

Cattle



**National
Agricultural
Statistics
Service**

**United States
Department of
Agriculture**

Washington, D.C.

Released July 23, 1993, by the Agricultural Statistics Board. Inventory estimates refer to July 1, 1993. Calf crop estimates are for the 1993 year. Number of operations and inventory estimates by size group are for the 1991 and 1992 calendar years.

July 1 Cattle Inventory Up 1 Percent

All **cattle and calves** in the United States as of July 1, 1993, totaled 110.6 million head, up 1 percent from July 1, 1992, and up 1 percent from the 109 million two years ago.

All **cows and heifers** that have calved, at 45.2 million, were up 2 percent from the previous two years.

- **Beef cows**, at 35.4 million, were 2 percent above July 1, 1992, and 3 percent above two years ago.
- **Milk cows**, at 9.80 million, were 1 percent below July 1, 1992, and 2 percent below 1991.

Other class estimates on July 1, 1993, and the changes from July 1 last year and two years ago, respectively, are as follows:

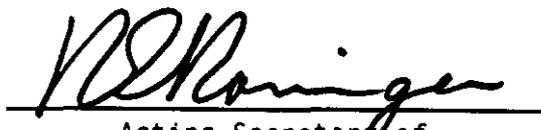
- **All heifers** 500 pounds and over, 17.2 million, up 1 percent and up 2 percent.
- **Beef replacement heifers**, 5.80 million, up 2 percent and up 9 percent.
- **Milk replacement heifers**, 4.10 million, down 2 percent from the previous two years.
- **Other heifers**, 7.30 million, up 3 percent but down 1 percent.
- **Steers** weighing 500 pounds and over, 15.2 million, up 1 percent from the previous two years.
- **Bulls** weighing 500 pounds and over, 2.20 million, unchanged from the previous two years.
- **Calves under 500 pounds**, 30.8 million, up 1 percent from both 1992 and 1991.

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

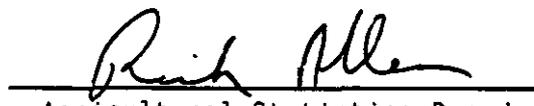
Calf Crop Up 2 Percent

The 1993 calf crop is expected to be 40.1 million, up 2 percent from 1992 and 3 percent above 1991. Calves born during the first half of the year are estimated at 29.0 million, up 1 percent from 1992 and 1991.

This report was approved on July 23, 1993, by the Acting Secretary of Agriculture and the National Agricultural Statistics Service's Agricultural Statistics Board.



Acting Secretary of
Agriculture
Richard E. Rominger



Agricultural Statistics Board
Chairperson
Rich Allen

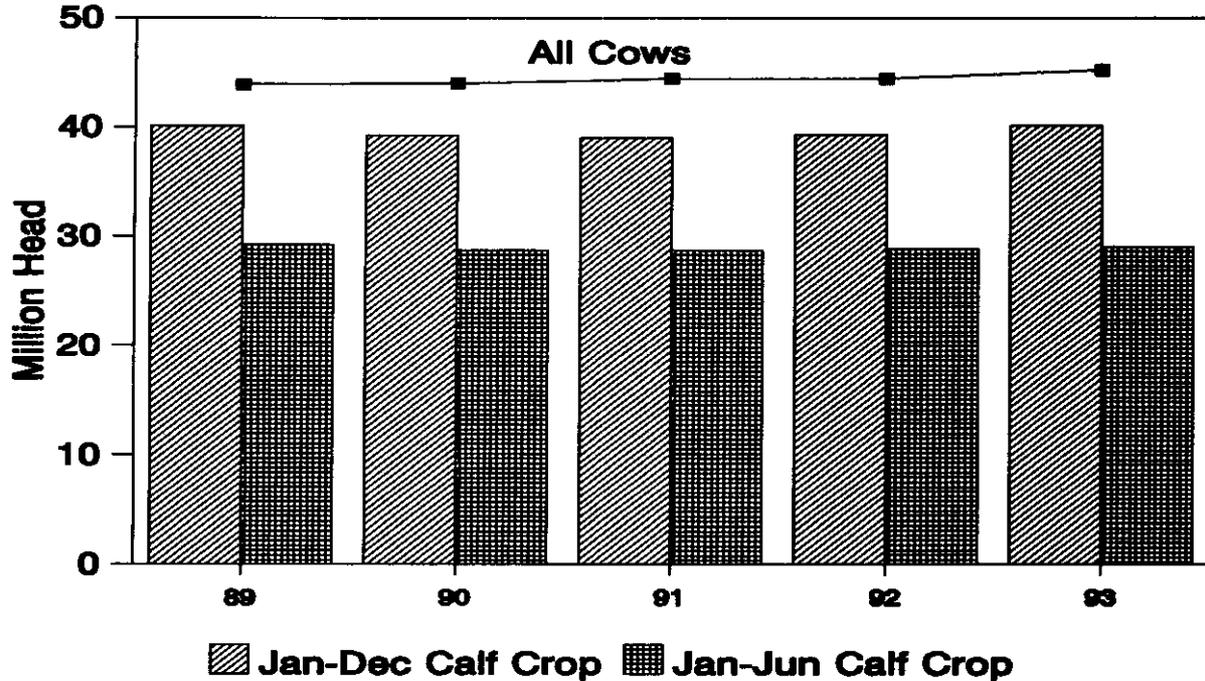
Cattle and Calves: Number by Class and Calf Crop, United States,
July 1, 1991-93

