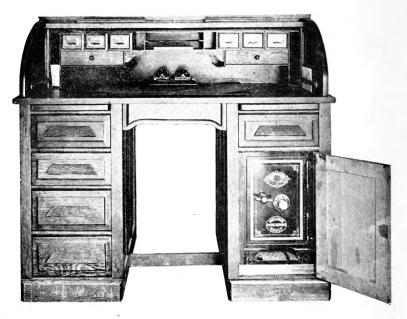
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The College Bulletins are sent free on request. Questions on any phase of *The Business Side of Farming* will be cheerfully answered. Address Prof. J. A. Bexell, Corvallis, Oregon.



This desk is provided with a fire-proof safe, combination lock, with ample capacity for valuable records. See page 46.

THE FARMER'S DESK.

#### CHAPTER I

#### INTRODUCTORY

It is a truism to say that the financial side of farming is of the utmost importance. But the fact remains that this side of the world's greatest industry is almost entirely neglected by both the farmer and the schools. Professor Bailey says on this subject: "In visiting practically every farm in one of the counties of the state (N. Y.) we did not find one man who knew how much it cost him to produce milk or raise any of his crops."

# Prosperity of the Farmer

The Secretary of Agriculture, in recent Year Books, points out the remarkable prosperity of the farmer; that the export of farm products is vastly in excess of all other exports combined; that a million agricultural debtors have been transformed during the last ten years into the same number of surplus depositors; that, "contrary to his reputation, the farmer is a great organizer, and that he has achieved remarkable and enormous successes in many lines of economic cooperation in which the people of other occupations have either made no beginning at all or have nearly if not completely failed." He points out that most farmers live better than the average merchant or mechanic.

#### Causes of Success

It is doubtless true that the farmer is becoming a factor to be reckoned with in the business world; that the average farmer knows vastly more about scientific farming than his father did; he understands more thoroughly the value of proper cultivation, of fertilization, of rotation of crops, and of diversified farming; but it cannot be said that he owes his success to improved business methods. He has been successful, rather, in spite of his ignorance in this respect, and because of the lavish generosity of Mother Nature.

# Two Phases of Farming

The business of farming assumes two distinct phases: the productive phase and the exchange phase. The one aims to

extract the treasures from the soil; the other, to place them in the hands of the consumer. It is important not only to raise abundant crops, but also to sell the products to advantage.

# Importance of the Exchange Phase

The importance of the exchange phase is often lost sight of. A farm may be forced to yield to its maximum capacity, labor may be managed properly and waste reduced to a minimum; and yet the net result may be a loss at the end of the year. As a general economic proposition, it might be said that large crops often result in serious loss to society as a whole. If the net value to the consumer is less than the labor and capital expended on the crop, society is the loser by the difference. Hence the importance of a thorough understanding by the farmer as well as by the merchant and manufacturer of the laws and methods of exchange or commerce.

### Farming a Paying Business

That farming is a science has been emphasized so much that the fact that it is also a business is often lost sight of. It is a real business, and one which pays the United States close to eight billion dollars annually. It has been demonstrated repeatedly that no legitimate business pays better than farming. It may be a little more up-hill work at the start, since most farmers begin business with small capital, but it is incomparably safer in the long run, and will insure a competence for old age with greater certainty than any other occupation. But let it ever be borne in mind that the condition for success is that farming must be conducted on business principles.

#### CHAPTER II

### OBJECTS AND METHODS OF BOOKKEEPING

Accurate records and accounts are absolutely necessary in the management of every business enterprise, great or small. No business can be successful in the long run unless its condition can be determined at any time, and no conservative business man will fail to prepare a financial statement at the end of his fiscal year. He must determine how he stands, not only with others, but with himself.

# Object of Keeping Accounts

One object of keeping accounts is to assist in accumulating property. Another important object is to record a continuous history of business transactions for future guidance. Not only is this profitable, but it is a source of real pleasure and satisfaction to know our standing with those with whom we deal as well as the profits and losses in our business enterprises.

#### What the Records Should Show

A complete system of farm records should enable the farmer to tell at any time how his business stands with himself and others; the cost of production of staple crops and live stock and the periodical results of both the productive and the exchange phase of his operations. The records should also show personal and household expenses, and, finally, a comprehensive history of the various phases of the enterprise, including plats of crop rotation, fertilizing, etc.

# Difficulties of Farm Bookkeeping

Numerous systems of farm bokkeeping have been proposed, but the trouble with them all is that they are either too complicated or altogether unpractical. Professor Bailey says: "The entire subject of farm accounting must be attacked in a new way. The ordinary bookkeeping will not apply." The reason is obvious. Farming is a much more complicated business than most people suppose. A farmer is both a producer and a dealer. He needs financial records as complete as the

average merchant and cost records as accurate as those of the manufacturer. But the records must be adapted to the business in hand. "The ordinary bookkeeping will not apply." The farmer is usually a very busy man. His chief difficulty is neither ignorance nor indolence. He has little time for fancy bookkeeping and still less for "red tape." What he wants is a plain, simple, straightforward history of his business, so arranged and classified as to require the minimum effort to keep it up. It may be interesting for his children to learn the conventional use of red ink, rulings, closing of books, the intricacies of journalizing, etc., but all this is not necessary to a proper understanding of farm bookkeeping.

### Methods of Bookkeeping

In the following pages I suggest two methods of farm book-keeping whereby the yearly profit or loss may be determined and compared from year to year. The first is extremely simple Single Entry, while the second method is a comprehensive, but very simple, Modified Double Entry, by which the financial standing, the cost of production, profits and losses, etc., can be ascertained at any time. Any farmer with average intelligence will be able to master either method with small expenditure of time and labor.



ALPHABETICAL FILE

#### CHAPTER III

#### SINGLE ENTRY

# The Day Book

The most important record in this method of bookkeeping is the Day Book, or what might properly be called the History of the Farm. This should be written in the form of a diary, without attempting a close classification of the entries. Always bear in mind, however, that it is safer to give too much rather than too little information in the records. The Day Book should contain any memoranda which might prove valuable for future reference. Conditions of the weather, time of planting, breeding, division of fields, sales, purchases, loans, attendance at conventions, valuable recipes, etc., are proper subjects for entry. Though it is advisable to keep the book as neat as possible, it is unnecessary to spend much time for that purpose. It is more convenient to jot down items in lead pencil as they come along, and then, as time allows, classify them under their respective heads.

# The Day Book and Cash Book Combined

In the form on page 13, the Day Book and Cash Book are combined. The ruling is that of an ordinary stock Day Book. In the left-hand column is entered all sums received and in the right-hand column all payments.

While the combined Day Book and Cash Book has the advantage of extreme simplicity, it is often more satisfactory to devote a part of the Day Book, or a separate book, exclusively to cash transactions. Where this plan is followed, it is unnecessary to record all the Cash items in the Day Book. The left-hand page is used for cash receipts and the opposite page for payments.

# Bill and Receipt File

A very important part of the farm records is the Bill and Receipt File. A part of the Day Book can be devoted to that purpose, but it is better to provide a separate book. In it should be securely pasted all bills for machinery, implements,

Day Book, April 1, 1908		
July Con Sipici 1, 1700		
Set upon and to do all a		
Set years ago to day I pur - chans my present farm investing cach \$6000.00. Following is an		
chased my present form investing		
Cach \$6000.00. Nollowing is an		<del>                                     </del>
accurate inventory of all my pri-		# +
perty and a statement of my pre- affairs as they stand to day		
affairs as they stand to day		
Tingueral Statement No 1 Harris.	Taras	
april 1, 1908 Resources		
Resources		
Farm, 160 A. (market value)		8000
Produce:	100	
150 bu Oats 45		
200 bu Wheat 85		
20 tous Any 600		
20 tous Hay 600 Potatoes and Vegetables	1	50750
Stock.	100	Para
A see of C;	$H_{\downarrow}H_{-}$	
6 Horses, average 100°	600	<del>                                     </del>
20 Coys " 40°°	800	
11 Steers " 1200	132	
5 Heifers 111º	55	
12 Hogs " 600	72	
	300	1959
Remander of Resources omitted Life Jusurance (Pand-up value)		108325
Life Imaurance (Pard-up value)		96436
Cash		120
Total		1268411
1,0107		7 7 77
Leabilities		
( ) dearines		
mavor impaid	1/3	
Cleconoli Toyable	12515	
Martgage due april 1, 1910	3000	320015
Marigage due april 1, 1910		948396

