Cow Calf Management School

February 2008



Tim Petry
Livestock Economist
www.ag.ndsu.nodak.edu/aginfo/lsmkt/livestock.htm



USDA Web Sites

- www.ers.usda.gov
 - Livestock, Dairy, Poultry Outlook
- www.nass.usda.gov
 - Cattle Inventory (Jan & Jul)
 - Cattle-on-Feed
- www.ams.usda.gov
 - Market Reports (auctions, terminal, direct, internet, video)
- www2.rma.usda.gov/livestock
 - LRP, LGM

Other Web Sites

- www.ag.ndsu.nodak.edu/lsmkt/livestock.htm
 - Powerpoint presentations, Budgets, Market Advisor, Links
- www.cme.com (Chicago Mercantile Exchange)
 - Futures and Options
- <u>www.lmic.info</u> (Livestock Marketing Information Center)
 - Fundamentals, charts, Quarterly Livestock Roundup,
 Managing for Today's Cattle Market and Beyond
 - Many publications (handouts)



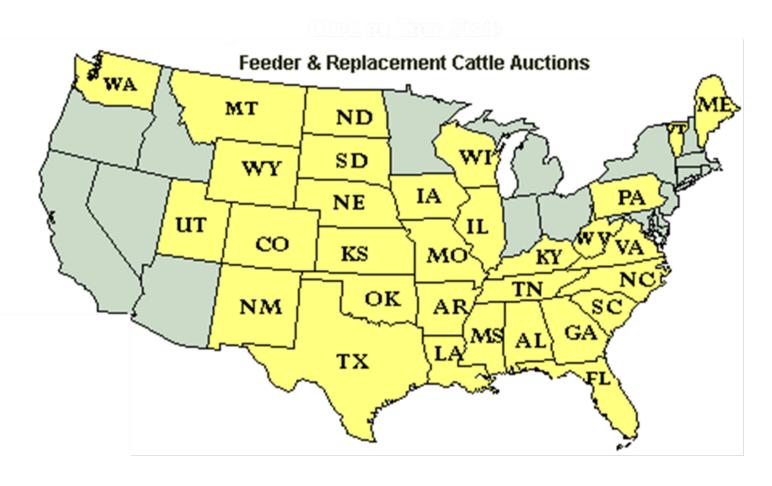
Livestock and Seed Program

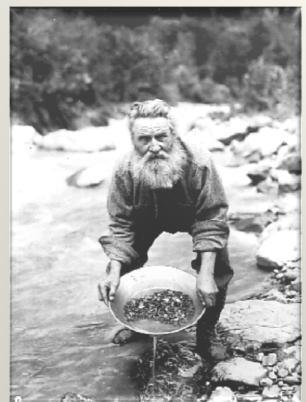
AMS

USDA

SEARCH

LIVESTOCK AND GRAIN MARKET NEWS BRANCH





P44-3-15 Alaska State Library Skinner Foundation Photograph Collection

THEN: "There's Gold In Them Thar Hills"



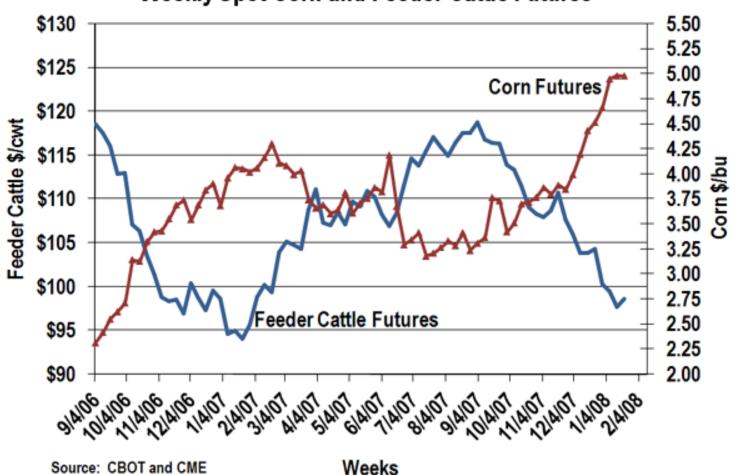
NOW: "There's Gold In Them Thar Stills"



Blue Flint Ethanol Plant. Photograph used with permission.

The Most Important Fundamental Affecting Feeder Cattle Prices is Corn Prices

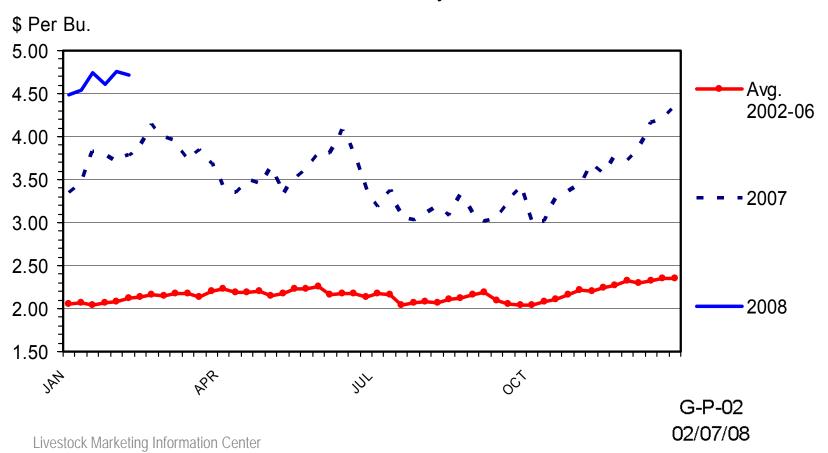




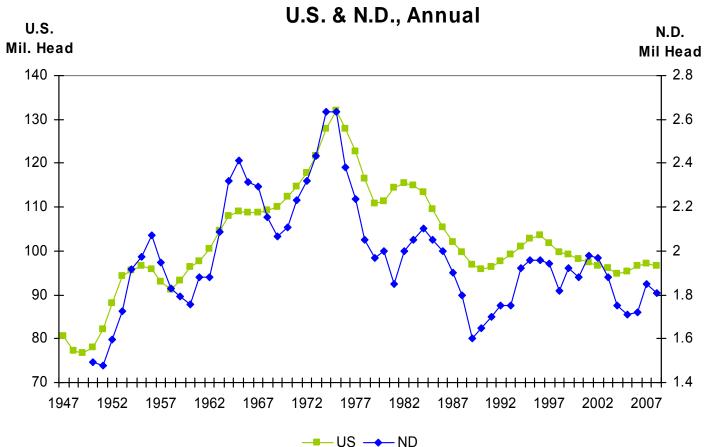
Corn Prices Will Be Volatile!