Class	1991	1992	1993	1993 as % 1992
	1,000 Head			Percent
Cattle and Calves	109.000	109.200	110.600	101
Cows and Heifers That Have Calved	44.400	44.400	45.200	102
Beef Cows	34.400	34.550	35.400	102
Milk Cows	10.000	9.850	9.800	99
Heifers 500 Pounds and Over	16.900	17.000	17.200	101
For Beef Cow Replacement	5.300	5.700	5.800	102
For Milk Cow Replacement	4.200	4.200	4.100	98
Other Heifers	7.400	7.100	7.300	103
Steers 500 Pounds and Over	15.100	15.100	15.200	101
Bulls 500 Pounds and Over	2.200	2.200	2.200	100
Calves Under 500 Pounds	30.400	30.500	30.800	101
Calf Crop	39.026	39.335	40.100	102

Calf Crop: Number and Percent of Total by Six Month Period,
United States, 1991-92 and Preliminary Calf Crop, 1993

Period	1991		1992		1993	
	Number	% of Total	Number	% of Total	Number	% of Total
	1,000 Hd	Pct	1,000 Hd	Pct	1,000 Hd	Pct
Jan 1 - Jun 30	28,700	73.5	28,800	73.2	29,000	72.3
Jul 1 - Dec 31	10,326	26.5	10,535	26.8	11,100	27.7
Total	39,026	100.0	39,335	100.0	40,100	100.0

All Cows and Calf Crop United States, July 1



Balance Sheet: Cattle and Calves, United States,
January 1 - June 30, 1991-93 1/

	1991	1992	1993
	Million Head		
January 1 Inventory	98.9	99.6	100.9
Calf Crop and Imports	29.9	29.9	30.3
Total Supply <u>2/</u>	128.7	129.4	131.2
Slaughter	17.0	17.1	17.1
Deaths and Exports	2.5	2.7	2.9
Total Disappearance <u>2/</u>	19.5	19.8	20.0
Residual <u>2/</u>	-0.2	-0.4	-0.6
July 1 Inventory	109.0	109.2	110.6

1/ Preliminary.

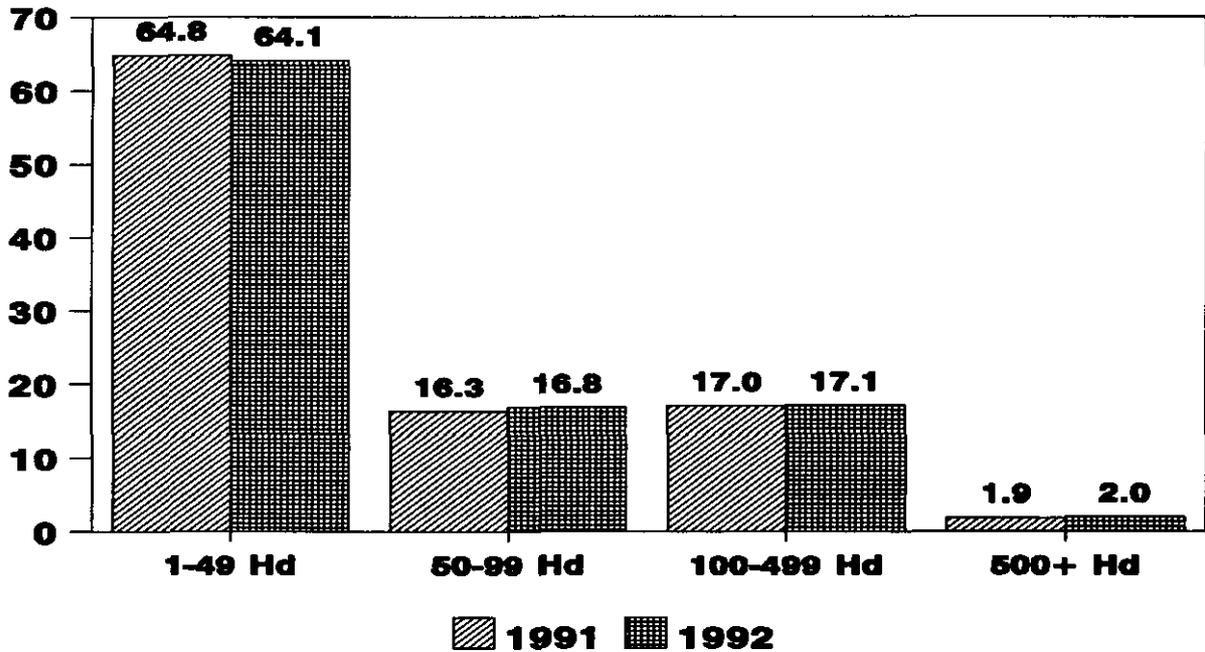
2/ Totals may not add due to rounding.

Cattle and Calves: Number of Operations, 1991-92, and Inventory,
January 1, 1992-93, by Selected States and United States ^{1/}

