

Cattle



National
Agricultural
Statistics
Service

United States
Department of
Agriculture

Washington, D.C.

Released July 29, 1991, by the Agricultural Statistics Board. Inventory estimates refer to July 1. Calf Crop estimates are for the 1991 year. Number of operations and Inventory estimates by size group are for the 1989 and 1990 calendar years.

July 1 Cattle Inventory Up 2 Percent

All cattle and calves in the United States as of July 1, 1991, totaled 110 million head, up 2 percent from the July 1 level of both a year ago and two years ago. This is the largest July 1 inventory since July 1 1986.

Class estimates and the percentage changes from July 1 last year and two years ago, respectively, are as follows:

- All cows and heifers that have calved, 44.5 million, up 1 percent from both years. Beef cows, 34.5 million, up 2 percent from both years. Milk cows, 10.0 million, down 1 percent from both years.
- All heifers 500 pounds and over, 17.0 million, up 3 percent and up 2 percent. Beef replacement heifers, 5.30 million, up 4 percent and up 8 percent. Milk replacement heifers, 4.20 million, unchanged and down 7 percent. Other heifers, 7.50 million, up 4 percent from both years.
- Steers weighing 500 pounds and over, 15.2 million, up 4 percent and 6 percent.
- Bulls weighing 500 pounds and over, 2.20 million, unchanged from both years.
- Calves under 500 pounds, 30.9 million, up 1 percent from both years.

Calf Crop Up 1 Percent

The 1991 calf crop is expected to be 40.1 million head, up 1 percent from 1990 and virtually unchanged from 1989. Calves born during the first half of the year are estimated at 29.3 million, up slightly from both 1990 and 1989.

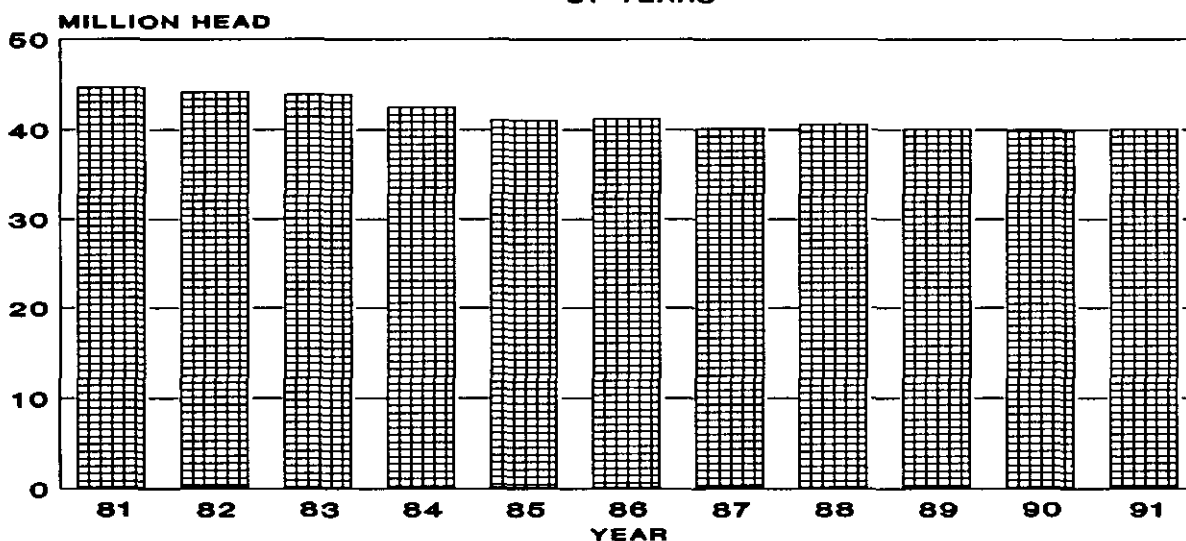
For information, call Bob Cole (202) 447-3121. Office hours are 8:00 a.m. to 4:30 p.m. ET.

MtAn 2 (7-91)

Cattle and Calves: Number by Class and Calf Crop, United States,
July 1, 1989-91

| Class | 1989 | 1990 | 1991 | 1991 as % 1990 |
|------------------------------------|---------|------------|---------|----------------|
| | | 1,000 Head | | Percent |
| Cattle and Calves | 107,700 | 107,900 | 109,800 | 102 |
| Cows and Heifers That Have Calved: | 43,900 | 44,000 | 44,500 | 101 |
| Beef Cows | 33,800 | 33,900 | 34,500 | 102 |
| Milk Cows | 10,100 | 10,100 | 10,000 | 99 |
| Heifers 500 Pounds and Over | 16,600 | 16,500 | 17,000 | 103 |
| For Beef Cow Replacement | 4,900 | 5,100 | 5,300 | 104 |
| For Milk Cow Replacement | 4,500 | 4,200 | 4,200 | 100 |
| Other Heifers | 7,200 | 7,200 | 7,500 | 104 |
| Steers 500 Pounds and Over | 14,400 | 14,600 | 15,200 | 104 |
| Bulls 500 Pounds and Over | 2,200 | 2,200 | 2,200 | 100 |
| Calves Under 500 Pounds | 30,600 | 30,600 | 30,900 | 101 |
| Calf Crop | 40,102 | 39,879 | 40,100 | 101 |

CALF CROP, UNITED STATES
BY YEARS



This report was approved on July 29, 1991, by the Acting Secretary of Agriculture and the National Agricultural Statistics Service's Agricultural Statistics Board.

Bruce L. Gardner

Acting Secretary of
Agriculture
Bruce L. Gardner

Rich Allen

Agricultural Statistics Board
Chairperson
Rich Allen

Calf Crop: Number and Percent of Total
by Six Month Period
United States, 1989-91

| Period | 1989 | | 1990 | | 1991 | |
|-----------------|-----------------|---------------|-----------------|---------------|-----------------|---------------|
| | Number (000) | % of Total | Number (000) | % of Total | Number (000) | % of Total |
| Jan 1 - Jun 30 | 29,200 | 72.8 | 29,200 | 73.2 | 29,300 | 73.1 |
| Jul 1 - Dec 31 | 10,902 | 27.2 | 10,679 | 26.8 | 10,800 | 26.9 |
| Total <u>1/</u> | 40,102 | 100.0 | 39,879 | 100.0 | 40,100 | 100.0 |

1/ Expected calf crop for 1991.

United States Balance Sheet
Cattle and Calves
January 1 - June 30 1/

| Item | 1989 | 1990 | 1991 |
|-------------------------------|--------------|-------|-------|
| | Million Head | | |
| January 1 Inventory | 98.1 | 98.2 | 99.4 |
| Calf Crop and Imports | 30.0 | 30.3 | 30.5 |
| Total Supply <u>2/</u> | 128.1 | 128.5 | 130.0 |
| Slaughter | 18.1 | 17.7 | 17.0 |
| Deaths and Exports | 2.6 | 2.5 | 2.5 |
| Total Disappearance <u>2/</u> | 20.7 | 20.2 | 19.5 |
| Residual <u>2/</u> | .3 | -.4 | -.7 |
| July 1 Inventory | 107.7 | 107.9 | 109.8 |

1/ Preliminary.

