#### SECTION C: MULTI-YEAR DATA AND COMPARATIVE ANALYSIS

This section of the Oklahoma Farm and Ranch Account Book contains pages for recording financial, production, and special information which will be updated each year and transferred to each succeeding year's book. The year-to-year data and comparative analysis contained in this section will provide the user with a historical summarization and analysis of the business.

The following is a description of the pages contained in this section.

**MAJOR ASSETS LISTING:** These pages allow the user to maintain a historical listing and market valuation of the operation's major assets.

**DEPRECIATION RECORD:** Depreciation pages provide users the opportunity to maintain and calculate each year's depreciation deduction. For financial analysis, the user may desire to maintain a depreciation schedule calculated on each assets "useful life" while the accountant maintains a separate depreciation schedule based on "tax law life".

**CROP PRODUCTION:** These pages provide for the collection and summarization of data on a field-by-field basis. This data will not only be valuable for the user in the evaluation of each field's performance, but also for recording chemical usage as requested by regulatory agencies.

**REAL ESTATE RECORD:** Space is provided for maintaining pertinent information relative to each tract of land operated, whether the property is owned or rented.

**PRODUCTION & FINANCIAL ANALYSIS:** The historical financial and production data maintained on these pages will provide users an excellent overview of the operation's historical performance. These pages will provide a condensed summarization useful to management, investors, and creditors in the decision making process. Photocopies of these pages would make a valuable addition to credit files, providing supporting information for the extension of credit.

**INCOME TAX:** This page provides for the listing of key items of information from each year's income tax return. Substantially all individual income tax returns are reported on a cash basis and cash basis accounting frequently results in erratic reporting (recognition) of net income. This multi-year listing of tax return information provides the user with historical data which will moderate year-to-year erratic amounts.

**SPECIAL INFORMATION:** This page provides for the listing of family and business information which can be useful to an accountant, attorney, insurance agent, and family members.

#### **BREEDING LIVESTOCK LISTING**

Page C-2

	DESCRIPTION	20	20	20	20	20			
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28									25 26 27 28 29
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	TOTALS <sup>1</sup>								

<sup>&</sup>lt;sup>1</sup> Should equal the sum of the ending balances for Purchased Breeding Livestock and Raised Breeding Livestock in Farm Assets, page A-11c. Also, cross-reference with Livestock Depreciation Record, page C-7a and b, if maintained.

	DESCRIPTION	20	20	20	20	20			
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	TOTALS <sup>1</sup>								

<sup>&</sup>lt;sup>1</sup> Should equal the sum of the ending balances for Machinery and Equipment in Farm Assets, page A-11d. Also, cross-reference with Machinery & Equipment Depreciation Record, page C-6a and b, if maintained.

#### **BUILDING AND IMPROVEMENT LISTING**

Page C-4

	DESCRIPTION	20	20	20	20	20			
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	TOTALS <sup>1</sup>								_

<sup>&</sup>lt;sup>1</sup> Should equal the sum of the ending balances for Buildings and Improvements in Farm Assets on page A-11g. Also, cross-reference with Building & Improvement Depreciation Record, page C-8a and b, if maintained.

#### RENTED REAL ESTATE RECORD

	Common Name	Logal Description	No. of Acres	Date	Written Or Verbal	Cash Rent Amount	Crop Share Percent	Lessor's SSN	Crop Acres	Pasture	CRP	CRP Expiration Date
1	Common Name	Legal Description	Acres	Acquired	Or verbar	Amount	Percent	3311	Acres	Acres	Acres	Date
2												
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# MACHINERY & EQUIPMENT DEPRECIATION RECORD<sup>1</sup>

