

IRM HERD ANALYZER

**INPUT FORM
FOR
2000
CALVES**

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IRM Herd Analyzer

Input form for assisting cow-calf producers to evaluate herd performance, costs and returns, and the beef herd's profitability.

HERD ANALYZER ANALYSIS 1999 DATABANK

(Average of 14 Herds)

Cow on Hand Jan 1, 1999:	151
Females Exposed:	160
Total Investment Per Cow:	\$ 2018
Total Debt Per Cow:	\$ 276
Average Steer Price (#/CWT):	\$ 85
Average Weaning Weight:	562
Gross Income Per Cow:	\$ 451
Feed Costs:	
Summer	\$ 73
Aftermath	\$ 0
Winter	\$ 123
Total Feed Costs:	\$ 198
Livestock Expenses:	
Vet & Medicine	\$ 17
Trucking	\$ 1
Miscellaneous	\$ 0
Fuel	\$ 9
Utilities & Gen Farm Exp	\$ 7
AI Expense	\$ 3
L S Supp & Lease Print	\$ 15
Marketing	\$ 5
Breeding	\$ 6
Hired Labor & Mgt	\$ 6
Total Livestock Expense:	\$ 68
Interest on Feed & L S Expenses:	\$ 10
Fixed Expenses:	
BLD, FAC, Cows & Heifers	\$ 40
Debt Interest	\$ 6
Debt Principal	XXXX
Total Costs:	\$ 322
Value Added Per Cow (P&L)	\$ 129
Unit Cost of Prod (\$/CWT)(Mode)	\$ 62

Name _____

Address _____ County _____

City _____ State _____ Zip _____

Phone (_____) _____

Date _____ / _____ / _____

E-Mail

Address: _____

Is your herd enrolled in CHAPS? ___No ___Yes-Herd # _____

May we request a copy of your CHAPS summary? ___Yes ___No

Signature: _____

Can you compete? How do you compare?

Cow-calf production is characterized by cyclical prices and marginal returns with large differences between years and profitability among producers. Rather than continuing without knowledge of profitability, the challenge for today's beef cow operator is to know the cost and returns from your beef cow herd, direct where it is going and plan how to get there.

Records are a must...you can't manage what you can't measure

It takes information to accurately analyze and evaluate a beef cow enterprise, this includes records of cash expenses, operation's debts, herd inventory and herd performance. Some of the financial inputs are readily available from your tax records. Others are more difficult to obtain and may need to be initially approximated. This clearly identifies the need for future changes in farm record keeping and accounting. For herds not currently enrolled in CHAPS it is strongly encouraged that they do so. Much of the necessary production information required in the Herd Analyzer can be easily and more accurately retrieved from your CHAPS summary reports.

Dr. Harlan Hughes' IRM Herd Analyzer... assisting with analysis and information

Harlan Hughes' IRM-Herd Analyzer provides an excellent starting point for you to systematically evaluate your beef cow operation. Through comprehensive benchmarking you will be able to identify key bottlenecks to profitability and opportunities that can improve your cow herd's profitability.

To become involved in Hughes' IRM Herd Analyzer program, enter your herds information as completely as possible on this form and return for analysis to the address listed on the bottom of the last page. The information you provide will be handled **confidentially** and analyzed to provide a standardized performance and economic analysis. Two copies of the analysis will be mailed back to you. Preliminary results can then be confidentially discussed and modified for further individual analysis. A revised analysis is the normal process.

Herd Inventory Example Inventory Sheet Calf crop year 2000

Numbers of animals comprising the operation is very critical in evaluating both financial and ///production performance of a herd, but often very difficult to determine historically without written records.