OPENING ENTRY AND INVENTORY

Day Book, april, 1908.		
	Received	Paid
Mond I Cash on hand	170	
	- 17 M	
11/11/11		
Negvy rain storm		-+
1 Hegy sain storm Short Cap and Mand 2 Tous Coal		3
2 Tous Coal		8
Tues. 2 attended Dreeders' Convention at Partans. Program and report		
1 2 1 ()		
The Color of raw and report		1
tiles 16. apences		840
Wed 3 Pais growing bill at Murdocks		1140
Billion file A. 16		
Thurs & Dought mulch cow of & C. Smith		40
Thurs of Vought much cow of & C. Smith		70
	<del>                                     </del>	
4 lettendes concert of the Docton		
4 although concert of the Doctor		2
Fris & Sols call to P.a. anderson	2	
1 les		
/ pair / Alloves		150
Set 6 Dought for cach		
Set 6 Dought for cach 18th, Mail sod		195
1 d t d t d t		
6 Went to Pareland to select		
implements, Expenses		3
Sun 7 Dr. E. Hamelton preaches on Civic Honor" Collection		
"C. H. " C. 1 +		25
ewie viouor. Louellon		23
=   01 1 = 11	H	
Tuco 9 Shoes for Tedde		13.
Forwarded	177	915
Torwarded	1///	0/30

DAY BOOK

tools, livestock, nursery stock, furniture, etc., which will be subject to inventory, but not bills for supplies, feed, table expenses, etc.; also receipts for the payment of money, cancelled notes, certificates of pedigree, important clippings from periodicals, and any other matter of interest. This will prove an invaluable record for future guidance. Many prefer the alphabetical file, illustrated on page 10.

### The Inventory

The inventory may be considered the most important document among the farm records, because without it no results at all can be obtained. It should be taken at such a time as will give the most accurate results with the least expenditure of labor. This differs widely in different localities. January 1st seems the most natural beginning of the fiscal year, but the objection is that at this time there is apt to be a large quantity of feed and supplies on hand.

April 1st would be a better date so far as stock on hand is concerned, but inconvenient in many localities on account of the pressure of spring work. Whenever it is taken, it should be accurate. No guess work should be tolerated. Weigh and count; do not estimate. Then assign the actual market value to the preperty, taking due account of depreciation.

# Depreciation

Neither an old wagon nor an old horse is worth as much as new ones. The same holds true with very few exceptions of all equipment, animals, houses, and improvements. The question as to what rate shall be charged off annually, so as to create a sinking fund with which to renew the depletion, has been an open question with accountants since time immemorial. It is particularly difficult to determine the depreciation of live stock, work horses, and a depletion of the fertility of the soil. Without entering into a discussion of the subject, I give below the experience and opinion of the best authorities on the subject. The thoughtful farmer will find no difficulty in adjusting these rates to suit his conditions. For the purpose of general estimates, the following rates on the cost or market value are fairly accurate:

Buildings (including insurance and repairs). 5 per cent	
Horses, above 5 years	·.
Milch cows 8 per cent	
Machinery and tools	- -

#### How to Determine the Profits

The all-important question at the end of each year is: Has the work for the year been a financial success or failure? To determine the profits or losses is, therefore, a problem to be solved each year. As a matter of fact, it is a very simple problem, and it becomes easier the oftener it is done.

Let us assume that heretofore you have kept no books whatever, but you have now decided to make a start. You have procured a simple, substantial Day Book (may be purchased at any stationery or drug store), and after listing all your property, you are prepared to make the entries shown in the illustration. April 1st is selected as the beginning of the fiscal year, because on that date the supplies, grain, feed, etc., are usually low, and the average farmer has considerable time to spare. Of course, this varies in different localities, and any other date may be selected to suit the farmer's convenience. The proper opening entries, including the inventory, are shown on page 12.

#### A Year Later

A year has passed and we are now ready to determine the result of the year's work. Since we have kept the only memoranda in the day book, the best we can do is to take another inventory exactly similar to the last one. This we will now proceed to do.

The second financial statement and the statement of Profit and loss are illustrated on page 17.

# Net Earnings

The net profits shown in the illustration, page 17, include the interest on the investment and the wages of the members of the family. To find the net earnings of the proprietor, the value of the household goods, life insurance, cash, and the cost of the dwelling should be deducted from the last year's inventory. Then find the interest on the remainder at a fair rate; this deducted from the profit gives the earnings of the family. This is illustrated further in Lesson 11. If members of the family, engaged in productive work, receive regular pay before the statement is made, the final result is the net profit above wages and interest. The question might be asked: why deduct the value of the dwelling before the interest is taken? The reason is that the dwelling is not a productive investment. It is apt to be more or less valuable than the average standard, according to the taste and ability of the owner. Amounts drawn for personal use should, of course, be added to the net earnings.

Continued Inventories

It is often convenient to tabulate the annual inventories as follows:

ITEMS	April 1 1908	April 1 1909	April 1 1910	April 1 1911
Farm, 160 acres (market value).	8000	8620		
Produce	507 50	547 86	ĺ	
Stock	1959	1966		į į
Poultry		i i		i i
Life Insurance	964 36	i i		i i
Cash	170	126 04		
Total			i	

#### Personal Accounts

A farmer frequently retails his products to his neighbors or to townspeople, if he lives near town. In such cases it often happens that he can sell to better advantage by running an account with steady customers, collecting by the week or month. If this phase of the business is extensive, as is the case in truck farming, dairy, poultry, and the like, it would pay the farmer to provide tickets or coupons and sell five or ten dollars' worth in advance even at a small discount. But generally an account with each customer kept either in a separate book or in part of the Day Book, will be found satisfactory. However, most farmers sell their products for cash, or exchange for merchandise, which is equivalent to cash sales. It is, therefore, unnecessary to enter into an elaborate discussion of keeping such accounts.

Some farmers, very unwisely, attend to the personal business of their hired help, even to the extent of buying their smoking tobacco. There is absolutely no excuse for such a

Resources.	11111	1111
Farm, 160 A (market value)		8620
Produce.		
From 150 bu, Com .55	8250	
175 bu. Oats 43	7525	
253 by, wheat .87	22011	3778
Nay 20 tong clove 6.50		130
Patetoes & Vegetables		40
Stock.		70
6 Horses average 100,00	600	
1 3- year ald Horse Jun 22 Cows and Horse 42.	150	
22 Cows average 42.	924	
14 Steers 13.	182	
1/ Heyers " 11.	44	1966
11 × logs " 6.	66	1966
Poultry of		1 (
165 Chickens .45	74/25	
25 Tyrkeys	7425	
10 Leece		100
(Re de l'Asserted		26024
Cash & Bank Resources omitted		1260
Casa Sunt		
Liabilites		139623
Liabili es	1 + + 1 +	
Labor (unpaid)	85	
accounts Payable	14232	
Martgage due april 1, 1910. Mate Javor Western Lumber C.	3000	
Mate favor Western Lumber Co.	200	
Dul on Peans	200	36273
Het Worth		103349
Statement of Profit & Lass		
Het Worth now I Profit & Loss	10334 08	*
Het Worth last year Net Profet	9483 96	
Jur worth pair year	740296	8510

SECOND FINANCIAL STATEMENT

Others Owe Us Mrs Richard King	Sebit	Credit
May 1 Balance	380	TIII
1 1 lb. Butter	20	
3 2 da Eggs	30	
5 / Chusten	30	
12 2 lb. Sutter.	40	
182 gt. Strawberries	30	
25 16 gt. Cream	20	
31 1 lb Sytter	20	
31 Cash		3
	570	5
June 1 Dalance due	70	
11 m 1 +0		
gos A 5 by Potatoes Merchantile Co.		
8 60 buckey Ornores	375	1111
10 dog Sweet Corp	2	
Growing as bega hell, File 17	1 4	11/4
15 8 Crater Standbarra	14	
20 da Essa	2	111
20 dg. Egg.		13
	2475	195
Puty , Dalance due	525	
		+++
		1111-
	1	1111-

PERSONAL ACCOUNTS

. Tr		Cast		Car
1 80 bu Con 6 2 5 teers	(a)	12 ap	1 Nousehold Crops Stock	30 70
1909 Apr 1 12 bu. Sec	Sales	Crops		
	o contact	70 000		4 52
1909		Live Si	tock /	
Apr 5 Janey (	Eu-	63 ap	6/2 Steens	380
1909		Houses	iold	
ape / Lach		30		

DOUBLE ENTRY LEDGER

practice. Rather pay your help in installments and let them settle their own bills.