2/ Totals may not add due to rounding.

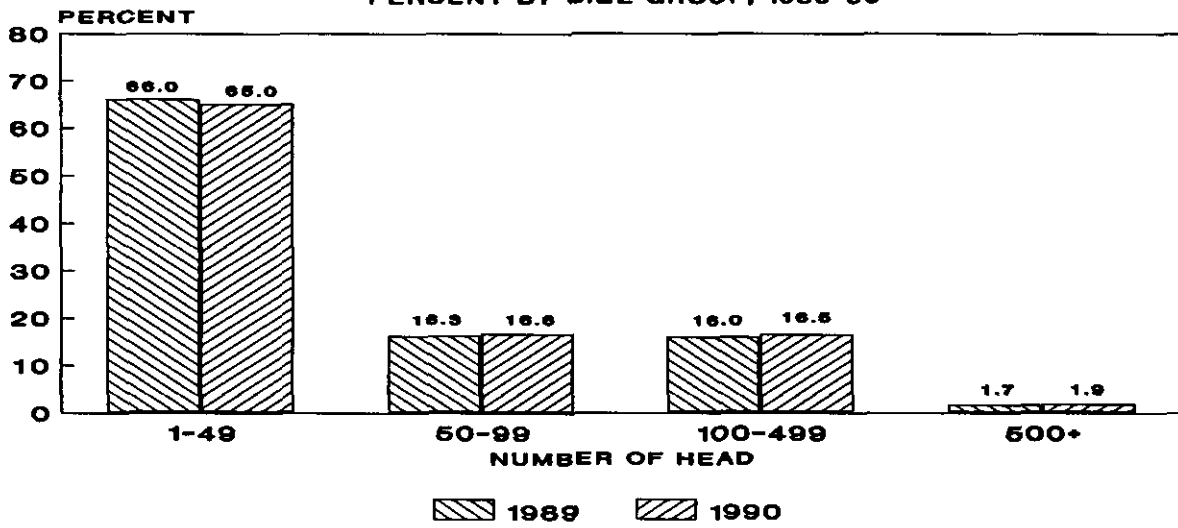
Number of Operations With Cattle 1989-90 ^{1/}, and Cattle
Inventory, January 1, 1990-91, Selected States

| State | Operations With Cattle | | January 1 Cattle Inventory | |
|--------|------------------------|-----------|----------------------------|--------|
| | 1989 | 1990 | 1990 | 1991 |
| | -----Number----- | | -----1,000 Head----- | |
| AL | 37,000 | 37,000 | 1,750 | 1,800 |
| AR | 34,000 | 34,000 | 1,700 | 1,690 |
| CA | 30,000 | 29,000 | 4,800 | 4,750 |
| CO | 15,000 | 15,000 | 2,900 | 2,800 |
| FL | 21,000 | 21,000 | 1,925 | 1,900 |
| GA | 32,000 | 30,000 | 1,400 | 1,420 |
| ID | 16,000 | 15,000 | 1,660 | 1,740 |
| IL | 34,000 | 33,000 | 1,950 | 2,000 |
| IN | 36,000 | 34,000 | 1,250 | 1,225 |
| IA | 52,000 | 49,000 | 4,500 | 4,750 |
| KS | 41,000 | 38,000 | 5,700 | 5,700 |
| KY | 59,000 | 57,000 | 2,420 | 2,500 |
| MN | 43,000 | 40,000 | 2,600 | 2,760 |
| MS | 29,000 | 27,000 | 1,370 | 1,290 |
| MO | 83,000 | 82,000 | 4,400 | 4,500 |
| MT | 14,700 | 14,000 | 2,300 | 2,400 |
| NE | 31,000 | 31,000 | 5,800 | 6,000 |
| NM | 9,000 | 9,000 | 1,360 | 1,340 |
| NY | 23,000 | 22,000 | 1,540 | 1,550 |
| ND | 16,300 | 16,300 | 1,700 | 1,700 |
| OH | 42,000 | 43,000 | 1,650 | 1,580 |
| OK | 61,000 | 62,000 | 5,250 | 5,550 |
| PA | 40,000 | 38,000 | 1,860 | 1,820 |
| SD | 23,000 | 23,000 | 3,380 | 3,400 |
| TN | 66,000 | 68,000 | 2,300 | 2,250 |
| TX | 142,000 | 136,000 | 13,200 | 13,400 |
| WI | 57,000 | 56,000 | 4,170 | 4,170 |
| WY | 5,900 | 5,900 | 1,220 | 1,190 |
| 28 Sts | 1,092,900 | 1,065,200 | 86,055 | 87,175 |
| 22 Sts | 230,400 | 223,410 | 12,107 | 12,261 |
| US | 1,323,300 | 1,288,610 | 98,162 | 99,436 |

^{1/} An operation is any place having one or more head of the species on hand at any time during the year.

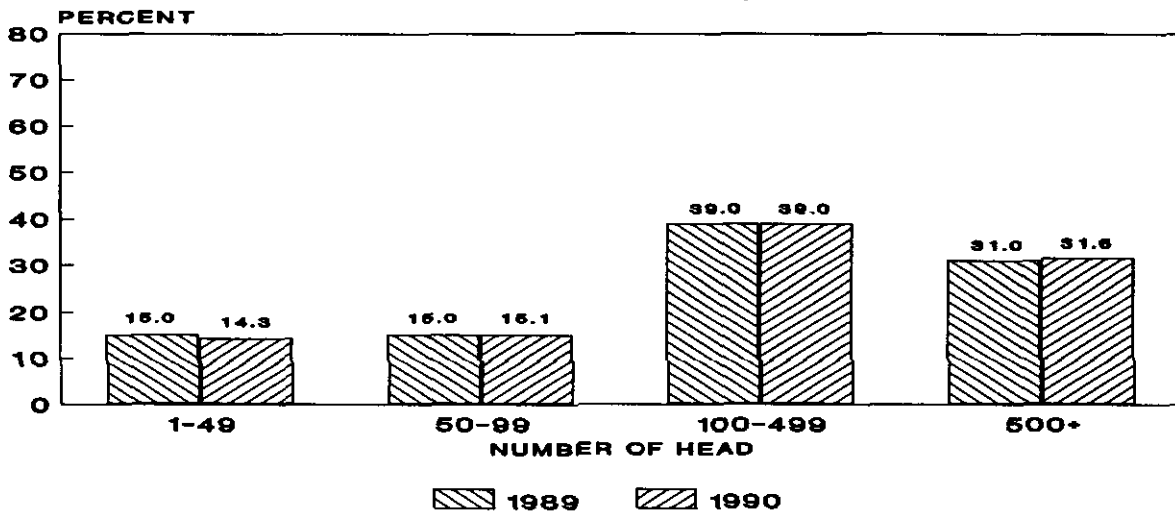
U.S. CATTLE OPERATIONS

PERCENT BY SIZE GROUP, 1989-90



U.S. CATTLE INVENTORY

PERCENT BY SIZE GROUP, 1989-90



Cattle and Calves: Percent of Operations by Size Groups, 1989-90
Selected States, Regions, and U.S. 1/