OMAHA CORN PRICES

Weekly



January 1 Total Cattle Inventory



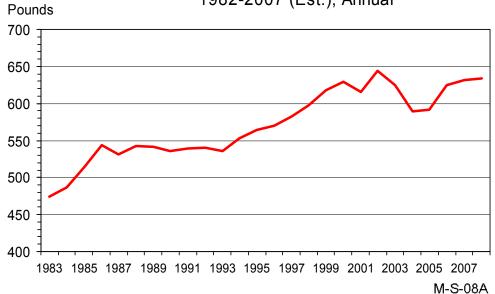
Livestock Marketing Information Center

Data Source: USDA/NASS

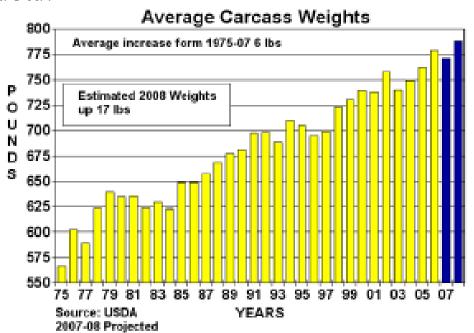
C-N-01 02/05/07

BEEF PRODUCTION PER COW

1982-2007 (Est.), Annual

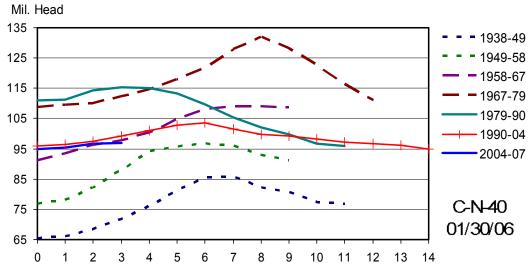


Livestock Marketing Information Center



TOTAL CATTLE INVENTORY BY CYCLE

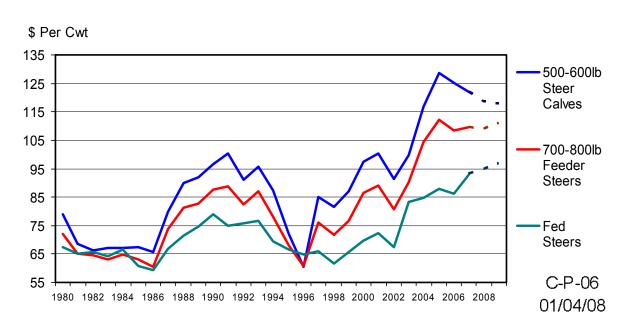
U.S., January 1



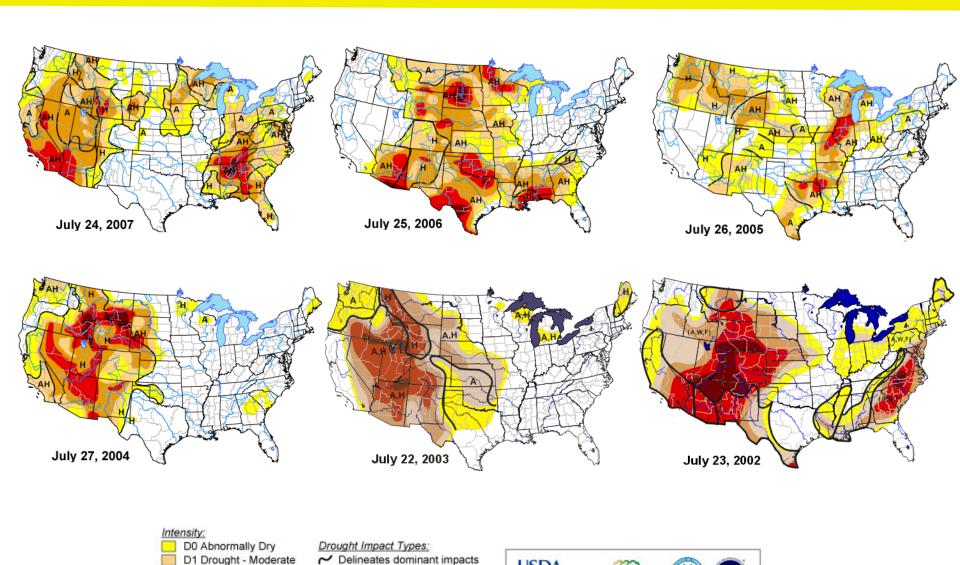
Livestock Marketing Information Center

Data Source: USDA/NASS

ANNUAL AVERAGE CATTLE PRICES



U.S. Drought Monitor



A = Agricultural (crops, pastures,

H = Hydrological (water)

grasslands)

