

# Cattle



**National  
Agricultural  
Statistics  
Service**

**United States  
Department of  
Agriculture**

**Washington, D.C.**

---

Released July 24, 1992, by the Agricultural Statistics Board. Inventory estimates refer to July 1, 1992. Calf Crop estimates are for the 1992 year. Number of operations and Inventory estimates by size group are for the 1990 and 1991 calendar years.

## July 1 Cattle Inventory Unchanged

All cattle and calves in the United States as of July 1, 1992, totaled 109.2 million head, unchanged from July 1, 1991, but up 2 percent from the 107.4 million two years ago.

All cows and heifers that have calved, at 44.5 million, were unchanged from a year ago but up 1 percent from two years ago.

- Beef cows, at 34.7 million, were up slightly from July 1, 1991, and 2 percent above two years ago.
- Milk cows, at 9.85 million, were 1 percent below July 1, 1991, and 2 percent below 1990.

Other class estimates on July 1, 1992, and the changes from July 1 last year and two years ago, respectively, are as follows:

- All heifers 500 pounds and over, 16.9 million, down 1 percent and up 3 percent.
- Beef replacement heifers, 5.70 million, up 8 percent and up 12 percent.
- Milk replacement heifers, 4.20 million, unchanged from the previous two years.

---

For information call Glenda Shepler (202) 720-3040. Office hours are 8:00 a.m. to 4:30 p.m. ET.

- Other heifers, 7.00 million, down 7 percent and down 1 percent.
- Steers weighing 500 pounds and over, 15.1 million, unchanged and up 4 percent.
- Bulls weighing 500 pounds and over, 2.20 million, unchanged from the previous two years.
- Calves under 500 pounds, 30.5 million, up slightly and up 1 percent.

### Calf Crop Up 1 Percent

The 1992 calf crop is expected to be 39.5 million, up 1 percent from both 1991 and 1990. Calves born during the first half of the year are estimated at 28.8 million, up slightly from both 1991 and 1990.

---

This report was approved on July 24, 1992, by the Acting Secretary of Agriculture and the National Agricultural Statistics Service's Agricultural Statistics Board.



Acting Secretary of  
Agriculture  
Daniel A. Sumner



Agricultural Statistics Board  
Chairperson  
Rich Allen

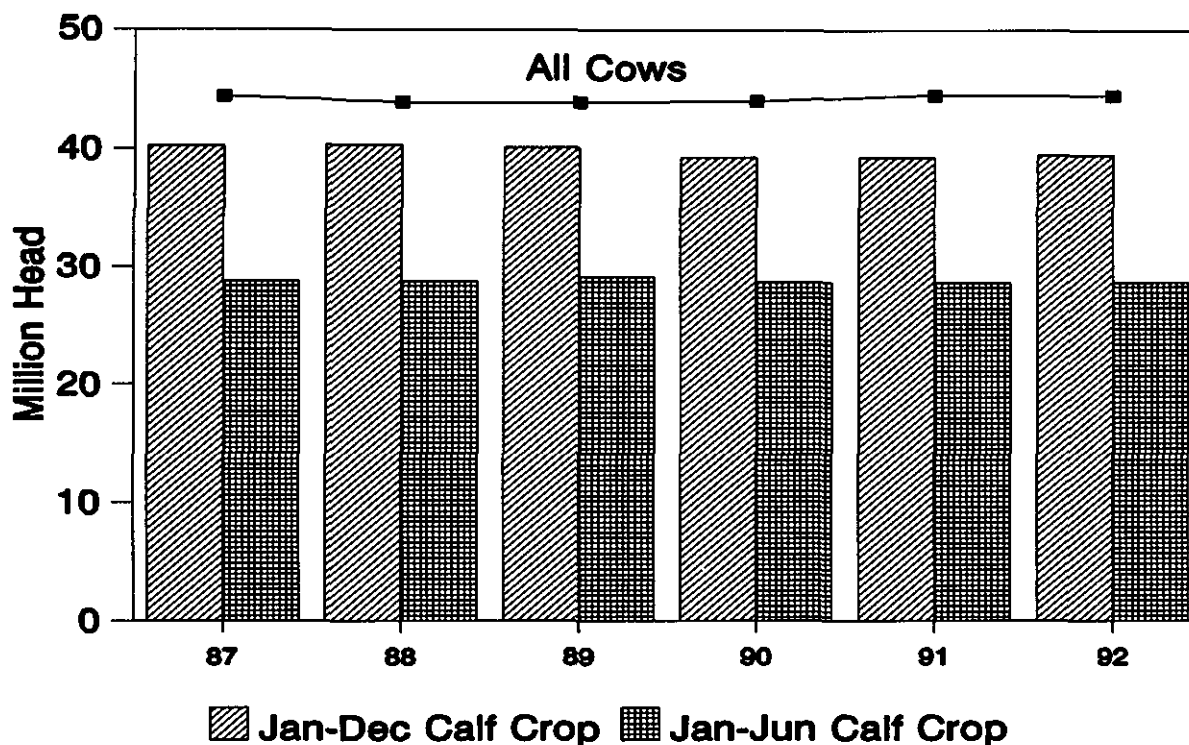
Cattle and Calves: Number by Class and Calf Crop, United States,  
July 1, 1990-92

Class	1990	1991	1992	1992 as % 1991
	1,000 Head			Percent
Cattle and Calves	107,400	109,200	109,200	100
Cows and Heifers That Have Calved	44,000	44,500	44,500	100
Beef Cows	33,900	34,500	34,650	100
Milk Cows	10,100	10,000	9,850	99
Heifers 500 Pounds and Over	16,400	17,000	16,900	99
For Beef Cow Replacement	5,100	5,300	5,700	108
For Milk Cow Replacement	4,200	4,200	4,200	100
Other Heifers	7,100	7,500	7,000	93
Steers 500 Pounds and Over	14,500	15,100	15,100	100
Bulls 500 Pounds and Over	2,200	2,200	2,200	100
Calves Under 500 Pounds	30,300	30,400	30,500	100
Calf Crop	39,249	39,256	39,500	101

Calf Crop: Number and Percent of Total by Six Month Period,  
United States, 1990-91 and Preliminary Calf Crop, 1992