| State | Operations Having | | | | | | | |
|---------|-------------------|------|------------|------|--------------|------|-----------|-----------|
| | 1-49 Head | | 50-99 Head | | 100-499 Head | | 500+ Head | |
| | 1989 | 1990 | 1989 | 1990 | 1989 | 1990 | 1989 | 1990 |
| Percent | | | | | | | | |
| AL | 70.0 | 70.0 | 19.0 | 18.0 | 10.2 | 11.2 | 0.8 | 0.8 |
| AR | 67.6 | 67.7 | 19.0 | 19.1 | 13.4 | 13.2 | <u>2/</u> | <u>2/</u> |
| CA | 70.0 | 69.0 | 7.7 | 8.6 | 14.7 | 14.1 | 7.6 | 8.3 |
| CO | 45.3 | 46.7 | 18.0 | 17.3 | 30.0 | 29.3 | 6.7 | 6.7 |
| FL | 79.5 | 77.1 | 8.6 | 10.0 | 9.0 | 10.0 | 2.9 | 2.9 |
| GA | 76.7 | 76.7 | 13.0 | 13.0 | 9.7 | 9.7 | 0.6 | 0.6 |
| ID | 64.0 | 61.7 | 12.9 | 12.7 | 19.0 | 21.3 | 4.1 | 4.3 |
| IL | 69.0 | 66.0 | 17.3 | 19.0 | 13.0 | 14.0 | 0.7 | 1.0 |
| IN | 78.4 | 76.5 | 11.9 | 13.5 | 9.7 | 10.0 | <u>2/</u> | <u>2/</u> |
| IA | 47.0 | 43.0 | 22.4 | 25.5 | 29.0 | 29.5 | 1.6 | 2.0 |
| KS | 50.0 | 45.0 | 19.8 | 21.0 | 26.0 | 29.8 | 4.2 | 4.2 |
| KY | 75.0 | 74.0 | 15.4 | 15.6 | 9.6 | 10.4 | <u>2/</u> | <u>2/</u> |
| MN | 56.0 | 50.0 | 24.5 | 28.0 | 19.0 | 21.5 | 0.5 | 0.5 |
| MS | 74.0 | 74.0 | 13.9 | 14.0 | 11.0 | 10.9 | 1.1 | 1.1 |
| MO | 67.0 | 68.3 | 18.0 | 16.6 | 14.4 | 14.4 | 0.6 | 0.7 |
| MT | 46.0 | 34.5 | 13.8 | 23.0 | 33.0 | 34.0 | 7.2 | 8.5 |
| NE | 37.0 | 37.0 | 22.9 | 22.0 | 34.0 | 34.5 | 6.1 | 6.5 |
| NM | 51.3 | 57.0 | 21.0 | 13.0 | 21.0 | 22.0 | 6.7 | 8.0 |
| NY | 53.5 | 52.3 | 24.2 | 23.4 | 21.7 | 23.6 | 0.6 | 0.7 |
| ND | 34.0 | 35.0 | 22.0 | 23.3 | 42.0 | 39.8 | 2.0 | 1.9 |
| OH | 78.5 | 80.0 | 12.0 | 11.0 | 9.5 | 9.0 | <u>2/</u> | <u>2/</u> |
| OK | 63.0 | 63.0 | 17.0 | 17.5 | 17.9 | 17.4 | 2.1 | 2.1 |
| PA | 68.0 | 68.0 | 19.8 | 19.7 | 12.2 | 12.3 | <u>2/</u> | <u>2/</u> |
| SD | 30.0 | 31.0 | 23.0 | 22.0 | 42.2 | 42.0 | 4.8 | 5.0 |
| TN | 79.0 | 80.9 | 13.0 | 12.1 | 8.0 | 7.0 | <u>2/</u> | <u>2/</u> |
| TX | 69.0 | 66.0 | 15.0 | 15.3 | 13.6 | 16.2 | 2.4 | 2.5 |
| WI | 42.0 | 43.7 | 31.7 | 31.0 | 26.3 | 25.3 | <u>2/</u> | <u>2/</u> |
| WY | 48.0 | 41.0 | 10.0 | 12.0 | 32.0 | 34.0 | 10.0 | 13.0 |
| 28 Sts | 64.0 | 62.4 | 17.0 | 17.9 | 17.2 | 17.7 | 1.8 | 2.0 |
| 22 Sts | 77.0 | 77.5 | 11.7 | 10.5 | 10.0 | 10.8 | 1.3 | 1.2 |
| US | 66.0 | 65.0 | 16.3 | 16.6 | 16.0 | 16.5 | 1.7 | 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, 1989-90
Selected States, Regions, and U.S. 1/