Accounts with persons we owe are generally unnecessary. Most merchants furnish either a pass book, in which the account is shown in detail, or an itemized bill is furnished with each purchase. These bills should be pasted in the Bill File and checked off when paid. In the great majority of cases this will prove more satisfactory than ledger accounts.

A special ledger can be provided, or separate pages of the Day Book devoted to special accounts. This classification is made either daily, weekly or monthly, as time and circum-

stances allow.

#### CHAPTER IV

### MODIFIED DOUBLE ENTRY

### Ancient Methods

Not many generations ago it was considered sufficient for the average manufacturer merely to record his cash receipts and expenditures and to keep a tolerable accurate check on the cash balance. In many instances, the left trousers pocket served as the debit side and the right as the credit side of the "Ledger." Modern business methods and sharp competition have changed these notions until today it is necessary to know the cost of production in advance to the smallest detail. Ancient business methods prevail yet, very generally, on the farm. The wonderful progress of the American farmer is due to marvelous natural resources, labor-saving inventions, and natural ingenuity, rather than to wise and prudent management.

## Necessity of Careful Management

In certain respects, a farmer must combine the methods of the manufacturer and the merchant. He must learn, not only how to increase production, but also how to facilitate the profitable exchange of his products. He must reduce the cost of production to the minimum by increasing the quality and the quantity of his products, and by getting full value out of labor. He must manage so that his working force, farm hands, children, horses, all, are constantly employed. This requires most skillful management in the rotation of crops, in the division of labor, in selecting seeds, fertilizers and stock; and, above all, it requires general prudence in purchasing equipment and supplies, and in marketing products. Progressive farmers require a variety of records to assist in the proper management of their business. A first-class set of books is just as indispensable to them as to the banker or to the manufacturer.

# Superiority of Double Entry

A careful comparison of the results obtained in the last chapter with the balance sheet given on page 39 will convince the reader of the superiority of double entry. It will be ob-

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DATE	ITEMS		101	ΑĻ	GRA	M	HAT		ORCI GAR	ARD, DEN	510	.	DAIRY	T	POULT	RY	SUNDI	RIES
7	Dalunce FORWARD	ED	126	04					1				T	十			126	04
	2 tons Gloder		/2				12											
	80 pu. Gorn	.65	52		52			_		_	<u> </u>		4	4				L
3	1 doz; Gabbaye			20	-	_	ļ	_		20		<u> </u>	_	4				<u> </u>
-	25 Pb. Butter	.25		2.5	1—	<u> </u>	<u> </u>	ļ	-	_			62	3			<u> </u>	-
	2 Steers		80		-	⊢		-	-	-	80	$\vdash$	+			_	-	-
-	20 Spring Chickens	.45	-9			$\vdash$		-	_	-			+	+	9			ļ -
9	Hauling Goal I Jay Sersey Galt		_3	-		-		$\vdash$	-		10			+		-	0	-
7	2 Gords Wood		8			-	-			_	//		$\top$	-			6	-
	5 bu Potatoes		<u>ه</u> ک			_			3	-	-		$\top$	+			-	
12			25						Ľ		25		$\perp$	士				
	1 Heifer 10 b. Butter	28/2	2	85									28	35				
13	75 hu. Gorn	.65	48	75	48	75								$\perp$				
	Work on Gounty Road		5	f		_			L	1_			_	1			5	
_	4 bu. Apples		6						6				_	$\perp$				
	20/2002 Eggs	.20		10	<u> </u>	_	ļ	_		ļ.,			-	4	4	10		_
$\dashv$	36 16. Butter	.25	_9		<u> </u>	_		-		-	_	-	9	-		_		1
$\rightarrow$	2 tons Gloder		12			-	12	-	_	H		Н	+	-	_	_	<b></b>	-
17	100 Apple Trees 1 Steer		20			-		$\vdash$	20	+-			+	+	_	-		-
,—	12 Gedar Posts,	-	37	40		⊢	-	┝	-	⊢	37	$\vdash$	+	+			-	-
10	6 Spring Chickens			40			-	-					-	t	-	40	-2	40
.27	95 bu. Gorn	.60	57		57								$\uparrow$	+	_	70		-
-	3 tons Hay		18		1		18			-		$\vdash$	+	+				
	gersey Calt		10								10		7					
	50 bu Qats	.35		50	17	50		Ι.						1				
,23	1 Turkey		1	40	1										1	40		
	1bu, Glover Seed		/	50	-			50		_	L		_	_				
26	18 tb. Cheese	.15	2	70				_		_	-		27	0		_		_
	3 Gords Wood		/2		-	_		-		-		-		+		_	/2	
	4 tons TimoThy		4		4			-	-	-			+	- -		-		-
10	Produce for Household	5.50					22	-	ļ,				+	_	_	-		├
50	Troonce for Trouse hold		18	05	_			-	5	25			43	0	_6	30	-	-
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GENERAL FARM

#### PAYMENTS

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/	Household Expenses	42	30	Γ	30		_					_						1_		Į
	12 Du. Seed Wheat 83/3 Labor 150, Shoeing 300 Interest, M. P. 60	43	10	_		L	10			L				L		_	_	1	_	4
3	Labor 130, Shoeing 300		4	50	_				/	50	3	_	L	<u> </u>		$\perp$	L	L		_
		44	20			L	_	Ш		L		<u> </u>		1		1	<u>_</u>	1	20	0
	gersey Gow	45	63										65	L				L	L	
	Lates & Shingles	46	3	75				Ш						┡		_	3	75		_
	Garden Seeds		_/	60		L		60		_	_		_	_		_	ļ.,			_
	Road Tak	47	3	_	<b> </b>	-	<u> </u>	Ш			<u> </u>		_	-	<u> </u>	⊬	₽	-	نے	3
	Addition to Barn	48	80		<u> </u>	_		Ш					<u> </u>	<u> </u>	<u> </u>	⊢	80	1	<u> </u>	4
4	Grates & Sags	49	15	40	L.	L	_				15	40		Ŀ		_	<u> </u>			1
9	Wages to Johnson Steel Frame Grand Stone	50	10		-	-	_		10		L	_		-	<u> </u>	-	ļ	$\vdash$	_	-
-	Steel Frame Grend Slone	51		50	-	-	_	$\square$			-	-		-	3	50		$\vdash$	-	4
2	200 ft. Lumber, 10 per M.	Н		00		-		Н		-		-	-	-	-	-		00	_	-
$\dashv$	Strove	$\vdash$		25	<b>!</b> —	L		$\vdash$		-		-	-	-	1	23	<u> </u>	-		-
13	Household Expenses	52	30		30	L	_	Ш		Ш	_	_	_				┡	Ш		
4	John Smith , I days	$\vdash$	_2	50		_			_2	20		-		<u> </u>	-		-	H		-
	Staples	Н		35		_		Н		Н	-	-	_	├-	_	⊢	-	35		4
4	Takes	53	30	_		ļ				Н	_		<u> </u>	-		⊢	-	H	30	-
5	Personal EX	Н		50		50		$\square$		ш				-		-	-	$\vdash$		4
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CASH BOOK

served that the only result obtained by a comparison of inventories was the net profit or loss. The source or causes of these results cannot be obtained by this method. The method suggested in Chapter III has this advantage: There is not a farmer so busy or so ignorant that he cannot adopt it and derive great benefit from its use. But the ambitious, progressive farmer will not be satisfied with this primitive method any more than a wide-awake merchant will be satisfied with single entry bookkeeping. He will adopt a system which will give him at any time reliable information as to his financial standing, cost of production of crops, live stock and poultry, household expenses, etc., and by which he can prove that his work is correct.

# Single and Double Entry Compared

The distinction between single and double entry is unimportant for our present purpose, but it may be a satisfaction to the reader to know that the method we are now to consider is double entry in a modified form. The important distinction between the two methods is that in double entry accounts are kept with persons, property, and allowances, while in single entry accounts are kept with persons only. In double entry there is a corresponding debit for every credit; the total debits and credits must, therefore, be equal, and must balance at any time. This becomes clear by referring to the Cash Book below. In the first entry, the amount is entered in both the Total and in the Sundries column: and the same is true of all the succeeding entries. Hence the sum of columns four to ten inclusive must equal the total in column three. You will find the same to be true of the Payments, and of the Household Accounts.