Period	1990		1991		1992	
	Number (000)	% of Total	Number (000)	% of Total	Number (000)	% of Total
Jan 1 - Jun 30	28,700	73.1	28,700	73.1	28,800	72.9
Jul 1 - Dec 31	10,549	26.9	10,556	26.9	10,700	27.1
Total	39,249	100.0	39,256	100.0	39,500	100.0

## All Cows and Calf Crop July 1, United States



Balance Sheet: Cattle and Calves, United States,  
January 1 - June 30, 1990-92 1/

Item	:	1990	:	1991	:	1992
				Million Head		
January 1 Inventory	:	98.2		98.9		100.1
Calf Crop and Imports	:	29.8		29.9		29.9
Total Supply <u>2/</u>	:	128.0		128.7		130.0
Slaughter	:	17.7		17.0		17.1
Deaths and Exports	:	2.5		2.5		2.7
Total Disappearance <u>2/</u>	:	20.2		19.5		19.8
Residual <u>2/</u>	:	-.4		0		-1.0
July 1 Inventory	:	107.4		109.2		109.2

1/ Preliminary.

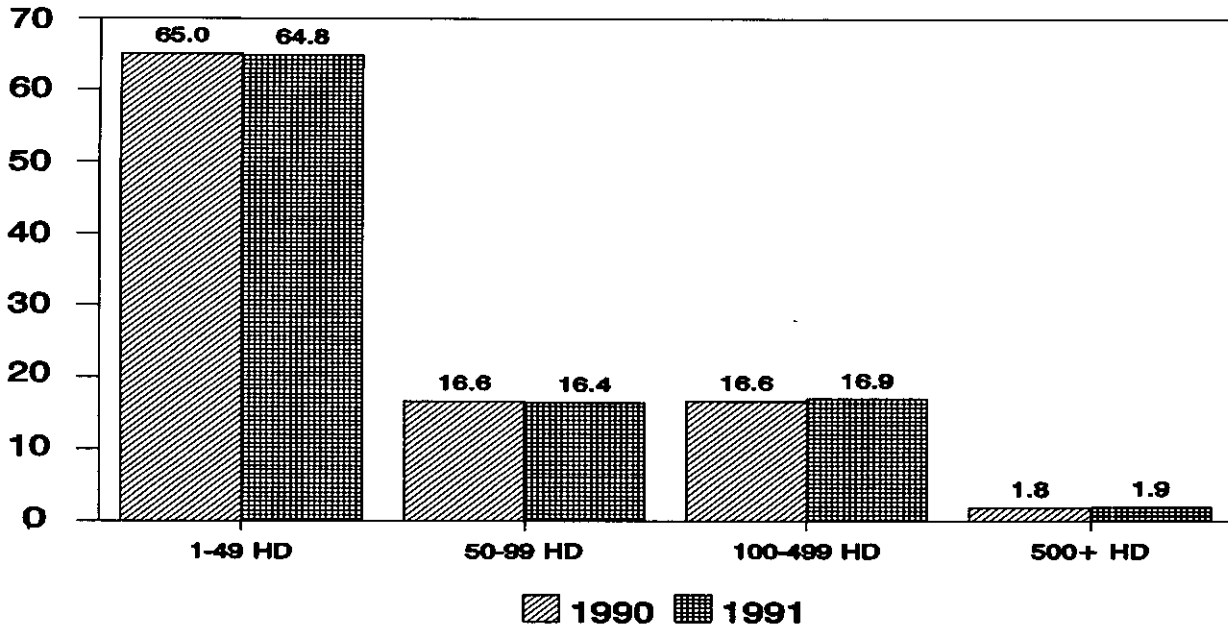
2/ Totals may not add due to rounding.

Cattle and Calves: Number of Operations, 1990-91 and Inventory,  
January 1, 1991-92, by Selected States and United States <sup>1/</sup>

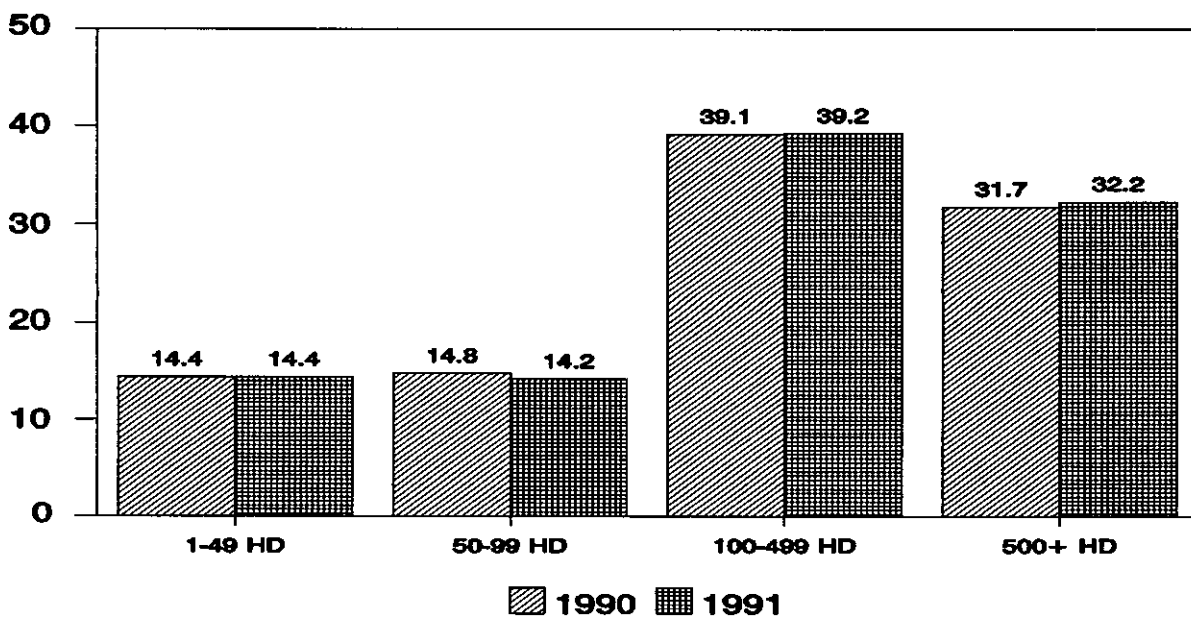
State	Operations With Cattle		January 1 Cattle Inventory	
	1990	1991	1991	1992
	Number		1,000 Head	
AL	37,000	35,000	1,800	1,800
AR	34,000	34,000	1,690	1,710
CA	29,000	28,000	4,600	4,500
CO	15,000	14,500	2,750	2,950
FL	21,000	20,000	1,900	1,940
GA	30,000	30,000	1,420	1,470
ID	15,000	14,000	1,740	1,760
IL	33,000	33,000	2,000	1,980
IN	34,000	33,000	1,225	1,280
IA	49,000	45,000	4,700	4,450
KS	38,000	35,000	5,700	5,650
KY	57,000	55,000	2,500	2,580
MN	40,000	37,000	2,760	2,800
MS	28,000	29,000	1,290	1,350
MO	82,000	80,000	4,400	4,550
MT	14,000	13,400	2,330	2,550
NE	31,000	30,000	6,000	5,800
NM	9,000	9,000	1,340	1,400
NY	22,000	21,000	1,550	1,560
ND	16,300	16,300	1,700	1,850
OH	43,000	42,000	1,580	1,600
OK	62,000	62,000	5,550	5,500
PA	38,000	35,000	1,820	1,870
SD	23,000	23,000	3,400	3,550
TN	68,000	67,000	2,250	2,290
TX	136,000	133,000	13,300	13,600
WI	56,000	54,000	4,170	4,000
WY	5,900	5,400	1,190	1,320
28 Sts	1,066,200	1,033,600	86,655	87,660
22 Sts	222,390	212,870	12,241	12,450
US	1,288,590	1,246,470	98,896	100,110