	Total Females	Mature Cows	Bred Heifers	Replacement Heifer Calves	Bulls	
No. exposed in 1999	<u>101</u>	<u>89</u>	<u>12</u>		No. in service in 1999 <u>5</u>	
Business Year No. at beginning of year (1/1/00)	<u>101</u> a a=c+d			<u>14</u> b (1999 calves)	No. at beginning of year 1/1/00 Held for breeding <u>5</u> Held for sale <u>0</u>	
Kept for calving	<u>92</u> c	<u>80</u>	<u>12</u>			
Culls held for sale	<u>9</u> d	<u>9</u>	<u>0</u>			
TOTAL \$						
No. calved this year - 2000	<u>92</u>	<u>80</u>	<u>12</u>			
No. losing calves this year - 2000	<u>6</u>	<u>4</u>	<u>2</u>			
No. determined open in fall - 2000						
No. leaving herd during calendar year 2000	<u>7</u> e e=h+i+j	<u>0</u>	<u>0</u>		No. leaving herd this calendar year Died 2000 <u>1</u> Sold 2000 <u>1</u>	
h) died						
i) non-breeding sold						
j) bred cows sold	<u>2</u> h	<u>1</u>	<u>1</u>	<u>0</u>		
	<u>4</u> i	<u>1</u>	<u>2</u>	<u>1</u>		
No. bought during calendar year - 2000	<u>1</u> j	<u>1</u>	<u>0</u>	<u>0</u>		
TOTAL \$					No. bought 2000 <u>2</u>	
	<u>2</u> f	<u>2</u>				
No. at end of year (12/31/00):	<u>101</u> g g=k+l				No. at end of year 12/31/00 Kept for breeding <u>5</u> Held for sale <u>0</u>	
k) kept for calving						
l) culls held for sale						
	<u> </u> k	<u>80</u>	<u>13</u>			
Heifer calves kept for replacements	<u> </u> l	<u>8</u>	<u>0</u>			
				<u>18</u> (2000 calves)		
Inventory check (optional, should equal zero)						
a	b		d + e	f	g	
<u>101</u>	<u>14</u>		<u>9 + 7</u>	<u>2</u>	<u>101 Head</u>	
Beg Inv #	+	Kept for Replacements	-	No. leaving herd	+	Purchases
=		Ending Inv #				

Production schedule - several key dates are required to define pasture and winter feed use

Date mature cows start calving 2 / 15 / 00

Average calving date 3 / 08 / 00

Grazing schedule

Cows Heifers Dry Cows

Date off grass 1999 10 / 15 / 99 xxxx xxxx

Date on grass 2000 4 / 30 / 00 xxxx xxxx Total days calves were creep fed 0

Date off grass 2000 10 / 20 / 00 xxxx xxxx Date calves weaned in 1999 Oct / 20 / 99

Days on aftermath 2000 0 Are your heifer calves Raised Purchased

No. 2: Your Herd Inventory

Calf crop year 2000

Numbers of animals comprising the operation is very critical in evaluating both financial and production performance of a herd, but often very difficult to determine historically without written records.

Primary Breed Cows ____ Bulls ____	Total Females	Mature Cows	Bred Heifers	Replacemen t Heifer Calves	No. 3: Bulls
No. exposed in 1999	_____	_____	_____		No. in service in 1999 _____
Business Year No. at beginning of year (1/1/00)	_____ a a=c+d			_____ b (1999 calves)	No. at beginning of year 1/1/00 Held for breeding _____ Held for sale _____
Kept for calving	_____ c	_____	_____		
Culls held for sale TOTAL \$ _____	_____ d	_____	_____		
No. calved this year - 2000	_____	_____	_____		
No. losing calves this year - 2000	_____	_____	_____		
No. determined open in fall - 2000	_____	_____	_____		
No. leaving herd during calendar year 2000	_____ e	_____	_____		
h) died	e=h+i+j				No. leaving herd this calendar year
i) non-breeding sold	_____ i	_____	_____	_____	Died 2000 _____
j) bred cows sold	_____ j	_____	_____	_____	Sold 2000 _____
No. bought during calendar year - 2000 TOTAL \$ _____	_____ f	_____	_____	_____	No. bought 2000 _____
No. at end of year (12/31/00):	_____ g	_____	_____	_____	No. at end of year 12/31/00
k) kept for calving	g=k+l	_____	_____	_____	Kept for breeding _____
l) culls held for sale	_____ k	_____	_____	_____	Held for sale _____
Heifer calves kept for replacements	_____ l	_____	_____	_____	
				(2000 calves)	

No. 7: Feed Description

Provide name and information for feeds, used in winter feeding and pasture supplementation.

	Name	Unit/wt	%Dry Matter	Market Price per Unit
<i>Example!</i>				
Grain	Oats	bu./ 32	88	\$1.05

	Your Feeds			
Grain*	_____	bu./_____	_____	_____
Supplement	_____	ton/2,000	_____	_____
Forage 1	_____	ton/2,000	_____	_____
Forage 2	_____	ton/2,000	_____	_____
Forage 3	_____	ton/2,000	_____	_____
Salt & Mineral - herd intake per day	_____ lbs.	ton/2,000	_____	_____

*If more than one grain is fed you should treat it as a mixed grain and average unit wt., % dry matter and market price.

