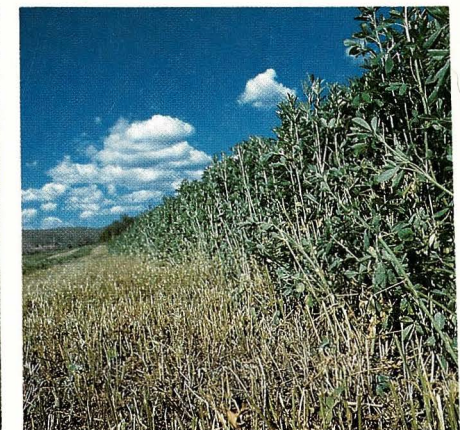
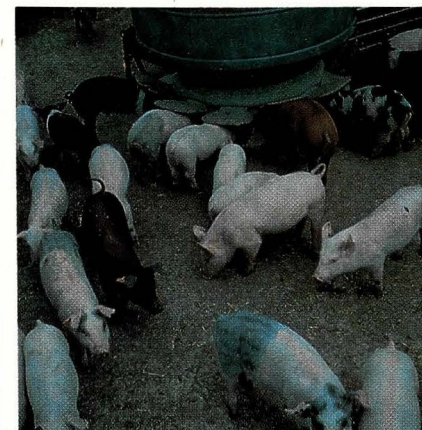
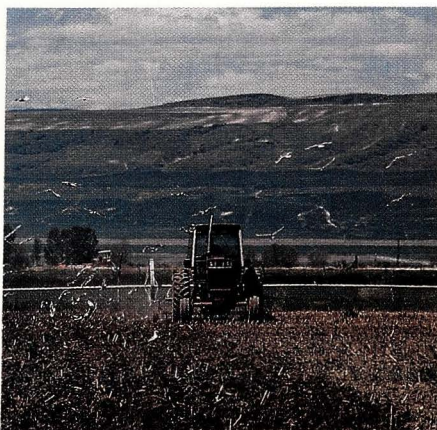
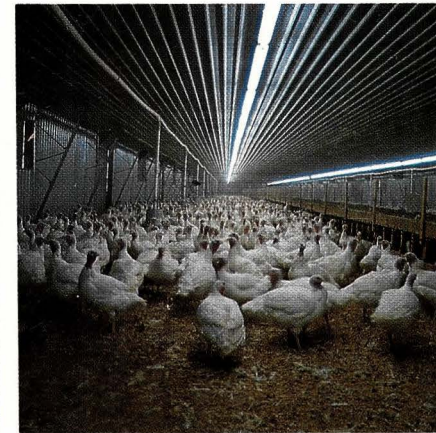
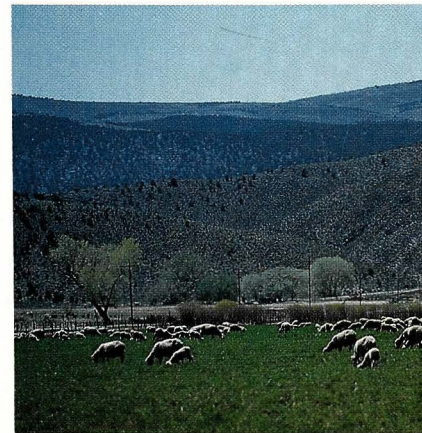
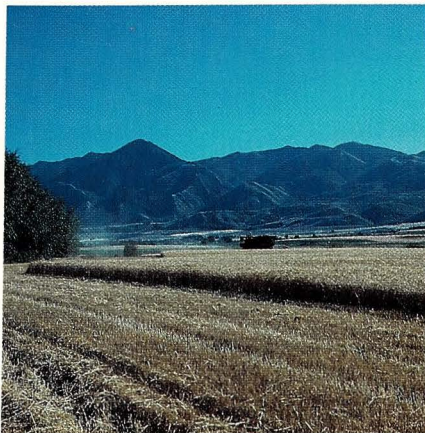
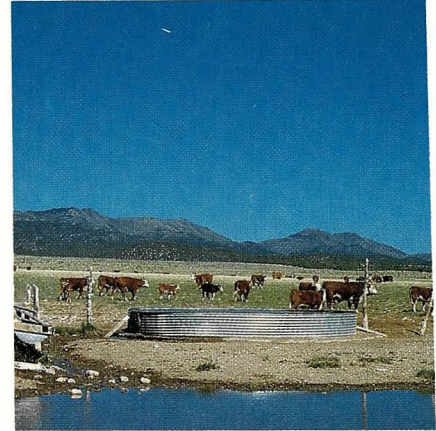
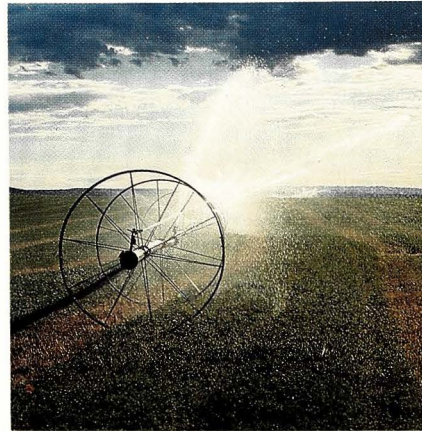
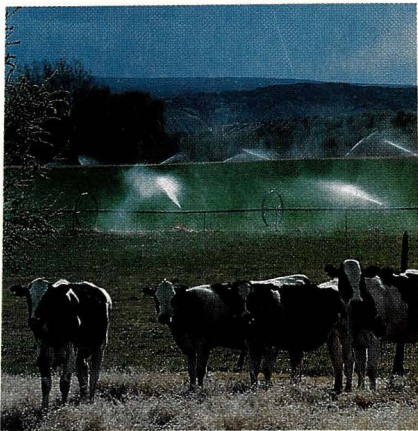


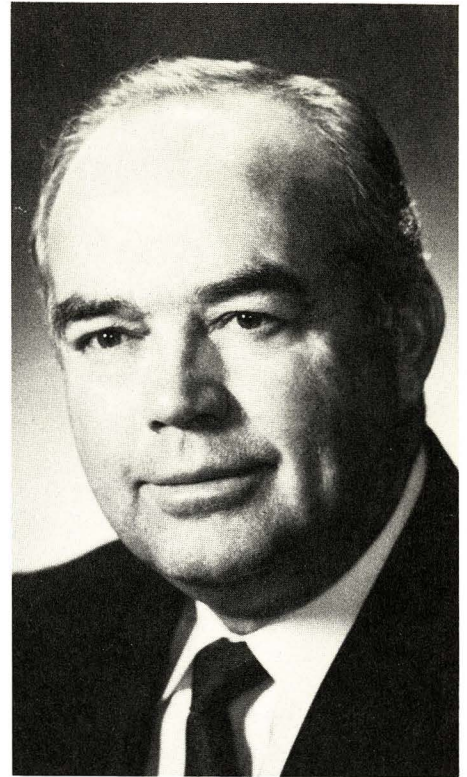
# 1992 UTAH AGRICULTURAL STATISTICS

## UTAH DEPARTMENT OF AGRICULTURE ANNUAL REPORT ENTERPRISE BUDGETS





**Norman H. Bangerter,  
Governor,  
State of Utah**



Dear Fellow Utahn:

This will be the last time I address you in this annual report of the Utah Department of Agriculture. As you know, I'm not running for this office again. Because of my feeling that agriculture is the basic industry of this state, it has been stimulating to work with staff members of the state Department of Agriculture and with citizen groups serving on various boards and commissions.

This great industry has made a lot of progress in the years since I took office as governor. A few years ago, an agricultural value-added project funded by the legislature provided seed money for several agribusiness projects, including development of Utah's aquaculture industry, feeding turkey waste to beef cattle, and others. That project has already created new jobs and revenue for rural Utah and will continue to do so in the years to come.

A large and public-spirited group of citizens has just completed another project of importance to Utah farmers and ranches, as well as workers in agribusiness across the state. Not only did 14 members of my Agribusiness Task Force contribute countless hours to exploring ways to create more jobs and revenue in rural areas of the state; some 200 other citizens in more than 20 focus groups helped brainstorm ways to add value to Utah agricultural products. In this activity, they made hundreds of suggestions for keeping jobs and income here in Utah instead of shipping raw products out-of-state for processing and marketing work to be done elsewhere.

Utah agriculture still faces many challenges. Drought years like this one (and the past five) remind us that we have much to do in developing water storage and conservation here. Likewise, we need to work steadily on water quality, on the farm and ranch as well as in the city. We must continue to give strong support to agricultural research as some of the finest scientists in the nation work at our great universities to develop new and more profitable varieties of crops and breeds of livestock.

One fact I want to address is the importance of the farm and ranch population to our state. Some people feel that as the number of food producers in Utah dwindles, so does their importance. Just the opposite! As those few men and women boost their ability to produce food for the rest of us, so that we can produce goods and services to raise our lifestyle, their importance grows. Back in Utah's pioneer days, it took three farmers to feed every four people. Most people grew their own food and weren't dependent on others for their sustenance.

Now more than 130 of us, in this nation and around the world, depend on one American farmer to feed us. And we expect that food to be on the table three times a day, day in and day out. If we don't want to go back to squeezing our own living out of the soil, we need to be sure that each farmer stays in business and makes a profit.

We should all salute our state's farmers and ranchers – at least three times a day, when we sit down to eat!

Sincerely,

A handwritten signature in cursive script that reads "Norman H. Bangerter". The signature is written in dark ink and is positioned above the printed name.

Norman H. Bangerter, Governor  
State of Utah

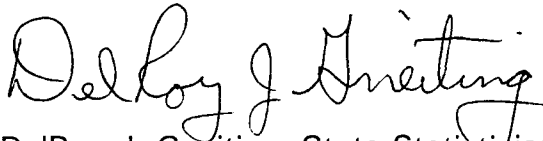
## Introduction

This publication is designed to help inform farmers, ranchers, and the public about activities within the Utah Department of Agriculture, and provide a detailed look at Utah's agricultural production. Also included are budgets for helping farmers and ranchers evaluate the profitability of various agricultural commodities produced in the State.

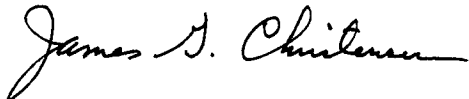
The Utah Agricultural Statistics Service and the Utah Department of Agriculture have jointly prepared this publication for the past 22 years. Estimates presented in the publication are current for 1991 production, and January 1, 1992 inventories. Data users that need 1992 production information or more historic data should contact the Utah Agricultural Statistics Service, phone (801)524-5003. Statistics for other States are also available at the office.

The agricultural statistics are the result of farmers, ranchers, and agribusinesses responding to various survey questionnaires during the year. Information they gave about their operations is confidential and used only in combination with other reports. A special thanks for their voluntary contribution to making the estimates possible.

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DelRoy J. Gneiting, State Statistician  
Utah Agricultural Statistics Service  
National Agricultural Statistics Service  
United States Department of Agriculture



James G. Christensen, Director  
Agricultural Development and Conservation  
Utah Department of Agriculture

This report has been compiled and published as a cooperative effort and function of the following agencies of Federal and State Government.

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Van Burgess, Deputy Commissioner  
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El Shaffer, Information Director

We would like to thank Kurt Gutknecht and Gary Neuenswander, USU Experiment Station; John DeVilbiss, USU Information Services; and Jack Wilbur, Utah Department of Agriculture for helping to provide the photographs used in this publication.



# Table of Contents

## Utah Department of Agriculture Annual Report

|   |    |
|---|----|
| Department Directory .....                      | 1  |
| Commissioner's Message .....                    | 2  |
| Mission Statement .....                         | 3  |
| Commissioner's Office .....                     | 4  |
| Public Information .....                        | 5  |
| Administrative Services .....                   | 6  |
| Agricultural Development and Conservation ..... | 7  |
| Animal Damage Control .....                     | 8  |
| Animal Industry .....                           | 10 |
| Chemistry Laboratories .....                    | 11 |
| Food and Dairy .....                            | 13 |
| Marketing and Promotion .....                   | 14 |
| Plant Industry .....                            | 16 |
| Weights and Measures .....                      | 17 |
| Organization Chart .....                        | 19 |
|   | 20 |

## Utah Agricultural Statistics

|  |    |
|--|----|
| Population .....                       | 21 |
| Utah's Agricultural Ranking            |    |
| General and Field Crops .....          | 22 |
| Fruits, Vegetables and Livestock ..... | 23 |

## Utah Record Highs and Lows

|  |    |
|--|----|
| Crops .....                              | 24 |
| Livestock, Poultry, Mink and Honey ..... | 25 |

## Utah Crop Production Index

## Number of Farms

## Farm Income

|                                    |    |
|------------------------------------|----|
| Cash Receipts by Commodities ..... | 26 |
| Gross and Net Farm Income .....    | 27 |
| Farm Operating Expenses .....      | 28 |
| Farm Balance Sheet .....           | 29 |

## Field Crops

|  |    |
|--|----|
| Usual Planting and Harvesting Dates .....  | 30 |
| Acreage, Production, Disposition and Value |    |
| Corn .....                                 | 31 |
| Winter Wheat .....                         | 32 |
| Spring Wheat .....                         | 33 |
| All Wheat .....                            | 34 |
| Barley .....                               | 35 |
| Oats .....                                 | 36 |
| Dry Beans .....                            | 37 |
| Potatoes .....                             | 38 |
| Hay Crops .....                            | 39 |

## Grain Stocks (stored off farm)

|              |    |
|--------------|----|
| Wheat .....  | 40 |
| Barley ..... | 41 |

|            |    |
|------------|----|
| Oats ..... | 42 |
| Corn ..... | 43 |

## Fruits

|   |    |
|---|----|
| Usual Blooming and Harvesting Dates ..... | 44 |
| Value .....                               | 45 |
| Production, Use and Value                 |    |
| Apples .....                              | 46 |
| Apricots .....                            | 47 |
| Peaches .....                             | 48 |
| Pears .....                               | 48 |
| Sweet Cherries .....                      | 49 |
| Tart Cherries .....                       | 49 |

## Vegetables

|                                 |    |
|---------------------------------|----|
| Onions .....                    | 50 |
| Vegetables for Processing ..... | 51 |

## Cattle and Calves

|  |    |
|--|----|
| Number of Farms, Inventory and Value ..... | 52 |
| Inventory by Class .....                   | 53 |
| Calf Crop .....                            | 54 |
| Production, Disposition and Income .....   | 55 |
| Commercial Slaughter .....                 | 56 |

## Dairy

|  |    |
|--|----|
| Milk Production, Monthly and Quarterly ..... | 57 |
| Milk Production and Disposition .....        | 58 |
| Milk Marketings and Value .....              | 59 |
| Butter and Cheese Production .....           | 60 |
| Cottage Cheese and Dry Whey Production ..... | 61 |
| Frozen Products Production .....             | 62 |

## Sheep and Wool

|  |    |
|--|----|
| Number of Farms, Inventory and Value ..... | 63 |
| Inventory by Class .....                   | 64 |
| Lamb Crop .....                            | 65 |
| Wool Production and Value .....            | 66 |
| Production, Disposition and Income .....   | 67 |
| Commercial Slaughter .....                 | 68 |
| Sheep and Lamb Losses by Cause .....       | 69 |

## Hogs and Pigs

|  |    |
|--|----|
| Number of Farms, Inventory and Value ..... | 70 |
| Inventory by Class .....                   | 71 |
| Pig Crop .....                             | 71 |
| Production, Disposition and Income .....   | 72 |
| Commercial Slaughter .....                 | 73 |

## Chickens and Eggs

|   |    |
|---|----|
| Layers, Egg Production, and Value ..... | 74 |
| Chicken Inventory .....                 | 74 |
| Chickens Lost, Sold and Value .....     | 75 |