<sup>1/</sup> An operation is any place having one or more head of the species on hand at any time during the year.

## U.S. Cattle Operations Percent by Size Group, 1990-91



## U.S. Cattle Inventory Percent by Size Group, 1990-91



Cattle and Calves: Percent of Operations by Size Groups,  
Selected States, and United States 1990-91 1/

State	Operations Having							
	1-49 Head		50-99 Head		100-499 Head		500+ Head	
	1990	1991	1990	1991	1990	1991	1990	1991
Percent								
AL	70.0	71.0	18.0	17.0	11.2	11.2	0.8	0.8
AR	67.7	68.0	19.1	19.0	13.2	13.0	<u>2/</u>	<u>2/</u>
CA	69.0	69.5	7.9	7.3	15.2	15.0	7.9	8.2
CO	46.7	47.0	17.3	18.0	29.3	27.4	6.7	7.6
FL	77.1	77.0	10.0	9.5	10.0	10.5	2.9	3.0
GA	76.7	74.0	13.0	14.7	9.7	10.7	0.6	0.6
ID	61.7	60.0	12.7	14.0	21.3	21.4	4.3	4.6
IL	66.0	68.0	19.0	18.0	14.0	13.4	1.0	0.6
IN	76.5	78.0	13.5	12.5	10.0	9.5	<u>2/</u>	<u>2/</u>
IA	43.0	42.0	25.5	24.8	29.5	31.0	2.0	2.2
KS	45.0	44.0	21.0	23.0	29.8	29.3	4.2	3.7
KY	74.0	73.0	15.6	16.0	10.4	10.5	<u>2/</u>	0.5
MN	50.0	54.0	28.0	23.0	21.5	22.5	0.5	0.5
MS	74.0	76.0	14.0	12.0	10.9	11.0	1.1	1.0
MO	68.3	66.0	16.6	17.0	14.4	16.2	0.7	0.8
MT	37.0	34.0	21.0	19.0	34.0	37.0	8.0	10.0
NE	37.0	36.0	22.0	22.0	34.5	35.0	6.5	7.0
NM	57.0	56.0	13.0	15.0	22.0	22.0	8.0	7.0
NY	52.3	52.0	23.4	22.2	23.6	25.0	0.7	0.8
ND	35.0	34.0	23.3	22.0	39.8	41.0	1.9	3.0
OH	80.0	80.0	11.0	12.0	9.0	7.5	<u>2/</u>	0.5
OK	63.0	63.0	17.5	17.4	17.4	17.4	2.1	2.2
PA	68.0	66.0	19.7	20.5	12.3	13.5	<u>2/</u>	<u>2/</u>
SD	31.0	31.0	22.0	21.0	42.0	42.0	5.0	6.0
TN	80.9	82.0	12.1	11.3	7.0	6.7	<u>2/</u>	<u>2/</u>
TX	66.0	65.0	15.3	15.0	16.2	17.5	2.5	2.5
WI	43.7	43.0	31.0	30.7	25.3	26.3	<u>2/</u>	<u>2/</u>
WY	41.0	41.0	12.0	14.0	34.0	32.0	13.0	13.0
28 Sts	62.5	62.3	17.8	17.4	17.7	18.2	2.0	2.1
22 Sts	77.5	77.0	10.5	10.7	10.7	11.0	1.3	1.3
US	65.0	64.8	16.6	16.4	16.6	16.9	1.8	1.9

1/ An operation is any place having one or more cattle on hand during the year. Percents reflect average distributions of various probability surveys conducted during the year but are based primarily on end-of-year surveys.

2/ Combined with other size groups.

Cattle and Calves: Percent of Inventory by Size Groups,  
Selected States, and United States 1990-91 <sup>1/</sup>