#### Additional Books Needed

Very important books in double as well as in single entry are the Day Book and the Bill File. They are to be kept in exactly the same way as suggested under single entry, except that no cash entries are recorded in the Day Book, which is kept only as a diary. The important consideration now is to adopt additional records that will furnish the necessary information in systematic and tabular form, and requiring the minimum amount of labor.

#### The Cash Book

The Cash Book is the basis of classification. A very convenient form is given on pages 23 and 24. The special columns take the place of a ledger. All money columns except the total column will be referred to as Distribution Columns. They are in reality separate accounts, and this form might, therefore, properly be called a combined Ledger and Cash Book. The form suggested has the important advantage of being self-balancing. A trial balance can be taken at the end of each page, month or year, as illustrated on page 33. The process of preparing a financial statement becomes extremely simple by this method. A few observation regarding equipment and supplies, improvement and repairs will be of assistance in using the distribution columns.

### Equipment and Supplies

In accurate accounting, the question often arises: What shall be considered equipment, and what supplies? Supplies are defined as expendible or consumable materials, which are incapable of being used more than once; while equipment is of more permanent character, articles which can be used repeatedly. Fuel, lubricating oil, cotton waste, feed, etc., are supplies; while machinery, furniture, and apparatus of all kinds are equipment.

# Improvement and Repairs

The distinction between improvements and repairs is not always clearly understood. An improvement adds value to the property, in the shape of equipment, buildings, drains, fences, and the like; while repairs merely keep up the property. A coat of paint on an unpainted building is an improvement; repainting is classed under repairs. This distinction is very important in making an inventory. Improvements are added to the inventory, repairs are not.

## Cash Balance and Sundry Columns

The cash balance is found as	fo	lle	ov	vs	:				
Total receipts								9	653.14
Total payments									
Ralanca								9	74:34

Note that the totals of columns four to ten equal the total of column three; and that columns fifteen to twenty-two equal column fourteen. The Sundries column contains all entries which do not fall under the special columns. At the end of the year, the items are segregated under various titles. The segregation for the month of April is as follows:

Sundry	Receint	Column	(10)	٠.
Durung	ICCCCCCC	Counting	( + 0 )	

Balance\$1	26.04
Labor	10.00
	22.40
Total\$1	58.44
Sundry Payment Column (22):	
Interest\$	22.00
Taxes	33.40
Accounts Pay	15.80
· · · · · · · · · · · · · · · · · · ·	35.10
Total\$1	06.30
Improvements and Repair Column (21):	
Improvements\$	80.00
Repairs	34.60
Total\$1	14.60

### Trial Balance

In the language of the accountant, a trial balance is a test of the equality of the debits and credits in a set of double entry books. Our trial balance is much simpler; it is simply a test of equality of the total columns and the distribution columns. In the Cash Book, merely add the distribution columns on each side and note that their sum equals the respective total columns. The Household and Shop accounts are balanced in the same manner.

# Banking

The enormous increase in bank deposits in rural communities is the best evidence that the farmer is beginning to appreciate the value of better system in his finances. It is claimed that fully ninety-five per cent. of the country's business is done by credit currency, such as checks, drafts, money

Martin Harris in account wi	th Citize	ns'Nat.	Bank
Nate 1908 No. Pavee	Deposits	Checks	Bal.
apr 1 Deposit	9835	1111	
1 350 Mrs Harris		30	
1 Odell Seed fo.		10	5835
1 2 Emma Continue		150	
3 Frown & Pickett		3	
Sebaset	70		
5 4 Sulem Suplement 6		20	10385
5 E. Skidmore		65	70000
6 Empire Lumber 6		375	1111-
6 7 County Recorder		3	
Deboset	90		
8 8 Carle & Crockett .	170	80.	4210
9 Farmers Supply Co.		1540	7370
9 360 Frank Johnson.		10	
1 Goddard Hardware Co		350	
2 Mrs. Names		30	
Debout	4050	30	+++-
3 Crown Ferfilger Co.	7030	640	
4 O. M. Swith	1 11111	1580	
13 Deposit	125	1380	
5 County Treasurer	123	3040	+++-
		3070	++++
6 Kimbail Levery G	#	/3	1
20 8 C. J. Oleon & Son	╫┼┼┼┼┈╫┈	250	
		15	6360
9 Harring + Bason	<del> </del>	10	++++
2.3 370 Granford Hardware Co.		1050	++++
Drown & Property	+++++	1330	2980
Proof:	4.0		
1 + + 1	2980		
Out standing.	350		
366	000		
	10		
369	100		<del>        -                              </del>
Dalance as per Par Sook	3830		++++ -

BANK ACCOUNT

orders, notes, and the like. Many good business men keep only their bank book, and this is far more satisfactory than no bookkeeping at all, especially if bills and receipts are filed for reference. The bank account may be carried entirely independent of all other records.

Banking carries with it many advantages. Important

among them are:-

1. The depositor's credit and influence are measured largely by the size and regularity of his bank account.

2. A tendency to economize by a desire to increase the

bank balance.

- 3. The banker becomes your bookkeeper and business counselor.
  - 4. Security against fire and robbers.
- 5. Indorsed checks are both records and receipts of payments.
- 6. A benefit to the community by keeping the money in circulation.
  - 7. Convenience in making change.

8. The bank will always loan to a good depositor in preference to one who is not a depositor.

There are only two operations in banking which need discussion here—depositing and checking. The banker will give all necessary directions regarding both, except as to keeping the individual account. This is illustrated on page 27, and will be thoroughly understood after Lesson 5 has been worked out. The special column Cash Book, pages 22 and 23, is an excellent form for keeping the bank account. If all cash is deposited and all payments made by check, the difference between the total columns represents the bank balance. As to deposits, it is preferable to deposit all cash, and then draw out for personal use as needed.

The method of handling checks is as follows: Record the payee, number, the amount, as illustrated under Cash Payments, page 38. The checks are satisfactory receipts, but the itemized bills should be pasted in the Bill File and bear the same number as the checks. The bank will usually furnish all necessary stationery free of charge. The bank balance is considered a part of the cash on hand, so that no special account except the check stubs and pass book need be kept with the bank. The bank balance is proved each month as

rin,	A CONTRACTOR OF THE STATE OF TH		
A CONTRACTOR	S L KLIN	A SAFE PLACE TO	
16		KOUTO	S 34
	SOLD TO Martin Harris, Blodge	ett, Oregon.	Saturday, Oct. 3rd, 1908.
477	M Martin Harris	Corvallis, Oregon, Apri	1 3, 1908 19
	Wagons, Plows, Harvesting Machinery, SHELF AND	H. HUSTON, Dr.  D. HEAVY HARDWARE  DEDICATE Wagons, Carriages, Etc.  WARE. Plumbing a Specialty  Relative	Graniteware, Pumpa, Pipe, Rope, Etc.
	Diamond Hay Carrier  1 Diamond Hay Carrier  25 lbs, Manilla Hay Rope 2  3 Hay Pulleys  1 Hay Fork	- 15¢ lb.	5 00 5 75 75 1 50
\$1 	Mr Marton Har	In account with	36
3)		LACKLEDGE	
8		HOUSE FURNISH	ER 3't)
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W.			A COSTA DE LA COMPANSIONE

BILL AND RECEIPT FILE

follows: Arrange the checks returned numerically. List the checks not returned; add the outstanding checks to the balance shown in the check register; the sum should agree with the balance in the pass book. It is often convenient to keep a special check register. Page 27 is a convenient form, showing the method of proving the balance at the bottom of the page.

The Ledger

With a special column cash book, the ledger can be dispensed with in most cases. The further classification of the sundry columns can be done at the end of the year, as illustrated on page 26, and a few pages of the Day Book can be devoted to "What We Owe Others" and "What Others Owe Us." Where a special ledger is found necessary, the form shown on page 18 can be used.

The old style ledger possesses some advantages over any other form. The debit appears on the left and the credit on the right side on the same page. It is used in either double or single entry. The difficulty of keeping the ledger in balance prevents the use of the double entry ledger to a very large extent. This is especially true if an attempt is made to use the ordinary Journal.

Direct entries into either the double or single entry ledger present less difficulties, and the method is recommended where the classification of accounts is such as to make the combined Cash Book and Ledger unpractical. This need scarcely ever be the case, however, because if ruled sheets cannot be obtained without headings, a blank sheet may be ruled with any number of columns and headed with titles to suit. For example, an orchardist would head his Receipt Columns: Apples, Prunes, Peaches, Small Fruits, etc. While an exclusive stock farmer would devote special columns to the different kinds of stock.