D2 Drought - Severe

D3 Drought - Extreme

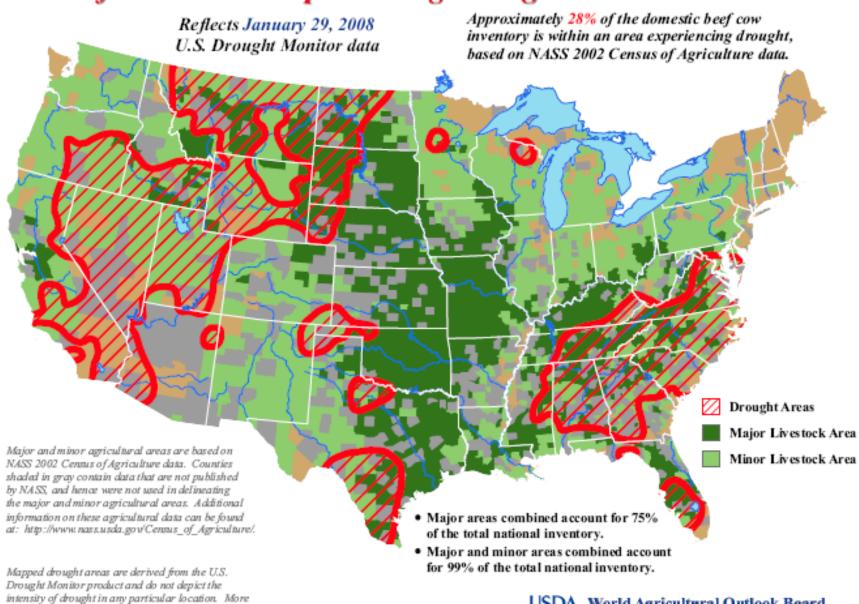
D4 Drought - Exceptional

USDA

U.S. Beef Cow Areas Experiencing Drought

information on the Drought Monitor can be found

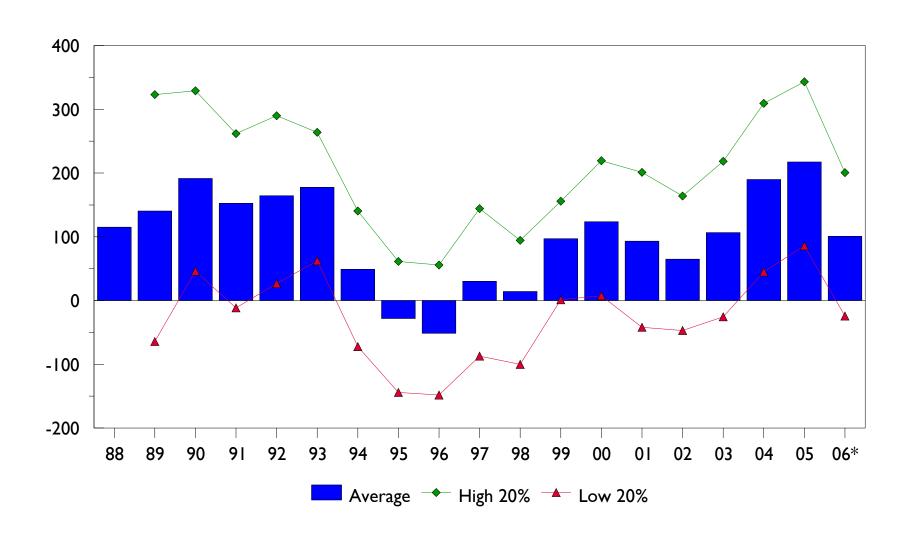
at: http://www.drought.unLedu/dm/monitor.html.



USDA World Agricultural Outlook Board
Joint Agricultural Weather Facility

Average Net Return per Beef Cow

N.D. Farm Business Mgmt., Excluding Red River Valley



ND Farm Business Management Report, 2006 Beef Cow-Calf Returns Average Per Cow

	Low 20%	Ave	High 20%
Net return	-22	104	211
Calves sold/cow	.94	.94	.96
Feed cost	293	258	227
Ave. weight of calf sold	535	553	559
Ave. price/cwt	109	114	117



What is CHAPS?

- Cow Herd Appraisal Software
- www.chaps2000.org

Cost-Return Projection -- Beef Cow-Calf Enterprise (Per Cow), 2008 ¹

		N.D.	Your
		Avg.	Numbers
VARIABLE COST PER COW:		-	
1. Summer Pasture		\$ 85.00	\$
2. HayForage		125.00	
3. Other feed		15.00	
4. Protein and Mineral		10.00	
5. Hired Labor, Custom Hire		12.00	
6. Veterinary, Drugs, and Supplies		15.00	
7. Utilities, Fuel, and Oil		22.00	
8. Facilities and Equipment Repairs		22.00	
9. Breeding Charge		10.00	
10.Marketing		10.00	
11.Miscellaneous		20.00	
12. Interest		7.50	
A.TOTAL VARIABLE COSTS		\$ 353.50	\$ 0.00
FIXED COSTS PER COW			_
13. Depreciation		\$ 18.00	\$
14. Interest		12.00	
15.Insurance		9.00	
16. Cow depreciation, interest, death loss		60.00	
B. TOTAL FIXED COSTS		\$ 99.00	\$ 0.00
C. TOTAL COSTS PER COW (A + B)		\$ 452.50	\$ 0.00
	Your Numbers		
RETURNS PER COW ²	% Cows x Weight x Price		
17. Steers: .45 x 550 x 1.15	xx	\$ 284.63	\$ 0.00
18. Heifers: .26 x 530 x 1.05	xx	144.69	0.00
19. Cull cows; .14 x 1100 x .45	xx	69.30	0.00
20. Cull heifers: .05 x 900 x .83	x x	37.35	0.00
D. GROSS RETURNS PER COW		\$ 535.97	\$ 0.00
E. RETURN OVER VARIABLE COSTS (D - A)		\$ 182.47	\$ 0.00
F. RETURN OVER TOTAL COSTS (D - C) ³		\$ 83.47	\$ 0.00

¹Information in this budget is based on the North Dakota Farm and Ranch Business Management Annual Report, 2006.

²Returns are based on a 90 percent weaning rate, 45 steers sold, 26 heifers sold, 19 heifers kept for replacement,

¹⁴ cull cows sold, and 5 cull heifers sold. Prices are projected for fall.

³Return over total costs is return to unpaid family labor, management, and equity.