State	Inventory on Operations Having							
	1-49 Head		50-99 Head		100-499 Head		500+ Head	
	1990	1991	1990	1991	1990	1991	1990	1991
Percent								
AL	25.0	26.0	24.0	23.0	37.0	38.0	14.0	13.0
AR	23.0	23.2	26.1	26.0	42.6	42.0	8.3	8.8
CA	4.3	4.4	3.7	3.1	21.0	20.5	71.0	72.0
CO	3.6	4.7	6.2	6.3	31.8	30.0	58.4	59.0
FL	11.1	12.0	7.5	6.7	23.9	23.3	57.5	58.0
GA	32.4	29.5	18.6	20.0	38.0	40.0	11.0	10.5
ID	6.3	6.0	7.2	7.5	38.5	36.0	48.0	50.5
IL	23.5	25.0	22.0	24.0	43.0	41.0	11.5	10.0
IN	30.6	33.0	24.1	21.4	38.0	37.0	7.3	8.6
IA	8.5	8.5	17.5	16.0	51.0	50.5	23.0	25.0
KS	6.0	6.0	9.0	10.0	35.0	34.0	50.0	50.0
KY	32.0	30.0	24.0	24.0	39.2	40.0	4.8	6.0
MN	14.0	17.0	29.0	24.0	50.0	52.5	7.0	6.5
MS	23.0	28.0	18.0	16.0	40.0	38.0	19.0	18.0
MO	22.5	21.0	22.2	21.0	46.0	48.0	9.3	10.0
MT	4.0	4.0	9.0	7.0	41.0	40.0	46.0	49.0
NE	4.3	4.0	8.0	8.0	34.7	34.0	53.0	54.0
NM	5.0	4.0	6.0	5.0	26.0	26.0	63.0	65.0
NY	12.0	11.0	23.5	21.5	56.0	58.0	8.5	9.5
ND	7.5	6.0	16.0	14.0	65.0	63.0	11.5	17.0
OH	33.0	32.0	19.5	21.0	40.5	38.0	7.0	9.0
OK	14.6	15.5	14.0	13.5	38.6	39.0	32.8	32.0
PA	22.0	22.2	30.0	29.5	43.8	44.0	4.2	4.3
SD	4.8	4.9	10.2	9.1	54.0	53.0	31.0	33.0
TN	39.6	39.0	23.6	22.8	32.4	33.0	4.4	5.2
TX	13.6	14.0	10.7	10.0	32.7	34.0	43.0	42.0
WI	13.5	11.8	29.0	28.0	53.7	56.0	3.8	4.2
WY	2.9	2.7	3.8	4.3	33.6	32.0	59.7	61.0
28 Sts	13.7	13.8	15.1	14.3	39.2	39.3	32.0	32.6
22 Sts	18.9	18.5	13.3	13.2	38.1	38.5	29.7	29.8
US	14.4	14.4	14.8	14.2	39.1	39.2	31.7	32.2

<sup>1/</sup> Percents reflect average distributions of various probability surveys conducted during the year but are based primarily on end-of-year surveys.



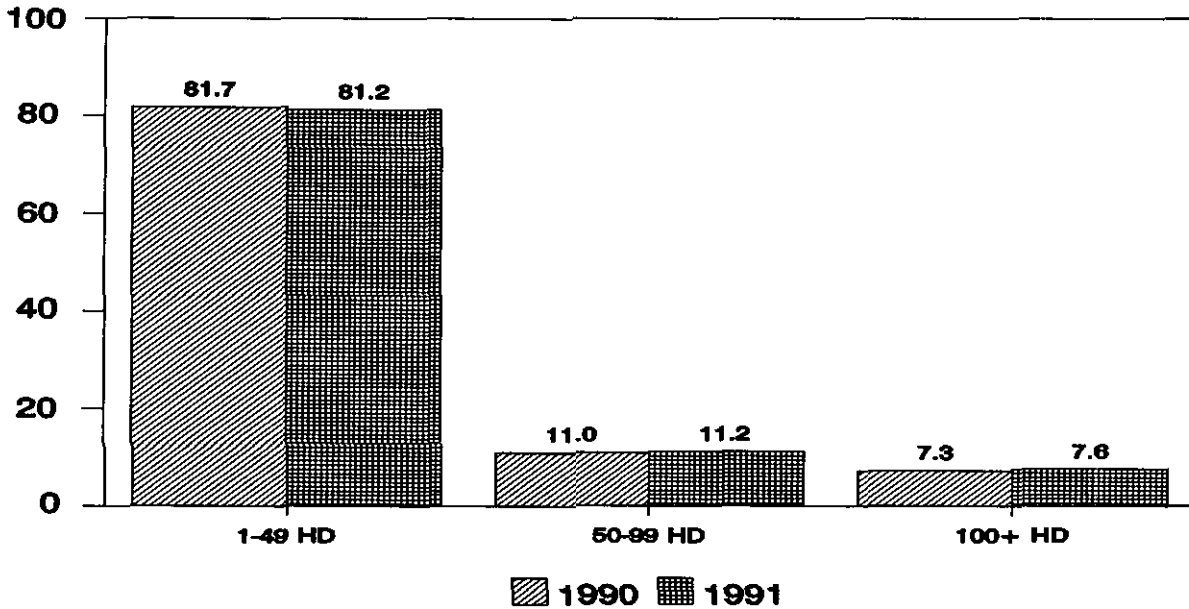
Beef Cows: Number of Operations 1990-91 and Inventory,  
January 1, 1991-92, by Selected States and United States 1/

State	: Operations With Beef Cows <u>2/</u> :		: January 1 Beef Cow Inventory	
	: 1990	: 1991	: 1991	: 1992
	: ----- Number -----		: ----- 1,000 Head -----	
AL	: 36,000	: 34,000	: 917	: 867
AR	: 29,000	: 29,000	: 848	: 872
CA	: 18,000	: 17,000	: 880	: 850
CO	: 10,800	: 10,500	: 773	: 823
FL	: 18,000	: 18,000	: 1,065	: 1,076
GA	: 27,000	: 27,000	: 657	: 685
ID	: 8,500	: 8,000	: 545	: 552
IL	: 22,000	: 22,000	: 570	: 571
IN	: 20,000	: 19,000	: 345	: 380
IA	: 31,000	: 29,000	: 1,138	: 1,117
KS	: 30,000	: 29,000	: 1,325	: 1,335
KY	: 46,000	: 45,000	: 1,100	: 1,110
MN	: 15,000	: 16,000	: 375	: 375
MS	: 26,000	: 27,000	: 707	: 700
MO	: 67,000	: 65,000	: 1,980	: 2,050
MT	: 12,300	: 11,900	: 1,376	: 1,466
NE	: 24,000	: 23,000	: 1,797	: 1,750
NM	: 7,000	: 7,000	: 571	: 537
NY	: 8,000	: 7,600	: 65	: 70
ND	: 14,000	: 14,500	: 875	: 880
OH	: 23,000	: 23,000	: 370	: 370
OK	: 51,000	: 51,000	: 1,840	: 1,921
PA	: 15,000	: 14,000	: 184	: 207
SD	: 18,500	: 18,500	: 1,493	: 1,508
TN	: 59,000	: 57,000	: 975	: 975
TX	: 120,000	: 119,000	: 5,310	: 5,475
WI	: 9,700	: 10,000	: 175	: 175
WY	: 5,100	: 4,800	: 650	: 691
28 Sts	: 770,900	: 756,800	: 28,906	: 29,388
22 Sts	: 162,020	: 156,120	: 4,365	: 4,446
US	: 932,920	: 912,920	: 33,271	: 33,834