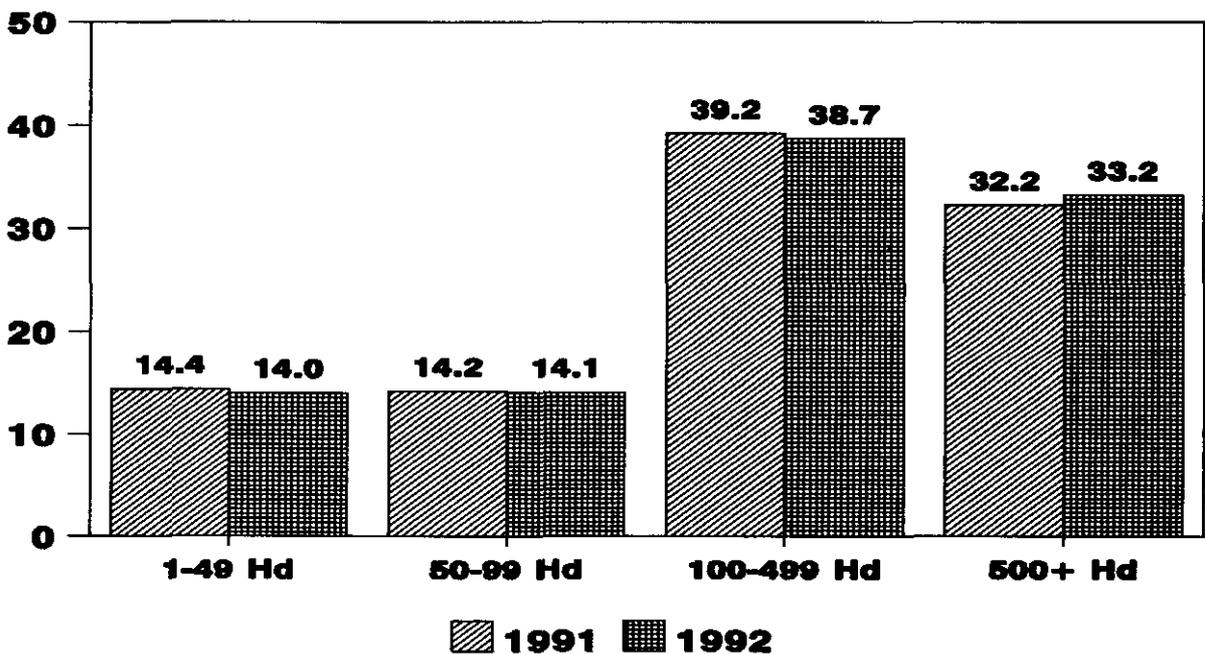
State	Operations With Cattle		January 1 Cattle Inventory	
	1991	1992	1992	1993
	----- Number -----		----- 1,000 Head -----	
AL	35,000	33,000	1,800	1,770
AR	34,000	33,000	1,710	1,710
CA	28,000	26,000	4,500	4,500
CO	14,500	14,000	2,900	2,850
FL	20,000	20,000	1,940	1,950
GA	30,000	29,000	1,470	1,500
ID	14,000	14,000	1,760	1,680
IL	33,000	32,000	1,980	2,000
IN	33,000	31,000	1,220	1,220
IA	45,000	45,000	4,400	4,400
KS	35,000	35,000	5,650	5,890
KY	55,000	52,000	2,580	2,600
MN	37,000	39,000	2,800	2,850
MS	29,000	29,000	1,350	1,415
MO	80,000	74,000	4,500	4,600
MT	13,400	12,800	2,500	2,450
NE	30,000	29,000	5,800	5,900
NM	9,000	9,000	1,400	1,370
NY	21,000	21,000	1,560	1,560
ND	16,300	16,300	1,800	1,800
OH	42,000	41,000	1,600	1,610
OK	62,000	64,000	5,400	5,400
PA	35,000	37,000	1,870	1,850
SD	23,000	22,000	3,550	3,750
TN	67,000	67,000	2,290	2,300
TX	135,000	140,000	13,600	14,300
WI	54,000	52,000	4,000	3,950
WY	5,400	5,800	1,290	1,350
28 Sts	1,035,600	1,022,900	87,220	88,525
22 Sts	211,870	209,470	12,339	12,367
US	1,247,470	1,232,370	99,559	100,892

^{1/} 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, 1991-92



U.S. Cattle Inventory Percent by Size Group, 1991-92



Cattle and Calves: Percent of Operations by Size Group,
Selected States, and United States, 1991-92 1/

State	Operations Having							
	1-49 Head		50-99 Head		100-499 Head		500+ Head	
	1991	1992	1991	1992	1991	1992	1991	1992
Percent								
AL	71.0	71.0	17.0	17.0	11.2	11.1	0.8	0.9
AR	68.0	67.0	19.0	19.4	13.0	13.0	<u>2/</u>	0.6
CA	70.0	69.0	7.3	7.3	14.5	14.9	8.2	8.8
CO	47.0	47.0	18.0	16.0	28.0	29.0	7.0	8.0
FL	77.0	75.0	9.5	11.0	10.5	11.0	3.0	3.0
GA	74.0	73.0	14.7	14.4	10.7	12.0	0.6	0.6
ID	60.0	59.0	14.0	14.5	21.4	21.5	4.6	5.0
IL	68.0	68.0	18.0	18.2	13.4	13.0	0.6	0.8
IN	78.0	77.0	12.5	13.5	9.5	9.5	<u>2/</u>	<u>2/</u>
IA	42.0	44.5	24.8	24.3	31.0	29.0	2.2	2.2
KS	44.0	47.0	23.0	21.0	29.3	27.4	3.7	4.6
KY	73.0	70.0	16.0	18.0	10.5	11.5	0.5	0.5
MN	54.0	46.0	23.0	31.0	22.5	22.5	0.5	0.5
MS	76.0	73.0	12.0	14.0	11.0	12.0	1.0	1.0
MO	66.0	64.0	17.0	19.0	16.2	16.1	0.8	0.9
MT	34.0	34.0	19.0	16.0	38.0	41.0	9.0	9.0
NE	36.0	36.0	22.0	22.0	35.0	34.8	7.0	7.2
NM	56.0	53.0	15.0	15.0	22.0	24.0	7.0	8.0
NY	52.0	52.0	22.2	22.1	25.0	25.0	0.8	0.9
ND	34.5	33.0	22.0	23.3	40.5	40.5	3.0	3.2
OH	80.0	79.0	12.0	13.0	7.5	7.3	0.5	0.7
OK	63.0	64.0	17.4	17.5	17.4	16.5	2.2	2.0
PA	66.0	65.0	20.5	21.0	13.5	14.0	<u>2/</u>	<u>2/</u>
SD	31.0	29.0	21.0	20.0	42.0	44.0	6.0	7.0
TN	82.0	81.0	11.3	11.7	6.7	7.3	<u>2/</u>	<u>2/</u>
TX	65.0	67.0	15.0	14.5	17.5	16.0	2.5	2.5
WI	43.0	42.0	30.7	29.0	26.3	28.5	<u>2/</u>	0.5
WY	41.0	45.0	15.0	12.0	31.0	31.0	13.0	12.0
28 Sts:	62.4	61.7	17.4	17.9	18.1	18.2	2.1	2.2
22 Sts:	76.6	75.7	10.9	11.6	11.3	11.5	1.2	1.2
US	64.8	64.1	16.3	16.8	17.0	17.1	1.9	2.0