SF_LS762

Sioux Falls, SD Sat Dec 29, 2007 USDA-ND Dept Ag Market News

Stockmens Livestock Exchange - Dickinson, ND

550 head	young stock cows	\$1000-1560, Ave 1350
835 head	bred heifers	\$935-1350, Ave 1140
275 head	solid mouth cows	\$670-1250, Ave 928
328 head	short term cows	\$600-1050, Ave 676

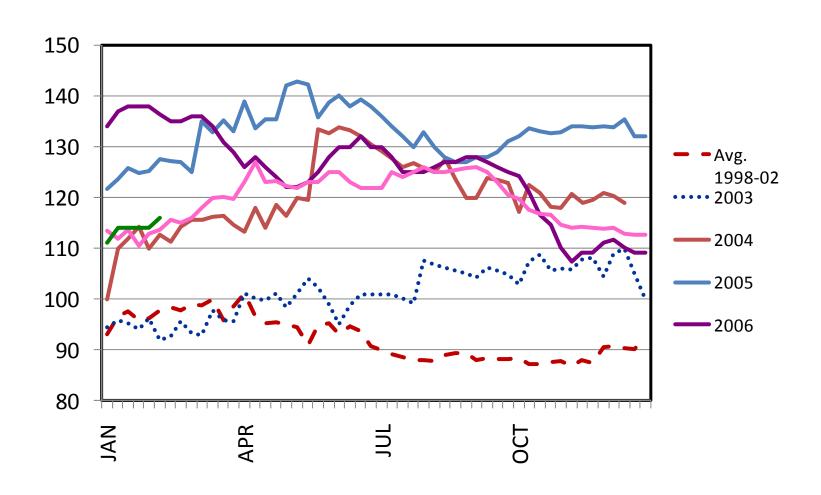
YO	STOCK CO		BRI	ED H	EIFERS				
South Heart	8	Red	5yrs	1560.00	Zap	5	Black	1246	1350.00
Killdeer	32	Black	3yrs	1550.00	Taylor	10	Black	1099	1300.00
South Heart	20	Red	3yrs	1535.00	Dickinson	20	Red	1104	1300.00
South Heart	22	Red	4-6	1500.00	Taylor	37	Black	1081	1260.00
South Heart	9	RdBldy	3yrs	1485.00	Taylor	10	Black	1072	1250.00
Killdeer	34	Black	3&4	1485.00	Dickinson	22	Black	1140	1250.00
Killdeer	30	Black	4yrs	1435.00	Dickinson	30	Black	1088	1235.00
South Heart	8	Red	6yrs	1425.00	Dickinson	18	Red	1107	1235.00
South Heart	6	Red	5yrs	1400.00	Belfield	19	Bwf	1040	1235.00
Zap	14	Black	4-6	1400.00	Dickinson	40	Black	1128	1225.00
Belfield	15	Black	3yrs	1400.00	Watford City	20	Red	995	1225.00
Medora	20	Black	3yrs	1385.00	Dickinson	30	RdBldy	1067	1225.00
South Heart	6	Black	4yrs	1375.00	Terry,MT	15	Black	1058	1210.00
South Heart	21	RdBldy	4-6	1375.00	Dickinson	15	RdBldy	1047	1200.00
Killdeer	25	Black	4yrs	1350.00	Glen Ullin	29	Black	1105	1200.00
Zap	10	Black	4-6	1350.00	Grassy Butte	20	Black	1021	1200.00
Beulah	11	Black	3yrs	1350.00	Sidney,MT	16	Bwf	1065	1200.00

Net Return for Purchased Bred Heifer

	\$1000									
Calf				Nu	mber of	Calves So	old			
Profit	1	2	3	4	5	6	7	8	9	10
50	450	400	350	300	250	200	150	100	50	0
75	425	350	275	200	125	50	25	100	175	250
100	400	300	200	100	0	100	200	300	400	500
125	375	250	125	0	125	250	375	500	625	750
150	350	200	50	100	250	400	550	700	850	1000
175	325	150	25	200	375	550	725	900	1075	1250
200	300	100	100	300	500	700	900	1100	1300	1500

	\$1500									
Calf				Nu	mber of	Calves S	old			
Profit	1	2	3	4	5	6	7	8	9	10
50	950	900	850	800	750	700	650	600	550	500
75	925	850	775	700	625	550	475	400	325	250
100	900	800	700	600	500	400	300	200	100	0
125	875	750	625	500	375	250	125	0	125	250
150	850	700	550	400	250	100	50	200	350	500
175	825	650	475	300	125	50	225	400	575	750
200	800	600	400	200	0	200	400	600	800	1000

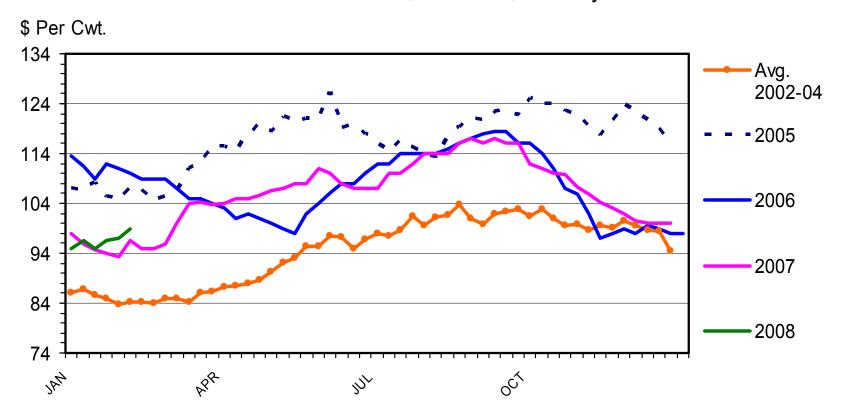
MED. FRAME #1 STEER CALF PRICES 550-600 Pounds, Dakotas, Weekly



Livestock Marketing Information Center

MED. & LRG. #1 FEEDER STEER PRICES

700-800 Pounds, Dakotas, Weekly



Livestock Marketing Information Center

SF_LS766

Sioux Falls, SD Thu Feb 7, 2008 USDA-ND Dept Ag Market News

Stockmens Livestock Exchange - Dickinson, ND Feeder Cattle Weighted Average Report for 02/07/2008

Receipts: 3631 Last Week: 1569 Year Ago: 3675

Compared to last week: Trend not applicable due to low receipts last week. However a strong undertone is noted in feeder steers and heifers. Demand was good. Steers made up 62 percent; Heifers made up 33 percent; Holstein steers made up 5 percent. 83 percent over 600 lbs. Total sales receipts comprised of 72 percent feeder cattle and calves; 10 percent slaughter cows and bulls with the balance misc. Next feeder cattle sale featuring replacement heifers is scheduled for February 14, 2008, expecting 3000 hd.