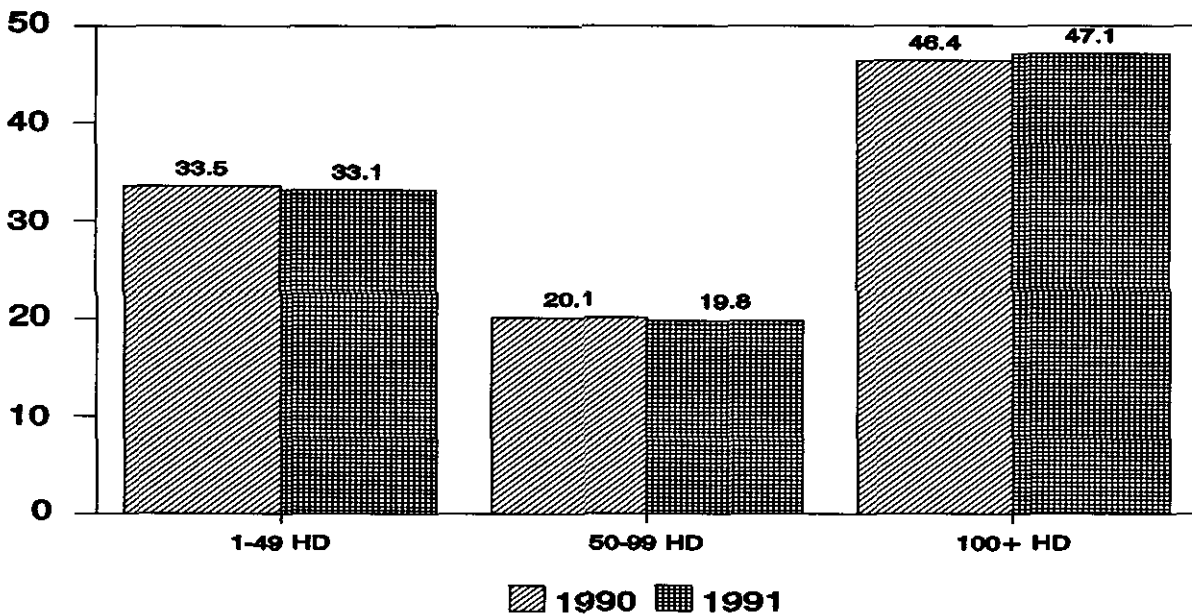
1/ An operation is any place having one or more beef cows on hand at any time during the year.

2/ Included in operations with cattle.

## U.S. Beef Cow Operations Percent by Size Group, 1990-91



## U.S. Beef Cow Inventory Percent by Size Group, 1990-91



Beef Cows: Percent of Operations by Size Groups,  
Selected States, and United States 1990-91 <sup>1/</sup>

State	Operations Having					
	1-49 Head		50-99 Head		100+ Head	
	1990	1991	1990	1991	1990	1991
Percent						
AL	86.0	85.0	10.0	10.3	4.0	4.7
AR	76.0	76.0	19.0	19.0	5.0	5.0
CA	79.0	78.0	8.2	9.5	12.8	12.5
CO	59.3	59.0	18.5	16.0	22.2	25.0
FL	80.0	80.0	8.9	9.0	11.1	11.0
GA	87.8	87.5	8.9	9.2	3.3	3.3
ID	69.0	66.0	13.0	15.0	18.0	19.0
IL	89.0	91.0	8.4	6.8	2.6	2.2
IN	94.0	94.0	5.0	4.5	1.0	1.5
IA	73.5	74.0	20.0	18.8	6.5	7.2
KS	68.0	66.0	19.0	21.0	13.0	13.0
KY	87.0	88.0	10.0	9.0	3.0	3.0
MN	87.0	87.0	10.0	10.5	3.0	2.5
MS	86.0	87.0	10.0	9.5	4.0	3.5
MO	85.0	83.0	10.0	12.0	5.0	5.0
MT	41.0	40.0	26.0	24.0	33.0	36.0
NE	58.5	58.0	20.0	20.0	21.5	22.0
NM	67.0	65.0	15.0	16.0	18.0	19.0
NY	97.5	98.0	1.8	1.3	0.7	0.7
ND	52.0	54.0	27.0	26.0	21.0	20.0
OH	95.6	96.0	3.4	3.0	1.0	1.0
OK	76.5	77.0	16.0	15.0	7.5	8.0
PA	97.4	97.0	1.9	2.2	0.7	0.8
SD	53.0	52.0	22.0	22.0	25.0	26.0
TN	93.2	93.0	5.4	5.4	1.4	1.6
TX	80.0	78.0	11.5	12.5	8.5	9.5
WI	94.0	94.0	4.0	3.8	2.0	2.2
WY	43.0	42.0	16.0	15.0	41.0	43.0
28 Sts	80.2	79.7	12.0	12.1	7.8	8.2
22 Sts	89.3	88.7	6.1	6.3	4.6	5.0
US	81.7	81.2	11.0	11.2	7.3	7.6

<sup>1/</sup> An operation is any place having one or more beef cows on hand during the year. Percents reflect average distributions of various probability surveys conducted during the year but are based primarily on end-of-year surveys.

Beef Cows: Percent of Inventory by Size Groups,  
Selected States, and United States 1990-91 <sup>1/</sup>