## Turkeys

|                             |    |
|-----------------------------|----|
| Production and Income ..... | 76 |
|-----------------------------|----|

|   |     |   |     |
|---|-----|---|-----|
| <b>Bees and Honey</b> .....                       | 77  | <b>Cattle, January 1, 1991-92</b> .....   | 106 |
| Colonies, Production and Value .....              | 77  | <b>Milk Cow Numbers Chart, January 1, 1992</b> .....  | 107 |
| <b>Mink</b> .....                                 | 78  | <b>Stock Sheep and Lambs, January 1, 1991-92</b> .....  | 108 |
| Pelts Produced and Females Bred .....             | 78  | <b>Stock Sheep Inventory Chart, January 1, 1992</b> .....   | 109 |
| <b>Trout</b> .....                                | 79  | <b>Cash Receipts, 1989 and 1990 Preliminary</b> .....   | 110 |
|   |     | <b>Cash Receipts from Farming, 1990 Chart</b> .....   | 111 |
|   |     | <b>Mink, 1990 Pelts and 1991 Females Bred</b> .....   | 112 |
| <b>Farm Labor</b> .....                           | 80  | <b>1987 Census of Agriculture Data</b> .....  | 113 |
| Farm Labor and Wage Rates .....                   | 80  | Number of farms, land in farms, cropland,<br>irrigated land, value, and number of farms<br>by value of sales and total land |     |
| <b>Agricultural Prices by Months</b> .....        | 81  | <b>Weather</b> .....  | 116 |
| Barley .....                                      | 82  | Frost-Free Period .....   | 117 |
| Hay .....   | 82  | Temperatures, 1991 .....  | 118 |
| Cows .....  | 83  | Temperatures, Normal .....  | 119 |
| Steers and Heifers .....                          | 83  | Precipitation, 1991 .....   | 120 |
| Beef Cattle .....                                 | 83  | Precipitation, Normal .....   | 121 |
| Calves .....                                      | 84  | Growing Degree Days, 1991, Base 50 .....  | 122 |
| Milk Cows .....                                   | 84  | Growing Degree Days, Normal, Base 50 .....  | 123 |
| Milk .....  | 85  | Growing Degree Days, 1991, Base 40 .....  | 124 |
| Sheep and Lambs .....                             | 86  | Growing Degree Days, Normal, Base 40 .....  | 125 |
| Wool .....  | 86  | <b>Enterprise Budgets</b> .....   | 126 |
| <b>County Estimates</b> .....                     | 87  | <b>Alfalfa Hay Establishment</b> .....  | 127 |
| Estimates by County .....                         | 88  | <b>Alfalfa Hay, Large Bales</b> .....   | 128 |
| All Wheat, 1991 .....                             | 90  | <b>Alfalfa Hay, Small Bales</b> .....   | 129 |
| All Wheat Production Chart, 1991 .....            | 91  | <b>Winter Wheat, Flood Irrigated</b> .....  | 130 |
| All Wheat by Cropping Practice, 1991 .....        | 92  | <b>Barley, Flood Irrigated</b> .....  | 131 |
| Winter Wheat, 1991 .....                          | 93  | <b>Corn Silage</b> .....  | 132 |
| Spring Wheat, 1991 .....                          | 94  | <b>Corn for Grain</b> .....   | 133 |
| All Barley, 1991 .....                            | 95  | <b>Dry Onions</b> .....   | 134 |
| Barley Production Chart, 1991 .....               | 96  | <b>Safflower, Dryland</b> .....   | 135 |
| Barley by Cropping Practice, 1991 .....           | 97  | <b>Machinery Data</b> .....   | 136 |
| Corn, 1991 .....                                  | 98  | <b>Stocker Feeder Cattle</b> .....  | 137 |
| Oats, 1991 .....                                  | 99  | <b>Cow-Calf-Yearling</b> .....  | 138 |
| All Hay, 1991 .....                               | 100 | <b>Managing Calves for Health at Weaning</b> .....  | 139 |
| Alfalfa and Alfalfa-Mixture Hay, 1991 .....       | 101 | <b>Sheep, Farm Flock</b> .....  | 140 |
| Alfalfa Hay Production Chart, 1991 .....          | 102 | <b>Swine, Farrow to Finish</b> .....  | 141 |
| Other Hay, 1991 .....                             | 103 |   |     |
| Potatoes, 1990-91 .....                           | 104 |   |     |
| All Cattle Inventory Chart, January 1, 1992 ..... | 105 |   |     |



# UTAH DEPARTMENT OF AGRICULTURE 1992 ANNUAL REPORT



# Utah Department of Agriculture

## Administration

Miles "Cap" Ferry  
Commissioner

Van Burgess  
Deputy Commissioner

Renee Matsuura  
Director of Administrative Services

James G. Christensen  
Director of Agricultural Development & Conservation

Dr. Michael R. Marshall  
Director of Animal Industry/State Veterinarian

Robert A. Smoot  
Director of Food & Dairy/Weights & Measures

Ahmad Salari  
Director of Laboratory Services/State Chemist

Randy Parker  
Director of Marketing & Promotion

G. Richard Wilson  
Director of Plant Industry

El Shaffer  
Information Officer

## Agricultural Advisory Board

Kenneth R. Ashby, Chairman  
Utah Farm Bureau Federation

Lee Reese, Vice Chairman  
Utah-Idaho Farmers Union

N. Seth Weston  
Utah Cattlemen's Association

Lee Jarvis  
Utah Wool Growers Association

Dr. James E. Williams  
Utah Veterinary Medical Association

Leonard Blackham  
Food Processing Industry

Carma Wadley  
Consumers' Representative

Dean Blackhurst  
Utah Dairymen's Association

Dean Parker  
Utah Horse Industry

Grant Tingey  
Utah Auction Market Association

Wes Peterson  
Utah Association of Conservation Districts

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Administrative Services  
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Budget and Accounting 538-7111  
Data Processing Services 538-7113  
Personnel 538-7112

Agricultural Development & Conservation  
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Ag Resource Development Loans 538-7176  
Public Information 538-7098  
Environmental Quality 538-7172  
Soil Conservation 538-7171

Agricultural Statistics (USDA) 524-5003

Animal Industry  
Director 538-7160  
Animal Health 538-7162  
Serology Laboratory 538-7165  
Animal Identification (Brands) 538-7166  
Meat Inspection 538-7117

Chemistry Laboratory  
Director 538-7128  
Pesticide Residue Laboratory 538-7135  
Bacteriology Laboratory 538-7129  
Feed & Fertilizer Laboratory 538-7134  
Meat Laboratory 538-7132

Food & Dairy  
Supervisor 538-7150  
Bedding, Quilted Clothing,  
Upholstered Furniture 538-7151  
Egg & Poultry 538-7148  
Investigation 538-7141

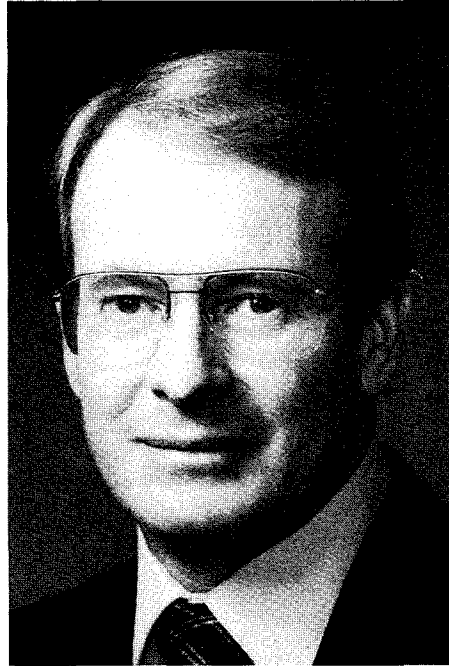
Marketing & Promotion  
Director 538-7108  
Livestock & Market News 538-7109

Plant Industry  
Director 538-7180  
Entomology 538-7184  
Fresh Fruit & Vegetable Inspection 538-7183  
Insect Infestation Emerg. Control 538-7180  
Grain, Seed & Feed Inspection 538-7187  
Grain Grading Lab (Ogden UT) 392-0603  
Pesticides/Fertilizers 538-7188  
Seed Laboratory 538-7182  
Noxious Weeds 538-7183

Weights & Measures 538-7158



Commissioner of  
Agriculture Miles  
"Cap" Ferry



Dear Friends of Utah Agriculture:

Farmers and ranchers are different from the general population in a lot of ways. Most people have a pretty good idea of what their income will be for the next 12 months; farmers and ranchers may borrow a hundred thousand dollars at the start of the year and pour it into the ground in the hope that there'll be a big enough supply of water and sunshine and a small enough supply of bugs, plant diseases and other obstacles to produce a good crop.

Most Americans, after they get the training they need to do the work they choose, get by on their experience and the use of modern equipment; farmers and ranchers go through lengthy training and experience, make excellent use of technology – and still do a lot of back-breaking labor every day.

After all the agricultural research is completed and communicated to the farm or ranch, after all the computers are in place in the tractors and farm offices, and after all the precipitation available for the year is in the reservoir, the folks who produce the food for this nation and millions of people in other lands still have to fall back on the things that no college or farm magazine teaches: perseverance, hard work, inspiration, and just plain courage.

For most Utah farmers, 1991 was a typical year: plenty of water in some areas, and not nearly enough in others. (We're in our fifth straight drought year over much of the state.) Strengthening prices for sheep and dairy producers, falling prices for cattle and hay operators. Increasing problems with turkeys, cereal leaf beetles and dyers woad, easier times with grain prices and farm debt (lower by one-third this year through cost control).

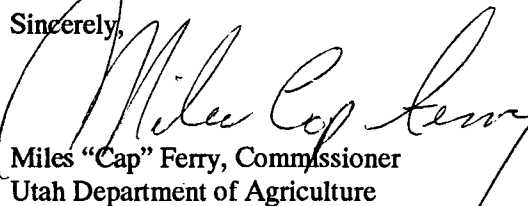
As always, a lot of people were hard at work last year, trying to solve agriculture's problems and give producers a bigger assortment of tools. At Utah State University and elsewhere, scientists searched for new varieties of crops and livestock that make better use of natural resources. Biotechnology continued to promise grain varieties that resist drought and disease. Planning got under way in 1991 on a new animal disease diagnostic lab on the USU campus that will feature the latest in design and equipment. The new fruit research center on the Brigham Young University farm was flourishing.

One of the most promising pieces of work for Utah farmers and ranchers was the completion by the governor's Agribusiness Task Force of its assignment: to suggest ways to add value to Utah's agricultural products, thus increasing jobs and income in rural Utah.

After 20 months of hard work by focus groups from various segments of the industry, the task force has given the governor its final report. You'll be seeing the fruits of that investment in coming months and years.

Utah's horse industry and the state's economy will also benefit from the creation, by the 1992 Legislature, of a Utah Horse Commission after the issue underwent study in 1991. This group will regulate the growing horse industry in the Beehive State over the coming years.

Best wishes to you as you read and use this 1992 report.

Sincerely,  
  
Miles "Cap" Ferry, Commissioner  
Utah Department of Agriculture

# Mission Statement



This department has a three-fold mission: To improve Utah's agriculture and allied industries financially through marketing and promotion; to conserve and develop Utah's agricultural resources; and to protect consumers, producers, and processors by regulating the agricultural code of the state.

Primary goals in each of the three parts of that mission are the following:

## 1. Marketing and Promotion

To strengthen Utah's agriculture and allied industries financially by expanding present markets and developing new ones for Utah's agricultural products, locally and in the United States as well as overseas; to help develop new products and production methods; and to promote in-state processing of Utah agricultural products for a stronger state economy.

## 2. Conservation and Development

To protect, conserve and develop Utah's agricultural and natural resources, including water and land.

## 3. Regulation

To protect public health and safety as well as agricultural markets by assuring consumers of clean, safe, wholesome, and properly labeled and measured or weighed products. This includes products inspected by UDA's animal industry, plant industry, weights and measures, and food and dairy inspectors and compliance officers. It also includes other consumer products such as bedding, quilted clothing and upholstered furniture.

This inspection also protects legitimate producers and processors by keeping their markets safe from poor products and careless processing.

---

*"Our department's three-fold mission:*

- *Improve agriculture . . . financially;*
  - *Conserve and develop agricultural resources;*
  - *Protect consumers, producers and processors."*
- 

The staff headquartered in the Utah Department of Agriculture building, shown here from the back, assures consumers of product quality protection.



# Commissioner's Office

## 1991-92 Progress

These programs and issues came in for department attention in 1991 and early '92:

● **Governor's Agribusiness Task Force** — Organized to stimulate Utah's rural economy by adding value to the state's agricultural products, this group worked hard all during 1991 to carry out its assignment. More than 250 people took part in task force studies of various commodities and geographical areas. The final report was presented to the governor in June 1992.

● **Battling the gypsy moth** — The department served again as lead agency in the effort to detect and eradicate this costly insect pest, which first showed up in Utah in 1988. The 1991 spray program was effective, reducing the acreage slated for 1992 treatment to about half of last year's total.

● **Defending rangelands from grasshoppers and Mormon crickets** — Treatments for these pests in 1991 also were effective, helping reduce acreage to be treated in '92.

● **Animal diagnostic laboratory progress** — Years of effort by the state veterinarian and others finally paid off with legislative funding of this important facility. Construction will start in mid-1992 at the north end of the Utah State University campus. UDA will administer the lab in Logan as well as one in Provo; USU will operate it to prevent the spread of diseases to animals and humans.

● **Grazing fee increases** — Using money appropriated by the 1991 legislature, a grazing fee task force headed by the state commissioner of agriculture led a defense against proposed increases, which could put many Utah ranchers out of business.

● **Groundwater testing** — The UDA chemistry laboratories had a large increase in pesticide residue analyses on groundwater in 1991. Agriculture proved to be less of a problem than was suspected.

● **"Product of Utah" promotion** — This program has almost replaced "Utah Works" as a marketing effort to help Utah producers and processors, especially of agricultural products, increase sales. Funding allows UDA to help advertisers with co-op money.

● **Motor fuel laboratory** — This much-needed facility moved ahead in 1991, with testing scheduled to begin in mid-1992. New equipment will check octane ratings for various types of motor fuel.

● **State employee U.S. Savings Bond drive** — UDA's commissioner was appointed by the governor to head this drive for employees of the state. A successful campaign resulted in a big increase in state employee participation and won a

U.S. Treasury award for the department.

● **Utah Horse Commission** — After early 1992 passage of legislation creating a Utah Horse Commission, the UDA marketing and promotion division took over coordination of this five-person group representing various aspects of the state's horse industry.

● **Construction projects** — Several building projects were started in late 1991 and were completed in early 1992, including a chemical storage building and upgrading of the metrology and chemical laboratories.

## Agricultural Research

Utah Department of Agriculture funds supported a number of important research projects, many of them at Utah State University. Funding included several biotechnological projects aimed at improving plant and animal genetics to build in disease resistance, faster growth, and other benefits.

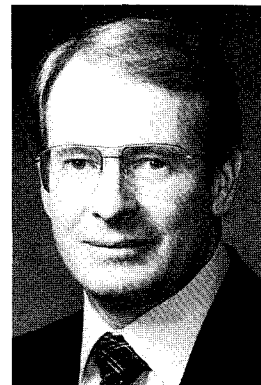
Some of the key research projects were:

- \* Utah Fruit Research Center at BYU.
- \* Single-litter swine for increased profits.
- \* Land use decisions on public lands.
- \* Embryo transplant work on livestock.
- \* Riparian zone management.
- \* Faster grading methods for alfalfa hay.
- \* Shrub development for rangeland planting.
- \* Low Input Sustainable Agriculture (LISA).

**Agricultural investigation** — The department's agricultural investigator has responsibility for the Animal Damage Control (ADC) program, including predator control, under the supervision of the deputy commissioner. The investigator also files administrative orders to violators of state rules, and with a newly developed reporting system, informs division directors about action resulting from hearings, often in the form of fines.

## 1992 Utah Farm Legislation

These agricultural bills passed during the early 1992 legislative session in Utah, affecting the



Miles "Cap" Ferry,  
Commissioner,  
Utah Department of  
Agriculture



Van E. Burgess,  
Deputy Commissioner,  
Utah Department of  
Agriculture

Hard work on the U.S. Savings Bond drive for state employees in 1991 won this handsome U.S. Treasury plaque for the department. Pictured are (l. to r.): Governor Bangerter, Treasury employee Nick Rodriguez, and UDA Commissioner Miles "Cap" Ferry.

operation of the Utah Department of Agriculture:

**H.B. 25 - Big Game Management:** Requires the Division of Wildlife Resources to prepare big game management plans stating herd size and carrying capacity of the land. Plan is to seek balance with other land uses. Plans due for elk by May 1, 1994, and for deer by May 1, 1996.

**H.B. 42 - Farm Truck Emission Inspection:** Defines farm trucks, including pick-ups, to halt abuses by non-farmers in counties requiring such inspections.