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 Group,
Selected States, and United States, 1991-92 ^{1/}

State	Inventory on Operations Having							
	1-49 Head		50-99 Head		100-499 Head		500+ Head	
	1991	1992	1991	1992	1991	1992	1991	1992
Percent								
AL	26.0	27.0	23.0	21.0	38.0	38.0	13.0	14.0
AR	23.2	23.0	26.0	26.0	42.0	43.0	8.8	8.0
CA	4.4	3.8	3.1	2.9	20.5	19.3	72.0	74.0
CO	4.0	4.0	6.0	5.0	30.0	28.0	60.0	63.0
FL	12.0	11.0	6.7	7.0	23.3	24.0	58.0	58.0
GA	29.5	28.0	20.0	18.0	40.0	43.0	10.5	11.0
ID	6.0	6.0	7.5	7.0	36.0	37.0	50.5	50.0
IL	25.0	23.0	24.0	23.0	41.0	42.0	10.0	12.0
IN	33.0	31.0	21.4	22.8	37.0	38.0	8.6	8.2
IA	8.5	10.0	16.0	17.0	50.5	50.0	25.0	23.0
KS	6.0	7.0	10.0	8.0	34.0	31.0	50.0	54.0
KY	30.0	28.0	24.0	25.0	40.0	40.5	6.0	6.5
MN	17.0	13.5	24.0	29.0	52.5	51.0	6.5	6.5
MS	28.0	25.0	16.0	18.0	38.0	39.0	18.0	18.0
MO	21.0	20.0	21.0	22.0	48.0	47.0	10.0	11.0
MT	4.0	4.0	7.0	6.0	40.0	42.0	49.0	48.0
NE	4.0	4.0	8.0	7.5	34.0	33.5	54.0	55.0
NM	4.0	4.5	5.0	5.0	26.0	25.5	65.0	65.0
NY	11.0	12.0	21.5	21.5	58.0	56.0	9.5	10.5
ND	6.0	6.0	14.0	14.0	63.0	62.0	17.0	18.0
OH	32.0	30.0	21.0	22.0	38.0	36.0	9.0	12.0
OK	15.5	15.5	13.5	13.5	39.0	40.0	32.0	31.0
PA	22.2	21.6	29.5	29.0	44.0	45.0	4.3	4.4
SD	4.9	4.5	9.1	8.0	53.0	54.0	33.0	33.5
TN	39.0	37.0	22.8	22.3	33.0	35.0	5.2	5.7
TX	14.0	14.0	10.0	10.0	34.0	31.0	42.0	45.0
WI	11.8	9.7	28.0	26.0	56.0	59.0	4.2	5.3
WY	2.7	3.6	4.3	3.4	32.0	33.0	61.0	60.0
28 Sts:	13.8	13.4	14.3	14.1	39.3	38.8	32.6	33.7
22 Sts:	18.6	18.6	13.4	14.0	38.5	38.4	29.5	29.0
US	14.4	14.0	14.2	14.1	39.2	38.7	32.2	33.2

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

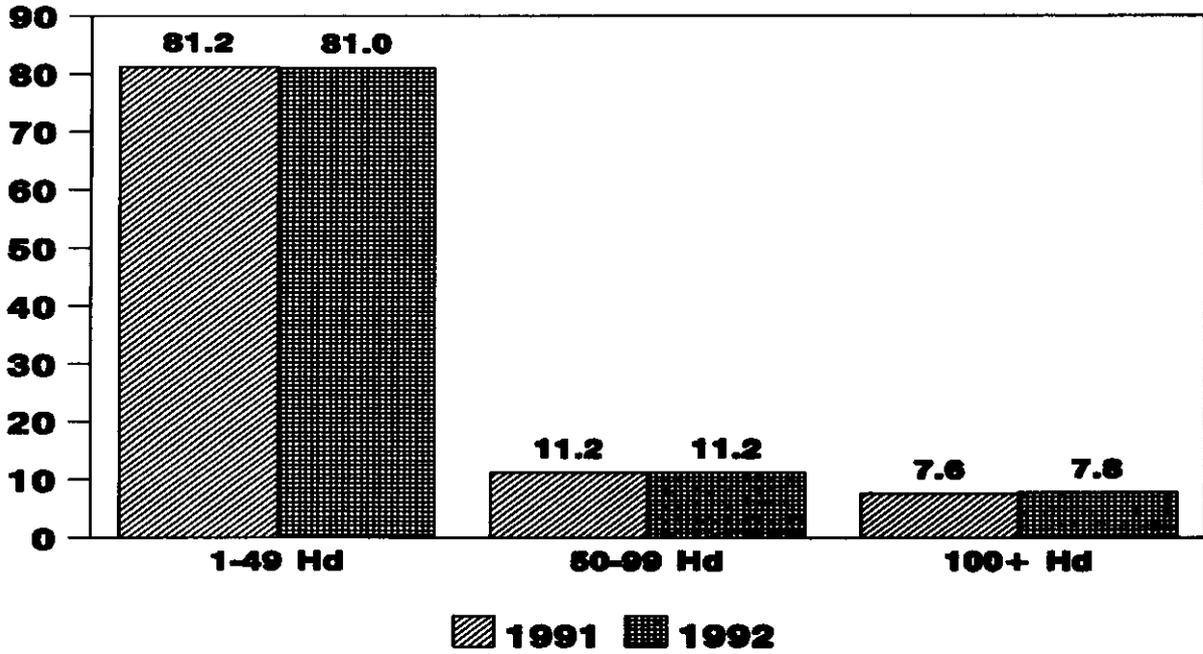
Beef Cows: Number of Operations, 1991-92, and Inventory,
January 1, 1992-93, by Selected States and United States 1/