State	Inventory on Operations Having					
	1-49 Head		50-99 Head		100+ Head	
	1990	1991	1990	1991	1990	1991
Percent						
AL	45.0	43.0	26.0	25.0	29.0	32.0
AR	40.0	41.0	34.5	34.0	25.5	25.0
CA	14.0	16.0	11.0	12.0	75.0	72.0
CO	14.5	13.0	16.2	13.0	69.3	74.0
FL	15.2	16.5	10.0	9.5	74.8	74.0
GA	53.0	53.5	24.0	24.5	23.0	22.0
ID	14.0	13.0	14.0	14.0	72.0	73.0
IL	61.0	66.0	23.0	20.0	16.0	14.0
IN	74.0	70.0	16.5	13.0	9.5	17.0
IA	39.0	39.0	35.0	32.0	26.0	29.0
KS	28.0	26.0	26.0	27.0	46.0	47.0
KY	55.0	56.0	26.0	24.0	19.0	20.0
MN	55.0	56.0	27.0	29.0	18.0	15.0
MS	44.0	46.0	26.0	26.0	30.0	28.0
MO	49.0	47.0	22.6	25.0	28.4	28.0
MT	7.0	6.0	15.0	13.0	78.0	81.0
NE	16.5	17.0	17.5	17.0	66.0	66.0
NM	11.0	12.0	12.0	12.0	77.0	76.0
NY	78.6	80.0	11.4	10.0	10.0	10.0
ND	18.5	19.0	27.5	27.0	54.0	54.0
OH	73.0	73.0	16.0	16.0	11.0	11.0
OK	36.0	34.0	28.0	26.0	36.0	40.0
PA	80.0	79.0	10.2	10.5	9.8	10.5
SD	15.0	15.0	19.0	18.0	66.0	67.0
TN	68.0	66.0	20.0	20.0	12.0	14.0
TX	31.0	30.0	19.0	20.0	50.0	50.0
WI	64.0	63.0	17.0	15.0	19.0	22.0
WY	4.6	5.0	7.7	7.0	87.7	88.0
28 Sts	32.9	32.5	20.9	20.5	46.2	47.0
22 Sts	37.3	37.0	14.9	15.0	47.8	48.0
US	33.5	33.1	20.1	19.8	46.4	47.1

<sup>1/</sup> Percents reflect average distributions of various probability surveys conducted during the year but are based primarily on end-of-year surveys.

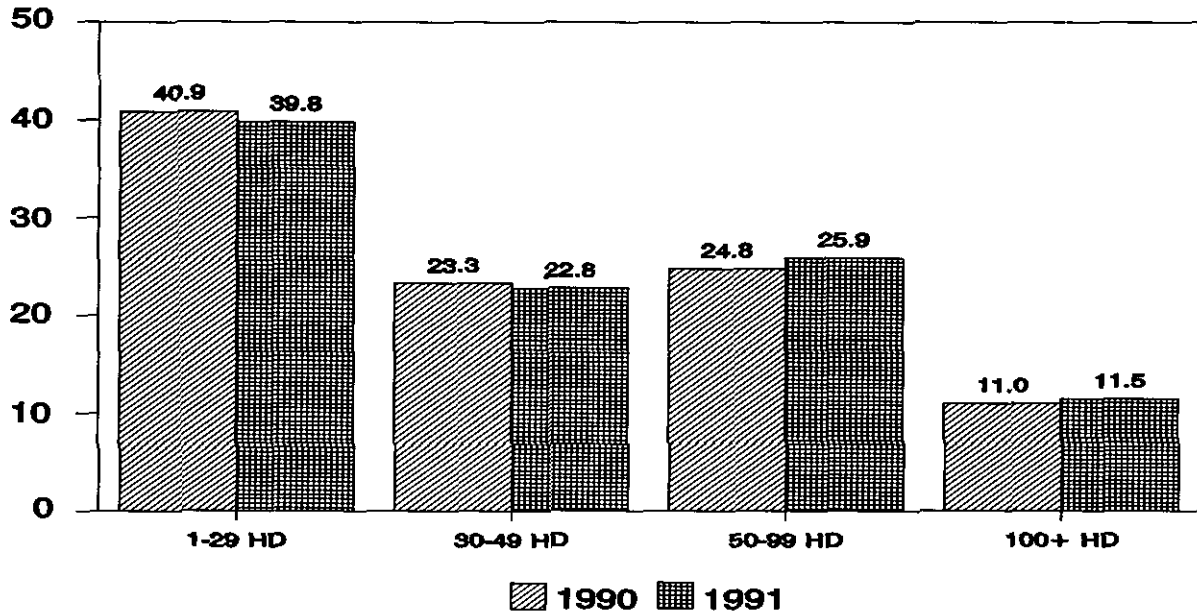
Milk Cows: Number of Operations, 1990-91 and Inventory,  
January 1, 1991-92, by Selected States and United States 1/

State	Operations with Milk Cows <u>2/</u>		January 1 Milk Cow Inventory	
	1990	1991	1991	1992
	Number		1,000 Head	
CA	4,500	4,200	1,150	1,160
FL	1,200	1,000	185	179
ID	2,200	1,900	185	178
IL	3,700	3,000	195	189
IN	5,000	4,800	155	145
IA	7,800	7,000	302	303
KY	6,500	5,500	200	190
MD	1,800	1,600	106	102
MI	6,500	6,000	343	338
MN	15,500	15,000	690	675
MO	8,000	7,500	230	220
NY	13,000	12,200	775	755
NC	2,000	1,500	101	98
OH	9,000	8,900	340	330
PA	15,500	14,500	686	673
TN	4,500	4,000	195	195
TX	5,700	5,300	390	375
VT	2,700	2,600	164	163
VA	3,000	3,000	141	140
WA	3,000	3,000	241	238
WI	33,000	32,000	1,765	1,675
21 Sts	154,100	144,500	8,539	8,321
29 Sts	39,780	37,070	1,617	1,583
US	193,880	181,570	10,156	9,904

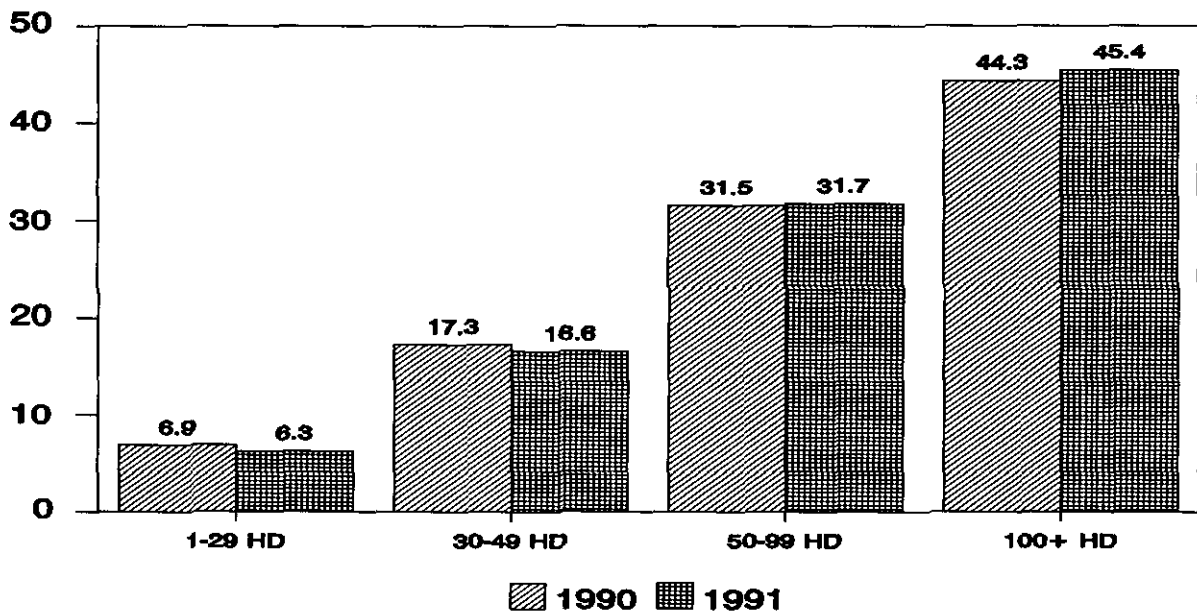
1/ An operation is any place having one or more milk cows on hand during the year, excluding cows used to nurse calves.