**H.B. 56 - Utah Dairy Commission:** Continues the legal authority of the Commission, adds a representative of the Dairy Wives' Association, and limits tenure of commissioners to three terms.

**H.B. 118 - Swine Amendments:** Amends law to require that garbage fed to swine must be boiled at least 30 minutes. (Previously law referred to temperature inappropriate at Utah's altitude.)

**H.B. 138 - Unlawful Release of Animals:** Amends law which makes it a Class B misdemeanor to release commercially grown fur-bearing animals unlawfully; triples liability for conviction.

**H.B. 218 - Utah Horse Commission:** Establishes a five-person horse commission in the Utah Department of Agriculture to oversee this fast-growing industry; will sanction Utah races.

**H.B. 257 - Veterinary Licensing Act Amendments:** Amends licensing act to allow non-surgical bovine artificial insemination and non-surgical bovine embryo transfer to be performed by trained technician. If prescription drugs are used, it must be

under direction of a licensed veterinarian. (Amendments were agreed to by Utah veterinarians.)

**H.B. 297 - Soil Conservation Program Amendments:** Adds a member to the Agricultural Advisory Board from the Utah Association of Conservation Districts, defines alternate, and provides that alternates receive per diem pay for attending meetings.

**H.B. 362 - Equine Liability Limitation Act:** Enacts limitations on liability for equine activities including shows, fairs, races, sales, etc., and provides exemptions if reasonable and prudent efforts are made to protect the public.

**S.B. 7 - Changes for Instream Flow:** Allows the Divisions of Parks & Recreation and Wildlife Resources to receive or purchase already appropriated water rights for certain instream flow uses. Agriculture is protected in that the divisions do not have eminent domain and cannot file on unappropriated water. Extra flow is restricted to specified areas.

**S.B. 22 - State Land Board Amendments:** Sets up a nine-member nominating committee from education and user groups, which will submit a list of three to five candidates for the governor's consideration for each board position.

**S.B. 45 - Farmland Assessment Act Amendments:** Clarifies provisions and tightens exemptions to prevent abuse. Requires that exempt land produce at least 50 percent of average production on that type of land. Excludes exemption when surface improvements in place are non-agricultural, such as curb, gutter or pavement.

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*"H.B. 218 establishes a five-person Utah Horse Commission to oversee this fast-growing industry."*

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## Information

Several agricultural issues and campaigns consumed a considerable amount of the department information officer's time during the past year. These included:

**Grazing fees on public rangeland** — Continued pressure from environmental interests required careful attention to avoid having Western cattle and sheep forced off public grazing lands. Several congressmen campaigned, for the third or fourth year in a row, to sharply increase grazing fees as a way of ridding public lands of livestock.

Passage of laws calling for steep fee increases would put many Utah cattle and sheep ranchers out of business and have a disastrous effect on all of rural Utah. The information officer wrote news releases, letters and columns aimed at defeating the

bills and keeping the present grazing fee formula, which is working well.

**Animal rights movement** — Another threat to Utah's animal agriculture is this attempt to eliminate human use of meat, dairy foods, and other animal products and by-products. Animal rightists demonstrated at fur sales, rodeos, fairs and other events, protesting the "exploitation" of animals. Utah citizens appear to approve the wise, humane use of animals more than in other places.

**Riparian and wetlands areas** — This information campaign defended the right of a state, not the federal government, to administer its own water rights and manage its own natural resources.

Other UDA information work included exhibits, agricultural information in schools, etc.

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- News releases
  - Publications
  - Newsletters
  - Exhibits
  - Speech writing
  - Ag education
  - Radio/TV
- 
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# Administrative Services

Providing financial support to all divisions within the Utah Department of Agriculture is a primary function of the Division of Administrative Services. In providing this service, the division insures that all financial transactions are processed according to state policies and procedures, and within budgetary guidelines.

The division is also responsible for establishing department policies and procedures for internal control of state assets, for centralized data processing services, and for human resource management services.

Major areas of activity for the division are the following:

- **Budget** — A program for budget preparation introduced a year ago has proven very successful. Its foundation is a PC version of the budget preparation system provided by the state Office of Planning and Budget. With this software, each division director in the Utah Department of Agriculture can become more involved in the overall budget process. The system yields more information than earlier reports did about each division's programs.

- **Personnel and payroll** — The departmental classification review was completed this past year. The human resources analyst spent many hours in the field and in department headquarters experiencing and interviewing UDA personnel in several of our programs. The results of the study were favorable in reclassifying 44 percent of our employees. Also, the U.S. Department of Labor did an intensive review to enforce FLSA standards and insure that employees are being compensated fairly.

Training for GRAMA (Government Records Access Management Act) is being provided to department employees. GRAMA is a comprehensive new law dealing with management of government records, with who is entitled to access to those records, and with the exercise and enforcement of access rights.

It is an attempt to balance three factors: (1) the public's constitutional right of access to information concerning the conduct of the public's business, (2) the individual's constitutional right of privacy in relation to personal data gathered by government agencies, and (3) the public policy interest in allowing a government to restrict access to certain records for the public good.

Quarterly employee meetings have featured health, safety, and other topics.

- **Purchasing and other finance and accounting functions** — Adopting a dual accounting system has saved many hours of reconciliation between

department and state budget personnel, with a resulting saving in labor costs. Year-end closing, formerly a painful process, has been much smoother.

A new electronic system for writing checks allows payment within a few days instead of the process taking several weeks. A centralized cashing plan has been instituted to provide better internal control of money, and a new program makes daily deposits more efficient.

The division reviews all grant proposals and applications for accuracy, then tracks expenditures for each grant and files the necessary financial reports.

- **Data processing** — The Utah Department of Agriculture is the smallest state agency to have a data processing Internal Service Fund, which allows the collection of depreciation for buying new equipment from the department's own funds. With the recent purchase of a Local Area Network (LAN) system, the entire department has access to advanced technology for better service to the public.

- **Licensing** — This section uses a self-mailer for all licensing renewal notices and license certificates, which saves many hours of manual labor tearing copies apart and stuffing envelopes.

- **Contracts and administrative rule-making** — Processing of contracts in a timely and efficient manner has been emphasized to help division directors perform their responsibilities.

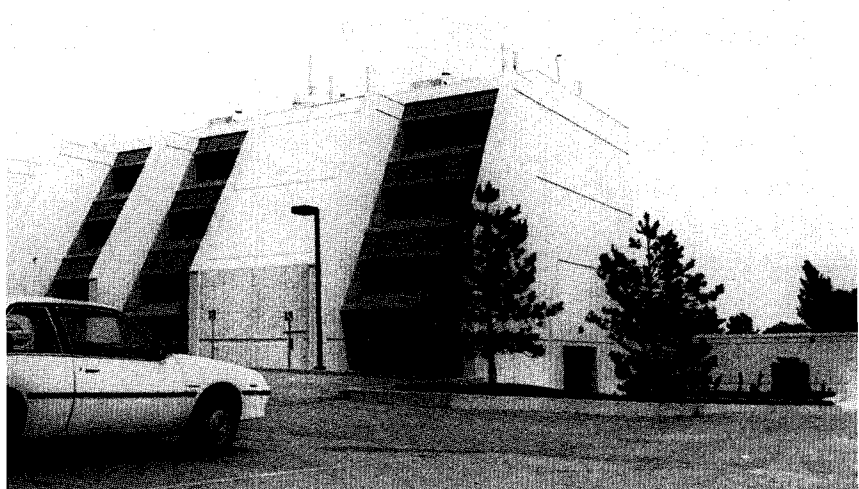
- **Miscellaneous services** — The newly adopted practice of using Central Services for mailing both outside mail and Capitol mail is saving the division about three hours of labor a day. Central Services is also handling the department's motor pool functions.



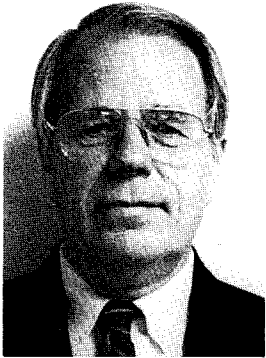
Renee Matsuura,  
Director of  
Administrative Services

- 
- *Budget services*
  - *Personnel services*
  - *Purchasing*
  - *Accounting*
  - *Grants*
  - *Data processing*
  - *Licensing*
  - *Rule-making*
  - *Miscellaneous*
- 

The accounting for every activity in the UDA building falls to Administrative Services. (New chemical storage building is at right.)



# Agricultural Development & Conservation



**James G. Christensen,**  
Director of Agricultural  
Development and  
Conservation

Agricultural Development and Conservation is comprised of several sections working in various ways to help improve the economic strength of Utah's farmers and ranchers, while also helping to conserve and preserve the quality of the state's natural resources.

## SOIL CONSERVATION

The soil conservation section works with Utah's 39 Soil Conservation Districts (SCDs) and other groups to help solve problems caused by soil erosion and water pollution.

Every year the division helps sponsor the Utah Conservation Field Day. The eighth such event took place in mid-June 1992 in San Juan county. This year's tour highlighted agricultural and industrial conservation and resource management.

Local conservation districts already have strong relationships with the landowners in their districts, but it is the goal of the division to help the SCDs succeed with their duties and strengthen those relationships even further. SCDs have an important impact on keeping Utah's land productive and our water clean.

The soil conservation section also works with other state and federal agencies to administer portions of the 1990 national farm bill.

## WATER QUALITY

The Environmental Quality Section administers Utah's non-point-source water pollution control and prevention program, which is funded jointly by a federal grant from the Environmental Protection Agency, by matching funds from state and local

government agencies, and by private sources such as foundation grants.

The program is divided into several parts: watershed management projects, which are usually on-the-ground conservation efforts; ground water monitoring, which is a combination of education and monitoring; and information and education, which is a combination of public information, including newsletters, brochures, videos, slide shows, etc., and school and adult education.

The state's non-point-source program was placed in UDA because agriculture has been identified as a major contributor to NPS pollution. However, in recent years it has become apparent that urban and residential sources of human-induced NPS pollution are a significant part of the problem.

All three elements of the program look at best management practices (BMPs) to control the spread of NPS. Those practices include judicious use of household chemicals, lawn and garden fertilizers, and agricultural pesticides, and proper lawn watering and crop irrigation techniques.

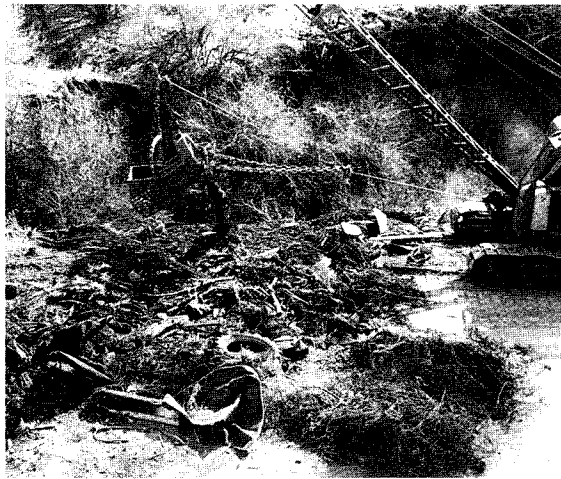
In federal fiscal year 1992, Utah's non-point-source pollution program will be awarded more than \$500,000 in EPA money to continue its efforts. These efforts include hiring a consultant to work with the Utah Association of Conservation Districts to help strengthen the water quality component of their grass-roots information and education efforts. The money will also fund a new newsletter on conservation and water quality issues, to be published jointly by UACD and UDA.

Below is a list of projects funded for FY 92:

- *Soil conservation*
- *Water quality*
- *Agricultural Resource Development Loans (ARDL)*
- *Rural rehabilitation loan program*
- *Research grants*

| Funded Activity                     | Grant        | Match       | Total        |
|-------------------------------------|--------------|-------------|--------------|
| Little Bear River Watershed         | \$120,000.00 | \$80,000.00 | \$200,000.00 |
| Otter Creek Watershed               | 47,000.00    | 31,333.33   | 78,333.33    |
| Chalk Creek Watershed               | 22,000.00    | 14,666.66   | 36,666.66    |
| Rabbit Gulch Watershed              | 15,000.00    | 10,000.00   | 25,000.00    |
| Riparian Appraisal Program          | 20,000.00    | 13,333.33   | 33,333.33    |
| Sustainable Agriculture R&D         | 8,000.00     | 5,333.33    | 10,333.33    |
| Water Quality Monitoring            | 178,000.00   | 118,666.66  | 296,666.66   |
| Ground Water                        | 15,000.00    | 10,000.00   | 25,000.00    |
| SCD Water Quality Coordinator       | 25,000.00    | 16,666.66   | 41,666.66    |
| Statewide Direction and Information | 79,410.00    | 52,490.00   | 131,000.00   |
| Conservation Newsletter             | 9,000.00     | 6,000.00    | 15,000.00    |





Cleanup projects such as this one in Utah's McMurdie Hollow will result in both soil conservation and improved water quality.

### AGRICULTURAL RESOURCE DEVELOPMENT LOANS (ARDL)

This low-interest loan fund is administered by the Utah Department of Agriculture through the Agricultural Development and Conservation division. The purpose of the loan fund is to help Utah farmers and ranchers implement soil and water conservation practices to protect and preserve Utah's vital natural resources.

Last year, after four consecutive drought years had taken their toll, the legislature appropriated \$1.3 million in ARDL funds. This year, with a special appropriation to the Rural Rehabilitation Loan program to help severely depressed operations, new money for the ARDL program was held to a minimum. The 1992 ARDL appropriation from the legislature was \$190,000.

The ARDL fund now has more than \$19.6 million in total assets and, to this point, has funded more than \$29 million in improvement projects over the years.

### RURAL REHABILITATION LOAN PROGRAM

The legislature made a special appropriation in 1992 of \$1 million to help struggling farmers and ranchers hit hard by five years of drought and depressed prices and higher operating budgets in the turkey and mink industries.

The division will be able to make loans using some of the same principles established for ARDL. The loans are at a 3-percent interest rate, and sufficient collateral must be put up against the loan. However, because these loans are to operations hit the worst by hard times, the Farmers Home

Administration will guarantee 90 percent of each loan's value.

The special 1992 appropriation will be available starting in July 1992.

### RESEARCH GRANTS

State appropriations for research are coordinated by the Agricultural Development and Conservation Division, with grants going to researchers for a variety of projects. Many of the projects funded this past fiscal year were performed at Utah State University. Funding again this year included several biotechnological projects aimed at improving plant and animal genetics to build in disease resistance, faster growth and other benefits. Projects which look at rangeland improvement and maintenance, and the economic impacts of public land use policies were also funded.

Some key projects include:

- Biotechnology Center
- Riparian zone management
- Range improvement and maintenance
- Vaccine for swine
- Low-input sustainable agriculture (LISA)
- Forage crop improvement
- Wetlands plants.

The division not only tracks the funds to be sure the research is moving ahead; it also works to put the scientific findings into effect on Utah's farms and ranches, with the help of the department's plant and animal industry divisions, Utah State University's Cooperative Extension Service, and others.

This year's grant allocation totals \$175,000. The use of this money has made a big impact on Utah's agricultural revenues and on reducing costs on the state's farms and ranches.

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*"The use of this [research] money has made a big impact on Utah's agricultural revenues and on reducing costs on the state's farms and ranches."*

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UDA-sponsored research on range improvement, coupled with ARDL loans, can yield results such as this. Grazing land at left has been improved and reseeded.



# Animal Damage Control



**James Winnat,  
State Director,  
Animal Damage Control**

Utah sheep producers lose about 10 percent of their animals to predators every year, and cattlemen suffer about -- percent in losses to coyotes, mountain lions, bears, and other predators. Annual livestock losses to predators in Utah run about \$3 million, even with a control program in place.

To help reduce this drain on the state's economy, the U.S. Department of Agriculture and states with predator problems conduct a cooperative program called Animal Damage Control (ADC).

Utah's program, which includes 18 state hunters and 16 federal employees, is held up as a model of cooperation all over the nation.