The advantage of the ledger method is that each account is more condensed, while the self-proving and labor-saving features are important in the Special Column Cash Book. Preparing a trial balance and balance sheet, and closing the ledger properly, though very simple for the experienced accountant, requires a proficiency in bookkeeping that few farmers possess.

On page 19 is an illustration of the ordinary form of directentry ledger, showing the entries for April 1st. Compare these with the first entries on pages 23 and 24, and note the similarity of results. In the form on page 19 follow the arrows and note that there is a debit for every credit, and vice versa. In the column marked (a) is entered the Day Book page, if the entries have been previously made in that book.

### The Voucher System

It is often preferable, especially on a large farm, and in a corporate business, to pay all bills by check. When this plan is followed, it is unnecessary to copy the items, as in the illustration, page 24, but merely to write the name of the payee in the items column. The distribution should be noted on the bill or voucher, and all the vouchers, together with the canceled checks, should be filed in envelopes, properly numbered to correspond with the number of the check. The accounts are fully illustrated on page 38.

## Adaptation of This System to Any Business

The foregoing system of accounting can be adapted very readily to any business, and it is especially recommended for a cash business, where the personal accounts are few. Instead of Hay, Grain, etc., the orchardist would head his columns Apples, Pears, etc., while other enterprises would use headings best suited to their business.

#### Orchard Accounts

On page 38 will be found two illustrations of the voucher system and the proper classification of orchard accounts. The only difference between the two forms is that Form B has a larger distribution of the payments and a smaller distribution of the receipts. Blank forms, No. 14-15 for A, and 16-17 for B, can be secured from the College Bookstore. The Assessment column in Form A, Receipts, is used in a corporate business. The personal accounts can be carried as illustrated on page 18, and the Special Records in Chapter VIII can be modified very readily to suit the needs of any special business. The continued inventory, illustrated on page 16, is recommended.

#### CHAPTER V

### HOUSEHOLD ACCOUNTS

It will be seen that no provision has been made in the General Cash Book for separate items in the household accounts. This is left for the housekeeper. The fact that her field is somewhat limited, from a business point of view, is no argument in favor of loose and careless methods of accounting.

Most housekeepers prefer to receive a fixed allowance for household expenses, whenever it is practicable. For the present purpose we will suppose that the following agreement has been entered into between the farmer and his wife. She is to receive the following:

Monthly Allowances for Household and Personal Expenses
For proprietor and wife\$25.00
Board for hired help
For four children 32.00
Sundries 18.00
Total\$90.00

In addition to the cash allowance, vegetables, poultry and dairy products are furnished from the farm at market price. The proprietor gives his wife an allowance of \$90 each month, either in one or in several payments, and enters it in his cash expenditures. His wife, in turn, enters her allowance in her record. Bills for furniture, clothing, and utensils are pasted in a Bill and Receipt File, same as in the Farm Accounts.

Note that the items entered in columns one and two are also entered in columns eight, nine, or ten, since they are purchases from the farm. Because they are entered both as receipts and payments, they do not affect the cash balance.

At the end of the year, the proprietor enters the totals of columns one and two in his cash receipts, under the proper headings, and at the same time they are entered as cash payments in the household column. See page 22, under April 30th. Thus the farm will receive full credit for what it sells to the household as well as to others.

It is suggested that the housekeeper open a private bank account and pay large items by check. See April 13th, 29th

and 30th. There are numerous advantages in keeping a bank account. See page 26. A bill for furniture, utensils, and improvements should always be taken and pasted in the Bill File. It is convenient to number the bills the same as the checks, as suggested in column six. Since endorsement by the payee constitutes receipt, it is generally unnecessary to take receipt when payment is made by check.

Page 34 shows a convenient form of a combined household Cash Book and Ledger. A summary of the receipts and payments is prepared at the end of the year, as shown on page 36.

#### Trial Balance

Groceries\$	13.05
Meat	11.80
Dairy and Poultry	12.40
Clothing	16.85
Furniture and Utensils	22.05
Help and Laundry	11.60
Library	6.65
Light and Fuel	6.10
Gifts	2.35
Personal	1.25
Travel and Recreation	3.00
Incidentals	2.65
Physician and Medicine	1.50
Telephone Rental	1.50
-	
Total\$1	12.75

# The Voucher System

It is often preferable, especially in a large household, to pay all bills by check. When this plan is followed, it is unnecessary to copy the items, as in the illustration, but merely to write the name of the payee in the items column as shown under April 29, Murdock Grocery Company. The distribution should be noted on the bill and all vouchers together with the cancelled check should be filed in envelopes properly numbered to correspond with the number of the check.

See illustration, page 38.

#### HOUSEHOLD ACCOUNTS

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### HOUSEHOLD

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CASH BOOK

						SU	мм	AR	ΥO	)F F	IOU	SEI	HOL	.D.	ACC	COL	INT:	s,	M	r	cl	l	31	,	15	909
Account	19	04	F	eb.	Mai	rch	AF	nd 8	M	ıy	Ju	e	Jul	y	Au	guet	Sep	d.	O.	1.	No	٧.	De	с.	Т	otal
RECEIPTS		١,																								
Sundnes	9	45	Ť		11	10	/2	80	. 8	53	10		//	45	9	80			10	40		50	_8	40		100
Produce	3	35	3	40	2	80	5	25	4	30	6			80		05		20	4	60		80		95	TΤ	790
Carb	$\vdash$	00	_	00	_	00	105		_	00		00			90		90		-	00	-	00	90		109	
Total	104	80	101	75	103	90	/23	45	102	85	107	05	107	25	105	85	103	75	105	00	105	30	103	35	27	430
PAYMENTS																										
Sundries	_			H							-			_	-				Н				_		H	
loculental	1	40	_2	40	محتن	45	2	65	_5	30	3	70	2	40		05	3	00		15	3	20		40	$\mathbf{r}$	310
Tradel & Re.	<u> </u>		1	50	2	00	3	00	_/	60		_	_		_	20		-		00				20		850
Tersonal	-/	25		80	/	33	1	25		00		50		00	_	40		50	2	40	1	50		00		993
Gifts	-	50		00	11		2	35		25		00		30		50	_2	60	_	75	_2	$\vdash$	~	40		000
Light, Fisch	4	20	٤	20		20	6	10		00	4	20		60	7	20	$\vdash$	Н	3	30	6	30		20		520
Library	.3	75	_	40	2	05	6	65	- 4	90	_		_	35	<u> </u>			75					/	20		205
Help, Laundry	13	80	14	50	17	30	11	60	12	50	/2	00	15			60	13	40		50	11	20		30		290
Furniture Utenale	_		18	00	_7	60	22	05	1	30			-	40		-	15	00	3	20			9	60	8	415
Clothing	11	50	20	00	29	00	16	85	7	30	23	2.5	13	20	7	50	8	40	28	50	5	50	32	960	20	340
Dairy	5	50	5	40	7	20	6	50	4	50	6	00	5	10	6	10	4	45	3	55	6	25	4	65	16	720
Poultry	3	95	14	80	4	65	5	90	4	05	4	65	6	33	3	70	4	10	4	85	3	25	3	75	1 4	600
Meat	6	30	5	20	13	70	11	80	10	40	//	30	12	20	//	40	8	30	7	20	6	20	10	30	14	4/80
Groceries	12	35	11	30	12	75	13	05	25	30	16	85	19	30	18	40	15	35	1,3	40	14	70	19	50	19	223
SPECIAL	H		-		-	H			-	-				-	H						$\vdash$				H	+
Thyon Men				75		50	/	50						46				25	-		2	00	,	50		740
Telephone	1	50	/	50	/	50	,	50	1	75	,	50	2	00		50	1	50	/	75		50		00		950
MusicLes	mas	00	3								Γ			٦	Ĺ		5			00		00		00		3000
Savings	D	1	3						20	00	8	00			12	00		00	-		20	1	Ť			500
1																										1
		-		-		-				-			_	L	-	-			_			_	-		H	-
Balance				-																		-	-			290
Total	71	co	107	75	1/2	60	//2	75	101	15	98	45	99	20	95	55	89	10	106	75	90	60	156	40	1	1430
			NO	TE~	The	ma	the '	Sund	jes" e	d "le	cidenti	l" Ca	-	-				-	cial A	ccour	u."				7	

SUMMARY OF HOUSEHOLD ACCOUNTS

#### CHAPTER VI

#### THE ANNUAL STATEMENT.

The annual statement exhibits in a condensed form the financial operations for a given period. It shows the resources and liabilities, the cash receipts and expenditures, the profits and losses, the net profit or loss, and the net worth. It enables the proprietor to analyze his business with considerable accuracy and to trace the sources of profits and losses. There are various forms of statements, but the illustration on page 39 seems best suited to the farming business. Statement No. 3 shows the results of a month's business only. The inventories are obtained from separate schedules and the cash receipts and expenditures are the totals found in the Cash Book.