| State | Inventory on Operations Having | | | | | | | |
|---------|--------------------------------|------|------------|------|--------------|------|-----------|------|
| | 1-49 Head | | 50-99 Head | | 100-499 Head | | 500+ Head | |
| | 1989 | 1990 | 1989 | 1990 | 1989 | 1990 | 1989 | 1990 |
| Percent | | | | | | | | |
| AL | 25.0 | 25.0 | 27.0 | 24.0 | 34.0 | 37.0 | 14.0 | 14.0 |
| AR | 24.4 | 23.0 | 25.0 | 26.1 | 42.0 | 42.6 | 8.6 | 8.3 |
| CA | 4.3 | 4.0 | 3.4 | 3.6 | 22.3 | 20.4 | 70.0 | 72.0 |
| CO | 3.1 | 3.6 | 6.2 | 6.2 | 31.0 | 31.8 | 59.7 | 58.4 |
| FL | 10.2 | 11.1 | 6.8 | 7.5 | 21.0 | 23.9 | 62.0 | 57.5 |
| GA | 28.0 | 32.4 | 20.0 | 18.6 | 41.0 | 38.0 | 11.0 | 11.0 |
| ID | 7.5 | 6.3 | 8.1 | 7.2 | 38.4 | 38.5 | 46.0 | 48.0 |
| IL | 24.0 | 23.5 | 21.0 | 22.0 | 44.0 | 43.0 | 11.0 | 11.5 |
| IN | 27.0 | 30.6 | 23.0 | 24.1 | 41.4 | 38.0 | 8.6 | 7.3 |
| IA | 11.0 | 8.5 | 18.0 | 17.5 | 54.0 | 51.0 | 17.0 | 23.0 |
| KS | 7.5 | 6.0 | 9.1 | 9.0 | 35.0 | 35.0 | 48.4 | 50.0 |
| KY | 32.0 | 32.0 | 26.0 | 24.0 | 37.3 | 39.2 | 4.7 | 4.8 |
| MN | 14.0 | 14.0 | 27.4 | 29.0 | 52.0 | 50.0 | 6.6 | 7.0 |
| MS | 22.0 | 23.0 | 18.0 | 18.0 | 41.0 | 40.0 | 19.0 | 19.0 |
| MO | 23.0 | 22.5 | 22.7 | 22.2 | 46.0 | 46.0 | 8.3 | 9.3 |
| MT | 4.8 | 4.0 | 6.2 | 9.0 | 44.0 | 41.0 | 45.0 | 46.0 |
| NE | 4.5 | 4.3 | 8.5 | 8.0 | 35.0 | 34.7 | 52.0 | 53.0 |
| NM | 5.0 | 5.0 | 9.0 | 6.0 | 28.0 | 26.0 | 58.0 | 63.0 |
| NY | 13.0 | 12.0 | 26.0 | 23.5 | 54.0 | 56.0 | 7.0 | 8.5 |
| ND | 7.0 | 7.5 | 16.0 | 16.0 | 64.0 | 65.0 | 13.0 | 11.5 |
| OH | 33.0 | 33.0 | 20.0 | 19.5 | 41.0 | 40.5 | 6.0 | 7.0 |
| OK | 15.0 | 14.6 | 15.0 | 14.0 | 40.0 | 38.6 | 30.0 | 32.8 |
| PA | 23.0 | 22.0 | 30.0 | 30.0 | 43.3 | 43.8 | 3.7 | 4.2 |
| SD | 4.8 | 4.8 | 10.2 | 10.2 | 55.0 | 54.0 | 30.0 | 31.0 |
| TN | 35.0 | 39.6 | 25.7 | 23.6 | 35.0 | 32.4 | 4.3 | 4.4 |
| TX | 15.0 | 13.6 | 11.0 | 10.7 | 30.0 | 32.7 | 44.0 | 43.0 |
| WI | 11.0 | 13.5 | 30.6 | 29.0 | 55.0 | 53.7 | 3.4 | 3.8 |
| WY | 3.7 | 2.9 | 3.3 | 3.8 | 36.0 | 33.6 | 57.0 | 59.7 |
| 28 Sts | 14.0 | 13.7 | 16.0 | 15.4 | 39.0 | 39.1 | 31.0 | 31.8 |
| 22 Sts | 18.0 | 18.9 | 16.0 | 13.3 | 37.0 | 38.1 | 29.0 | 29.7 |
| US | 15.0 | 14.3 | 15.0 | 15.1 | 39.0 | 39.0 | 31.0 | 31.6 |

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

Number of Operations With Beef Cows 1989-90 1/, and Beef Cow
Inventory, January 1, 1990-91, Selected States

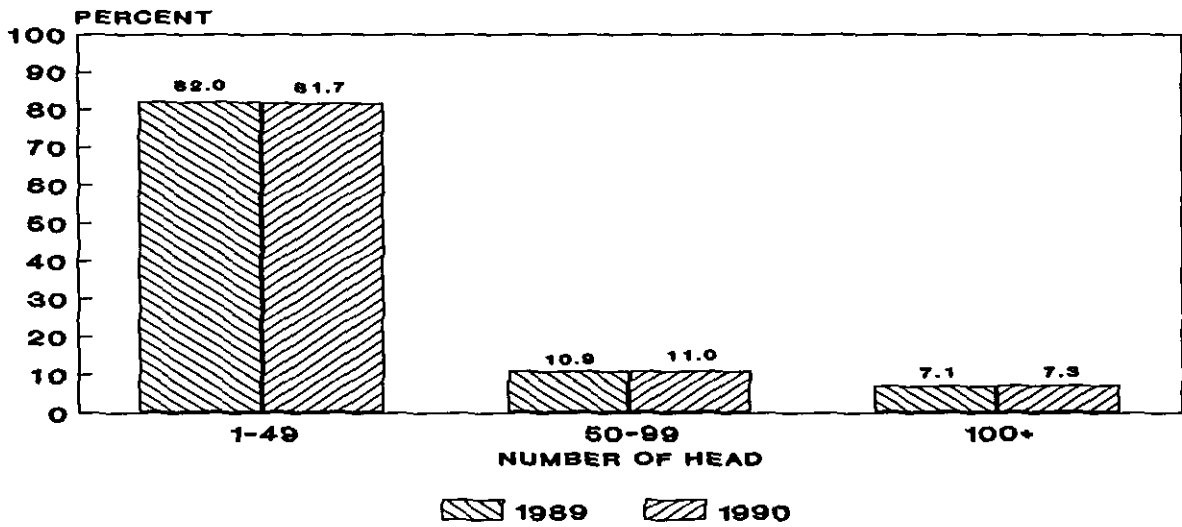
| State | : Operations With Beef Cows <u>2/</u> : | | January 1 Beef Cow Inventory | |
|--------|---|---------|------------------------------|--------|
| | : 1989 | : 1990 | : 1990 | : 1991 |
| | -----Number----- | | -----1,000 Head----- | |
| AL | 36,000 | 36,000 | 870 | 917 |
| AR | 29,000 | 29,000 | 901 | 848 |
| CA | 18,000 | 18,000 | 935 | 940 |
| CO | 10,800 | 10,800 | 774 | 773 |
| FL | 18,000 | 18,000 | 1,083 | 1,065 |
| GA | 28,000 | 27,000 | 646 | 657 |
| ID | 9,000 | 8,500 | 530 | 545 |
| IL | 21,000 | 21,000 | 555 | 570 |
| IN | 20,000 | 20,000 | 370 | 345 |
| IA | 33,000 | 31,000 | 1,122 | 1,163 |
| KS | 32,000 | 30,000 | 1,390 | 1,350 |
| KY | 47,000 | 46,000 | 1,040 | 1,100 |
| MN | 16,000 | 15,000 | 350 | 375 |
| MS | 27,000 | 25,000 | 707 | 707 |
| MO | 67,000 | 67,000 | 1,964 | 2,040 |
| MT | 12,800 | 12,300 | 1,328 | 1,428 |
| NE | 24,000 | 24,000 | 1,755 | 1,827 |
| NM | 7,000 | 7,000 | 589 | 571 |
| NY | 8,300 | 8,000 | 75 | 70 |
| ND | 13,900 | 14,000 | 872 | 875 |
| OH | 24,000 | 23,000 | 380 | 370 |
| OK | 50,000 | 51,000 | 1,880 | 1,870 |
| PA | 16,000 | 15,000 | 176 | 184 |
| SD | 18,500 | 18,500 | 1,505 | 1,513 |
| TN | 56,000 | 59,000 | 1,005 | 975 |
| TX | 125,000 | 120,000 | 5,210 | 5,360 |
| WI | 10,000 | 9,700 | 180 | 175 |
| WY | 5,100 | 5,100 | 650 | 650 |
| 28 Sts | 782,400 | 768,900 | 28,842 | 29,263 |
| 22 Sts | 166,740 | 163,120 | 4,358 | 4,357 |
| US | 949,140 | 932,020 | 33,200 | 33,620 |

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.