Feeder Steers Medium and Large 1

Head	Wt Range	Avg Wt	Price Range	Avg Price	
13	465-478	471	124.75-128.00	125.97	
13	524-539	532	123.00-123.50	123.23	
164	560-597	579	113.00-121.50	117.77	
210	601-648	630	105.75-115.75	111.53	Calves
159	654-698	676	105.00-110.50	107.15	Calves
14	684-698	687	99.00-101.00	100.56	Fleshy
269	710-746	728	101.50-107.25	104.20	Calves
353	754-796	772	99.25-103.25	100.73	Calves
123	803-840	811	95.25-100.00	99.23	
228	851-896	883	92.25-97.10	94.16	
13	926	926	92.25	92.25	

Premiums Likely (but not consistent) For:

- Verified shots (ND VIP)
- Natural (no antibiotics or implants)
- Source/age verified
- Weaned
- Bovine Viral Diarrhea persistently infected (BVD-PI) tested negative
- Beef Quality Assurance (BQA)
- Replacement quality heifers
- * Check with your market before selling

SF LS766

Sioux Falls, SD Thu Jan 10, 2008 USDA-ND Dept Ag Market News

Stockmens Livestock Exchange - Dickinson, ND Feeder Cattle Weighted Average Report for 01/10/2008

Receipts: 3368 Last Week: 3471 Year Ago: 4003

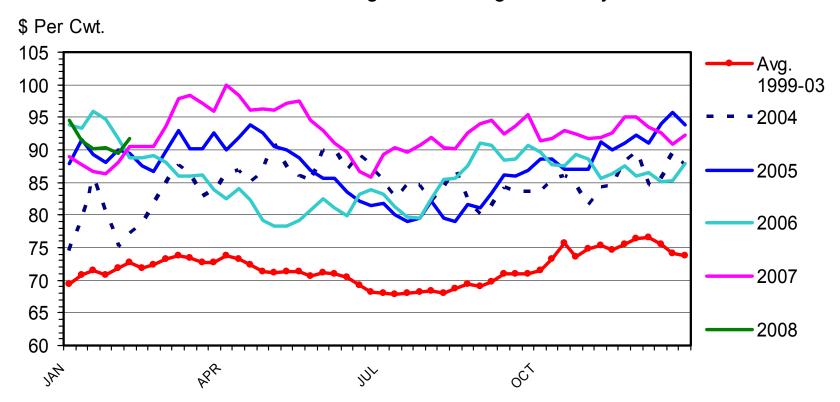
Compared to last week: Steers and heifers traded steady to 3.00 higher. Demand was moderate to good on all classes with a large crowd on hand. Steers made up 58 percent; Heifers 42 percent. 82 percent over 600 lbs. Total sale receipts comprised of 70 percent feeder cattle and calves; 13 percent slaughter cows and bulls with the balance misc. Next feeder cattle sale is scheduled for January 17, 2008 expecting 3000 hd.

Toodox Hoifoxa Modium and Laxas 1

		F'eeder	r Helfers Medlum	n and Large	1
Head	Wt Range	Avg Wt	Price Range	Avg Price	
17	458-488	464	109.00-115.50	113.01	
51	513-536	527	103.25-107.75	106.93	
147	550-595	564	95.00-104.75	101.99	
168	600-642	620	94.00-98.25	96.24	Calves
39	622-649	638	103.00-109.50	106.90	Replacement
149	650-697	674	90.00-96.75	94.15	Calves
108	659-694	672	108.00-109.00	108.83	Replacement
85	704-745	725	88.50-93.25	90.88	Calves
41	725	725	110.25	110.25	Replacement
47	750-788	759	88.25-93.00	91.17	Calves
11	798	798	88.75	88.75	Fleshy
70	810-839	822	87.75-89.50	88.49	Calves
42	868-886	870	87.60-87.75	87.61	Calves

CHOICE SLAUGHTER STEER PRICES

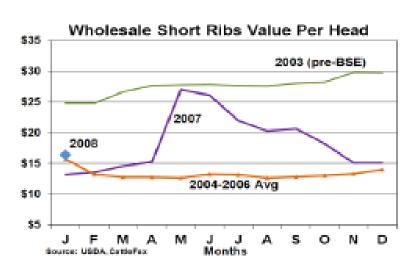
5 Market Weighted Average, Weekly

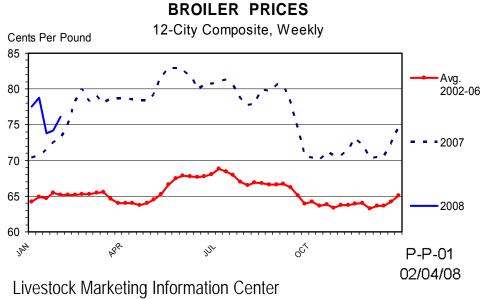


Livestock Marketing Information Center

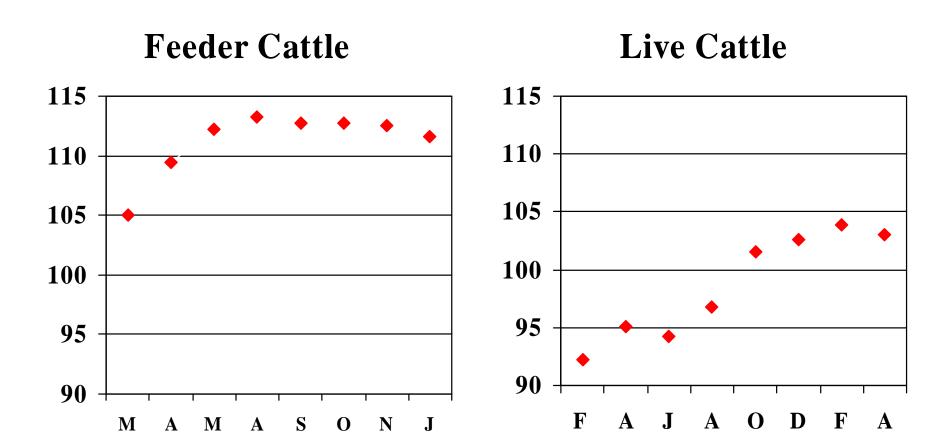
Fed Cattle Prices

	\$100	\$90
Japan and Korea	Increasing volume	Problems
Chicken prices	\$0.80/lb	\$0.70/lb
Hog prices	Over \$50/cwt	Under \$40/cwt
Slaughter weights	1250 lbs	1350 lbs
Hide and offal value	\$10/cwt	\$8/cwt
Gas prices	Falling	Rising
JBS-Friboi/Swift	Aggressive	
100 other factors	+	-