The revenue accounts, or the accounts showing profit or loss, are fully analyzed on page 40. This is wholly independent of the other records. Three or four of the principal enterprises may be analyzed, as in the illustration, or the statement may go into greater detail to suit the condition of the business. In-

dividual cost accounts are illustrated on page 43.

The method of preparing these accounts is as follows: Take the Grain account for example. We debit it with all the items that enter into the cost of its production, and credit it with the returns. The first item of cost in last year's inventory Financial Statement No. 2; Lesson 4), is \$377.86; Labor (Horse and Man, from Labor Record), \$440.00; Interest on the value of Land devoted to Grain (56 acres @ \$55.00 per acre), 6 per cent., \$184.80; Seeds and Fertilizers (Cash Payments), \$129.71. The returns are: Present Inventory, \$380.00; Cash Receipts, \$712.43; Fed to Stock (Feed Record assumed), \$770.07; Fed to Poultry, \$50.00. From this we obtain the net profit, \$780.13.

In a similar manner we consider the Stock account and the Hay account. The illustrations, pages 39 and 40, show the

figures supplied from each account.

It should be borne in mind that this exercise in cost accounting is only suggestive. The principles are fundamental and correct, but their application in practice may vary greatly.

220 11150 1115 Supulb Stack	Form A. FOR THE MONTH OF November	NAMES OF THE PROPERTY OF THE P
Secure 1 1994   1995	Perm a lepticional focieta, CASH RECEIPTS & PAVMENTS.	Stock Grops Find Due Committee

Form B.

ORCHARD ACCOUNTS

Thus, some farmers will charge live stock a certain amount for housing, perhaps also for the use of utensils, machinery, and the like; others will insist on deducting the cost and care of the dwelling from the annual farm inventory, since this is not capital invested in the business. For a full discussion of this subject, see Bulletin 73, Bureau of Statistics, U. S. Department of Agriculture.

	Cash Receipts	and Payments	
Receipts		PAYMENTS	
Grain Hav Orchard and Garden Stock Dairy Poultry SUNDRIES (itemize below)  Day 126.04 342.00	* 7/2 H 3	Household and Personal Seeds and Fertilizers Hired Labor. General Expense and Marketing Stock and Feed Implements Improvements Repairs SUNDRIES (itemize below)  Sundries (itemize below)	50
	1/19/1	Total	1/191
Total	841.7.7.7.2.	Total	\$150.0 / 551.225
	Resources a	nd Liabilities	
RESOURCES		LIABILITIES	_
Farm (market value). Caeh and Bank, as above Life Insurance, paid up value. Stock (a) Grain (a). Hay (a) Orchard and Garden (a) Dairy Products (a) Poultry (a) Implements (a), Household Goods (a). General Supplies (a).	\$9070 127186 127812 1278 12055 12055 125240 1479476	Hired Labor Bills Payable Accounts Payable Gifts  Net worth Total	\$ 3.5 \$2.0 \$4 \$4 \$1/1429 76 \$1/4794 76
(a) As per Inventory. (b) Difference between R			
Net worth as a Net worth last Gain for the y Less interest o	bove	11429.76	

		m P	
Accounts Showing	Profit or Loss	, Year Ending March 3	1, 191.0.
(Amounts are tal	ken from Inventorie	es, Cash Book, and Special Records.)	
	GRA		
Совт.		RETURNS.	1 -
Inventory last year Labor Interest on Value of Land Seed * Fertilizers, Gash	\$ 377 86 184 80 129 71	Present Inventory. Receipts from Sales Fed to Stock. Fed to Poultry.	\$ 380 71243 730 07
Net Profit	780 13		
Total	\$19.12.50	Total	\$191250
	STO		
Созт		RETURNS.	1.10
Inventory last year Labor Grain Hay Interest on Inventory last year Pacturage on Land	\$1966 385 770 07 1149 80 115 96	Present Inventory Receipts from Sales Receipts from Dairy Labor (Cash Receipts	1300
bash	445 20		
		f	
Net Profit	45274	***************************************	
Total	84.4.21.77	Total	84.421.77
Cost.	ORCHARD A	ND GARDEN RETURNS.	
Inventory last year Labor and Marketing Interest on Land	\$	Present Inventory	<b>\$</b>
Net Profit			
Total.:	\$	Total	\$
	`HA	\Y	
Cost.	117	RETURNS.	
Inventory last year. Labor Interest on Land.	* 130 30 63	Present Inventory	8 16875 20420 1.4980
Net Profit	299 75		
Total	8.522 75	Total	\$ 522 75
			,
Cost.	ccount)	RETURNS.	
	<b>\$</b>		\$
***************************************			
•••••		***************************************	
• • • • • • • • • • • • • • • • • • • •			
Total	8	Total	8
l			

#### CHAPTER VII

## COST OF PRODUCTION

Too often a good farm is compelled to carry unprofitable experiments and the whole business is pronounced a failure without an adequate attempt to find a remedy. In addition to the foregoing records, Mr. Harris has kept accurate cost accounts of the main branches of his business. In cost accounting there are four principal elements to consider: material, labor, interest, and depreciation. The cost records are independent of all the rest and may be kept of every branch of the business, if desired, or limited to one or more phases. In this instance, cost records have been kept of Live Stock, Grain, Hav. Dairy Products and Improvements. The Agricultural Experiment Stations are always willing to give the farmer important advice and assistance regarding the stock, grain, fruit, etc., best adapted for different localities and purposes. But conditions frequently arise where it is important for the farmer to carry on his own experiments. Your own Experiment Station will doubtless be glad to co-operate and suggest methods for carrying on such experiments even to the extent of furnishing necessary blanks and material. Important bulletins on the subject may be had for the asking from the Department of Agriculture, Washington, D. C.

The following announcement in the Crop Reporter for May, 1908, indicates what the government is doing in this direction:

## Cost of Producing Farm Products

"The Bureau of Statistics is making an investigation of the cost of producing farm products in different parts of the United States. Blank forms have been printed upon which to make reports, and this Bureau desires to receive the names of such farmers as have kept records of cost of producing crops, or are well informed upon the subject of cost of crop production in their locality, in order that blank schedules may be sent to them to fill in. Individual reports will not be published—only the average of many reports. Names should be sent to the Bureau of Statictics, Department of Agriculture, Washington, D. C."

Every farmer should avail himself of this important free service. "Keeping posted" is one of the characteristics of the progressive and successful farmer. There are two exceptionally valuable bulletins on the subject which ought to be in the library of every farmer: U. S. Department of Agriculture, Bureau of Statictics, Bulletin No. 48, and University of Minnesota, Agri. Ex. Station, Bulletin No. 97.

#### Live Stock

Either of three methods may be employed in finding the cost of live stock.

First Method. Ascertain exactly the total amount of grain, hay, and roughage on hand at the beginning of the year, and produced during the year. From this subtract the quantity sold, including amount used by the household and for seed, and the amount on hand at the end of the year. The difference is the quantity used for live stock. The value at market prices

is the expenditures of feed for live stock.

Find the total amount received for dairy products, including amount used by the household. The difference between the cost and the receipts is the gain. The disadvantage of this method is that no account is taken of individual animals nor of different kinds of stock. The herd as a whole may be a paying investment and still there may be individual animals carried at a loss. It is desirable that such records be kept, at least occasionally, as will enable the farmer to eliminate unprofitable animals.

Second Method. The following actual record of a dairy herd of twelve cows illustrates a much more satisfactory test than the preceding. Individual record was kept of the milk produced by each cow, but the feed was weighed for the entire herd, and the average cost charged to each animal at market prices.