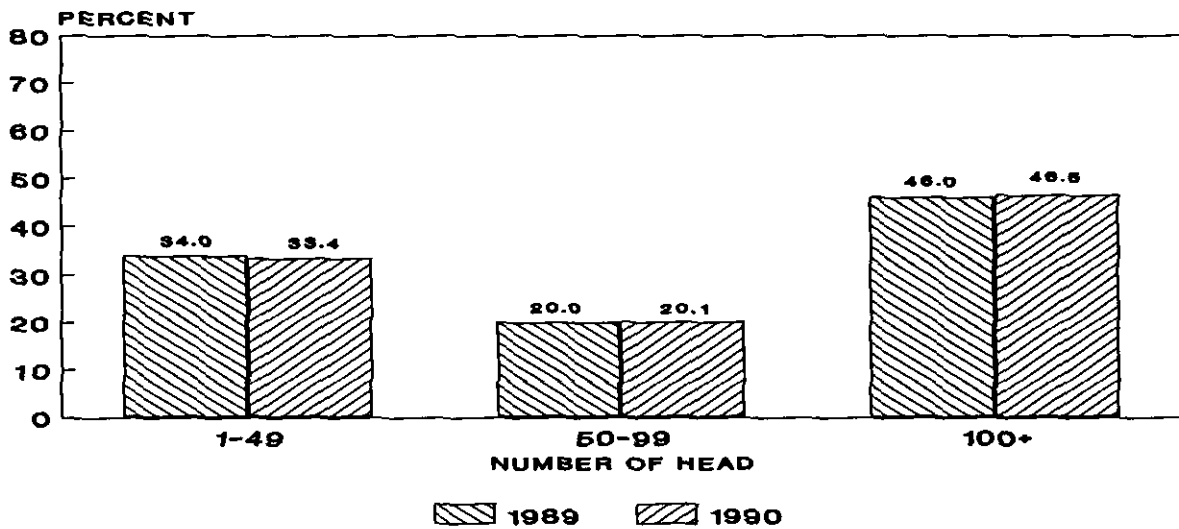
U.S. BEEF COW OPERATIONS

PERCENT BY SIZE GROUP, 1989-90



U.S. BEEF COW INVENTORY

PERCENT BY SIZE GROUP, 1989-90



Beef Cows: Percent of Operations by Size Groups, 1989-90
Selected States, Regions, and U.S. 1/

| State | Operations Having | | | | | |
|---------|-------------------|------|------------|------|------------|------|
| | 1-49 Head | | 50-99 Head | | 100 + Head | |
| | 1989 | 1990 | 1989 | 1990 | 1989 | 1990 |
| Percent | | | | | | |
| AL | 88.9 | 86.0 | 7.5 | 10.0 | 3.6 | 4.0 |
| AR | 79.0 | 76.0 | 15.8 | 19.0 | 5.2 | 5.0 |
| CA | 77.8 | 79.4 | 8.9 | 7.8 | 13.3 | 12.8 |
| CO | 58.0 | 59.3 | 18.0 | 18.5 | 24.0 | 22.2 |
| FL | 81.0 | 80.0 | 7.8 | 8.9 | 11.2 | 11.1 |
| GA | 86.8 | 87.8 | 9.3 | 8.9 | 3.9 | 3.3 |
| ID | 71.0 | 69.0 | 12.0 | 13.0 | 17.0 | 18.0 |
| IL | 89.5 | 89.0 | 8.1 | 8.4 | 2.4 | 2.6 |
| IN | 93.0 | 94.0 | 5.5 | 5.0 | 1.5 | 1.0 |
| IA | 76.0 | 73.5 | 18.2 | 20.0 | 5.8 | 6.5 |
| KS | 69.0 | 68.0 | 19.0 | 19.0 | 12.0 | 13.0 |
| KY | 89.4 | 87.0 | 8.5 | 10.0 | 2.1 | 3.0 |
| MN | 88.7 | 87.0 | 9.1 | 10.0 | 2.2 | 3.0 |
| MS | 86.7 | 86.0 | 9.6 | 10.0 | 3.7 | 4.0 |
| MO | 85.0 | 85.0 | 10.4 | 10.0 | 4.6 | 5.0 |
| MT | 50.0 | 39.0 | 17.0 | 28.0 | 33.0 | 33.0 |
| NE | 59.0 | 58.0 | 20.0 | 20.0 | 21.0 | 22.0 |
| NM | 57.0 | 67.0 | 20.0 | 15.0 | 23.0 | 18.0 |
| NY | 97.6 | 97.5 | 1.9 | 1.8 | 0.5 | 0.7 |
| ND | 50.0 | 52.0 | 27.0 | 27.0 | 23.0 | 21.0 |
| OH | 95.8 | 95.6 | 3.3 | 3.4 | 0.9 | 1.0 |
| OK | 75.0 | 76.5 | 17.2 | 16.0 | 7.8 | 7.5 |
| PA | 97.5 | 97.4 | 1.9 | 1.9 | 0.6 | 0.7 |
| SD | 52.0 | 53.0 | 22.0 | 22.0 | 26.0 | 25.0 |
| TN | 91.1 | 93.2 | 7.1 | 5.4 | 1.8 | 1.4 |
| TX | 81.4 | 80.0 | 11.0 | 11.5 | 7.6 | 8.5 |
| WI | 94.0 | 94.0 | 4.0 | 4.0 | 2.0 | 2.0 |
| WY | 55.0 | 43.0 | 10.0 | 16.0 | 35.0 | 41.0 |
| 28 Sts | 81.0 | 80.1 | 11.3 | 12.0 | 7.7 | 7.9 |
| 22 Sts | 89.1 | 89.3 | 6.6 | 6.1 | 4.3 | 4.6 |
| US | 82.0 | 81.7 | 10.9 | 11.0 | 7.1 | 7.3 |