Description   MADY   Per Unit   Years   Mathod   Election   Depreciation   Permaining   Permaining   Depreciation   Permaining   Depreciation   Permaining   Depreciation   Permaining   Depreciation   Permaining   Depreciation   Permaining   Depreciation   Dep	L		Purchase Date	Cost or		Useful		Section 179	Additional	ivage van	0		20		_	L	i
	n e	Description				Life (Years)	Depreciation Method	Expense Election	1 <sup>st</sup> Year Depreciation		Acquisition		Acquisition	ı			
3         4         8         9	1															1	1
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7         8         9         9         10         10         10         10         10         10         10         10         10         10         10         11         10         10         11         11         10         11         11         10         11         11         11         10         11         11         11         11         10         11	5															5	5
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9	7															7	7
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23         6         7         7         7         7         7         7         7         7         7         7         7         7         7         8         7         7         7         7         7         7         8         7         8	21															2	21
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28         29         29         29         30<	26															21	26
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	Α	TOTAL MACHINERY	1	1	1 1												

<sup>&</sup>lt;sup>1</sup> Cross-reference numbers with Machinery and Equipment in Farm Assets list, page A-11d, and Machinery and Equipment Listing on page C-3, if maintained.

# MACHINERY & EQUIPMENT DEPRECIATION RECORD<sup>1</sup>

	Remaining Cost Jan 1	Acquisition	Annual Depreciation	Remaining Cost Jan 1	20	Annual					20			i
1 2 3		Acquisition			Acquisition	Annual	ъ	A : :::	A 1	<b>.</b>				n
3						Depreciation	Remaining Cost Jan 1	Acquisition	Annual Depreciation	Remaining Cost Jan 1	Acquis	ition	Annual Depreciation	е
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<sup>&</sup>lt;sup>1</sup> Cross-reference numbers with Machinery and Equipment in Farm Assets list, page A-11d, and Machinery and Equipment Listing on page C-3, if maintained.

Page	of
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# LIVESTOCK DEPRECIATION RECORD<sup>1</sup>

Purchase   Description or purchase   Description or glass   Descri	L				Cost or										20					L
1	i n						Depreciation		Additiona 1 <sup>st</sup> Year	ıl		Remaining Cost Jan 1	<i>A</i>	cquisitions Ouring Year		Bas	sis of Livestock Id During Year	С		i
2	е	Of Livestock	(M/D/Y)	Hd	Amount	(Years)	Method	Election	Depreciation	on	Hd	Amount	Hd	Amoun	t	Hd	Amount	Hd	Amount	е
3         4         8         9	1																			1
4	2																			2
6         6         1	3																			3
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8         9         1	6																			6
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18         Image: control of the c	16																			16
19         0	17																			17
20         1         20         1         20         20         20         21         20         21         21         22         21         22         22         23         24         25         25         25         25         25         25         25         25         26         25         26         26         26         26         27         27         27         28         27         28         29         29         20 <td>18</td> <td></td> <td>18</td>	18																			18
21     1     1     2       22     23     24     25     24     25     25     25     25     26     25     26     27     27     27     28     20     2	19																			19
22         0         0         0         0         0         0         0         0         22           23         0	20																			20
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27         28         28         28         28         28         28         28         28         28         28         29         29         29         29         29         29         29         29         29         29         29         29         20<	25																			25
28         6         1         1         1         28         28         29         1         1         1         1         1         29         29         30         1         1         1         1         1         30         30         1         1         1         1         30         1         30         1 <t< td=""><td>26</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>26</td></t<>	26																			26
29         29           30         30	27																			
30 30	28																			28
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		OTAL LIVESTOCK	ı	1	<u> </u>	1														

<sup>&</sup>lt;sup>1</sup> Cross-reference numbers with Purchased Breeding Livestock in Farm Assets list, page A-11c, Beef Cow Production Analysis, A-19, and Breeding Livestock Listing, page C-2, if maintained. Check page A-8b, column 25 for Breeding Livestock Purchases.