With this average before him, a careful feeder will be able to make mental corrections for each individual animal, accurate enough for most practical purposes. The milk record has

been kept, as illustrated on page 49

	Pe	art	1	Dainy Cow!		
1908			T		11 4	
ap 1 Market value		apr	/	Melk produced	45	_
1. ayear age	50	/ .		Milk produced	67	50
Tees for the year	423	0		Call	5	
Carl	4					
Delaning	1	0				
1 7 T					-	
doctor	2		+-+		-	
Interest on 50. 7	7 33	0	$\vdash$			
Incidental	2					
- Incidental Net Sam	132	0				
	1173				117	.57
			$\vdash$		-/:/	01
		-	$\vdash$		-	
		111				
			1			_
1908	20 1.	hea	1	2.5		
6/1////////////////////////////////////	2001.	16/		Value of Land now	1078	
up I value of dans	11.	ago .	+++		10.0	_
at year ago	1100		+	(Less 2 Ho for over	-	
Labor & Tome Ses S, 3g bu	77			cropping 1		
Labor & Twine			-	418 bu Wheat		
Seg S 3g bu.	30			@ 754	313	50
Threshing	29	25		Stano	15	-
	0					
Marketing	8		+			
Tertilizers			$\perp$		-	
Net Gam	99	25		. [		
	1406.				1406	50
			-		-	
			+		-	
			+-		-	
						_
		111			1	

COST ACCOUNTS

#### Test of Dairy Herd for March, 1909

No.	Lbs. Mill	ζ.	Lbs.	Val. at	Cost of '	Net
Cow.	for Mo.	*Test.	Fat.	36c.	Feed.	Profit.
1.	465	4.5	20.93	<b>\$ 7.5</b> 3	\$6.21	\$1.32
2.	372	5.0	18.60	6.70		.49
3.	620	5.0	31.00	11.16	66	4.95
4.	372	7.0	26.04	9.37	46	3.16
5.	496	4.8	23.80	8.57	66	2.36
6.	682	4.7	32.05	11.54		5.33
7.	558	4.4	24.55	8.44	66	2.23
8.	620	4.1	25.42	9.15	. 66	2.94
9.	496	4.2	20.83	7.50	66	1.29
10.	651	4.9	31.90	11.48	66	5.27
11.	558	5.0	27.90	10.04	. "	3.83
12.	589	5.0	29.45	10.60	"	4.39

\*These figures were obtained by the Babcock test, which is described in every modern work on dairying.

#### Feed for the Month of March

Hay, 4,900 lbs. at \$9.00 per ton	. \$22.05
Kale, 9,600 lbs. at \$2.50 per ton	. 12.00
Bran, 1,800 lbs. at \$30.00 per ton	. 27.00
Shorts, 900 lbs. at \$30.00 per ton	
•	

Total ......\$74.55 74.55 divided by 12 equals 6.21, average cost of feed.

Third Method. The difference between the second and third methods is that in the latter accurate records are kept of individual feed rations, while in the second method an average is taken. The error resulting from averaging the feed between all the animals in a large herd may be such as to unduly favor certain animals and do injustice to others. The only absolutely accurate method is to keep an account with each animal; at least with such animals as show a tendency to be unprofitable. Page 43 shows an individual account with one of the milch cows on the Harris farm. It is arranged on the regular Ledger form. Opposite pages of the Day Book may also be used. The detailed information regarding Feed, Milk, Labor, etc., is found in the respective records, illustrated on pages 49 and 50 respectively. Similar accounts are kept of each animal, tested preferably during the entire lactation

period. It is only in this way that the careful farmer can determine whether each animal is kept at a gain or a loss. The weeding out of one or two unprofitable animals a year will pay for the labor of keeping the cost records many times over.

#### Cost of Crops

The principles laid down in respect to the cost of animal products hold true also for the cost of farm crops. Two methods suggest themselves. Accounts with the various crops and accounts with the different fields. Either method requires detailed records of the labor, seed, fertilizer, etc., expended on the crop and of returns not only for cash sales, but for products used by the household and for feed. On page 43 is illustrated an account with the wheat crop in 1908. Only one item needs explanation, that of depreciation, due to continuous cropping. Whether the rate, two per cent, is too high or too low, matters little; the important point to be emphasized is that the value of the land diminishes unless rotation of crops is practiced.

#### CHAPTER VIII

#### SPECIAL RECORDS.

There are several convenient special records which ought to be adopted, besides those I have illustrated. It is not necessary that expensive printed books be provided. A plain sheet of paper may be ruled as suggested below and pasted in the Bill File. In fact, this is in many respects preferable to printed forms, because the forms can then be changed from year to year to suit conditions.

#### Labor Records

The best form of labor record is illustrated on pages 49 and 50. In one, account is kept with the object upon which labor is expended; in the other, with the laborer. For ordinary purposes, page 49 is the most convenient, but where several men are engaged on a project, form (a), page 51, is preferable.

Where the loose leaf book is used it is convenient to tack a sheet to a board, and hang it in a convenient place until it is filled, when it may be filed permanently. See illustration, page 53.

#### Milk Records

Two milk records are illustrated on pages 49 and 51. Each possesses certain advantages over the other. The weekly record need not be so large and admits of larger spaces, while the monthly record exhibits the entire month's result on a single page. The weekly record is more appropriate for filing, being less liable to soiling. Whichever form is used, it should be tacked to a board in a convenient place for the milker. A spring scale, graduated to hundredths, should be hung near the record, far enough from the wall for the pail to hang freely. The original records should be filed for at least a year. If a daily time book is kept, it may also be adapted for the milk and poultry records.

## Poultry Records

Practically the same form as the milk record can be used conveniently for the Egg record, and it is not deemed necessary to enlarge further on the subject.

The methods of improving the poultry stock, and other ful information regarding the poultry business, is found in numerous books and bulletins on the subject.

### **Duplicating Sales Book**

It is often convenient to retain a duplicate of sales, orders, receipts, etc. It will be found very helpful to the farmer and to the dealer alike, if the farmer prepares a bill of the produce he brings into town for sale. This will often avoid misunderstanding and may save money. This is especially true if the produce is sent in by children or by someone not connected with the family. On page 51 is illustrated a very convenient book which is kept in stock in most stationery stores. Where this system is used, it is advisable that *every* sale be recorded, and then listed as shown on page 50. In entering in the Cash Book, the sale number should be inserted. All sales to merchants should be considered as cash, even if the produce is exchanged for merchandise. If sales are made on time, note the fact on the bill, and enter it into the personal account as illustrated on page 18.

### The Farm Plot

There is one more record which I cannot urge too strongly. I refer to the yearly plots. This record will prove to be one of the most valuable and interesting parts of the farm history. A plot is easily made by first drawing a square on a blank piece of paper and then sketching the fields. It is, of course, unnecessary to draw this to scale. A close approximation is all that is necessary. Below is an illustration.

### The Farm Office

Talk about an office on the farm! Why not? Why should not the average farmer enjoy at least a comfortable desk and neatly printed stationery? Every boy loves "to do business." Surround him with a business atmosphere on the homestead and he will stay by you and succeed you in your old age; continue in your slip-shod methods and he will move to town and become a cheap clerk instead of a landed proprietor. Encourage your children to assist in your business; make them feel that they are intimately associated with you; take them into your confidence and, as they grow older, into your counsel,

especially when you are considering your annual balance sheet and a greater prosperity, wider influence, and a more con-

tented family will be your reward.

A very convenient desk is illustrated on page 6. Besides the usual drawers, pigeon holes, etc., it contains a fire proof safe which affords ample protection against fire and burglars. It is built especially for farmers by The J. K. Gill Company, Portland, Oregon, at a very moderate price.