You have two options for reporting winter feeds: No. 8 below or No. 17 back page

No. 8: Winter Feed Option (Fall 1999 and Winter/Spring 2000)

Reliable estimates or typical daily rations fed during the wintering period are needed and should be equivalent to total feed disappearance.

	Grain	Supplement	Forage 1	Forage 2	Forage 3
Name (from previous feed description section)	_____	_____	_____	_____	_____
*Cows — pounds fed/cow/day					
Mid gestation	_____	_____	_____	_____	_____
Late gestation	_____	_____	_____	_____	_____
Lactation	_____	_____	_____	_____	_____
Bred Heifers — pounds fed/heifer/day					
Mid gestation	_____	_____	_____	_____	_____
Late gestation	_____	_____	_____	_____	_____
Lactation	_____	_____	_____	_____	_____
Heifer calves — pounds fed/heifer/day	_____	_____	_____	_____	_____
Bulls — pounds fed/bull/day	_____	_____	_____	_____	_____
--days in drylot _____					
Creep fed to calves — intake per day	_____	_____	_____	_____	_____
Estimated percent feeding loss (waste)	_____ %	_____ %	_____ %	_____ %	_____ %

*If feeding multiple rations for each production stage, rations should first be averaged before feeding.

No. 9: Farm Raised Feed (Cash Costs of Production)

Home raised feed production and associated cash expenses are needed to estimate the "cash costs" of producing feeds for the cow herd. **Do not include purchased feeds in this section.**

	<i>Example!</i>	Grain	Forage 1	Forage 2	Forage 3
Name	Oats	_____	_____	_____	_____
Acreage	40	_____	_____	_____	_____
Yield	80	_____	_____	_____	_____
Cash costs per acre (total\$/acre)		_____	_____	_____	_____
or:					
Fuel	5.86	_____	_____	_____	_____
Seed	6.00	_____	_____	_____	_____
Fertilizer	4.32	_____	_____	_____	_____
Chemical	1.68	_____	_____	_____	_____
Repairs	8.76	_____	_____	_____	_____
Real estate taxes	0	_____	_____	_____	_____
Cash rent	0	_____	_____	_____	_____
Custom hire	0	_____	_____	_____	_____
Operating interest	1.34	_____	_____	_____	_____
Other misc	1.05	_____	_____	_____	_____

No. 10 : Machinery and land debt for cropland only-

	<i>Example!</i>	Your Values
Remaining land debt	120,000	_____
Interest rate	10%	_____
Years left in loan	15	_____
Remaining mach debt	20,000	_____
Interest rate	10%	_____
Years left in loan	5	_____
Total acres farmed	2,000	_____

Per Acre Family Living Draw \$ _____ /Acre
 Allocated Overhead.....\$ _____ /Acre



No. 11: Pasture Use and Costs

Pasture and related expenses associated with cow herd, breeding bulls and replacement heifers are needed to determine summer feed costs.

Annual Public Land Costs	\$ _____		Owned	Rented
Rented Pasture		Total Cash Pasture Costs		
Acres	_____ A	Total (per acre)	\$ _____	<u>XXXXXX</u>
Rent per acre	\$ _____ /A	Or:		
Acres per cow	_____ A/Cow	Fuel	\$ _____	\$ _____
Owned Pasture		Seed	\$ _____	\$ _____
Acres	_____ A	Fertilizer	\$ _____	\$ _____
Acres per cow	_____ A/Cow	Chemicals	\$ _____	\$ _____
Market value per acre	\$ _____ /A	Real estate taxes	\$ _____	\$ _____
Pasture loan (principal remaining)	\$ _____	Fencing/repairs	\$ _____	\$ _____
Interest rate	_____ %	Water development	\$ _____	\$ _____
_____		Other _____		\$ _____ \$ _____
Years in loan (remaining)	_____ Yrs			
Aftermath Grazing				
Daily cost per cow	\$ _____			

No. 12: Total Livestock Expenses (source: your IRS records, 1040 schedule F tax form)

Total expenditures on behalf of cow herd, breeding bulls and replacement heifers

(Be sure expenditures are in proportion to cows in this herd analysis.)