Page	of
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# LIVESTOCK DEPRECIATION RECORD<sup>1</sup>

L				20	)								20_						L
n e		Remaining Cost Jan 1		Acquisitions During Year			sis of Livestock old During Year		Annual Depreciation		Remaining Cost Jan 1	Ad Du	equisitions uring Year	E	Basis of Livestock Sold During Year		Annual Depreciation		n e
	Hd	Amount	Hd	Amount		Hd	Amount	Hd	Amount	Hd	Amount	Hd	Amount	Hd	Amount	Hd	Amount	1	
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<sup>&</sup>lt;sup>1</sup> Cross-reference numbers with Purchased Breeding Livestock in Farm Assets list, page A-11c, Beef Cow Production Analysis, A-19, and Breeding Livestock Listing, page C-2, if maintained. Check page A-8b, column 25 for Breeding Livestock Purchases.

# **BUILDING & IMPROVEMENT DEPRECIATION RECORD**<sup>1</sup>

L		Purchase	Cost or	Useful		Section 179	Additional	ivage van	0	_		20		L
n e	Description	Date (M/D/Y)	Other Bas Per Unit	Life (Years)	Depreciation Method	Expense Election	1 <sup>st</sup> Year Depreciation	Remaining Cost Jan 1	Acquisition	Annual Depreciation	Remaining Cost Jan 1	Acquisition	Annual Depreciation	n e
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Α	TOTAL BUILDINGS & IM	/IPROVEMEN	ITS											

<sup>&</sup>lt;sup>1</sup> Cross-reference numbers with Buildings and Improvements in Farm Assets list, page A-11g, and Building and Improvement Listing, page C-4, if maintained.

#### BUILDING & IMPROVEMENT DEPRECIATION RECORD<sup>1</sup>

L		20	_	2	20	<u>g ====</u>	iciuues Saiva	20		2	20	L
n e	Remaining Cost Jan 1	Acquisition	Annual Depreciation	Remaining Cost Jan 1	Acquisition	Annual Depreciation	Remaining Cost Jan 1	Acquisition	Annual Depreciation	Remaining Cost Jan 1	Acquisition	Annual n Depreciation
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<sup>&</sup>lt;sup>1</sup> Cross-reference numbers with Buildings and Improvements in Farm Assets list, page A-11g, and Building and Improvement Listing, page C-4, if maintained.

Field	Year	Crop(s)		Used	Chemicals A			N	Р	K	Lime	Total	Yield
1 1010	1 501	J. OP(0)	Rate/A			Date	Rate/A		lbs/a	lbs/a	Tons/a	Yield	Acre
			Rate/A	Variety	Name	Date	Rate/A	105/a	105/a	105/a	10115/a	rieiu	Acre
							-						
							+						
							1						
							1						
				<u>l</u>									

<sup>&</sup>lt;sup>1</sup> Cross-reference with Forage and Crop Production Record, page 20.

	DESCRIPTION	20	20	20	20	20			
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30									30
<u> </u>	TOTALS <sup>1</sup>								

<sup>&</sup>lt;sup>1</sup> Should equal the sum of the ending balances for Real Estate (Land) in Farm Assets, page A-11g.

#### **OWNED REAL ESTATE RECORD**

				No. of	Date	Cost or	Basis To	Basis		Conservation	l
	Common Name	Legal Description	Exact Name(s) on Title	Acres	Acquired	Basis	Depreciation	In Land	Date	Description	Amount
1											
2											
3											
4											
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# **PRODUCTION ANALYSIS**

ACREAG	SE .	
	Total Acres Operated	
	Total Acres Owned	
	Total Crop Acres	
	Total Pasture Acres	
	Total Irrigated Acres	
CROP P	RODUCTION RECORDS	
	Wheat	Acres
		Bu./Acre
		Acres
		Bu./Acre
		Da.// tore
		Acres
		/Acre
		Acres
		/Acre
	Hay	Acres
	<del>-</del>	Tons/Acre
		Acres
		/Acre
LIVESTO	OCK PRODUCTION RECORDS	_
	Cow-calf	Cows
		% Calf Crop
		Weaning Wt.