State	: Operations With Beef Cows <u>2/</u> :		: January 1 Beef Cow Inventory	
	: 1991	: 1992	: 1992	: 1993
	: ----- Number -----		: ----- 1,000 Head -----	
AL	34,000	32,000	867	870
AR	29,000	28,000	872	857
CA	17,000	15,000	850	820
CO	10,500	10,000	823	800
FL	18,000	18,000	1,076	1,070
GA	27,000	26,000	685	708
ID	8,000	8,000	552	510
IL	22,000	23,000	571	584
IN	19,000	19,000	365	357
IA	29,000	29,000	1,147	1,110
KS	29,000	29,000	1,350	1,350
KY	45,000	44,000	1,110	1,115
MN	16,000	16,000	375	410
MS	27,000	27,000	700	738
MO	65,000	61,000	2,050	2,070
MT	11,900	11,700	1,436	1,460
NE	23,000	23,000	1,750	1,783
NM	7,000	7,000	539	557
NY	7,600	8,000	70	70
ND	14,500	14,500	880	885
OH	23,000	20,000	370	355
OK	51,000	53,000	1,921	1,895
PA	14,000	15,000	207	201
SD	18,500	18,000	1,508	1,542
TN	57,000	58,000	975	980
TX	119,000	125,000	5,475	5,570
WI	10,000	9,600	175	195
WY	4,800	4,900	691	723
28 Sts	756,800	752,700	29,390	29,585
22 Sts	156,820	154,930	4,385	4,416
US	913,620	907,630	33,775	34,001

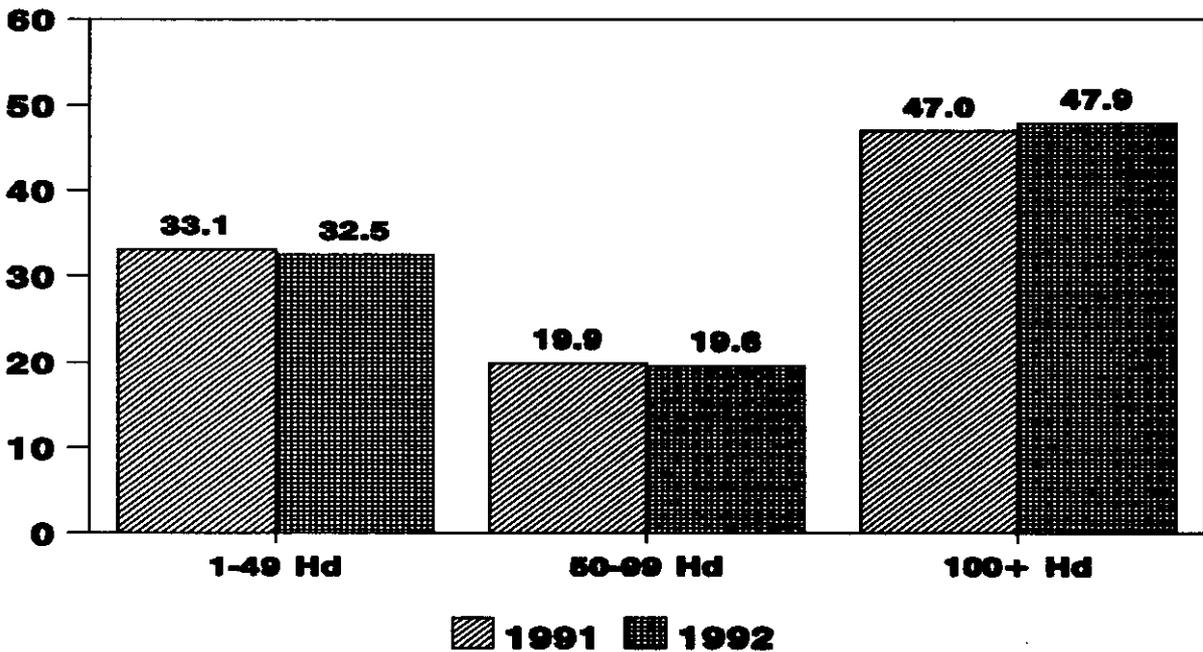
1/ An operation is any place having one or more beef cows on hand at any time during the year.

2/ Included in operations with cattle.

U.S. Beef Cow Operations Percent by Size Group, 1991-92



U.S. Beef Cow Inventory Percent by Size Group, 1991-92



Beef Cows: Percent of Operations by Size Group, Selected States
and United States, 1991-92 ^{1/}