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 Groups, 1989-90
Selected States, Regions, and U.S. ^{1/}

| State | Inventory on Operations Having | | | | | |
|---------|--------------------------------|------|------------|------|------------|------|
| | 1-49 Head | | 50-99 Head | | 100 + Head | |
| | 1989 | 1990 | 1989 | 1990 | 1989 | 1990 |
| Percent | | | | | | |
| AL | 50.0 | 45.0 | 22.0 | 26.0 | 28.0 | 29.0 |
| AR | 42.0 | 40.0 | 31.0 | 34.5 | 27.0 | 25.5 |
| CA | 14.0 | 15.0 | 11.0 | 10.0 | 75.0 | 75.0 |
| CO | 14.0 | 14.5 | 16.0 | 16.2 | 70.0 | 69.3 |
| FL | 15.0 | 15.2 | 8.3 | 10.0 | 76.7 | 74.8 |
| GA | 48.0 | 53.0 | 25.0 | 24.0 | 27.0 | 23.0 |
| ID | 15.0 | 14.0 | 13.0 | 14.0 | 72.0 | 72.0 |
| IL | 63.0 | 61.0 | 21.0 | 23.0 | 16.0 | 16.0 |
| IN | 63.0 | 74.0 | 20.0 | 16.5 | 17.0 | 9.5 |
| IA | 45.0 | 39.0 | 32.0 | 35.0 | 23.0 | 26.0 |
| KS | 27.0 | 28.0 | 25.0 | 26.0 | 48.0 | 46.0 |
| KY | 59.0 | 55.0 | 25.0 | 26.0 | 16.0 | 19.0 |
| MN | 59.0 | 55.0 | 26.0 | 27.0 | 15.0 | 18.0 |
| MS | 45.0 | 44.0 | 25.0 | 26.0 | 30.0 | 30.0 |
| MO | 50.0 | 49.0 | 24.0 | 22.6 | 26.0 | 28.4 |
| MT | 7.8 | 7.0 | 9.2 | 16.0 | 83.0 | 77.0 |
| NE | 18.0 | 16.5 | 18.0 | 17.5 | 64.0 | 66.0 |
| NM | 11.0 | 11.0 | 16.0 | 12.0 | 73.0 | 77.0 |
| NY | 81.3 | 78.6 | 12.0 | 11.4 | 6.7 | 10.0 |
| ND | 18.0 | 18.5 | 28.0 | 27.5 | 54.0 | 54.0 |
| OH | 73.0 | 73.0 | 16.0 | 16.0 | 11.0 | 11.0 |
| OK | 35.0 | 36.0 | 27.0 | 28.0 | 38.0 | 36.0 |
| PA | 82.0 | 80.0 | 10.3 | 10.2 | 7.7 | 9.8 |
| SD | 15.0 | 15.0 | 18.0 | 19.0 | 67.0 | 66.0 |
| TN | 64.0 | 68.0 | 22.0 | 20.0 | 14.0 | 12.0 |
| TX | 33.0 | 31.0 | 19.0 | 19.0 | 48.0 | 50.0 |
| WI | 66.0 | 64.0 | 14.0 | 17.0 | 20.0 | 19.0 |
| WY | 6.0 | 4.6 | 7.4 | 7.7 | 86.6 | 87.7 |
| 28 Sts | 34.0 | 32.8 | 20.0 | 20.9 | 46.0 | 46.3 |
| 22 Sts | 37.0 | 37.3 | 16.0 | 14.9 | 47.0 | 47.8 |
| US | 34.0 | 33.4 | 20.0 | 20.1 | 46.0 | 46.5 |

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

Number of Operations With Milk Cows 1989-90 1/, and Milk Cow Inventory, January 1, 1990-91, Selected States

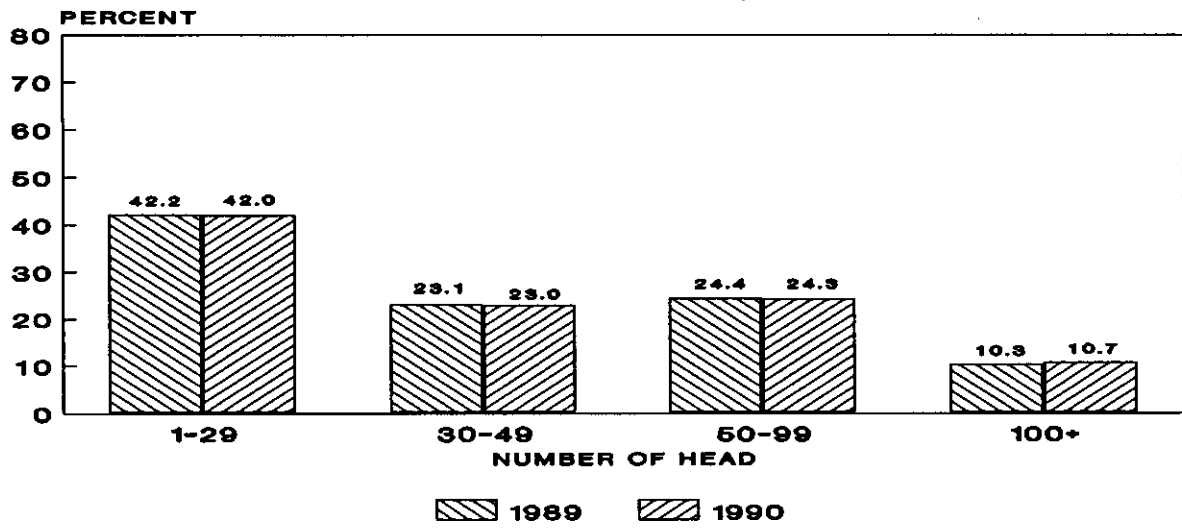
| State | : Operations With Milk Cows <u>2</u> /: | | January 1 Milk Cow Inventory | |
|--------|---|---------|------------------------------|--------|
| | : 1989 | : 1990 | : 1990 | : 1991 |
| | -----Number----- | | -----1,000 Head----- | |
| CA | 4,700 | 4,500 | 1,115 | 1,150 |
| FL | 1,200 | 1,200 | 182 | 185 |
| ID | 2,500 | 2,200 | 170 | 185 |
| IL | 4,100 | 3,900 | 195 | 195 |
| IN | 5,300 | 5,000 | 160 | 155 |
| IA | 7,800 | 7,800 | 308 | 302 |
| KY | 7,000 | 6,500 | 210 | 200 |
| MD | 1,900 | 1,800 | 106 | 108 |
| MI | 6,500 | 6,500 | 344 | 343 |
| MN | 16,500 | 15,500 | 715 | 690 |
| MO | 8,500 | 8,000 | 226 | 230 |
| NY | 13,500 | 13,000 | 790 | 775 |
| NC | 2,500 | 2,000 | 101 | 101 |
| OH | 9,200 | 9,000 | 354 | 340 |
| PA | 16,500 | 15,500 | 694 | 686 |
| TN | 5,000 | 4,500 | 195 | 195 |
| TX | 6,000 | 5,700 | 390 | 390 |
| VT | 2,800 | 2,700 | 167 | 164 |
| VA | 3,500 | 3,000 | 141 | 141 |
| WA | 3,000 | 3,000 | 225 | 241 |
| WI | 34,000 | 33,000 | 1,760 | 1,765 |
| 21 Sts | 162,000 | 154,300 | 8,548 | 8,541 |
| 29 Sts | 41,710 | 39,490 | 1,605 | 1,618 |
| US | 203,710 | 193,790 | 10,153 | 10,159 |

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.