The program is financed jointly, with the federal government paying about half and state government and livestock owners paying the balance. In Utah, livestock owners pay a fee -- nicknamed a "head tax" -- fixed by state law. The amount depends on the type of animals they produce; sheepmen pay 59

| Predator Causing Loss | Total Head Lost      |                     |               | Value of All Losses (Dollars) |
|-----------------------|----------------------|---------------------|---------------|-------------------------------|
|                       | Lambs Before Docking | Lambs After Docking | Sheep         |                               |
| Dog                   | 300                  | 2,100               | 1,500         | \$ 251,600                    |
| Coyote                | 8,700                | 16,600              | 5,800         | 2,006,000                     |
| Eagle                 | 1,200                | 200                 | 0             | 90,300                        |
| Bear                  | 100                  | 900                 | 600           | 103,200                       |
| Mountain Lion         | 1,400                | 3,600               | 1,900         | 445,100                       |
| Other                 | 1,700                | 800                 | 500           | 193,500                       |
| <b>TOTALS</b>         | <b>13,400</b>        | <b>24,200</b>       | <b>10,300</b> | <b>\$3,089,700</b>            |

Total of 47,900 sheep lost out of 480,000 total = 10%



**This coyote (left foreground) and one or two hunting companions killed 13 valuable replacement ewes, including the one shown, before an ADC hunter shot the offending coyote from a plane. The other predators kept on killing sheep. The ADC official shown and the photographer were working on the ground nearby when this incident occurred.**

cents per ewe for all animals not in year-around confinement, cattlemen pay 25 cents per breeding cow, and turkey owners pay 10 cents per breeding hen. A 16-cent assessment for lamb and wool promotion is included with sheep payments, bringing the total amount billed to 75 cents per ewe.

The objective of the program is to keep livestock losses to predators to a minimum on private, state and federal land. ADC carries out this objective by removing predators when they cause damage by trying to take only the offending animals.

Methods used to control coyotes include aerial hunting in both fixed-wing planes and helicopters,

calling and shooting, trapping, denning, and M-44's (cyanide ejectors which are selective to offending canines).

Other predators that are a serious problem to livestock are cougars and bears; these state-protected predators are taken after their kills are confirmed to insure that the offending animals are the only ones taken. Methods used to take bears and cougars include dogs, traps and snares.

A new state law allows partial payment to livestock owners for confirmed losses caused by bears and cougars.

Predator control work is understandably controversial, and in several areas of Utah, ADC work plans have been temporarily halted until a court hearing is held. Dixie National Forest and Fish Lake are two such places.

A classic case, though, developed late last year in the Vernal District of the Bureau of Land Management (BLM), which manages most of the federal land leased to ranchers for grazing. A Utah environmental group appealed the district work plan, and was granted a stay of lethal control methods on Vernal district BLM land. With only non-lethal control methods -- including guard dogs, noisemakers, and strobe lights -- being used on federal grazing lands, sheep losses greatly increased.

Officials analyzed confirmed predator losses in sheep for the three winter months affected by the postponement of lethal control. The study revealed that predators killed about four times as many sheep and lambs this past winter as in two of the previous three winters and more than eight times as many as in the winter of 1989-90.

Even with ADC taking 4,347 coyotes, 16 bear, and 36 cougars in 1991, the losses were still crippling; without this program, what might losses be?

*"Annual livestock losses to predators in Utah run about \$3 million, even with a control program in place."*

# Animal Industry

Work of the Animal Industry division of the Utah Department of Agriculture falls into four main bureaus or categories:

- (1) Animal health, with special attention to animal diseases which can be transmitted to humans.
- (2) Serology laboratory testing of animal blood for disease detection and control.
- (3) Meat and poultry inspection to assure consumers of wholesome products.
- (4) Animal identification (brand registration and inspection) to discourage livestock theft.

The division also works with the state's aquaculture industry to help with problems of food fish production and processing.

Major accomplishments in these areas during the past year were as follows:

● **Animal health** — Perhaps the best animal health news for Utah's livestock industry coming out of the Utah Department of Agriculture during the past year was the continued legislative support given to the new animal disease laboratory. All the preliminary studies and value engineering are funded and under way due to the legislature's approval of the necessary funds.

Modern facilities costing \$5 million will help prevent animal diseases and human diseases caused by animals. The old lab, located in the heart of the USU classroom area, posed health and traffic problems. While UDA will supervise the Logan facility (as well as the animal disease lab in Provo), USU will staff the new building.

A buffalo on Antelope Island was identified as a brucellosis suspect and was later cultured positive for field-strain brucellosis. This has led to a follow-up test of the whole herd early in 1992, which revealed three reactors and six suspect animals. A current epidemiology study and further testing is currently underway in cooperation with the Division of Parks and Recreation, which manages the Antelope Island herd.

Quality assurance programs have been developed for the beef and dairy industries, and training and implementation are now under way. These programs are designed to assure the public of the safety of these food products and their freedom from antibiotics and other contaminants.

Division employees have implemented the federal pseudorabies program for the swine industry and have achieved Stage IV status. Reaching Stage V will mean the state is pseudorabies-free!

The National Scrapie Negotiated Rulemaking Committee has finished its recommendations for the sheep industry. Dr. Michael R. Marshall was

one of the members of this important committee.

Heartworms in dogs have continued to increase and may be attributable to a new variety of mosquito recently identified as now living in some areas of Utah (*Aedes sierrensis* or "Treehole mosquito"). A study in cooperation with mosquito abatement personnel is now under way.

Division veterinarians met on a regular basis with the state's livestock enterprise groups and farm organizations, veterinary associations and other livestockmen.

They also reviewed 5,745 import health certificates for animals in 1991, working closely with the ports of entry to be sure animals coming into Utah had proper inspection certificates. These activities generated 11 citations which resulted in collecting \$696 in fines and, more importantly, in correcting deficiencies on incoming health requirements.

● **Serology laboratory** — Testing for brucellosis was again the major activity of this lab. Of 69,102 tests run last year, 59,449 were brucellosis blood tests and 8,399 were ring tests on milk to prevent this disease, which has serious implications for humans. The lab also dispensed nearly 140,000 doses of brucellosis vaccine in helping maintain Utah's coveted brucellosis-free status.

The balance of the tests run by the lab last year were for a variety of other animal diseases and for vaccine viability.

Iowa State University is working on developing a new heat-inactivated BRT test, and the serology lab worked with them by providing BRT suspect samples.

During the year, the lab issued 2,000 import permits as part of the effort to regulate imported livestock and other animals, including rare birds.

Total brucellosis vaccine dispensed in 1991 was 136,610 doses.

● **Meat and poultry inspection** — In October



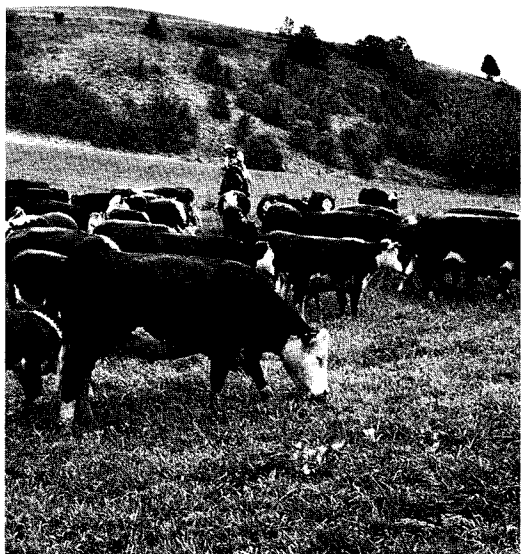
Dr. Michael Marshall,  
State Veterinarian and  
Director of  
Animal Industry

- 
- *Animal health*
  - *Serology laboratory*
  - *Meat and poultry inspection*
  - *Brand inspection*
- 

As animal health and nutrition improve through better disease control, Utah's sheep industry may rebound from years of decline in numbers.



**Better protection for livestock on the range is a benefit of improved equipment and techniques for Utah's brand inspectors.**



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*"[Brand] inspectors are now being asked to travel the back roads more often. This program . . . has really added to the prevention and detection of livestock theft."*

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1990, the department's request to re-establish poultry inspection in Utah was granted, adding the word "poultry" to this bureau's name. This addition had a big impact on the program. Everyone is aware of the impact poultry has had on consumers during the past ten years, when a majority of poultry was consumed at Christmas and Thanksgiving, and at Sunday dinner.

By receiving poultry inspection once again, the state-inspected plants were given the opportunity to process and sell a variety of poultry products in Utah. Prior to that, only federally inspected plants could slaughter and process poultry products. Several state plants that could meet minimum requirements were granted poultry inspection in 1991. This was a great boost – now state plants had another way to generate revenue, plus provide a service to consumers in the way of poultry products.

Three plants were granted state inspection last year. Two came under official inspection, requiring full-time inspection service. The other plant was a custom-exempt plant, which prepares products for individuals and is monitored monthly.

Because of the growth and complexity of the meat industry and the meat inspection program, the bureau puts a lot of emphasis on training. Most of the inspectors are PBIS-trained (Performance-Based Inspection System, a computer-generated schedule of inspection tasks that an inspector performs on a daily basis in the plant to which he or she is assigned).

HACCP (Hazard Analysis, Critical Control Point) training has also been given. This program identifies a critical control point during meat and poultry processing, usually when the product is most likely to become contaminated or adulterated during processing. This program will be implemented nation-wide in the future.

Utah inspectors have also been enrolling in a Food Tech program. This program consists of nine different classes taught on Saturday by Utah State University at the UDA building, with actual college

credit hours given. This excellent program especially designed for meat inspection, deals with sanitation, quality control, plant engineering, and control of microorganisms in a plant.

A number of Utah inspectors are taking other training courses to upgrade their skills.

1991 was a good year for the Utah meat industry. One plant completed a \$2-million addition and another added 10,000 square feet of space. Two other plants submitted expansion plans for approval. During the year, several potential plant owners inquired about the requirements for opening a state-inspected plant.

● **Animal identification** — What is being applauded as one of the finest brand books in the nation rolled off the press in May 1991. It contains the record of some 22,000 cattle, horse and sheep brands and earmarks. It is also the first brand book published in the U.S. that contains both the addresses and phone numbers of the brand owners. The brand book is on sale at the department for \$25.

The publication was the culmination of a year of hard work in which a new department brand program (including computerized brand artwork) was developed and the animal identification bureau was connected to the new local area network (LAN) system at the department.

No longer on file are the old rubber stamps of brands (which had been around almost as long as the branding iron itself). In the past, these stamps were used in publishing the brand book. Last year each individual renewing a brand was given the opportunity to buy his stamp at a minimal cost to have as a keepsake in coming years.

Individuals coming to the UDA building for the first time since September 1991 may be surprised to find the Brand Bureau has been moved to the third floor to be closer to the rest of the Animal Industry division.

In an effort to provide even more protection to the livestock industry, all of the full-time brand inspectors have now been placed in 4 x 4 pickup trucks, and a summer and winter range surveillance program is in place. Inspectors are now being asked to travel the back roads more often. This program coupled with the joint effort of other law enforcement agencies across the state, has really added to the prevention and detection of livestock theft.

A new baby dairy calf self-inspection program has been under discussion during the past year. Due to go into effect in July 1992, this program is designed to give the dairymen of the state the protection needed for young non-branded calves

# Chemistry Laboratory

Utah's state chemistry laboratory, a division of the Utah Department of Agriculture, protects both consumers and agricultural producers. To do this, the lab performs various analyses to be sure that food and feed products are wholesome, free of unlawful additives or residues, and in conformity with label claims

Besides conducting analyses for UDA, the lab has a contract to perform analyses on meat and meat products for the state of Montana. Fees charged for this work totaled \$1,250 last year.

As a result of new testing equipment purchased for the lab in recent years, increased workload, faster turn-around time, and greater quality control have only required the addition of one employee. Most of the increased analyses have been in water quality testing — mainly in analyzing pesticide residues in groundwater. Because of hard work and effective communications with the EPA Region Eight laboratory, the Utah lab received \$10,000 to fund the purchase of a drying oven, a homogenizer, and a water-purifying system for sample preparation.

The main categories of work in the chemistry laboratories are evident in this comparison:

| Type of Analysis             | 1990          | 1991          |
|------------------------------|---------------|---------------|
| Commercial fertilizer        | 1,129         | 941           |
| Commercial feed              | 933           | 906           |
| Pesticide formulations       | 263           | 295           |
| Pesticide residue            | 480           | 400           |
| Pesticide residue in milk    | 7,488         | 8,640         |
| Groundwater                  | 2,240         | 1,140         |
| Federal & state meat         | 2,145         | 1,583         |
| State meat                   | 1,193         | 1,359         |
| Montana meat samples         | 65            | 100           |
| Dairy bacteriology lab       | 20,796        | 23,713        |
| Textile, bedding, upholstery | 242           | 275           |
| Special samples              | 116           | 114           |
| <b>TOTAL</b>                 | <b>37,090</b> | <b>39,466</b> |

Because of the increased workload in testing groundwater for pesticide residues, the lab used for that purpose has been enlarged and remodeled.

In pesticide residue testing of groundwater, about eight samples are tested each month for 38 different pesticides in four different pesticide groups. Each pesticide requires a separate analysis.

**Chemical storage building**—Another building project which took place in 1991 and early 1992 was a chemical storage building constructed just northeast of the UDA building. The one-story structure will relieve congestion caused by storage of new chemicals and chemical waste in the laboratory. The Utah Department of Health also has a storage area in the building.

**Laboratory assignments** — Two separate laboratories actually make up the division, the chemistry laboratory and the microbiology laboratory. The first handles the analysis of meat and meat products and runs tests on feed, fertilizer and pesticide samples (for licensing, not for residue in milk and water).

The microbiology lab handles analyses of milk and dairy products and does water testing. It also runs analyses for the department's Food and Dairy division. This includes testing raw milk for somatic cells, bacteria count, and the presence of antibiotics. In addition, it runs SPC and coliform tests on processed milk. When a problem is suspected on a dairy farm, this lab also tests for butterfat.

**Improvement program** — Several programs are in place in the chemistry laboratories to continually upgrade performance. For several years, the chemists have had an opportunity to rotate jobs within the lab, which gives them experience on different types of analysis. In addition to the analytical work reported above, another 395 analyses were performed last year on various check sample programs. These are nationally administered test programs to help laboratories check their techniques and, if necessary, make corrections.

The UDA laboratories take part in check sample programs for feed, fertilizer, pesticides, meat and dairy testing. In one recent year, Utah's laboratory placed first in the nation among 190 participating facilities in feed-testing accuracy.

In 1991, the lab staff developed and initiated the analysis of glyphosate (Roundup) in soil and plant materials. It is studying the use of supercritical fluid extraction for pesticide sample analysis in soil, plants, and other agricultural products.

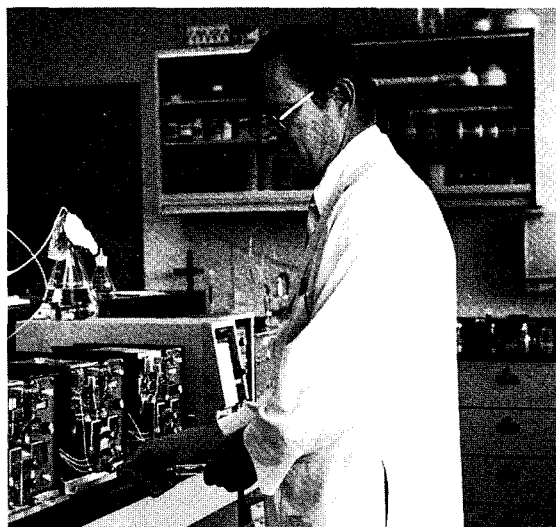


Ahmad Salari,  
State Chemist

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*“As a result of new testing equipment purchased for the lab in recent years, increased workload, faster turn-around time, and greater quality control have only required the addition of one employee.”*

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Adding equipment has allowed the personnel in the chemistry laboratory to become more efficient. Analyses take less time, thus shortening turn-around time for reports.

# Food and Dairy



**Kyle Stephens,**  
Director of  
Food & Dairy

Primary responsibility of the Food and Dairy division is to protect public health and safety by assuring consumers of clean, safe, wholesome, properly labeled food products. A group of well-trained compliance officers and graders carried out that function in six areas of responsibility.

- **Food program** – The goal of this section is to obtain voluntary compliance by educating the industry as to Utah’s laws and rules pertaining to food through careful inspections by well-trained compliance officers. We inspect facilities where food products are manufactured, canned, processed, packaged, stored, transported, prepared, sold or offered for sale.