State	Operations Having					
	1-49 Head		50-99 Head		100+ Head	
	1991	1992	1991	1992	1991	1992
Percent						
AL	85.0	85.0	10.3	10.0	4.7	5.0
AR	76.0	76.0	19.0	18.6	5.0	5.4
CA	79.0	78.0	8.6	8.7	12.4	13.3
CO	59.0	57.0	16.0	16.0	25.0	27.0
FL	80.0	79.0	9.0	9.5	11.0	11.5
GA	87.5	87.0	9.2	9.2	3.3	3.8
ID	66.0	67.5	15.0	13.5	19.0	19.0
IL	91.0	91.0	6.8	7.1	2.2	1.9
IN	94.0	93.5	4.5	5.0	1.5	1.5
IA	74.0	75.0	18.8	17.8	7.2	7.2
KS	66.0	68.5	21.0	19.0	13.0	12.5
KY	88.0	87.0	9.0	9.8	3.0	3.2
MN	87.0	84.5	10.5	12.4	2.5	3.1
MS	87.0	87.0	9.5	9.3	3.5	3.7
MO	83.0	82.0	12.0	12.3	5.0	5.7
MT	40.0	40.0	24.0	21.0	36.0	39.0
NE	58.0	57.5	20.0	20.0	22.0	22.5
NM	65.0	64.0	16.0	16.0	19.0	20.0
NY	98.0	98.0	1.3	1.5	0.7	0.5
ND	54.0	52.0	26.0	27.0	20.0	21.0
OH	96.0	96.0	3.0	3.0	1.0	1.0
OK	77.0	77.0	15.0	15.0	8.0	8.0
PA	97.0	97.0	2.2	2.2	0.8	0.8
SD	52.0	50.0	22.0	23.0	26.0	27.0
TN	93.0	91.5	5.4	6.4	1.6	2.1
TX	78.0	79.5	12.5	11.3	9.5	9.2
WI	94.0	93.0	3.8	4.5	2.2	2.5
WY	42.0	48.0	15.0	12.0	43.0	40.0
28 Sts	79.7	79.6	12.1	12.0	8.2	8.4
22 Sts	88.8	87.9	6.6	7.5	4.6	4.6
US	81.2	81.0	11.2	11.2	7.6	7.8

^{1/} 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 Group, Selected States,
and United States, 1991-92 ^{1/}

State	Inventory on Operations Having					
	1-49 Head		50-99 Head		100+ Head	
	1991	1992	1991	1992	1991	1992
	Percent					
AL	43.0	43.0	25.0	23.0	32.0	34.0
AR	41.0	42.0	34.0	33.0	25.0	25.0
CA	16.0	14.5	12.0	10.5	72.0	75.0
CO	13.0	12.0	13.0	12.0	74.0	76.0
FL	16.5	16.0	9.5	9.0	74.0	75.0
GA	53.5	52.0	24.5	23.0	22.0	25.0
ID	13.0	14.0	14.0	14.0	73.0	72.0
IL	66.0	67.0	20.0	21.0	14.0	12.0
IN	70.0	67.0	13.0	16.0	17.0	17.0
IA	39.0	40.0	32.0	30.0	29.0	30.0
KS	26.0	28.0	27.0	26.0	47.0	46.0
KY	56.0	55.0	24.0	25.0	20.0	20.0
MN	56.0	50.0	29.0	31.0	15.0	19.0
MS	46.0	46.0	26.0	23.0	28.0	31.0
MO	47.0	44.0	25.0	25.0	28.0	31.0
MT	6.0	7.0	14.0	12.0	80.0	81.0
NE	17.0	16.5	17.0	16.5	66.0	67.0
NM	12.0	12.0	12.0	12.0	76.0	76.0
NY	80.0	81.0	10.0	11.0	10.0	8.0
ND	19.0	18.0	27.0	27.0	54.0	55.0
OH	73.0	75.0	16.0	14.0	11.0	11.0
OK	34.0	34.0	26.0	27.0	40.0	39.0
PA	79.0	79.0	10.5	10.5	10.5	10.5
SD	15.0	14.0	18.0	19.0	67.0	67.0
TN	66.0	58.0	20.0	23.0	14.0	19.0
TX	30.0	30.0	20.0	18.5	50.0	51.5
WI	63.0	60.0	15.0	17.0	22.0	23.0
WY	5.0	5.0	7.0	6.0	88.0	89.0
28 Sts	32.5	31.9	20.6	20.1	46.9	48.0
22 Sts	37.1	36.6	15.0	16.1	47.9	47.3
US	33.1	32.5	19.9	19.6	47.0	47.9

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

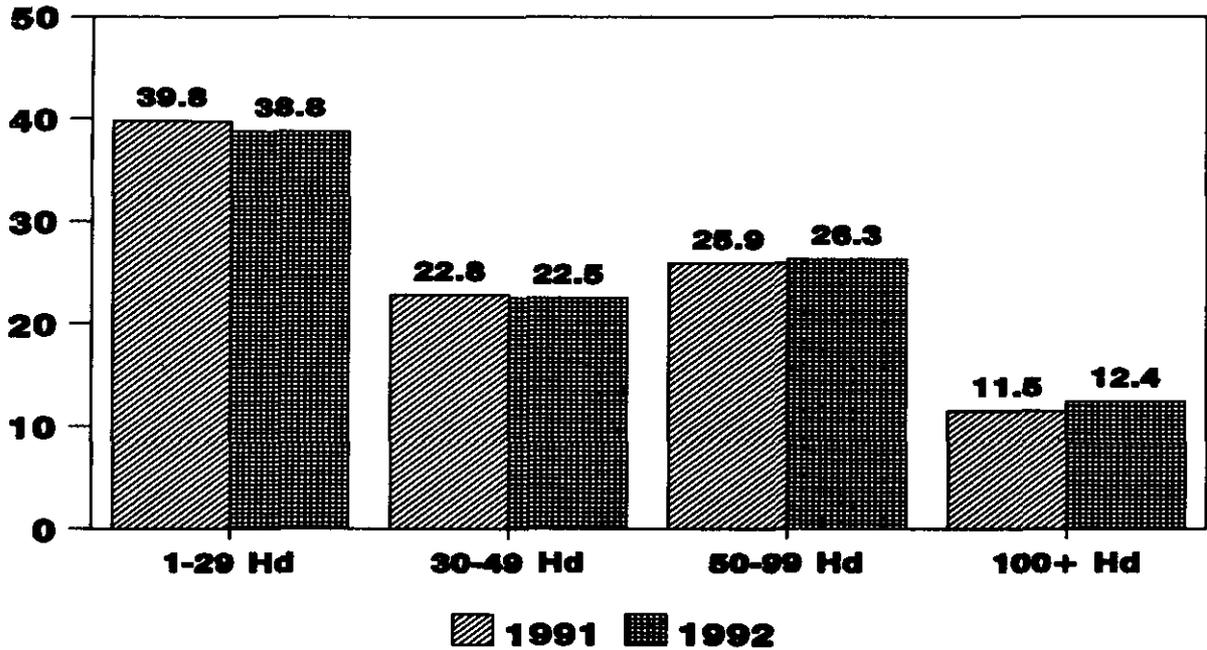
Milk Cows: Number of Operations, 1991-92, and Inventory,
January 1, 1992-93, by Selected States and United States 1/