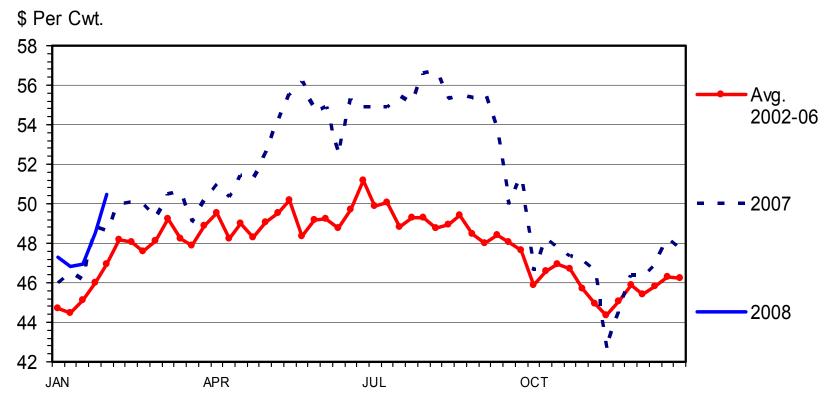


Futures Prices 2/08/08



SLAUGHTER COW PRICES

85-90% Lean, Weekly



Livestock Marketing Information Center

C-P-35 02/06/08

Price Risk Management Tools

- Cash forward contract
- Video and internet auctions
- CME futures
- CME options
- Livestock Risk Protection (LRP)
- Livestock Gross Margin (LGM)
- Which one or combination fits your marketing plan?





AMS

USDA

EARCH

LIVESTOCK AND GRAIN MARKET NEWS BRANCH

 Meat▼
 Cattle▼
 Swine▼
 Sheep▼
 Goats▼
 Grains▼
 Feedstuff▼
 Hay▼
 International▼
 Other▼

- Apache Video Sales
- Lexington Kentucky Internet Sale (Monthly)
- Joplin Video Auction (Bi-Monthly)
- Northern Livestock Video Auction (Seasonal)
- Tennessee Graded Feeder Cattle & Video Board Sale (Seasonal)
- Southeast Livestock Exchange Video Auction (Monthly)
- Superior Video Auction (Mon)
- Superior Video Action Recap (Bi-weekly-Mon)
- Producers Internet Auction (Bi-Monthly)
- Virginia Electronic Feeder Cattle Sale
- Superior Stampede Internet Auction (Thu)
- Western Video Market (Monthly)
- Winter Livestock Video Association (Monthly)

NASS Reports | CME | MPR | Food Purchase Program | MN Home | LS Home

AMS USDA SEARCH TOP

Futures and Options Live Cattle Feeder Cattle

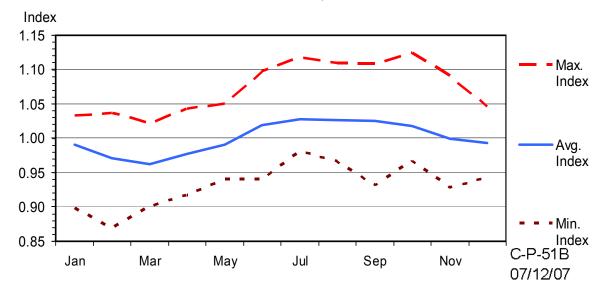
Tim Petry
Livestock Marketing Economist
NDSU Extension Service

Feeder Cattle Contract

- 50,000 lbs, 500 cwt
- 700-849 lbs (72-60 hd)
- USDA Medium and Large Frame, #1
- Jan, Mar, Apr, May, Aug, Sep, Oct, Nov
- Cash settlement
- Daily limits: \$3/cwt