	FRODUCTION ANALTSIS									
20	20	20	20	20						
		T								

# **FINANCIAL ANALYSIS**

FINANCIAL STATEMENT DATA:	PAGE	20	20	20	20	20			
Total Current Assets	B-6								
Total Assets	B-6								
Total Current Liabilities	B-6								
Total Liabilities	B-6								
Gross Farm Income	B-9								
Total Farm Expenses	B-9								
Net Farm Income from Operations	B-9								
Net Farm Income	B-9								
LIQUIDITY:									
Current Ratio	B-11a								
Working Capital	B-11a								
SOLVENCY:									
Debt to Asset Ratio	B-11a								
Debt to Equity Ratio	B-11a								
PROFITABILITY:									
Rate of Return on Assets (ROA)	B-11a								
Rate of Return on Equity (ROE)	B-11a								
FINANCIAL EFFICIENCY:									
Asset Turnover Ratio	B-11b								
Operating Expense Ratio	B-11b								
Depreciation Expense Ratio	B-11b								
Interest Expense Ratio	B-11b								
Net Farm Income from Oper. Ratio	B-11b								

#### **INCOME TAX INFORMATION**

	Α	В	С	D	Е	F	G	Н	I	J	K	L	М
Year	Wages	Interest &	Sch. C	Capital	Sch. E	Farm	Adj Gross	Adj	Taxable	Credits	Other	Fed. Tax	State Tax
		Dividends	Income	Gains	Income	Income	Income	To Income	Income		Taxes	Liability	Liability

Information for columns A thru H can be found on page 1 of Form 1040. Information for columns I thru L can be found on page 2 of Form 1040. Information for columns M can be found on the state income tax form.

# **SPECIAL INFORMATION**

	NAMES	SOCIAL SECURITY	DATE OF			
		NUMBER	BIRTH	1		
Owners:				Cour		
		<u> </u>			nship:	
	Γ	1	1	Scho	ool District:	
Children:						
				Tax .	Accounting Method:	
					Cash	Accrual
				CCC	C Loans Treated as:	
					Income	Loans
		1		_		
Other Dependents:				Relationship		
-						
		1		1		•
Attorney:			Key Personal Papers S	tored at:		
Accountant:						
Insurance Agent:			Will (Original Copy):			
				Dated:		
		7		Stored at:		
		_	Federal Employer Iden			
		_	Sales Tax Exemption N			
			Fuel Tax Exemption N			
			Pesticide Applicator Pe			

#### **Conversion Equivalents**

Unit **Equivalent Units** Barrel...... 31.5 gallons. Cord ...... 128 cubic feet. Cubic yard ...... 27 cubic feet; 202 gallons. Feet per second ...... (22/15) x miles per hour. 8.345 pounds (water). Inch ...... 2.54 centimeter. Mile...... 5,280 feet; 1,760 yards; 320 rods; 1.609 kilometers. Peck ...... 8 quarts; ¼ bushel. Square foot...... 1/9 square yard; 144 square inches. Square mile ...... 640 acres. Square yard...... 9 square feet. Yard...... 3 feet; 0.9144 meter.

#### **Measurement Formulas**

Circumference of circle = 3.1416 x diameter =  $\frac{22 \text{ x diameter}}{7}$ 

Area of circle =  $.7854 \times diameter \times diameter$ .

Area of rectangle = length x width.

Area of triangle =  $0.5 \times a$  base x altitude.

Area of curved surface of cylinder (like a silo) = 3.1416 x diameter x height.

Volume of sphere =  $.5238 \times diameter \times diameter \times diameter$ .

Volume of cylinder = .7854 x height x diameter x diameter.

Volume of pyramid =  $\frac{1}{3}$  x area of base x altitude.

Volume of cone (like a stack of grain = .2618 x height x diameter x diameter).

#### Capacity of Rectangle and Cylindrical Bins and Tanks

Determine the cubic feet in a rectangular bin, crib or tank by multiplying the length by the width by the height. To calculate the cubic feet for cylindrical shaped containers, square the radius and multiply by 3.1416 and then multiply by the height.