State	Operations With Milk Cows <u>2/</u> :		January 1 Milk Cow Inventory	
	1991	1992	1992	1993
	----- Number -----		----- 1,000 Head -----	
CA	4,200	4,200	1,160	1,170
FL	1,000	1,000	179	180
ID	1,900	1,900	178	185
IL	3,000	3,000	189	186
IN	4,700	4,500	145	143
IA	7,000	6,600	303	305
KY	5,500	4,800	190	185
MD	1,600	1,400	102	100
MI	6,000	5,500	338	340
MN	15,000	14,000	675	660
MO	7,500	7,500	220	230
NY	12,200	11,800	755	755
NC	1,500	1,200	98	96
OH	8,900	8,600	330	315
PA	14,500	14,000	673	659
TN	4,000	3,400	195	190
TX	5,300	5,300	375	380
VT	2,600	2,500	163	167
VA	2,800	2,500	140	135
WA	3,000	3,000	238	251
WI	32,000	31,000	1,675	1,625
21 Sts	144,200	137,700	8,321	8,257
29 Sts	37,070	33,860	1,592	1,587
US	181,270	171,560	9,913	9,844

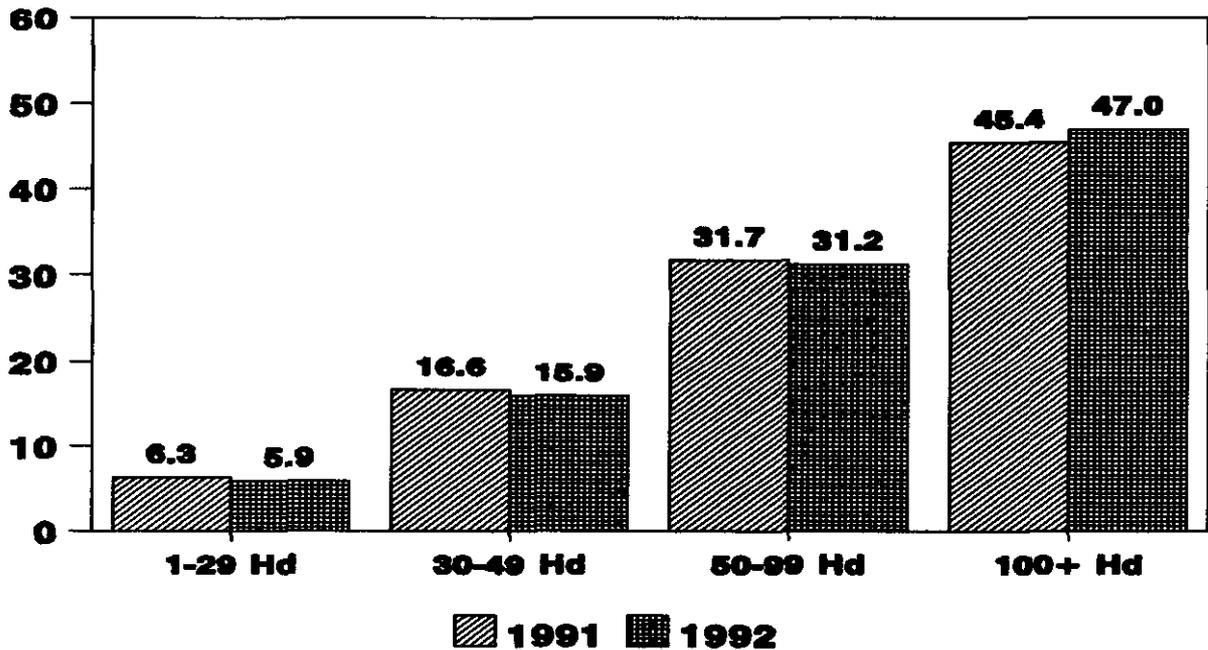
1/ An operation is any place having one or more milk cows on hand at any time during the year.

2/ Included in operations with cattle.

U.S. Milk Cow Operations Percent by Size Group, 1991-92



U.S. Milk Cow Inventory Percent by Size Group, 1991-92



Milk Cows: Percent of Operations by Size Group, Selected States, and United States, 1991-92 ^{1/}