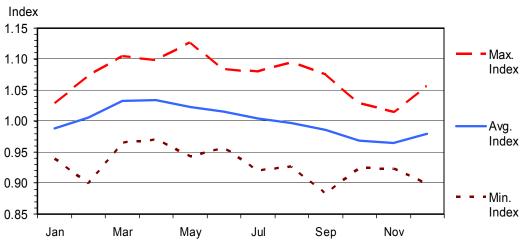
SEASONAL PRICE INDEX -- FEEDER STEERS

700-800 Pounds, 1997-2006



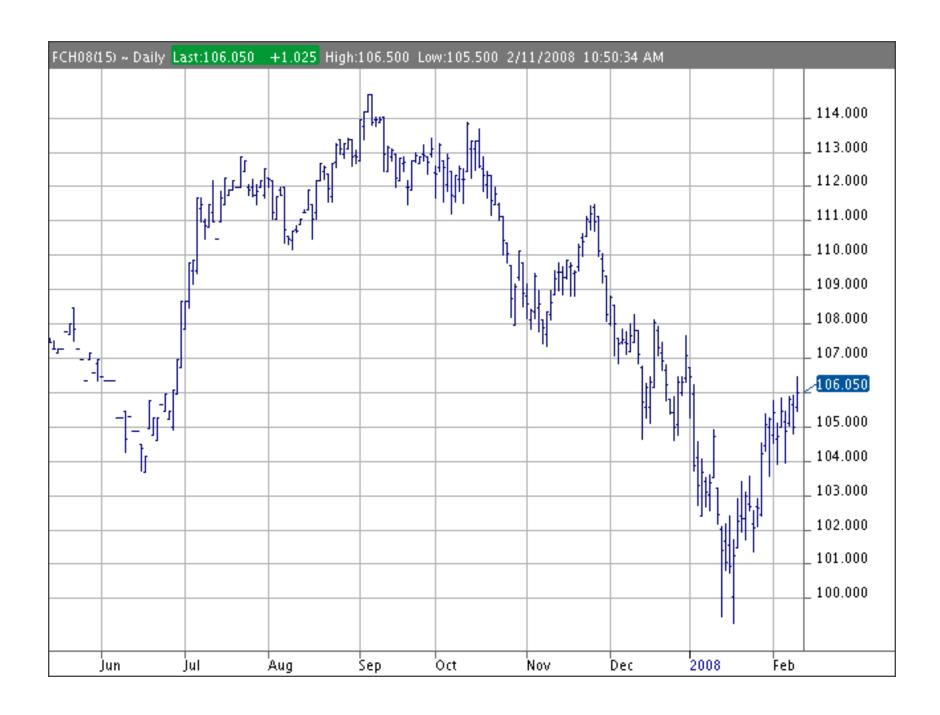
SEASONAL PRICE INDEX -- STEER CALVES

500-600 Pounds, 1997-2006



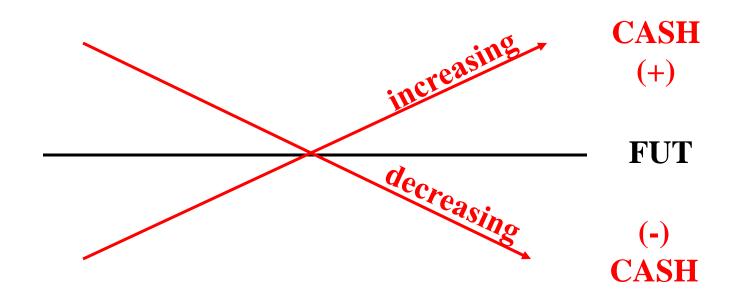
Livestock Marketing Information Center

C-P-51C 07/12/07



BASIS is difference between a cash price and the CME futures price.

HEDGING eliminates risk of adverse price movement, except for the risk of the basis being different than expected.



N.D. Feeder Cattle Basis "Rule of Thumb"

- E to W along I-94
- Highway 2 deduct \$2 to \$3

$$700 - 850 = par$$
 -4 to +4
 $600 - 700 = +5$
 $500 - 600 = +10$
 $400 - 500 = +15$
 $850 - 950 = -5$

Options

- Similar to an insurance policy
- PUT: right to a short futures contract
- CALL: right to a long futures contract
- Buyer pays market determined premium
- Seller receives premium

Why use options?

Price ▲ <u>cash</u>

Price ▼ <u>futures</u>

Price ? <u>options</u>

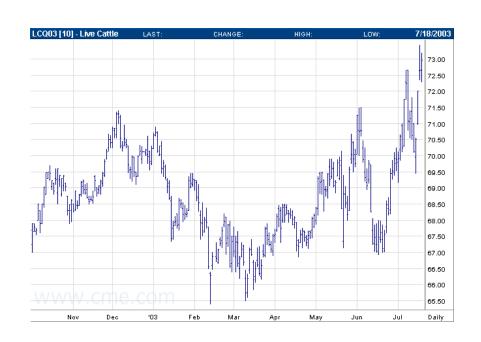
Options will always be 2nd best

Feeder Cattle Options

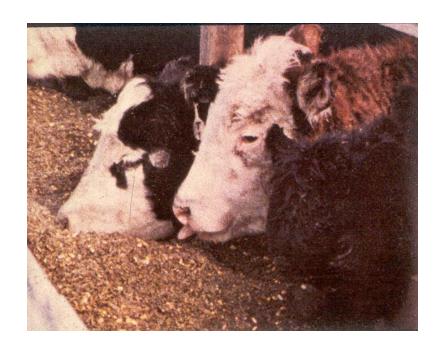
- Jan, Mar, Apr, May, Aug, Sep, Oct, Nov (same as futures)
- Strike price available in \$2/cwt intervals nearby two contracts at \$1/cwt intervals expiring contract may have \$0.50/cwt intervals
- Terminate on last Thursday of contract month same day as futures expire and cash settlement

When should I pull the trigger?





Most difficult part of using Futures and Options



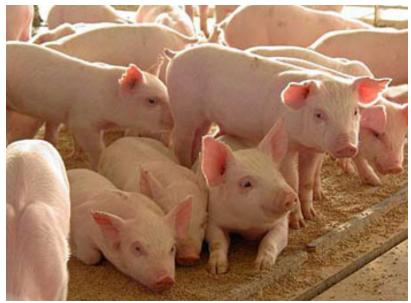
Livestock Risk Protection (LRP)

A New Price Risk Management Tool for Livestock Producers

Tim Petry, Livestock Economist







This project was supported by the North Central Risk Management Education Center



LRP

- Feeder Cattle (beef, dairy, Brahman)
 - Under 600 lbs
 - Steers or heifers
 - 600-900 lbs
 - Steers or heifers
- Fed cattle
- Hogs
- Lambs (9/17/07)

LRP

- Similar to put options
- 13% of premium is subsidized
- Crop insurance agents do <u>not</u> have to offer
- List of approved agents at:

www3.rma.usda.gov/apps/agentsslpi/result.cfm

LRP – Feeder Cattle

- Based on Chicago Mercantile Exchange (CME) feeder cattle price index which is available at www.cme.com or DTN
- 650-849 lb, M & L # 1, feeder steers at markets reported by USDA-AMS
- Same "basis" considerations as futures and options

Price Adjustment Factors

Weight Range		Heifers	Predom. Brahman	Predom. Dairy
<6.0 cwt	110%	100%	100%	85%
6.0-9.0 cwt	100%	90%	90%	80%

Insurance Period

Policies may be available for the following <u>weekly</u> lengths:

13, 17, 21, 26, 30, 34, 39, 43, 47, 52

Policy Size

- Any # up to 1,000 head per Specific Coverage Endorsement (SCE)
- 2,000 maximum per year (July 1–June 30)