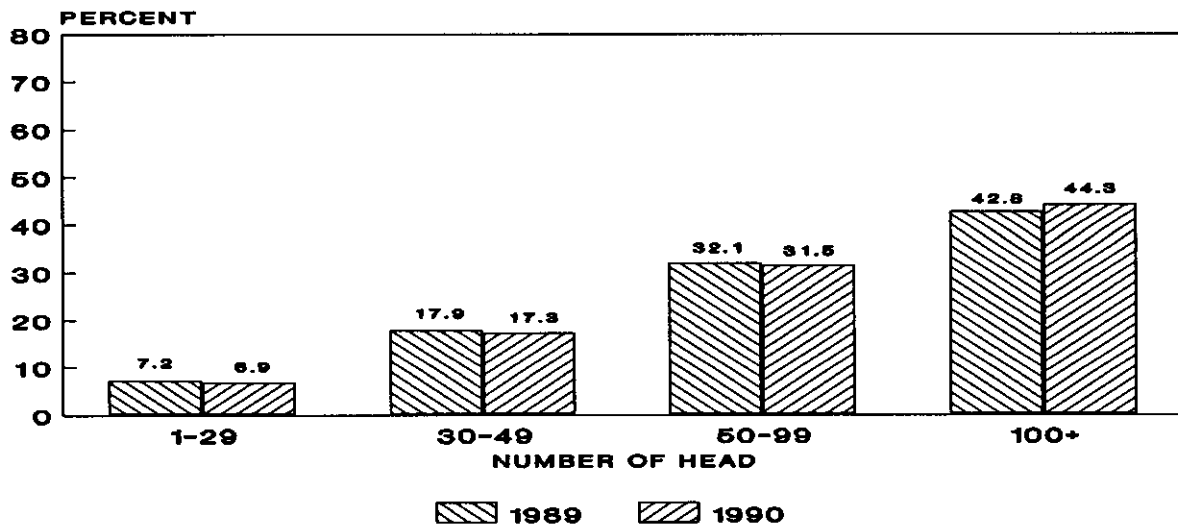
U.S. MILK COW OPERATIONS

PERCENT BY SIZE GROUP, 1989-90



U.S. MILK COW INVENTORY

PERCENT BY SIZE GROUP, 1989-90



Milk Cows: Percent of Operations by Size Groups, 1989-90
 Selected States, Regions, and U.S. 1/

| State | Operations Having | | | | | | | |
|---------|-------------------|------|------------|-----------|------------|-----------|-----------|------|
| | 1-29 Head | | 30-49 Head | | 50-99 Head | | 100+ Head | |
| | 1989 | 1990 | 1989 | 1990 | 1989 | 1990 | 1989 | 1990 |
| Percent | | | | | | | | |
| CA | 44.7 | 42.2 | 3.0 | 3.1 | 7.6 | 8.0 | 44.7 | 46.7 |
| FL | 70.8 | 70.8 | <u>2/</u> | <u>2/</u> | <u>2/</u> | <u>2/</u> | 29.2 | 29.2 |
| ID | 50.8 | 45.9 | 12.7 | 12.7 | 18.8 | 19.1 | 17.7 | 22.3 |
| IL | 24.4 | 23.1 | 29.3 | 30.8 | 36.6 | 33.3 | 9.7 | 12.8 |
| IN | 62.3 | 60.0 | 13.6 | 16.0 | 20.7 | 19.0 | 3.4 | 5.0 |
| IA | 37.2 | 37.2 | 29.5 | 32.1 | 28.2 | 25.6 | 5.1 | 5.1 |
| KY | 53.6 | 53.8 | 22.8 | 21.5 | 18.6 | 18.5 | 5.0 | 6.2 |
| MD | 32.5 | 27.8 | 17.0 | 19.4 | 32.0 | 32.8 | 18.5 | 20.0 |
| MI | 34.3 | 30.8 | 22.8 | 26.1 | 28.6 | 27.7 | 14.3 | 15.4 |
| MN | 26.1 | 25.2 | 41.8 | 41.3 | 27.9 | 29.0 | 4.2 | 4.5 |
| MO | 59.9 | 55.0 | 15.9 | 17.5 | 20.0 | 22.5 | 4.2 | 5.0 |
| NY | 20.0 | 20.4 | 25.2 | 24.2 | 40.0 | 40.8 | 14.8 | 14.6 |
| NC | 62.2 | 57.0 | 6.0 | 7.0 | 16.0 | 15.5 | 15.8 | 20.5 |
| OH | 50.0 | 48.9 | 20.7 | 21.1 | 22.8 | 23.3 | 6.5 | 6.7 |
| PA | 31.5 | 31.0 | 32.1 | 32.9 | 29.1 | 28.4 | 7.3 | 7.7 |
| TN | 60.0 | 57.8 | 16.6 | 14.0 | 16.0 | 17.8 | 7.4 | 10.4 |
| TX | 63.7 | 62.6 | 3.8 | 4.1 | 10.8 | 10.5 | 21.7 | 22.8 |
| VT | 25.0 | 18.5 | 21.4 | 22.2 | 35.7 | 40.8 | 17.9 | 18.5 |
| VA | 58.3 | 56.7 | 8.3 | 7.3 | 19.1 | 20.0 | 14.3 | 16.0 |
| WA | 48.3 | 51.0 | 5.0 | 5.0 | 16.7 | 19.0 | 30.0 | 25.0 |
| WI | 23.5 | 23.3 | 37.9 | 37.0 | 31.8 | 32.7 | 6.8 | 7.0 |
| 29 Sts | 61.0 | 60.1 | 12.2 | 12.1 | 16.5 | 16.7 | 10.3 | 11.1 |
| US | 42.2 | 42.0 | 23.1 | 23.0 | 24.4 | 24.3 | 10.3 | 10.7 |

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.

Milk Cows: Percent of Inventory by Size Groups, 1989-90
Selected States, Regions, and U.S. 1/