To find the approximate number of bushels of small grain or shelled corn in a bin, multiply the cubic feet by .8.

To compute the numbers of gallons in a tank, multiply the number of cubic feet by 7.4805.

#### **Capacity of Trench and Bunker Silos**

Corn or grass silage, well packed by a tractor in a horizontal silo, will weigh an average of 40 to 50 pounds per cubic foot. Multiply the average width by the depth by the length (all in feet) = vol. in cu. ft. Divide the number of cu. ft. in the silo by 50. This equals tons of silage.

				Common Reduced to						]F
8ths	16ths	32nds	6ths		8ths	16ths	32nds	64ths		
			1	.015625				33	.545625	1t
		1	2	.03125			17	34	.53125	ľ
			3	.046875				35	.546875	
	1	2	4	.0625		9	18	36	.5625	
			5	.078125				37	.578125	
		3	6	.09375			19	38	.59375	
			7	.109375				39	.609375	
1	2	4	8	.125	5	10	20	40	.625	
			9	.140625				41	.640625	
		5	10	.15625			21	42	.65625	] <del> </del>
			11	.171875				43	.671875	JL
	3	6	12	.1875		11	22	44	.6875	
			13	.203125				45	.703125	
		7	14	.21875			23	46	.71875	
			15	.234375				47	.734375	
2	4	8	16	.25	6	12	24	48	.75	
			17	.265625				49	.765625	
		9	18	.28125			25	50	.78125	
			19	.296875				51	.796875	
	5	10	20	.3125		13	26	52	.8125	
			21	.328125				53	.828125	
		11	22	.34375			27	54	.84375	
			23	.359375				55	.859385	
3	6	12	24	.375	7	14	28	56	.875	
			25	.390625				57	.890625	
		13	26	.40625			29	58	.90625	
			27	.421875				59	.921875	
	7	14	28	.4375		15	30	60	.9375	
		ĺ	29	.453125				61	.953125	
		15	30	.46875			31	62	.96875	
			31	.484375				63	.984375	
4	8	16	32	.5	8	16	32	64	1.	

	Interest Calculations											
RULE: Multiply	the princi	ipal by as	many one	hundredtl	ns as there	are days,	and ther	divide as	follows:			
	Percent				4	5	6	7	8	9	10	12
	Divided	by			90	72	60	52	45	40	36	30
EXAMPLES: II	nterest on	\$100, for	90 days at	5 percen	t: 100 x .90	0 = 90.00 c	livided by	72 = 1.25	(1 dollar a	nd 25 cer	nts): on \$1,	for 30
days a	days at 6 percent: 1 x .30 = .30 divided by 60 = .005 (5 mills).											
TABLES: Show	ving the n	umber of c	days from	any date i	n one mon	th to the s	ame date	in any oth	er month.			
From To Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec												
January 365 31 59 90 120 151 181 212 243 273 304 334												
February	334	365	28	59	89	120	150	181	212	242	273	303
March	306	337	365	31	61	92	122	153	184	214	245	275
April	275	306	334	365	30	61	91	122	153	183	214	244
May	245	276	304	335	365	31	61	92	123	153	184	214
June	214	245	273	304	334	365	30	61	92	122	153	183
July	184	215	243	274	304	335	365	31	62	92	123	153
August	153	184	212	243	273	304	334	365	31	61	92	122
September	122	153	181	212	242	273	303	334	365	30	61	91
October	92	123	151	182	212	243	273	304	335	365	31	61
November	61	92	120	151	181	212	242	273	304	334	365	30
December	31	62	90	121	151	182	212	243	274	304	335	365
EXAMPLE: Ho	w many d	ays from I	May 5 <sup>th</sup> to	October 5	"? Look fo	r May at le	eft hand a	ind Octobe	r at the top	o: in the a	ngle is 153	. In
Leap year add	one day it	f February	is include	d.								