2/ Included in operations with cattle.

## U.S. Milk Cow Operations Percent by Size Group, 1990-91



## U.S. Milk Cow Inventory Percent by Size Group, 1990-91



Milk Cows: Percent of Operations by Size Groups, Selected States, and United States, 1990-91 1/

State	Operations Having							
	1-29 Head		30-49 Head		50-99 Head		100+ Head	
	1990	1991	1990	1991	1990	1991	1990	1991
Percent								
CA	42.2	38.1	3.1	2.8	8.0	6.7	46.7	52.4
FL	70.8	67.0	<u>2/</u>	<u>2/</u>	<u>2/</u>	<u>2/</u>	29.2	33.0
ID	45.9	42.1	12.7	14.2	19.1	21.6	22.3	22.1
IL	23.1	23.3	30.8	23.3	33.3	40.0	12.8	13.4
IN	60.0	58.3	16.0	16.1	19.0	19.6	5.0	6.0
IA	37.2	34.3	32.1	28.6	25.6	30.0	5.1	7.1
KY	53.8	47.3	21.5	25.4	18.5	20.0	6.2	7.3
MD	27.8	26.2	19.4	18.8	32.8	35.0	20.0	20.0
MI	30.8	28.3	26.1	26.7	27.7	28.3	15.4	16.7
MN	25.2	25.3	41.3	40.0	29.0	30.0	4.5	4.7
MO	55.0	56.0	17.5	14.7	22.5	24.0	5.0	5.3
NY	20.4	20.5	24.2	23.8	40.8	41.0	14.6	14.7
NC	57.0	47.3	7.0	8.0	15.5	18.0	20.5	26.7
OH	48.9	49.4	21.1	20.2	23.3	23.6	6.7	6.8
PA	31.0	29.6	32.9	33.1	28.4	29.0	7.7	8.3
TN	57.8	55.0	14.0	11.5	17.8	23.0	10.4	10.5
TX	62.6	62.5	4.1	4.0	10.5	10.9	22.8	22.6
VT	18.5	15.4	22.2	23.1	40.8	42.3	18.5	19.2
VA	56.7	56.3	7.3	7.5	20.0	19.9	16.0	16.3
WA	51.0	55.0	5.0	4.0	19.0	18.0	25.0	23.0
WI	23.3	23.4	37.0	36.3	32.7	33.1	7.0	7.2
29 Sts	60.0	59.0	12.1	11.6	16.7	17.5	11.2	11.9
US	40.9	39.8	23.3	22.8	24.8	25.9	11.0	11.5

1/ An operation is any place having one or more milk cows on hand during the year. Percents reflect average distributions of various probability surveys conducted during the year but are based primarily on end-of-year surveys.

2/ Combined with other size groups.

Milk Cows: Percent of Inventory by Size Groups, Selected States, and United States, 1990-91 1/

State	Inventory on Operations Having							
	1-29 Head		30-49 Head		50-99 Head		100+ Head	
	1990	1991	1990	1991	1990	1991	1990	1991
Percent								
CA	0.2	0.2	0.4	0.4	2.0	1.6	97.4	97.8
FL	0.6	0.7	<u>2/</u>	<u>2/</u>	<u>2/</u>	<u>2/</u>	99.4	99.3
ID	3.2	3.9	6.0	6.2	16.2	16.3	74.6	73.6
IL	3.6	3.2	21.0	16.9	41.0	48.7	34.4	31.2
IN	20.7	15.9	17.4	17.2	38.7	40.7	23.2	26.2
IA	13.2	12.5	28.2	23.1	40.4	42.9	18.2	21.5
KY	12.0	8.9	25.0	25.3	36.5	36.8	26.5	29.0
MD	4.6	4.8	12.1	11.4	33.3	36.2	50.0	47.6
MI	5.8	5.3	17.8	16.3	35.0	34.0	41.4	44.4
MN	10.0	9.9	35.9	35.3	40.0	40.7	14.1	14.1
MO	9.6	9.1	20.9	18.2	46.5	49.1	23.0	23.6
NY	3.6	3.3	15.5	15.0	42.6	42.4	38.3	39.3
NC	1.7	1.7	5.2	5.4	22.8	20.4	70.3	72.5
OH	16.2	15.2	17.6	17.6	41.2	41.5	25.0	25.7
PA	8.6	7.6	27.9	26.7	40.2	41.2	23.3	24.5
TN	15.4	10.3	12.8	9.2	28.7	32.8	43.1	47.7
TX	1.3	1.3	2.5	2.1	10.8	11.0	85.4	85.6
VT	2.4	1.8	13.4	12.3	41.5	42.9	42.7	43.0
VA	6.0	5.4	6.0	6.0	30.5	30.0	57.5	58.6
WA	3.0	2.6	2.0	1.6	17.8	14.7	77.2	81.1
WI	8.8	8.4	29.8	29.4	42.7	42.3	18.7	19.9
29 Sts	7.0	7.0	12.5	12.5	31.0	31.0	49.5	49.5
US	6.9	6.3	17.3	16.6	31.5	31.7	44.3	45.4

1/ Percents reflect average distributions of various probability surveys conducted during the year but are based primarily on end-of-year surveys.