| State | Inventory on Operations Having | | | | | | | |
|---------|--------------------------------|-----------|------------|-----------|------------|-----------|-----------|------|
| | 1-29 Head | | 30-49 Head | | 50-99 Head | | 100+ Head | |
| | 1989 | 1990 | 1989 | 1990 | 1989 | 1990 | 1989 | 1990 |
| Percent | | | | | | | | |
| CA | <u>2/</u> | <u>2/</u> | 0.8 | 0.6 | 2.4 | 2.0 | 96.8 | 97.4 |
| FL | 0.8 | 0.6 | <u>2/</u> | <u>2/</u> | <u>2/</u> | <u>2/</u> | 99.2 | 99.4 |
| ID | 4.1 | 3.2 | 7.6 | 6.0 | 21.2 | 16.2 | 67.1 | 74.6 |
| IL | 3.6 | 3.6 | 20.5 | 21.0 | 50.3 | 41.0 | 25.6 | 34.4 |
| IN | 17.5 | 20.7 | 18.1 | 17.4 | 46.9 | 38.7 | 17.5 | 23.2 |
| IA | 12.0 | 13.2 | 27.9 | 28.2 | 42.9 | 40.4 | 17.2 | 18.2 |
| KY | 12.4 | 12.0 | 26.7 | 25.0 | 38.0 | 36.5 | 22.9 | 26.5 |
| MD | 4.7 | 4.6 | 11.3 | 12.1 | 34.9 | 33.3 | 49.1 | 50.0 |
| MI | 6.7 | 5.8 | 16.9 | 17.8 | 34.9 | 35.0 | 41.5 | 41.4 |
| MN | 10.3 | 10.0 | 36.6 | 35.9 | 39.7 | 40.0 | 13.4 | 14.1 |
| MO | 11.1 | 9.6 | 21.2 | 20.9 | 46.0 | 46.5 | 21.7 | 23.0 |
| NY | 3.8 | 3.6 | 15.9 | 15.5 | 42.3 | 42.6 | 38.0 | 38.3 |
| NC | 2.1 | 1.7 | 5.6 | 5.2 | 26.9 | 22.8 | 65.4 | 70.3 |
| OH | 16.9 | 16.2 | 18.1 | 17.6 | 40.1 | 41.2 | 24.9 | 25.0 |
| PA | 8.8 | 8.6 | 28.2 | 27.9 | 40.2 | 40.2 | 22.8 | 23.3 |
| TN | 20.0 | 15.4 | 17.4 | 12.8 | 29.7 | 28.7 | 32.9 | 43.1 |
| TX | 1.5 | 1.3 | 2.6 | 2.5 | 12.6 | 10.8 | 83.3 | 85.4 |
| VT | 3.0 | 2.4 | 13.8 | 13.4 | 39.5 | 41.5 | 43.7 | 42.7 |
| VA | 7.1 | 6.0 | 7.1 | 6.0 | 31.2 | 30.5 | 54.6 | 57.5 |
| WA | 2.0 | 3.0 | 2.1 | 2.0 | 15.8 | 17.8 | 80.1 | 77.2 |
| WI | 9.1 | 8.8 | 30.5 | 29.8 | 42.0 | 42.7 | 18.4 | 18.7 |
| 29 Sts | 7.1 | 7.0 | 12.4 | 12.5 | 30.7 | 30.9 | 49.8 | 49.6 |
| US | 7.2 | 6.9 | 17.9 | 17.3 | 32.1 | 31.5 | 42.8 | 44.3 |

- 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 and Estimating Procedures

Survey Procedures: Primary data used in determining these cattle estimates were obtained from a sample of producers across the U.S. using probability surveys. These surveys collected information from 15,400 operators selected from a list of agricultural producers, plus additional information from operators of 7,400 small land area tracts. Information was collected during the first half of July by mail, telephone, and personal interview, referencing July 1.

Percentage distribution of operations and inventory by size groups included in this report are based on similar surveys conducted throughout the year.

Estimation Procedures: In determining the inventory estimates, the Agricultural Statistics Board constructed a U.S. balance sheet (on page 3) using estimates of births, deaths, administrative data for slaughter, imports and exports, which provided an additional evaluation of survey inventory estimates.

Revision Policy: Revisions to historical estimates are made to improve survey to survey relationships of estimates such as cows versus calf crop, or to improve relationships with slaughter. Estimates for the previous survey are subject to revision when current estimates are made. Estimates for the previous years are reviewed in January. This review is primarily based on livestock slaughter and additional foreign trade and survey data. Estimates will also be reviewed after data for the five-year Census of Agriculture, conducted by the Department of Commerce, are available. No revisions will be made after that date.

Reliability: Since all operations raising cattle were not included in the sample, survey estimates are subject to sampling variability. This variability, as measured by the relative standard error, is about 1.3 percent at the U. S. level for the all cattle inventory. This means that chances are approximately 95 out of 100 that survey estimates will be within 2.6 percent of the value developed by all possible samples selected from the same population and surveyed using the same procedures. The relative standard error for estimates of all cows is 1.4 and the standard error for the calf crop is 1.5 percent. The relative standard error for other individual classes ranges from 1.6 to 5.5 percent.

Survey estimates are also subject to non-sampling errors such as omissions, duplications, and mistakes in reporting, recording, and processing the data. These errors cannot be measured directly, but are minimized through rigid quality controls in the data collection process and a careful review of all reported data for consistency and reasonableness.

To assist users in evaluating the reliability of estimates in this report, a statistical measure based on past performance, the "Root Mean Square Error" is shown for selected items. It is computed by expressing the deviations between the initial estimates and the final estimates as a percent of the final estimates and averaging the squared deviations for the last 15 years; the square root of this average is the "Root Mean Square Error". Probability

statements can be made concerning expected differences in the current estimates and the final estimates, assuming factors affecting this year's estimates are not different from those influencing recent years.

The "Root Mean Square Error" for the July Cattle Inventory estimates is 0.5 percent. This means that chances are 2 out of 3 that the final inventory estimate will not be above or below the current estimate of 109,800,000 head by more than 0.5 percent or about 549,000 head. Chances are 9 out of 10 (90 percent confidence level) that the difference will not exceed .9 percent or about 988,200.

Also shown in the table is a 15 year record for items showing the range of differences between the first inventory estimate and the final estimate. Using estimates for all cattle as an example, changes between the first inventory estimate and the final estimate during the past 15 years have averaged 235,000 head, ranging from 0 to 1,000,000 head. The initial inventory estimate has been below the final estimate 3 times and above 8 times in the last 15 years. This does not imply that the July 1 estimate this year is likely to understate or overstate final inventory.

Reliability of July 1 Cattle Estimates

| Item | : Root : Mean : Square : Error : 1/ | : 90% : Confidence : Level : Percent | : 988 : Head | : Difference Between | | | : Number of | |
|------------|---|---|-----------------|--|-----------|------------|-------------|--------------------|
| | | | | : First : and Final : Estimates 2/ | : Average | : Smallest | : Largest | : Above : Final |
| | : -- | : Percent -- | : 1,000 Head | : -- | : -- | : -- | : -- | : Number -- |
| All Cattle | : 0.5 | : 0.9 | : 988 | : -235 | : 0 | : -1,000 | : 8 | : 3/ 3 |
| All Cows | : 0.6 | : 1.1 | : 490 | : -83 | : 0 | : -450 | : 8 | : 3/ 3 |
| Calf Crop | : 1.7 | : 3.1 | : 1,243 | : -208 | : -50 | : 1,082 | : 11 | : 4 |

1/ Based on data from July 1976 through July 1990.

2/ Based on records for the past 15 years.

3/ There was no change from first to final estimates of All Cattle and All Cows in 4 of the 15 years represented.

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The next "**Cattle**" report will be released in **February 1992**.