Number of cows covered by expenses (head) _____ (Normally Jan. 1 inventory unless operating separate herds)

	Total Farm	% to Cow Herd		Total Farm	% to Cow Herd
Vet & Med	\$ _____	_____ %	Elec Util	\$ _____	_____ %
Fuel (for feed processing, feeding, manure removal)	\$ _____	_____ %	Hired Labor	\$ _____	_____ %
Supplies	\$ _____	_____ %	Trucking	\$ _____	_____ %
Marketing Fees	\$ _____	_____ %	AI Breeding	\$ _____	_____ %
Misc _____	\$ _____	_____ %	Other	\$ _____	_____ %
			Family Living from Cow Herd	\$ _____	_____ %

Did you borrow money to feed the cow herd and/or for livestock expenses?

___ No ___ Yes, if so, average interest rate was _____ % and principal amount was \$ _____

No. 13: Capital Gains Information (source: IRS Form 4797)

Livestock capital gains this year (IRS form 4797) \$ _____

Dollars from bull sales \$ _____ covering _____ bulls

Dollars from cow sales \$ _____ covering _____ cows

No. 14: Cattle Investment and Ownership

Best estimates of cattle values, average bull purchases and associated debts are required to determine ownership costs and cash flow requirements.

	Cows	Bulls	Breeding Heifers
Market value per head	\$ _____	\$ _____	\$ _____
Average purchase price		\$ _____	\$ _____
\$ _____ Average years of use			_____ Yrs
Loans -			
Remaining principal balance	\$ _____	\$ _____	\$ _____
Interest rate	_____ %	_____ %	_____ %

No 15: Leasing Information

*Number of leased cows kept for calving _____ Head

Total lease payment \$ _____

Describe lease arrangements in detail _____

*These must be included in beginning herd

No. 16: Capital Investment

Investments included should be based on allocation of value and debts associated with the cow herd for items such as buildings (i.e. barns, wells, feed storage facilities), equipment (i.e. corrals, bunks, water fountains, chutes, scales and stock trailers) and machinery (i.e. manure spreader, feed wagons, feed grinders and tractors for feeding and for feed production). **DO NOT INCLUDE FARMING MACHINERY.**

	Buildings Used for Cows	Equipment Used for Cows	Machinery Used for Cows
Total market value/cow herd share	\$ _____ / _____ %	\$ _____ / _____ %	\$ _____ / _____ %
or			
Include items/value/cow herd share			
<i>Example</i>	<u>Barns / 20,000 / 50%</u>	<u>Scale / 2,000 / 100%</u>	<u>Tractor / 50,000 / 35%</u>
	_____ / _____ / _____	_____ / _____ / _____	_____ / _____ / _____
	_____ / _____ / _____	_____ / _____ / _____	_____ / _____ / _____
	_____ / _____ / _____	_____ / _____ / _____	_____ / _____ / _____
	_____ / _____ / _____	_____ / _____ / _____	_____ / _____ / _____
Loans - Remaining principal balance	\$ _____	\$ _____	\$ _____
Interest rate	_____ %	_____ %	_____
<u>%</u>			
Remaining years	_____ Yrs	_____ Yrs	_____
<u>Yrs</u>			

No. 17: Winter Feed Option 2:

Feed Quantities Fed To Beef Cow Herd No. Cows _____

	FEED NAME	UNIT WT	AMT FED	UNIT PRICE
Grain	1 _____	_____	_____	\$ _____
	1a _____	_____	_____	\$ _____
Protein 2	_____	2000	_____	\$ _____
	2a _____	2000	_____	\$ _____
Forage 1	3 _____	2000	_____	\$ _____
	3a _____	2000	_____	\$ _____
Forage 2	4 _____	2000	_____	\$ _____
	4a _____	2000	_____	\$ _____
Forage 3	5 _____	2000	_____	\$ _____
	5a _____	2000	_____	\$ _____
Min/Salt	6 _____	2000	_____	\$ _____
	6a _____	2000	_____	\$ _____

To Be Used Instead Of Inputting Daily Cow & Heifer Rations

IRM Producer Comments

Through the use of the CHAPS program and IRM-Herd Analyzer we have been able to show more profit in our cow-calf operation. With the beef cow-calf herd analyzer, which integrates herd performance data and business management records, it tells us which parts of our operation where we can or should cut costs and other aspects of the operation we can build on. We greatly appreciate the knowledge and expertise of our area livestock specialist and county agent.

Myron Wold, Watford City

Return complete herd analyzer input forms for processing to:

Harlan Hughes
109 Martin Circle
Mankato, Mn 56001

For additional information contact:
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