Division employees performed the following food inspections in 1991:

| <u>Type of Establishment</u> | <u>Total Number</u> | <u>Inspections Done</u> |
|------------------------------|---------------------|-------------------------|
| Bakeries                     | 234                 | 298                     |
| Grain mills                  | 13                  | 14                      |
| Grocery stores               | 962                 | 1,118                   |
| Food processors              | 271                 | 253                     |
| Meat                         | 254                 | 358                     |
| Warehouses                   | <u>260</u>          | <u>268</u>              |
| <b>TOTAL</b>                 | <b>1,994</b>        | <b>2,395</b>            |

To prevent food that was misbranded or adulterated from moving into commerce, the division issued 24 hold orders during the year involving 68,952 pounds of food. About 5,000 pounds of adulterated food was voluntarily destroyed in 22 different establishments.

Normally, the division can work out matters with the offending establishment without legal action. In two cases during the past year, however, civil action in the form of administrative orders resulted in one company going out of business and the other paying \$5,000 in civil penalties.

Boutiques have gained a great deal of popularity in Utah, and homemade food products are sold at many of them. The division conducted investigations that resulted in four Cease and Desist letters being mailed to individuals manufacturing food products in their homes. One out-of-state company was selling dried soup mixes containing meat, according to the label. All sources voluntarily complied with Utah regulations.

During 1991, the food program received Food and Drug Administration money to conduct two studies on shellfish and on Hazard Analysis Critical Control Point (HACCP) inspection at meat markets.

Compliance officers sampled shellfish for bacterial violations at various locations, including restaurants and retail stores. All samples met FDA

standards, assuring buyers of quality products.

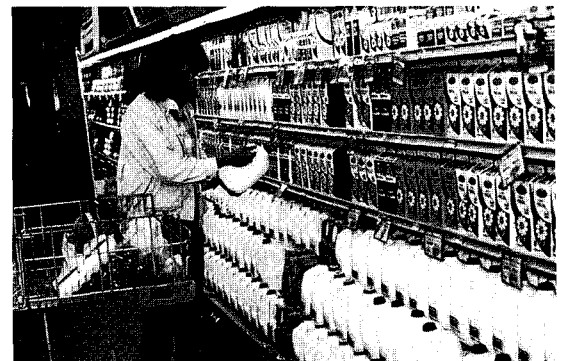
In the second study, employee hygiene was the outstanding violation, mostly insufficient washing of hands during food-handling processes.

- **Dairy program** – Over the last year, the division continued to work with education program concerning animal drugs and the proper labeling, storage, and use of those drugs on the dairy farm.

During 1991, federal rules were changed to require the testing of every bulk tank of milk prior to processing. Industry is responsible for conducting the tests, and UDA will monitor the program which went into effect January 1, 1992.

As of July 1, 1992, any producer found to have drug residues present in his or her milk has the Grade A permit suspended. Before reinstatement the producer must complete a ten-point education program between the dairy producer and the practicing veterinarian on the farm.

Another important change in the pasteurized milk ordinance in 1991 lowered the level of somatic cell counts allowed in milk, starting next year. This



**New testing procedures assure consumers of the absence of any drug residues in the milk they buy.**

is another step to assure safe milk at the store.

Grading dairy products required significantly more time in 1991 on the part of the Food and Dairy division staff. Employees graded 6.7 million pounds of processed cheese, and increase of nearly 30 percent over the previous year.

Butter-grading increased 100 percent in 1991 over 1990, with 4.6 million pounds being graded. The division also checked and certified 3.8 million units of shelf-stable milk.

Last year the division received three additional requests for USDA approval of cheese plants bringing the total in Utah that qualify for USDA certification to seven.

Types and numbers of inspections in the dairy industry in 1991 were as follows:

- 
- *Food inspection*
  - *Dairy inspection*
  - *Egg and poultry grading*
  - *Meat compliance*
  - *Label evaluation*
  - *Administrative orders*
-



| Type of Business    | Total Number | Inspections Done |
|---------------------|--------------|------------------|
| Grade A farms       | 480          | 1,846            |
| Manufacturing farms | 165          | 470              |
| Dairy processors    | 30           | 89               |
| Raw to retail       | 6            | 44               |
| Milk haulers        | 73           | 82               |
| TOTAL               | 754          | 2,531            |

● **Egg and poultry program** – This program includes shell and retail egg grading; egg products inspection; fee grading; USDA destination poultry grading for the school lunch program; shell egg surveillance; and poultry grading.

Eggs are nutritious and low in price, but being perishable, they require special processing and handling. Utah has adopted the USDA standards for eggs, egg products and poultry. Without egg grading, eggs in the stores wouldn't meet standards established for the protection of consumers.

Inspectors from the division graded 23,100 cases of eggs in retail stores and 121,654 cases at the USDA plant in 1991. Some plant owners want the USDA shield on their egg containers to certify that the eggs have been graded under continuous inspection for quality and size. Those who request this service are required to pay for the necessary personnel. The division has employees who are licensed to provide such inspection.

Of the 256,162 (30-dozen) cases of eggs graded in Utah in 1991, only 2,130 cases were embargoed for being below USDA standards or having too many cracked, leaking or dirty eggs. The low percentage of embargoed eggs indicates the high degree of compliance with the shell egg law.

Egg products graded by division employees include dried, liquid and frozen eggs. Utah's one egg-breaking plant is under continuous inspection by UDA to see that safe, clean, sanitary conditions are met for receiving, refrigerating, washing, candling, sanitizing, breaking, pasteurizing, formulating and packaging the eggs. In 1991, a total of 182,840 cases of eggs were broken and pasteurized.

Two types of poultry grading take place in Utah. One is the grading of slaughtered turkeys at Utah's two turkey processing plants in Moroni and Salina. This work, done by USDA-licensed graders, assures consumers of products meeting federal quality standards. The other type of grading is done on turkeys and chickens going into the school lunch program. Such grading was performed on 493,327 pounds of poultry during 1991.

Shell egg surveillance work consists primarily of inspecting egg producers and handlers for

compliance with the federal Egg Products Inspection Act. This covers handling and disposition of restricted eggs — checks (cracked), leakers, loss eggs, inedible eggs and dirty eggs. Some eggs, if sound and properly labeled, may be used at a breaking plant; others must be denatured and destroyed or diverted to animal feed.

● **Meat compliance program** – This work is conducted cooperatively with USDA, which pays 50 percent of the program's costs toward the goal of ensuring that meat and poultry products are safe, wholesome, and properly labeled. During 1991, division compliance officers conducted 884 reviews of meat sources at restaurants, retail stores, warehouses, and all levels of trade. A close look was taken at pizza as it relates to meat inspection.

Responding to numerous charges of violations of the Meat and Poultry Inspection Act, compliance officers detained more than 28 tons of products and sent out 40 warning letters, with one court action.

● **Label evaluation** – Before a food processor can put a label on a new product or change the label on a current one, UDA must approve the label's language and design. In 1991, the division evaluated more than 110 labels under federal guidelines.

The federal Nutrition Labeling and Education Act of 1990 will go into effect in early 1993 and will cause many changes in the division's procedures.

● **Administrative Orders** – The director of the Food and Dairy division acts as department hearing officer and oversees proceedings designed to give violators of the state agricultural code access to due process of law without tying up the judicial system.

During 1991, the hearing officer conducted eight informal hearings resulting in \$13,737.50 in civil penalties being levied.

Because the attorney general's office reviewed the department's procedures closely in late 1991, this program will change some in 1992 to assure that due process is achieved.

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*“Grading of live turkeys . . . assures consumers of products meeting federal quality standards.”*

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Utah is a major turkey-producing state, and Food and Dairy division poultry graders, during 1991, graded about five million turkeys weighing 89 million pounds.

# Marketing and Promotion



**Randy Parker,  
Marketing and  
Promotion Director**

Economic development for Utah production agriculture and the entire agribusiness complex is the goal of the Marketing and Promotion division. Expanding markets, both inside the state and outside – including overseas, add value to our state's agricultural products. The division helps develop new products and production methods and promotes in-state processing of agricultural products, strengthening local and state economics.

Work of the division falls into six key areas:

- **Buyer-seller communications** – Directories and commodity listings are provided by the division to help suppliers and buyers better communicate on needs. An annual hay directory lists all known buyers and sellers in the state, including location, tonnage, and marketing form (large bales, small bales, cubes or pellets).

Data is being gathered for a Utah food and agriculture suppliers' directory. It will list suppliers and the companies which process agricultural products. This information will assist the division in promoting new products and identifying market opportunities, especially overseas.

- **Market research** – Current information is made available on potential markets. Weekly trade leads are received from the U.S. Foreign Agriculture Service and made available to in-state producers and processors who might supply them. Products of interest include livestock, meat, hay, grain, fruits, and many more.

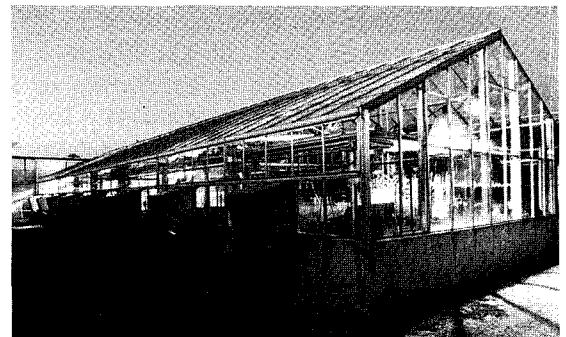
- **Government interface** – Expanding product markets nationally and internationally can require new certification, licensing and labeling. The marketing and promotion division is able to help expedite this process.

Federal monies are available through regional export associations and commodity associations to develop new markets, especially abroad. The division has helped Utah companies receive more than \$100,000 in USDA market promotion funds.

- **Product promotion** – Cooperative promotions, trade shows and industry tours are a few of the ways the division assists industry in selling Utah products. The "Product of Utah" program helps industry identify quality Utah-produced products for consumer preference. Cooperators who use the recognized logo on their packaging and advertising receive co-op money. The division is working with private industry to develop a Utah Products catalog that will be used to promote unique foods, crafts and other products produced and processed in Utah to a wide national audience.

- **Education** – The division works with industry to provide information on domestic and international marketing opportunities. In conjunction with USDA Foreign Agricultural Service and Western United States Agriculture Trade Association, the division sponsored an export seminar for food and agriculture companies. Those attending received valuable information on export opportunities and federal financial assistance for developing new markets.

The division director serves on the Governor's Task Force on Agribusiness Development that has spent the past 20 months identifying value-added market, and educational opportunities. The 14 member task force, working with about 250 representatives of the agribusiness complex, are identifying opportunities to: (1) add value to raw agricultural products, (2) find new markets, (3) develop better communications between producer and processor or user, and (4) focus state assistance



**Many greenhouses in Utah and elsewhere are now growing natural foods to meet the growing consumer demand for chemical-free vegetables.**

in productive areas. The result will be a stronger agricultural industry and rural economy in Utah.

- **Market news** – This section provides a valuable service to producers across the state and is part of a national market information network. Staff members monitor auctions, make personal contacts and use the telephone and national computer data wires to provide information on trade conditions, prices, and trends in livestock, grain, hay, fruits and vegetables. Information is then disseminated through newspapers, radio broadcasts, newsletters, television teletext, computer access, and telephone recording service.

Local market reporting has been enhanced by the addition of the Ogden Livestock Auction coverage by a certified market reporter. The value of the service is witnessed by the growth in the number of subscriptions to the section's weekly newsletter that summarizes market activity.

- 
- *Buyer-seller communication*
  - *Market research*
  - *Government interface*
  - *Product promotion*
  - *Food industry education*
  - *Market news*
-

# Plant Industry

With eight of Utah's 12 agricultural statutes administered by UDA's Division of Plant Industry, division staff members perform a wide variety of tasks. Their work falls under the following headings:

- **Entomology** — The state entomologist, who is an employee of UDA's Plant Industry division, administers the Utah Nursery Act, the Utah Bee Inspection Act, the Utah Insect Infestation Emergency Control Act, and several other insect-related services in the state.

Several insects were at the infestation level in Utah last year. Perhaps the most publicity was given to the battle against the gypsy moth. This pest is not only a nuisance in urban areas; it also causes severe damage to fruit and other hardwood trees and harms the watershed in such mountainous areas as Utah. After first being detected in the state in July 1988, gypsy moths have been the target of an intense trapping and spray program intended to wipe out the pest here.

More than 20,000 acres in Davis, Salt Lake and Utah counties were treated with an aerial spray, bacillus thuringiensis, in the spring of 1990 and nearly 30,000 acres were treated last year. Control has been so effective that only about 16,000 acres had to be treated this spring.

Another serious insect pest in Utah last year was the apple maggot. Since the detection and control program began in 1985, a total of 112,209 trees have been removed from uncared-for and abandoned orchards — about 18,700 trees a year. About 912 property owners are contacted every year on orchard spray management techniques. In 1991, some 15,000 traps were set out in the survey of adult apple maggots.

If this pest were not being controlled, Utah fruit growers would lose valuable markets in California and other states.

Grasshoppers and Mormon crickets came in for close attention and extensive control efforts again last year. During the control season of 1991, workers treated some 5,000 acres of Mormon cricket egg beds with carbaryl bait on BLM, Forest Service and state-owned land. Another 6,000 acres of grasshopper-infested rangelands were also treated.

When the 1990 adult grasshopper survey was completed late in August 1990, it indicated that Utah still has about 71,670 acres infested with grasshoppers and 147,260 acres with Mormon crickets requiring control efforts this summer.

Russian wheat aphid has spread rapidly in northern Utah since the pest was discovered in this

state in 1987. About 20,000 acres were treated in the fall of 1988, but in '89, five more counties were infested. Steady control efforts led to the treatment, last year, of fewer than 500 acres.

Bee inspection is another task supervised by the state entomologist. During 1991, UDA licensed 700 beekeepers with about 35,000 colonies of bees. Only 516 colonies were found to have disease problems; 500 of them were treated and 16 had to be destroyed. UDA's rigid inspection program has kept disease conditions under 2 percent.

The state conducts annual surveys for Varroa mites, and so far, none of these damaging pests have shown up in Utah.

The division also licensed 465 firms and individuals selling nursery stock in 1991. Employees also made 427 inspections for export shipment of plant products, checking them for proper labeling, condition of stock, and freedom from serious pests.

- **Fertilizer program** — Division inspectors made 1,233 inspection visits in 1991 to Utah establishments which sell fertilizers, a sharp increase over 1990. They took 374 samples for analysis by the UDA chemistry laboratory, and found 38 which failed to meet label guarantees. The division also registered 1,624 different fertilizer products from 236 manufacturers and licensed 26 fertilizer-blending operations.

- **Pesticide program** — Despite the need for Utah's and America's farmers and ranchers to produce plentiful supplies of food for domestic and overseas consumption, they face great pressure from environmentalists to reduce or eliminate the use of chemicals in food production.

Many of the division's pesticide activities are

**Hay, Utah's number one crop, is growing in importance as an export commodity. Plant Industry division inspectors check it for quality and content.**



G. Richard Wilson,  
Director of  
Plant Industry

- 
- *Entomology*
  - *Fertilizers*
  - *Pesticides*
  - *Seed inspection and testing*
  - *Grain inspection*
  - *Fruit and vegetable grading*
  - *Noxious weeds*
  - *Commercial feed*
- 



aimed at promoting the sensible use of safe chemicals. For instance, the division certified 3,299 commercial, non-commercial and private applicators during 1991 and recertified 2,110 others in 20 training sessions..

Division employees contacted 608 pesticide manufacturers, registered 6,478 products, and investigated then certified 112 new products on the market. They licensed 94 pesticide dealers and made 351 inspections at pesticide sales establishments, collecting 213 samples for chemical analysis. In 187 investigations of pesticide use, the inspectors found 101 violations.

Encouraging the control of noxious weeds in Utah, both on government and private property, is a function of the Plant Industry division.



● **Seed inspection and testing** – The department’s seed analysts and seed laboratory technician conducted tests in 1991 on nearly 3,000 seed samples submitted last year by UDA’s agricultural inspectors, seed companies, and other interested parties. They primarily checked for germination percentage, purity, and presence of noxious weeds, but they did other tests on request.

When samples were found to be inaccurately labeled, the seed was withheld from sale; nearly 7 percent of all seed tested fell into that category. In extreme cases, interstate violations are submitted to the Federal Seed Branch of the U.S. Department of Agriculture for prosecution; 65 such cases were turned over to the USDA in 1991.