Actuarials

Coverage prices & rates change daily and are posted on the USDA Risk Management Agency (RMA) web site

www.rma.usda.gov

Coverage levels will range from 70-100% of expected price

Indemnity

Payment based on difference between COVERAGE PRICE (CP)
 & CME CASH SETTLEMENT PRICE (CS)

 Producers must submit 04-LRP-Claim Form within 60 days of end of contract

Last Year

Feeder Steers – Over 600 lbs							
Date	# of Weeks	End Date	Coverage Price	Prem	Actual Price*	Profit	Net Price**
9/26/06	13	12/26	104.49	1.22	99.13	4.14	103.27
	17	01/23	104.00	1.47	94.70	7.83	102.53
	21	2/20	101.10	1.63	99.03	.44	99.47
	26	3/27	100.00	1.82	105.28		103.46

^{*} CME cash settlement price

^{**} If your market price = cash settlement price

SF_LS766

Sioux Falls, SD Thu Jan 25, 2007 USDA-ND Ag Market News

Stockmens Livestock Exchange - Dickinson, ND Feeder Cattle Weighted Average Report for 01/25/2007

Receipts: 4501 Last Week: 2868 Year Ago: 2635

Compared to last Thursday feeder steers and heifers sold unevenly steady today. Steers made up 61 percent of the run; heifers 39 percent. 87 percent over 600 lbs. Next week will be a regular sale along with feeder cattle; 3000 head expected.

Feeder Steers Medium and Large 1

35 457-492 471 115.00-118.00 116.98	
33 137 172 171 113.00 110.00 110.70	
50 500-547 532 113.00-115.00 114.19	
89 550-598 572 106.00-114.75 110.56	
184 601-647 627 102.00-112.00 106.20 Cal	ves
234 655-696 678 93.00-101.75 98.42 Cal	ves
425 700-749 728 90.00-98.75 96.26 Cal	ves
227 751-797 767 91.75-97.00 94.43 Cal	ves
168 809-840 832 91.35-93.00 92.21 Cal	ves
383 850-885 869 90.00-92.85 91.34 Cal	ves
31 901-945 918 86.00-90.25 89.07 Cal	ves
36 970-979 976 86.50-88.00 87.54 Cal	ves

This Year

Feeder Steers – Over 600 lbs							
Date	# of Weeks	End Date	Coverage Price	Premium	Actual Price*	Profit	Net Price**
9/26/07	13	12/26	110.27	1.53	102.79	5.95	108.74
	17	01/23	110.01	1.80	97.70	10.51	108.21
	21	2/20	110.74	2.90	?	?	?

SF_LS766

Sioux Falls, SD Thu Jan 24, 2008

USDA-ND Dept Ag Market News

Stockmens Livestock Exchange - Dickinson, ND Feeder Cattle Weighted Average Report for 01/24/2008

Receipts: 2264 Last Week: 2842 Year Ago: 4501

*Corrected weighted avg. on 800 lb. steers.

Compared to last week: Steers and Heifers traded steady to 3.00 higher. Demand was moderate to good on all classes. Steers made up 56 percent; Heifers made up 44 percent. 82 percent over 600 lbs. Total sale receipts comprised of 79 percent feeder cattle and calves; 6 percent slaughter cows and bulls with the balance misc. Next feeder cattle sale is scheduled for January 31, 2008 expecting 2500 hd.

reeder Steers Medium and Large 1					
Head	Wt Range	Avg Wt	Price Range	Avg Price	
6	475	475	122.50	122.50	
49	507-539	526	110.00-119.00	116.13	
67	553-594	568	109.50-117.00	114.45	
94	612-638	630	102.50-111.75	108.13	Calves
6	608	608	113.75	113.75	Value Added
170	650-692	672	101.00-109.00	105.89	Calves
165	709-749	733	94.25-100.50	99.36	Calves
78	758-799	773	93.25-99.50	97.55	Calves
168	800-847	817	93.25-97.50	94.10	Calves
26	857-872	864	89.50-90.50	90.00	Calves
35	902-923	917	89.50-90.50	90.22	
17	1003	1003	89.00	89.00	
5	1097	1097	83.00	83.00	

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LRP – Feeder Cattle

	Price	Cost/cwt	End Date	Current Cash Price
550 lb steer	120.35	3.52	5/09	116
	122.41	4.45	6/06	
	122.85	4.94	7/04	
	123.15	5.33	8/08	
750 lb steer	109.41	3.20	5/09	99
	111.28	4.06	6/06	
	111.69	4.49	7/04	
	111.96	4.85	8/08	

Fed Cattle (Steers or Heifers)

- 1000 1400 lb., Select or higher, YG 1-3
- Based on 5-area weighted average 35 to 65 percent choice steer price
 - www.ams.usda.gov/mnreports/lm_150.txt
- Released each Monday morning
- Any # up to 2000 head per SCE 4000 maximum per year

LRP – Fed Cattle

Price	Cost/cwt	End Date	Current Cash Price
92.13	2.00	5/09	91.73
91.61	2.18	6/06	
93.02	3.17	7/04	
92.43	2.35	8/08	
93.39	2.56	9/05	
96.27	2.74	10/03	
90.47	1.23	11/07	
91.14	1.32	12/05	

LRP

Advantages

- Small numbers can be hedged
- \uparrow 600, \downarrow 600, heifers, dairy
- Premium subsidized 13%
- No brokerage or margin
- Receive higher prices in bull market
- Available in months where no futures/options
- All coverage prices available daily

Disadvantages

- Not "flexible" like futures and options
- Can be suspended at any time

Steps to LRP

- 1. Submit eligibility application form with insurance agent
- 2. Select a SCE (coverage prices and premiums are available after 5 PM (CST) except holidays)
 - 1. Number of head
 - 2. Policy length closest to marketing date
 - 3. Estimated average market weight
 - 4. Choose coverage price
- 3. Pay premium to agent
- 4. Agent submits SCE form electronically (hours are between 5 PM and 9 AM (CST), Tues-Sat only)

Questions?