2/ Combined with other size groups.



## Reliability of July 1 Cattle and Calves Estimates

**Survey Procedures:** A random sample of U.S. producers was surveyed to provide data for these inventory estimates. Survey procedures ensured that all cattle producers, regardless of size, had a chance to be included in the survey. Large producers were sampled more heavily than small operations. Data were collected from about 28,200 operators during the first half of July by mail, telephone, and face-to-face personal interviews. Regardless of when operators responded, they were asked to report inventories as of July 1.

Size group operation and inventory percents included in this report are based on data from similar surveys conducted throughout the year but are based primarily on end-of-year surveys.

**Estimating Procedures:** These cattle estimates were prepared by the Agricultural Statistics Board after reviewing indications and analysis prepared by each State office. National survey data were reviewed for reasonableness with each other and with estimates from past years using a balance sheet. The balance sheet begins with the previous inventory estimate, adds to it estimates of births and imports for six months, and subtracts estimates of slaughter, exports and deaths for the first six months of the current year. This indicated ending inventory level is compared to the Agricultural Statistics Board estimate for reasonableness.

**Revision Policy:** Revisions to previous estimates are made to improve year to year and item to item relationships. Estimates for the previous year are subject to revision when current estimates are made and when the January 1 cattle inventory estimates are made. The reviews are primarily based on re-evaluation of survey data and additional livestock slaughter and foreign trade data. Estimates will also be reviewed after data from the Department of Commerce's five-year Census of Agriculture are available. No revisions will be made after that date.

**Reliability:** Since all cattle operators are not included in the sample, survey estimates are subject to sampling variability. Survey results are also subject to non-sampling errors such as omissions, duplications, and mistakes in reporting, recording, and processing the data. The effects of these errors cannot be measured directly. They are minimized through rigid quality controls in the data collection process and through a careful review of all reported data for consistency and reasonableness.

To assist users in evaluating the reliability of estimates in this report, the "Root Mean Square Error" is shown for selected items in the table below. The "Root Mean Square Error" is a statistical measure based on past performance and is computed using the differences between first and final estimates. The "Root Mean Square Error" for cattle inventory estimates over the past 15 years is 0.5 percent. This means that chances are 2 out of 3 that the final estimate will not be above or below the current estimate of 109.2 million head by more than 0.5 percent, or about 546,000 head. Chances are 9 out of 10 that the difference will not exceed 0.9 percent, or about 983,000 head (the 90 percent confidence level).

The table below also shows a 15 year record of the range of differences between the first and final estimates for selected items. Using estimates of all cattle and calves as an example, changes between the first inventory estimate and the final estimate during the past 15 years have averaged 321,000 head, ranging from 0 to 1.5 million head. During this period the initial inventory estimate has been below the final estimate 2 times and above the final estimate 9 times. This does not imply that the July 1 estimate is likely to understate or overstate final inventory.

Reliability of July 1 Cattle Estimates 1/

Item	Root Mean Square Error	90% Confidence Level	Percent Head	Difference Between First and Final Estimates <u>2/</u>			Number of Years	
				Average	Smallest	Largest	First Above Final	First Below Final
	-	Percent	--	-----	1,000 Head	-----	Number	
All Cattle	: 0.5	: 0.9	: 983	-321	0	-1,500	9	2
All Cows	: 0.5	: 0.9	: 401	-91	0	-450	8	2
Calf Crop	: 1.6	: 2.8	: 1,106	-339	-50	1,082	12	3

1/ Based on data from July 1977 through July 1991.

2/ Based on records for the past 15 years.

The next "Cattle" report will be released in February 1993.

## Index

	Page
Balance Sheet January 1 - June 30, 1990-92 .....	4
Beef Cow Inventory by Size Groups, Selected States, 1990-91 .....	12
Beef Cow Operations and Inventory, Selected States, 1990-91 .....	9
Beef Cow Operations by Size Groups, Selected States, 1990-91 .....	11
Cattle Inventory by Size Groups, Selected States, 1990-91 .....	8
Cattle Operations and Inventory, Selected States, 1990-91 .....	5
Cattle Operations by Size Groups, Selected States, 1990-91 .....	7
Highlights, Class Inventories, July 1 .....	1
Highlights, U.S. Cattle Inventory, July 1 .....	1
Milk Cow Inventory by Size Groups, Selected States, 1990-91 .....	16
Milk Cow Operations and Inventory, Selected States, 1990-91 .....	13
Milk Cow Operations by Size Groups, Selected States, 1990-91 .....	15
Reliability Statement .....	17
U.S. Calf Crop 1990-91, Preliminary Calf Crop 1992 .....	3
U.S. Class Inventories, July 1, 1990-92 .....	3

**Want to subscribe?**  **Time to renew?**

Subscribe to **Cattle** today! If you already subscribe to this timely periodical, note that your subscription expires in the month and year shown on the top line of your mailing label. The expiration date will appear in one of two formats: APR93 (for April 1993) or 930430 (for April 30, 1993). Disregard this notice if no renewal date appears. Call 1-800-999-6779, and tell us whether you want to subscribe or renew, or return this form to: **ERS-NASS, P.O. Box 1608, Rockville, MD 20849-1608.**

**Cattle**

- Yes! I want to **start** my subscription.
- Yes! I want to **renew** my subscription.

	1 Year	2 Years	3 Years
Domestic	<input type="checkbox"/> \$20.00	<input type="checkbox"/> \$39.00	<input type="checkbox"/> \$58.00
Foreign	<input type="checkbox"/> \$25.00	<input type="checkbox"/> \$48.75	<input type="checkbox"/> \$72.50

**New subscribers:**

Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City, State, Zip: \_\_\_\_\_  
Daytime phone: (\_\_\_\_\_) \_\_\_\_\_

**Renewals:**

**ATTACH MAILING LABEL HERE**

**Payment method:**

- Bill me.
- Enclosed is \$ \_\_\_\_\_.

Use purchase orders, checks drawn on U.S. banks, cashier's checks, or international money orders. **Make payable to ERS-NASS.**

**Credit card orders:**     MasterCard     Visa    Total charges \$ \_\_\_\_\_

Credit card number: 

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Card expiration date: 

--	--	--	--

  
Month/Year

**For fastest service, call our toll-free order desk 1-800-999-6779, in the U.S. and Canada; other areas please call 301-725-7937**