During the same year, 2,597 inspections took place at 99 seed sales outlets. Of 1,931 seed samples tested and 5,793 laboratory analyses done, only 173 violations were found. Those samples represented more than two million pounds of seed.

● **Grain inspection** — The number of grain samples tested at UDA’s mechanized grain inspection facility in Ogden rose sharply in 1991 from the year before. Seed inspectors checked 33,725 samples last year compared to 20,798 in 1990. The samples were drawn from grain trucks

by a hydraulically operated probe and sent to the grading laboratory through a pneumatic tube. In the lab, testers checked moisture content, protein, foreign matter, and insect damage. They then issue an inspection certificate for the protection of both buyer and seller in case of a question about grain quality.

The volume of grain inspection work is influenced each year by a number of factors including weather conditions, government crop programs, and marketing situations.

● **Fruit and vegetable grading**— These are the figures on shipping point and cannery grading performed by the division’s agricultural inspector during the past year. (Bad weather and drought reduced the fruit harvest seriously in Utah.)

| <u>Type of produce</u> | <u>No. of Inspections</u> | <u>Pounds Inspected</u> |
|------------------------|---------------------------|-------------------------|
| Onions                 | 737                       | 27,098,750              |
| Brine cherries         | *                         | 370,183                 |
| Tart cherries          | *                         | 6,804,774               |
| Fresh cherries         | 29                        | 500,280                 |
| Peaches                | 0                         | (All frozen)            |
| Apples                 | 13                        | 463,192                 |
| Seed potatoes          | 42                        | 1,489,920               |

\* Too many to count

● **Noxious weed control program** — The division furnished leadership for this program in the counties, where county weed organization work to control noxious weeds.

In the past year, the 13 agricultural inspectors located in various parts of Utah made 1,403 visits and inspections throughout the state. They worked with state and federal agencies, utility companies, county weed supervisors and other county officials, private landowners and retail establishments in encouraging control work.

The division’s weed specialist and the inspectors also worked with Extension and research personnel at Utah State University to encourage the use of the most effective methods of controlling the more serious weeds.

● **Commercial feed program** — This activity involves inspection, registration, and sampling of commercial feed products. During the report year 4,295 feed products from 436 manufacturers were registered. As a result of investigations, 48 additional products were registered. Inspectors made 2,013 inspection visits to 513 establishments and collected 513 samples for testing. Of those, 48 were in violation due to incorrect labeling.

*“The number of grain samples tested at UDA’s mechanized grain inspection facility in Ogden rose sharply in 1991 from the year before.”*



# Weights and Measures

These four assignments spell out the responsibility of the Weights and Measures division to the citizens of Utah:

- (1) To inspect and certify all commercial weighing, measuring, counting and timing devices;
- (2) To inspect all food and non-food products sold in Utah to be sure the information on the label matches the contents of the package for weight and measure;
- (3) To verify that the contents and octane rating of motor fuels are as shown on the pump;
- (4) To inspect commercial sources of bedding, quilted clothing and upholstered furniture to be sure sales and repair services are properly licensed and that goods sold are properly labelled.

Besides carrying out the regular inspections required, division personnel follow up on numerous taxpayer complaints throughout the year.

To carry out its mission, the division operates in these eight areas:

● **General inspection** — Carrying out the first two assignments listed above is an endless job. Two huge areas of responsibility are checking packaging to see that labels accurately describe contents, and checking scanners in grocery, discount, department and other stores. Every item in every store is subject to such inspections. Division inspectors made 43,320 package checks in 1991.

With the purchase of scanner inspection equipment in 1990, scanner inspections hit an all-time high last year.

Added to label-checking is the need to inspect all small scales, gas pumps, and timing and measuring devices. Besides 10,125 gas-pump inspections in 1991, inspectors checked 713 various types of meters and 4,090 small and medium-sized scales across the state.

Continuing with a goal to check a wider variety of packaged goods, weights and measures inspectors found significant shortages and took appropriate action to correct the problems.

Fairness in firewood sales is an ongoing problem during fall and winter months. Just because a consumer orders and pays for a cord of wood doesn't necessarily mean a cord is delivered. UDA inspectors have found that when the wood is stacked carefully, the pile seldom measures 4 by 4 by 8 feet. Progress in that problem area was made when firewood dealers formed an organization to do self-policing of business practices.

Division employees urge the public to phone them about incorrect pricing, labelling, etc., at (801) 538-7159. They follow up on all complaints.

● **Large-capacity scales** — With the recent upgrading of the division's large-scale testing vehicles, division employees are able to perform more tests on large-capacity vehicle, belt and livestock scales in the same time as before with greater safety. Large-scale tests numbered 1,134 in 1991.

● **Propane meters** — These devices become inaccurate through normal wear and tear, and with the high volume of cash flow in propane sales, the division's single "volumetric prover" — one of only two such testing trailers in the state — was kept busy locating faulty meters.

● **Large-capacity petroleum and water meters** — Three provers or testing devices throughout Utah help inspectors test and certify refinery pumps, airport fuel trucks, water meters at cement plants, town water meters, and other large meters.

● **Metrology lab** — This lab, which houses the primary weight, length and volume standards for Utah, has recently undergone improvements which have brought the facility into conformity with state safety regulations.

● **Motor fuel lab** — This has been the area of greatest progress in the division during recent months. One of two research engines for gasoline octane testing was converted to the motor testing method so the lab can run official tests. The division is now able to run official tests for refineries and from service station samples.

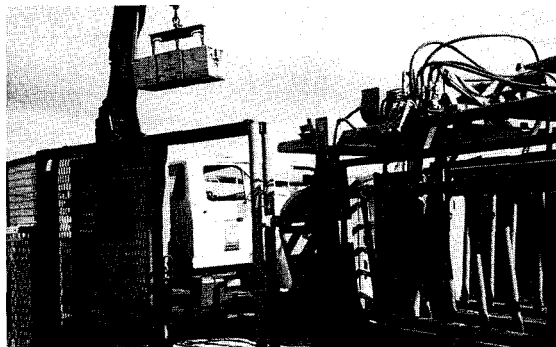
● **Milk tanks** — This testing is mostly done in response to requests from either dairy farmers or processing plants. The cold halts testing in winter.

● **Bedding, upholstered furniture, and quilted clothing** — Many items of quilted clothing and sleeping bags are being imported these days, especially by chain stores. This inspector has emphasized testing these items, reviewing labels, and checking for appropriate licenses. He also inspects upholstery shops to assure legality.



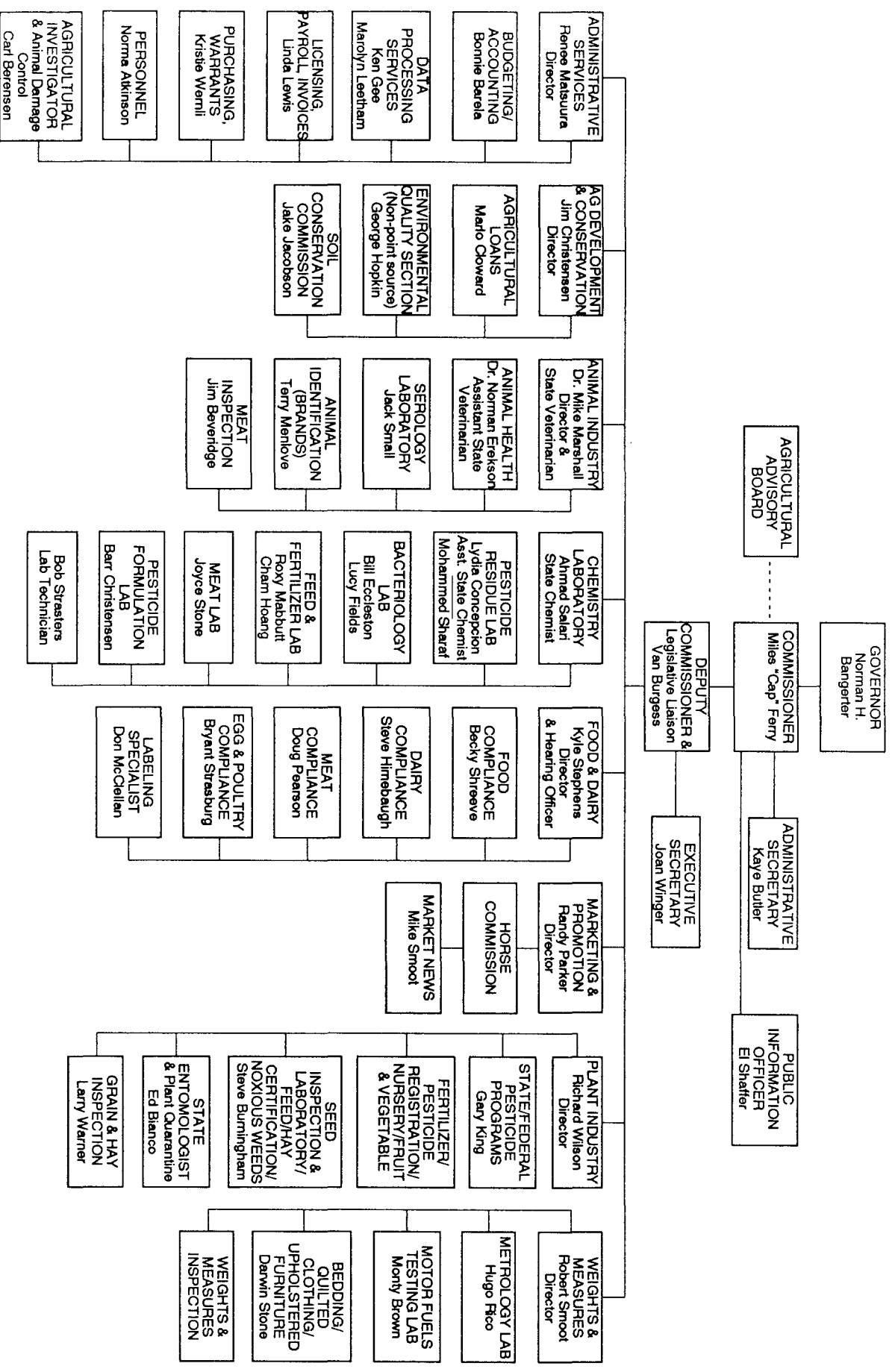
**Robert Smoot,**  
Director of Weights  
& Measures

- 
- *General inspection*
  - *Large-capacity scales*
  - *Propane meters*
  - *Large-capacity petroleum and water meters*
  - *Metrology lab*
  - *Motor fuel lab*
  - *Milk tanks*
  - *Bedding, quilted clothing, upholstered furniture*
- 



A weights and measures inspector checks the livestock scales used for weighing buffalo on Antelope Island in the Great Salt Lake.

# UTAH DEPARTMENT OF AGRICULTURE ORGANIZATION CHART



6/15/92



UTAH AGRICULTURAL STATISTICS - 1992

**POPULATION OF COUNTIES, Utah**

| County                | United States Census - 1990 |                |                        |                |                        |               |                        | July 1,<br>1991<br>Est. <u>1/</u> |
|-----------------------|-----------------------------|----------------|------------------------|----------------|------------------------|---------------|------------------------|-----------------------------------|
|                       | Total<br>Population         | Urban          |                        | Rural          |                        |               |                        |                                   |
|                       |                             | Total<br>Urban | Percent<br>of<br>Total | Total<br>Rural | Percent<br>of<br>Total | Total<br>Farm | Percent<br>of<br>Total |                                   |
| Beaver . . . . .      | 4,765                       | --             | --                     | 4,765          | 100.0                  | 87            | 1.8                    | 4,850                             |
| Box Elder . . . . .   | 36,485                      | 19,852         | 54.4                   | 16,633         | 45.6                   | 1,328         | 3.6                    | 37,100                            |
| Cache . . . . .       | 70,183                      | 55,232         | 78.7                   | 14,951         | 21.3                   | 1,429         | 2.0                    | 71,900                            |
| Carbon . . . . .      | 20,228                      | 8,727          | 43.1                   | 11,501         | 56.9                   | 183           | 0.9                    | 20,600                            |
| Daggett . . . . .     | 690                         | --             | --                     | 690            | 100.0                  | 119           | 17.2                   | 700                               |
| Davis . . . . .       | 187,941                     | 186,544        | 99.3                   | 1,397          | 0.7                    | 154           | 0.1                    | 195,000                           |
| Duchesne . . . . .    | 12,645                      | 3,915          | 31.0                   | 8,730          | 69.0                   | 1,239         | 9.8                    | 12,800                            |
| Emery . . . . .       | 10,332                      | --             | --                     | 10,332         | 100.0                  | 414           | 4.0                    | 10,200                            |
| Garfield . . . . .    | 3,980                       | --             | --                     | 3,980          | 100.0                  | 142           | 3.6                    | 4,100                             |
| Grand . . . . .       | 6,620                       | 3,971          | 60.0                   | 2,649          | 40.0                   | 102           | 1.5                    | 6,800                             |
| Iron . . . . .        | 20,789                      | 13,443         | 64.7                   | 7,346          | 35.3                   | 176           | 0.8                    | 21,500                            |
| Juab . . . . .        | 5,817                       | 3,515          | 60.4                   | 2,302          | 39.6                   | 193           | 3.3                    | 6,000                             |
| Kane . . . . .        | 5,169                       | 3,148          | 60.9                   | 2,021          | 39.1                   | 62            | 1.2                    | 5,250                             |
| Millard . . . . .     | 11,333                      | 2,998          | 26.5                   | 8,335          | 73.5                   | 598           | 5.3                    | 11,600                            |
| Morgan . . . . .      | 5,528                       | --             | --                     | 5,528          | 100.0                  | 214           | 3.9                    | 5,650                             |
| Piute . . . . .       | 1,277                       | --             | --                     | 1,277          | 100.0                  | 84            | 6.6                    | 1,350                             |
| Rich . . . . .        | 1,725                       | --             | --                     | 1,725          | 100.0                  | 87            | 5.0                    | 1,700                             |
| Salt Lake . . . . .   | 725,956                     | 721,342        | 99.4                   | 4,614          | 0.6                    | 73            | <u>2/</u>              | 747,000                           |
| San Juan . . . . .    | 12,621                      | 3,162          | 25.1                   | 9,459          | 74.9                   | 45            | 0.4                    | 12,700                            |
| Sanpete . . . . .     | 16,259                      | 3,363          | 20.7                   | 12,896         | 79.3                   | 380           | 2.3                    | 16,900                            |
| Sevier . . . . .      | 15,431                      | 5,593          | 36.2                   | 9,838          | 63.8                   | 225           | 1.5                    | 15,700                            |
| Summit . . . . .      | 15,518                      | 4,468          | 28.8                   | 11,050         | 71.2                   | 440           | 2.8                    | 16,600                            |
| Tooele . . . . .      | 26,601                      | 18,174         | 68.3                   | 8,427          | 31.7                   | 254           | 1.0                    | 27,200                            |
| Uintah . . . . .      | 22,211                      | 9,242          | 41.6                   | 12,969         | 58.4                   | 893           | 4.0                    | 23,100                            |
| Utah . . . . .        | 263,590                     | 244,834        | 92.9                   | 18,756         | 7.1                    | 1,539         | 0.6                    | 272,000                           |
| Wasatch . . . . .     | 10,089                      | 4,782          | 47.4                   | 5,307          | 52.6                   | 183           | 1.8                    | 10,700                            |
| Washington . . . . .  | 48,560                      | 35,898         | 73.9                   | 12,662         | 26.1                   | 89            | 0.2                    | 51,900                            |
| Wayne . . . . .       | 2,177                       | --             | --                     | 2,177          | 100.0                  | 146           | 6.7                    | 2,200                             |
| Weber . . . . .       | 158,330                     | 147,172        | 93.0                   | 11,158         | 7.0                    | 807           | 0.5                    | 162,000                           |
| State Total . . . . . | 1,722,850                   | 1,499,375      | 87.0                   | 223,475        | 13.0                   | 11,685        | 0.7                    | 1,775,100                         |

1/ State Office of Planning and Budget, State of Utah. 2/ Less than 0.1 percent of total county population.