State	Operations Having							
	1-29 Head		30-49 Head		50-99 Head		100+ Head	
	1991	1992	1991	1992	1991	1992	1991	1992
Percent								
CA	38.1	38.1	2.8	2.8	6.7	6.7	52.4	52.4
FL	67.0	68.0	^{2/}	^{2/}	^{2/}	^{2/}	33.0	32.0
ID	42.1	41.6	14.2	14.7	21.6	20.0	22.1	23.7
IL	23.3	23.0	23.3	23.0	40.0	40.0	13.4	14.0
IN	58.3	60.0	16.1	15.6	19.6	17.7	6.0	6.7
IA	34.3	33.3	28.6	30.3	30.0	28.8	7.1	7.6
KY	47.3	49.0	25.4	20.8	20.0	21.9	7.3	8.3
MD	26.2	25.0	18.8	17.9	35.0	35.0	20.0	22.1
MI	28.3	27.3	26.7	25.4	28.3	29.1	16.7	18.2
MN	25.3	25.0	40.0	39.3	30.0	30.0	4.7	5.7
MO	56.0	54.7	14.7	16.0	24.0	24.0	5.3	5.3
NY	20.5	22.0	23.8	22.0	41.0	40.0	14.7	16.0
NC	47.3	35.8	8.0	7.5	18.0	22.5	26.7	34.2
OH	49.4	47.7	20.2	22.1	23.6	24.4	6.8	5.8
PA	29.6	27.8	33.1	32.9	29.0	30.7	8.3	8.6
TN	55.0	50.0	11.5	12.9	23.0	22.1	10.5	15.0
TX	62.5	60.0	4.0	3.5	10.9	10.2	22.6	26.3
VT	15.4	12.0	23.1	24.0	42.3	44.0	19.2	20.0
VA	53.2	49.0	8.0	8.4	21.3	23.0	17.5	19.6
WA	55.0	56.7	4.0	3.3	18.0	15.0	23.0	25.0
WI	23.4	22.9	36.3	35.2	33.1	34.2	7.2	7.7
21 Sts:	34.8	33.9	25.7	25.2	28.0	28.4	11.5	12.5
29 Sts:	59.0	58.5	11.6	11.3	17.5	18.0	11.9	12.2
US	39.8	38.8	22.8	22.5	25.9	26.3	11.5	12.4

^{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 Group, Selected States, and United States, 1991-92 1/

State	Inventory on Operations Having							
	1-29 Head		30-49 Head		50-99 Head		100+ Head	
	1991	1992	1991	1992	1991	1992	1991	1992
Percent								
CA	0.2	0.2	0.4	0.4	1.6	1.7	97.8	97.7
FL	0.7	0.6	<u>2/</u>	<u>2/</u>	<u>2/</u>	<u>2/</u>	99.3	99.4
ID	3.9	2.2	6.2	6.5	16.3	13.5	73.6	77.8
IL	3.2	3.8	16.9	16.1	48.7	48.9	31.2	31.2
IN	15.9	16.0	17.2	17.5	40.7	35.0	26.2	31.5
IA	12.5	11.2	23.1	25.9	42.9	41.3	21.5	21.6
KY	8.9	8.9	25.3	21.6	36.8	38.4	29.0	31.1
MD	4.8	5.0	11.4	11.0	36.2	34.0	47.6	50.0
MI	5.3	4.7	16.3	14.1	34.0	33.8	44.4	47.4
MN	9.9	9.5	35.3	32.9	40.7	40.9	14.1	16.7
MO	9.1	8.7	18.2	19.1	49.1	48.3	23.6	23.9
NY	3.3	3.7	15.0	13.2	42.4	41.1	39.3	42.0
NC	1.7	0.7	5.4	3.4	20.4	19.8	72.5	76.1
OH	15.2	14.3	17.6	19.1	41.5	42.2	25.7	24.4
PA	7.6	7.1	26.7	25.4	41.2	42.2	24.5	25.3
TN	10.3	7.9	9.2	10.0	32.8	29.5	47.7	52.6
TX	1.3	1.1	2.1	1.8	11.0	10.8	85.6	86.3
VT	1.8	1.8	12.3	12.0	42.9	41.9	43.0	44.3
VA	5.4	3.3	6.0	5.6	30.0	29.6	58.6	61.5
WA	2.6	2.0	1.6	1.6	14.7	11.9	81.1	84.5
WI	8.4	7.7	29.4	28.7	42.3	42.5	19.9	21.1
21 Sts:	6.2	5.7	17.3	16.5	31.8	31.3	44.7	46.5
29 Sts:	7.0	6.8	12.5	12.4	31.0	31.1	49.5	49.7
US	6.3	5.9	16.6	15.9	31.7	31.2	45.4	47.0

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 estimates. Survey procedures ensured that all cattle producers, regardless of size, had a chance to be included in the survey. Data were collected during the first half of June from about 50,000 small and medium sized operations. These operators were contacted by face-to-face personal interviews. About 11,000 large producers and feedlots were contacted during the first half of July by mail, telephone, and face-to-face personal interviews. Operators were asked to report inventories as of the first of the month and calf crop for the entire year of 1993.

Estimating Procedures: These cattle estimates were prepared by the Agricultural Statistics Board after reviewing National and State indications and analysis. National and State survey data were reviewed for reasonableness with each other and with estimates from the previous year using a balance sheet. The balance sheet begins with the previous inventory estimate, adds to it estimates of births and imports for the first 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 livestock slaughter and additional foreign trade and survey 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 latest 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 110.6 million head by more than 0.5 percent, or about 553,000 head. Chances are 9 out of 10 that the difference will not exceed 1.0 percent, or about 1,106,000 head (the 90 percent confidence level).

The table below also shows a 15 year record of the range of differences between first and latest estimates for selected items. Using estimates of all cattle and calves as an example, changes between the first inventory estimate and the latest estimate during the past 15 years have averaged 254,000 head, ranging from 0 to 1,500,000 head. During this period the initial inventory estimate has been below the latest estimate 3 times, above the latest estimate 7 times, and unchanged 5 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	90% Confidence Level			Difference Between First and Latest Estimates			Number of Years	
	Mean Square Error	Percent	Head	Average	Smallest	Largest	First Above Latest	First Below Latest	
All Cattle	0.5	1.0	1,106	-254	0	-1,500	7	3	
All Cows	0.5	0.9	407	-72	0	-450	8	3	
Calf Crop	1.6	2.9	1,163	-355	-50	1,082	12	3	

1/ Based on July 1 data for the past 15 years.

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