## MILK RECORD

					W	eek (	endii	ng	9	un	e	3			19	0.9	7
Test	NAMES		Sut	day	Mor	iday	Tue	sday 0	Wedn	esday	Thur	sday	Fris	day	Satur	day	Total
	NY		Mor														// -
4.5	Rale		/2	10	12	11				/3	12		11	12	12	12	162
5.0	4		13	13	13	14		13	12	13	14	13	14	8	13	9	190
7.0	Diget		7	8	8	7	8	12			10		10		7	7	153
4.8	Dady +		11	11				13			12						164
4.7			12				//			12							158
4.4	Menco		12	/3	1//	/ -	//	12	70	10	10		//	//-	10	70	700
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-																	
					<u> </u>	<u></u>	1	<u> </u>	<u></u>		1	1	l	<u></u>		ł	
	(w) Feed Record, Dairy Gows; June 1909																
(u)	Feed Re	rord, a	Da i	ry	Gou	15;	Ju	ne	.19	09	,						
Weigh	A Name or No.	1234	567	891	2/1/2	3/4/	1417	18 192	2/22	272425	26 27 2	82930	31 To	tal	Value	Re	marks
Soo	Kate (a) Grain (4) Soil	4	-											15	Ŧ	n	2 an
-000	(4) Soct		$\mathbf{H}$		H	+		+	$\blacksquare$	$\pm$	$\blacksquare$			920	4/2	ay	fife
973	Anthia	80				. 5								420	631	9	
144	Sudget	6	#		141	000	111	#		#	+		1	75 840	618		
		y I	#	H	"	#	H	#	H	#		#			0 / 1		
112	o Lady	95	+	H	$\mathbf{H}$		H	+		+			21	30	6 18	2	
83	Deanty	4 68	$\blacksquare$									$\perp$	. 2	18	437		
14./	flours	6	#	Ш	$\Box$			#		#			1	50	1 4		
/7.T	bounds, 130.00 p.	e ton;	14 6.	-6	/our	-1/2	.50 \$	See Z	<u></u>		-1-1	1	11.2	y 20		-	
4)	Darly L	abor	Ke	cor	8,	Ju	ne,	19	09								
<b>T</b>	account	1234				<u> </u>		18102	2/2	2 2 2 2 2 2	3	020 20	21 H-	Rate	Amil	7	marks
		1 2 3 4			77		1917	1772	1		1	100			-	+	
	Corn Stock		1	99	9	H		,	+	+	H		36		360		u 4 /sam
	1. Plack		H	+++	+	2	++	4	+-		H'	4	1/2	1 15	90		1
- 6	Improvements	3		H	1 4	H	1	1	+	1		1	1	3 15	19.	1	
- 1	Jachinen 7 Jus		2 1		11			M	3			T	1	15	10.		
	acountry To Soup				11	Ш			TŤ								
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Live Weight	NAME OR NUMBER		90×0	Y	1	MONDA	¥	7	0E4D	LF I	77.0	DNES	DAN	- 10	Anes	A V		FRIDA	•		TUBD	AV		ta	1
		Hey	Greio	1	May	Crais	fiell	Hey	Grein	foil	216y	Grein	Sort	May	Crate	Soil	Hay	Grein	Soil	Hey ~ ~	Grais 	Sell-	Hay	Grein	048
800	Kate		4	64		4	63	i	3/2	63		4	65		4%	64		3%	62		4.	64		27%	443
-	-			1	-		1			1								;							
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								1 .																	

## Stock Record, Harris Farm

No.	Animal	Breed	Bir	th	Mark Golor	How disp's of	Buyer	Date	Weight	Price
35	Cow	Jersey Fanne	1904 Feb	4		50/6	J. P. Smith	1907 Aug	5 1000	80
36	Steer	S. H.	May	8	Res	"	John Wenkle	Seb.	8 1150	60
37	House	Mand			Bay	Dies				
1	2	3	4		5	6	7	8	9	10

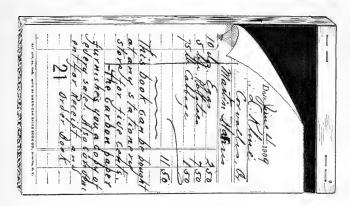
# Breeding Record, 1909

A/	An	ima/	/		_	a1			Sire	Faa	Outnor	Remarks
No.	Horse (	91/2 mo.	Hog 4mo.	Br	eб	Du	e L	rop'd	one	100	Vioner	ΠΕΤΝάΤΑΣ
/	Mand			4	15	4	1	415	Prince	1500	Hopkins	normal
2	d	Coutta			5	102		1 1	Paul		1 9 //	/ .
3			No. 5	12				17	2	_	Self	5 med.
/		2			-	3			4	5	. 6	7

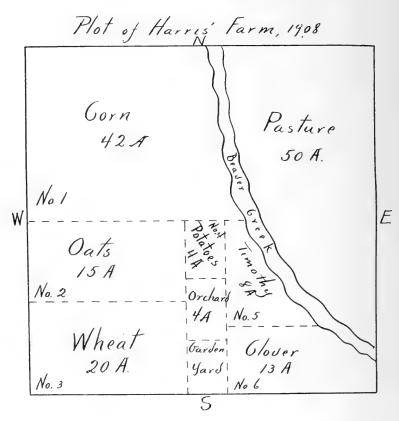
## Sales Record, 1909.

Date No. To whom	Articles	Par	6	Char	ge.	Page
Nov 4 14 Johnson Bros	12 Da Eggs 2 40 5 lb Sutter	3	65			
7 15 Kahn El. Co	340 bu. Com	170				
1016 avery Hotel	25 bu. Potatoes	12	50			
25 17 8. P. Smith	5 bu. Potatoes			2	5.	
27/18 Chicago Marker	15 Steers 5462 lb	191	70			
1 2 63	4	5	7	6		7

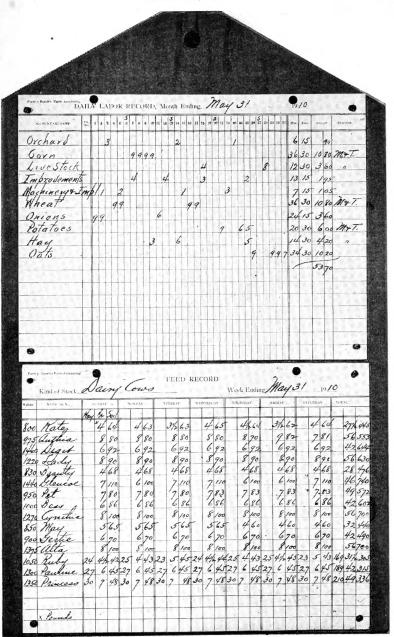
(a) Improvements, Horse Darn TIME BOOK for the	South of June 1909
NAME. 1234687 0 0 10 11 1232 C. Nalkraham 899 7999 John Brown 799 5 Lewing aldgar 799 5 Arvid Johnson 78 888 M. Andrews 78 9999	20 20 20 20 20 20 20 20 20 20 20 20 20 2
Gorchard Nguny Seorge 3 214	TIIN TAINE
This book can be bought at any statemery store for ten cents.	May also be adapted for Milk Record Feed Record Egg Record



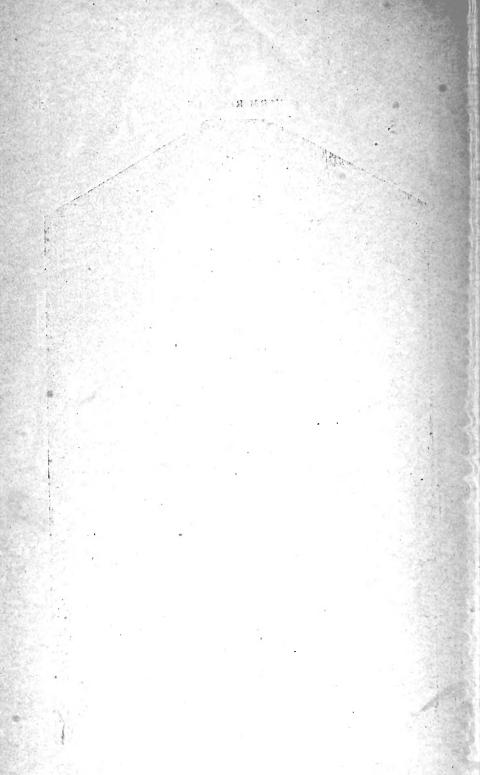
TIME AND SALES BOOK

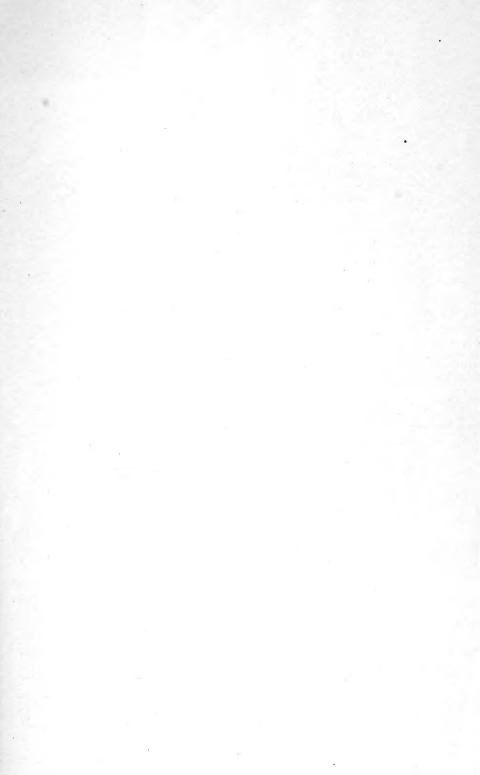


THE FARM PLOT



MILK AND LABOR RECORD







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