**FARM POPULATION VS. TOTAL POPULATION, Utah,  
1930-1990 Census**

| Year                     | Total Population  | Farm Population |                     |
|--------------------------|-------------------|-----------------|---------------------|
|                          |                   | Number          | Percent of<br>Total |
|                          | ----- 1,000 ----- | Percent         |                     |
| 1930 . . . . .           | 508               | 116             | 22.8                |
| 1940 . . . . .           | 550               | 105             | 19.1                |
| 1950 . . . . .           | 689               | 81              | 11.8                |
| 1960 . . . . .           | 891               | 65              | 7.3                 |
| 1970 . . . . .           | 1,059             | 38              | 3.6                 |
| 1980 <u>1/</u> . . . . . | 1,461             | 24              | 1.7                 |
| 1980 <u>2/</u> . . . . . | 1,461             | 18              | 1.3                 |
| 1990 . . . . .           | 1,723             | 12              | .7                  |

1/ Farm definition: 10 or more acres with annual sales of Agricultural products of \$50 or more; or less than 10 acres with annual sales of \$250 or more. 2/ Farm definition: A place with annual sales of \$1,000 or more.



## RANKING: Utah's Rank and United States Total, Top Six States, by Agricultural Category

| Category  | Unit          | Top Six States  |                 |               |               |               |               | Utah's Rank  | United States Total |
|---|---------------|-----------------|-----------------|---------------|---------------|---------------|---------------|--------------|---------------------|
|   |               | First           | Second          | Third         | Fourth        | Fifth         | Sixth         |              |                     |
| <b>GENERAL</b>                                    |               |                 |                 |               |               |               |               |              |                     |
| No. of Farms & Ranches, 1991 . . .                | Farms         | TX<br>185,000   | MO<br>107,000   | IA<br>102,000 | KY<br>91,000  | MN<br>88,000  | TN<br>87,000  | 37<br>13,300 | 2,104,560           |
| Land in Farms & Ranches, 1991 . . . . .           | 1,000 Acres   | TX<br>131,000   | MT<br>60,300    | KS<br>47,900  | NE<br>47,100  | NM<br>44,300  | SD<br>44,200  | 28<br>11,300 | 982,576             |
| Cash Receipts from Farm Marketings 1990 <u>1/</u> | Mil. Dollars  | CA<br>18,859    | TX<br>11,981    | IA<br>10,319  | NE<br>8,845   | IL<br>7,938   | MN<br>7,011   | 38<br>755    | 169,987             |
| <b>FIELD CROPS</b>                                |               |                 |                 |               |               |               |               |              |                     |
| Harvested Acreage Principal Crops, 1991 <u>2/</u> | 1,000 Acres   | IA<br>23,376    | IL<br>22,906    | ND<br>20,925  | KS<br>20,712  | MN<br>18,719  | NE<br>18,316  | 37<br>973    | 304,894             |
| All Wheat Prod. 1991 . . . . .                    | 1,000 Bushels | KS<br>363,000   | ND<br>303,670   | MT<br>159,507 | OK<br>140,000 | WA<br>98,600  | SD<br>96,175  | 31<br>5,807  | 1,980,704           |
| Other Spring Wheat Prod. 1991 . . . . .           | 1,000 Bushels | ND<br>212,350   | MT<br>81,600    | MN<br>64,170  | WA<br>58,000  | SD<br>49,000  | ID<br>32,660  | 9<br>1,127   | 504,565             |
| Winter Wheat Prod. 1991 . . . . .                 | 1,000 Bushels | KS<br>363,000   | OK<br>140,000   | TX<br>84,000  | MT<br>72,000  | CO<br>71,300  | NE<br>67,200  | 30<br>4,680  | 1,372,182           |
| Barley Prod. 1991 . . . . .                       | 1,000 Bushels | ND<br>138,670   | MT<br>85,800    | ID<br>59,250  | MN<br>43,750  | WA<br>37,050  | SD<br>17,940  | 11<br>7,885  | 464,495             |
| Oats Prod. 1991 . . . . .                         | 1,000 Bushels | SD<br>38,500    | ND<br>32,500    | WI<br>26,500  | MN<br>22,800  | IA<br>21,250  | NE<br>11,880  | 30<br>616    | 242,526             |
| Field Corn for Grain Prod. 1991 . . . . .         | 1,000 Bushels | IA<br>1,427,400 | IL<br>1,177,000 | NE<br>990,600 | MN<br>720,000 | IN<br>510,600 | WI<br>380,800 | 37<br>2,940  | 7,474,480           |
| Corn Silage Prod. 1991 . . . . .                  | 1,000 Tons    | NY<br>7,700     | WI<br>7,410     | MN<br>5,670   | CA<br>5,250   | PA<br>5,200   | NE<br>4,125   | 24<br>924    | 80,503              |
| All Potato Prod. 1991 . . . . .                   | 1,000 Cwt     | ID<br>122,175   | WA<br>75,435    | ND<br>30,030  | CO<br>26,168  | WI<br>23,275  | OR<br>22,170  | 22<br>1,620  | 418,229             |
| All Dry Bean Prod. 1991 . . . . .                 | 1,000 Cwt     | ND<br>7,548     | MI<br>6,210     | NE<br>4,009   | CO<br>3,315   | CA<br>3,127   | ID<br>2,932   | 17<br>26     | 32,963              |
| Alfalfa Hay Prod. 1991 . . . . .                  | 1,000 Tons    | WI<br>8,400     | CA<br>7,035     | MN<br>6,290   | IA<br>5,550   | SD<br>5,405   | NE<br>4,785   | 16<br>1,960  | 83,795              |
| All Hay Prod. 1991 . . . . .                      | 1,000 Tons    | TX<br>9,700     | WI<br>9,060     | CA<br>8,610   | MN<br>8,090   | SD<br>8,045   | NE<br>7,473   | 26<br>2,275  | 153,485             |

1/ In accordance with ERS Agricultural Resources, Outlook and Situation Summary.

2/ Crop acreages included are corn, sorghum, oats, barley, wheat, rice, rye, soybeans, flaxseed, peanuts, sunflowers, popcorn, cotton, all hay, dry edible beans, potatoes, tobacco, sugarcane, and sugarbeets.

## RANKING: Utah's Rank and United States Total, Top Six States, by Agricultural Category

| Category  | Unit             | Top Six States  |                 |               |               |               |               | Utah's Rank  | United States Total |
|---|------------------|-----------------|-----------------|---------------|---------------|---------------|---------------|--------------|---------------------|
|   |                  | First           | Second          | Third         | Fourth        | Fifth         | Sixth         |              |                     |
| <b>FRUITS &amp; VEGETABLES</b>                      |                  |                 |                 |               |               |               |               |              |                     |
| Apples Utilized Prod.<br>All Commercial, 1991 . . . | 1,000<br>Lbs.    | WA<br>4,300,000 | NY<br>1,050,000 | MI<br>880,000 | CA<br>800,000 | PA<br>530,000 | VA<br>415,000 | 21<br>52,000 | 9,810,300           |
| Apricot Utilized Prod<br>1991 . . . . .             | Tons             | CA<br>86,000    | WA<br>5,700     | UT<br>90      | --            | --            | --            | 3<br>90      | 91,790              |
| Sweet Cherry<br>Utilized Prod. 1991 . . .           | Tons             | WA<br>43,000    | OR<br>39,000    | CA<br>36,000  | MI<br>22,000  | NY<br>1,200   | PA<br>1,000   | 7<br>800     | 143,400             |
| Tart Cherry<br>Utilized Prod. 1991 . . . .          | Mil.<br>Lbs.     | MI<br>110.0     | UT<br>26.0      | NY<br>25.5    | PA<br>11.5    | WI<br>7.6     | OR<br>7.5     | 2<br>26.0    | 189.7               |
| Pear<br>Utilized Prod. 1991 . . . . .               | Tons             | WA<br>340,000   | CA<br>317,000   | OR<br>220,000 | NY<br>14,500  | PA<br>5,350   | MI<br>5,000   | 8<br>2,200   | 908,350             |
| Peach Utilized Prod.<br>1991 . . . . .              | 1,000<br>Lbs.    | CA<br>1,580,000 | SC<br>240,000   | GA<br>140,000 | NJ<br>108,000 | PA<br>90,000  | MI<br>40,000  | 28<br>2,500  | 2,491,800           |
| Summer Storage<br>Onion Prod. 1991 . . . . .        | 1,000<br>Cwt     | OR<br>7,588     | CO<br>4,953     | ID<br>4,543   | NY<br>3,510   | WA<br>3,096   | MI<br>2,044   | 7<br>874     | 27,631              |
| <b>LIVESTOCK, MINK &amp; POULTRY</b>                |                  |                 |                 |               |               |               |               |              |                     |
| All Cattle & Calves<br>Jan. 1, 1992 . . . . .       | 1,000<br>Head    | TX<br>13,600    | NE<br>5,800     | KS<br>5,650   | OK<br>5,500   | MO<br>4,550   | CA<br>4,500   | 36<br>800    | 100,110             |
| Beef Cows<br>Jan. 1, 1992 . . . . .                 | 1,000<br>Head    | TX<br>5,475     | MO<br>2,050     | OK<br>1,921   | NE<br>1,750   | SD<br>1,508   | MT<br>1,466   | 31<br>324    | 33,834              |
| All Hogs & Pigs<br>Dec. 1, 1991 . . . . .           | 1,000<br>Head    | IA<br>15,000    | IL<br>5,900     | MN<br>4,900   | IN<br>4,600   | NE<br>4,500   | NC<br>3,650   | 37<br>38     | 57,684              |
| Honey Prod.<br>1991 . . . . .                       | 1,000<br>Lbs.    | CA<br>32,760    | SD<br>22,725    | ND<br>22,145  | FL<br>18,675  | MN<br>16,380  | TX<br>10,920  | 27<br>1,530  | 220,105             |
| Mink Pelts<br>Prod. 1990 . . . . .                  | Pelts            | WI<br>855,300   | UT<br>680,000   | MN<br>373,200 | OR<br>227,000 | ID<br>210,000 | WA<br>172,400 | 2<br>680,000 | 3,365,400           |
| Stock Sheep & Lambs<br>Inv. Jan. 1, 1992 . . . . .  | 1,000<br>Head    | TX<br>1,930.0   | WY<br>720.0     | CA<br>710.0   | MT<br>650.0   | SD<br>517.0   | UT<br>460.0   | 6<br>460.0   | 9,042.9             |
| Turkeys Raised<br>1991 . . . . .                    | 1,000<br>Head    | NC<br>60,000    | MN<br>45,000    | CA<br>24,500  | AR<br>24,500  | MO<br>24,000  | VA<br>18,000  | 12<br>3,600  | 272,000             |
| Egg Prod.<br>1991 . . . . .                         | Mil.             | CA<br>7,444     | IN<br>5,290     | PA<br>5,130   | OH<br>4,637   | GA<br>4,301   | AR<br>3,737   | 31<br>486    | 68,958              |
| Milk Prod.<br>1991 . . . . .                        | Mil.<br>Lbs.     | WI<br>24,065    | CA<br>21,509    | NY<br>11,094  | PA<br>10,106  | MN<br>9,772   | TX<br>5,418   | 29<br>1,262  | 148,535             |
| Trout<br>Prod. 1991 . . . . .                       | 1,000<br>Dollars | ID<br>34,446    | WA<br>5,027     | NC<br>4,600   | PA<br>4,161   | MI<br>2,410   | CO<br>2,370   | 10<br>1,959  | 70,825              |

## RECORD HIGHS AND LOWS: Acreage, Yield, and Production of Utah Crops

| Item                         | Unit          | Record High |            | Record Low |               | Year Record Started |
|------------------------------|---------------|-------------|------------|------------|---------------|---------------------|
|                              |               | Quantity    | Year       | Quantity   | Year          |                     |
| <b>CORN FOR GRAIN</b>        |               |             |            |            |               |                     |
| Acres Harvested              | 1,000 Acres   | 22          | 1988       | 2          | 1963 & 66     | 1919                |
| Yield                        | Bushels       | 140.0       | 1987,90&91 | 17.0       | 1934          |                     |
| Production                   | 1,000 Bushels | 2,940       | 1991       | 85         | 1934          |                     |
| <b>CORN FOR SILAGE</b>       |               |             |            |            |               |                     |
| Acres Harvested              | 1,000 Acres   | 80          | 1975 & 76  | 2          | 1920-22       | 1919                |
| Yield                        | Tons          | 21.0        | 1987       | 6.0        | 1934          |                     |
| Production                   | 1,000 Tons    | 1,501       | 1980       | 17         | 1921          |                     |
| <b>OATS</b>                  |               |             |            |            |               |                     |
| Acres Harvested              | 1,000 Acres   | 82          | 1910       | 8          | 1991          | 1882                |
| Yield                        | Bushels       | 77.0        | 1991       | 25.0       | 1882 & 83     |                     |
| Production                   | 1,000 Bushels | 3,338       | 1914       | 550        | 1977          |                     |
| <b>BARLEY</b>                |               |             |            |            |               |                     |
| Acres Harvested              | 1,000 Acres   | 190         | 1957       | 8          | 1898          | 1882                |
| Yield                        | Bushels       | 83          | 1987       | 22.0       | 1882          |                     |
| Production                   | 1,000 Bushels | 12,880      | 1982       | 242        | 1882          |                     |
| <b>ALL WHEAT</b>             |               |             |            |            |               |                     |
| Acres Harvested              | 1,000 Acres   | 444         | 1953       | 65         | 1880 & 81     | 1879                |
| Yield                        | Bushels       | 45.0        | 1987       | 15.4       | 1919          |                     |
| Production                   | 1,000 Bushels | 9,750       | 1986       | 1,139      | 1882          |                     |
| <b>WINTER WHEAT</b>          |               |             |            |            |               |                     |
| Acres Harvested              | 1,000 Acres   | 342         | 1953       | 120        | 1909          | 1909                |
| Yield                        | Bushels       | 43.0        | 1987       | 12.7       | 1919          |                     |
| Production                   | 1,000 Bushels | 8,100       | 1986       | 1,862      | 1924          |                     |
| <b>SPRING WHEAT</b>          |               |             |            |            |               |                     |
| Acres Harvested              | 1,000 Acres   | 160         | 1918       | 16         | 1972          | 1909                |
| Yield                        | Bushels       | 57.0        | 1987       | 18.7       | 1919          |                     |
| Production                   | 1,000 Bushels | 4,000       | 1918       | 704        | 1972          |                     |
| <b>ALL HAY</b>               |               |             |            |            |               |                     |
| Acres Harvested              | 1,000 Acres   | 686         | 1930       | 402        | 1909          | 1909                |
| Yield                        | Tons          | 3.61        | 1981       | 1.51       | 1934          |                     |
| Production                   | 1,000 Tons    | 2,324       | 1987       | 679        | 1934          |                     |
| <b>ALFALFA HAY</b>           |               |             |            |            |               |                     |
| Acres Harvested              | 1,000 Acres   | 562         | 1930       | 359        | 1934          | 1922                |
| Yield                        | Tons          | 4.10        | 1981 & 87  | 1.67       | 1934          |                     |
| Production                   | 1,000 Tons    | 1,988       | 1987       | 600        | 1934          |                     |
| <b>OTHER HAY</b>             |               |             |            |            |               |                     |
| Acres Harvested              | 1,000 Acres   | 180         | 1947       | 92         | 1934          | 1924                |
| Yield                        | Tons          | 2.1         | 1987 & 91  | .86        | 1934          |                     |
| Utilized Prod.               | 1,000 Tons    | 336         | 1987       | 79         | 1934          |                     |
| <b>DRY EDIBLE BEANS</b>      |               |             |            |            |               |                     |
| Acres Harvested              | 1,000 Acres   | 20          | 1970       | 1          | 1934-35 & 77  | 1934                |
| Yield Cleaned                | Pounds        | 800         | 1957       | 200        | 1956,59,62,77 | 1954                |
| Production Cleaned           | 1,000 Cwt     | 91          | 1947       | 2          | 1977          | 1934                |
| <b>FALL POTATOES</b>         |               |             |            |            |               |                     |
| Acres Harvested              | 1,000 Acres   | 19.6        | 1943       | 4.3        | 1972          | 1882                |
| Yield                        | Cwt           | 275         | 1986       | 45         | 1886          |                     |
| Production                   | 1,000 Cwt     | 2,153       | 1946       | 405        | 1886          |                     |
| <b>SUMMER STORAGE ONIONS</b> |               |             |            |            |               |                     |
| Acres Harvested              | Acres         | 2,400       | 1944       | 550        | 1954 & 66     | 1939                |
| Yield                        | Cwt           | 485         | 1987       | 200        | 1940          |                     |
| Production                   | 1,000 Cwt     | 912         | 1990       | 150        | 1952          |                     |
| <b>APRICOTS</b>              |               |             |            |            |               |                     |
| Utilized Production          | Tons          | 10,000      | 1957       | 0          | 1972          | 1929                |
| <b>SWEET CHERRIES</b>        |               |             |            |            |               |                     |
| Utilized Production          | Tons          | 7,700       | 1968       | 0          | 1972          | 1938                |
| <b>PEARS</b>                 |               |             |            |            |               |                     |
| Utilized Production          | Tons          | 8,750       | 1954       | 200        | 1972          | 1909                |
| <b>APPLES</b>                |               |             |            |            |               |                     |
| Utilized Production          | Mil. Pounds   | 63.0        | 1987       | 2.7        | 1889          | 1889                |
| <b>TART CHERRIES</b>         |               |             |            |            |               |                     |
| Utilized Production          | Mil. Pounds   | 26.0        | 1991       | 1.3        | 1972          | 1938                |
| <b>PEACHES (Freestone)</b>   |               |             |            |            |               |                     |
| Utilized Production          | Mil. Pounds   | 44.2        | 1922       | 1.5        | 1972          | 1899                |

## RECORD HIGHS AND LOWS: Utah Livestock, Poultry, Mink, and Honey

| Item  | Unit       | Record High |           | Record Low |         | Year Record Started |
|---|------------|-------------|-----------|------------|---------|---------------------|
|   |            | Quantity    | Year      | Quantity   | Year    |                     |
| <u>Cattle &amp; Calves</u>                    |            |             |           |            |         |                     |
| Inventory Jan. 1 . . . . .                    | Thou. Hd.  | 950         | 1983      | 95         | 1867    | 1867                |
| Calf Crop . . . . .                           | Thou. Hd.  | 390         | 1975      | 129        | 1935    | 1920                |
| Beef Cows Jan. 1 <u>1/</u> . . . . .          | Thou. Hd.  | 374         | 1983      | 107        | 1939    | 1920                |
| Milk Cows Jan. 1 <u>1/</u> . . . . .          | Thou. Hd.  | 126         | 1945      | 14         | 1867    | 1867                |
| Milk Production . . . . .                     | Mil. Lbs.  | 1,267       | 1990      | 412        | 1924    | 1924                |
| Cattle on Feed Jan. 1 . . . . .               | Thou. Hd.  | 81          | 1963 & 66 | 33         | 1986    | 1959                |
| <u>Hogs and Pigs</u>                          |            |             |           |            |         |                     |
| Inventory Dec. 1 <u>2/</u> . . . . .          | Thou. Hd.  | 196         | 1944      | 4          | 1867-69 | 1867                |
| <u>Sheep and Lambs</u>                        |            |             |           |            |         |                     |
| Stock Sheep Inventory Jan. 1 . . . . .        | Thou. Hd.  | 2,935       | 1931      | 167        | 1867    | 1867                |
| Lamb Crop . . . . .                           | Thou. Hd.  | 1,736       | 1930      | 380        | 1987-88 | 1924                |
| Sheep & Lambs on Feed . . . . .               | Thou. Hd.  | 295         | 1937      | 18         | 1988    | 1920                |
| <u>Chickens</u>                               |            |             |           |            |         |                     |
| Hens & Pullets of Laying Age Dec. 1 . . . . . | Thou. Hd.  | 2,750       | 1944      | 1,166      | 1965    | 1925                |
| Egg Production Total for Year . . . . .       | Mil. Eggs  | 496         | 1987      | 142        | 1924    | 1924                |
| <u>Turkeys</u>                                |            |             |           |            |         |                     |
| Raised . . . . .                              | Thou. Hd.  | 4,061       | 1973      | 215        | 1935    | 1929                |
| <u>Honey</u>                                  |            |             |           |            |         |                     |
| Production . . . . .                          | Thou. Lbs. | 4,368       | 1963      | 848        | 1946    | 1913                |
| <u>Mink</u>                                   |            |             |           |            |         |                     |
| Pelts Produced . . . . .                      | Thousand   | 780.0       | 1989      | 283.0      | 1973    | 1969                |

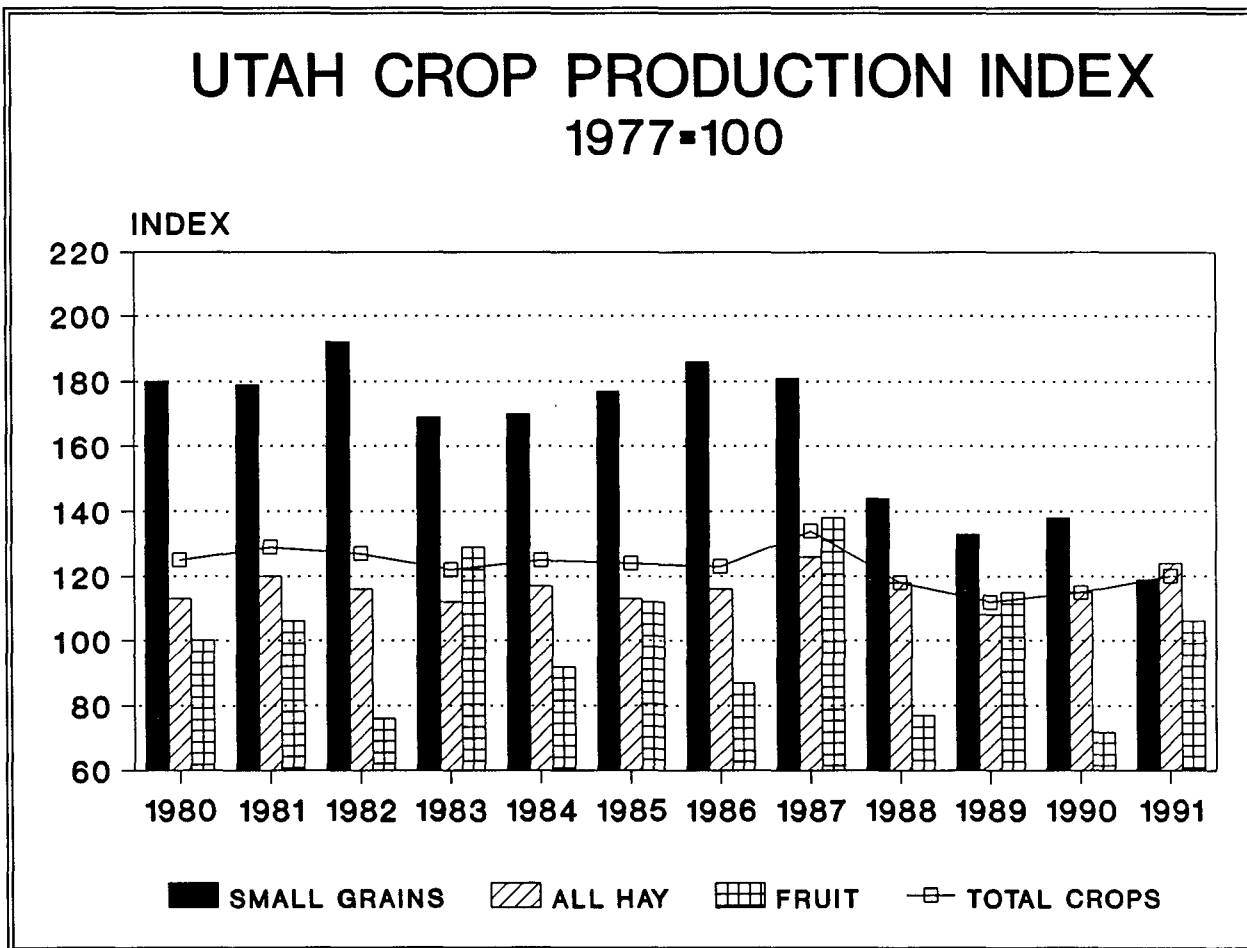
1/ Cows and heifers two years old and over prior to 1970, cows that have calved starting in 1970.

2/ January 1 estimates discontinued in 1969. December 1 estimates started 1969.



**CROP PRODUCTION INDEX: Crops, by Commodity Grouping, Utah (1977 = 100)**

| Year           | Small Grain | Hay | Fruit | Other Crops | Total Crops |
|----------------|-------------|-----|-------|-------------|-------------|
| Percent        |             |     |       |             |             |
| 1980 . . . . . | 180         | 113 | 100   | 132         | 125         |
| 1981 . . . . . | 179         | 120 | 106   | 130         | 129         |
| 1982 . . . . . | 192         | 116 | 76    | 134         | 127         |
| 1983 . . . . . | 169         | 112 | 129   | 116         | 122         |
| 1984 . . . . . | 170         | 117 | 92    | 129         | 125         |
| 1985 . . . . . | 177         | 113 | 112   | 124         | 124         |
| 1986 . . . . . | 186         | 116 | 87    | 112         | 123         |
| 1987 . . . . . | 181         | 126 | 138   | 120         | 134         |
| 1988 . . . . . | 144         | 118 | 77    | 113         | 118         |
| 1989 . . . . . | 133         | 108 | 115   | 106         | 112         |
| 1990 . . . . . | 138         | 115 | 72    | 114         | 115         |
| 1991 . . . . . | 119         | 124 | 106   | 117         | 120         |



## Number of Farms

The number of farms in Utah in 1991 is estimated at 13,300, up 1 percent from 13,200 in 1990. Total land in farms for 1991 is 11.3 million acres, unchanged from last year. The average size of farms in Utah decreased to 850 acres from 856 acres last year.

Nationally, farm numbers for 1991 are forecast at 2.11 million, down 2 percent from 1990. Total land in farms for the United States is 983 million acres, down fractionally from 1990. Since the number of farms has declined at a faster rate than land in farms, the average size of farms has increased from 461 to 467 acres in 1991. This marks the 10th consecutive year that average farm size has increased at the national level.

**FARM NUMBERS AND ACREAGE: Utah and United States, Selected Years 1/, 2/**

| Year             | UTAH   |               |                | UNITED STATES  |               |                    |
|------------------|--------|---------------|----------------|----------------|---------------|--------------------|
|                  | Farms  | Land in Farms |                | Farms          | Land in Farms |                    |
|                  |        | Average       | Total          |                | Average       | Total              |
|                  | Number | Acres         | 1,000<br>Acres | 1,000<br>Farms | Acres         | 1,000,000<br>Acres |
| 1850 ...         | 926    | 51            | 47             | 1,449          | 203           | 294                |
| 1860 ...         | 3,635  | 25            | 90             | 2,044          | 199           | 407                |
| 1880 ...         | 9,452  | 69            | 656            | 4,009          | 134           | 536                |
| 1900 ...         | 19,387 | 212           | 4,117          | 5,737          | 146           | 839                |
| 1920 ...         | 25,662 | 197           | 5,050          | 6,448          | 148           | 956                |
| 1930 ...         | 27,159 | 207           | 5,613          | 6,289          | 157           | 987                |
| 1940 ...         | 28,500 | 354           | 10,100         | 6,097          | 174           | 1,061              |
| 1950 ...         | 25,800 | 465           | 12,000         | 5,382          | 215           | 1,159              |
| 1960 ...         | 19,000 | 716           | 13,600         | 3,963          | 297           | 1,176              |
| 1970 ...         | 14,100 | 936           | 13,200         | 2,949          | 374           | 1,102              |
| 1975 ...         | 12,600 | 1,000         | 12,600         | 2,521          | 420           | 1,059              |
| 1980 ...         | 13,500 | 919           | 12,400         | 2,440          | 426           | 1,039              |
| 1985 ...         | 13,900 | 835           | 11,600         | 2,293          | 441           | 1,012              |
| 1986 ...         | 13,700 | 832           | 11,400         | 2,250          | 447           | 1,005              |
| 1987 ...         | 13,600 | 831           | 11,300         | 2,213          | 451           | 999                |
| 1988 ...         | 13,300 | 850           | 11,300         | 2,197          | 453           | 995                |
| 1989 ...         | 13,000 | 869           | 11,300         | 2,171          | 457           | 991                |
| 1990 ...         | 13,200 | 856           | 11,300         | 2,140          | 461           | 987                |
| 1991 <u>3/</u> . | 13,300 | 850           | 11,300         | 2,105          | 467           | 983                |

1/ 1850-1931 from U.S. Census of Agriculture--1940-89 are USDA estimates.

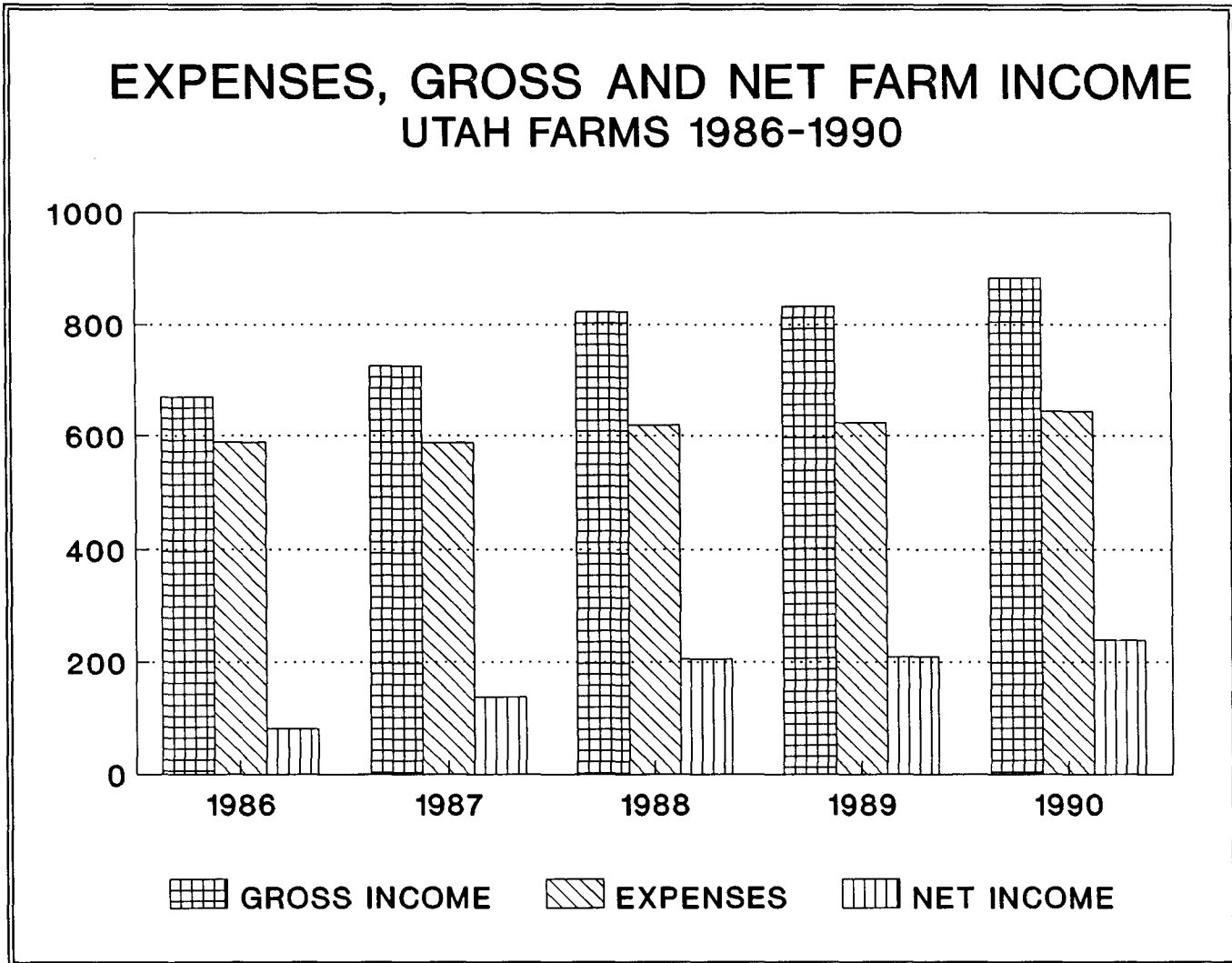
2/ Starting in 1975, the figures are based on the "new definition" which is a place with annual sales of agricultural products of \$1,000 or more. Prior to this definition "a farm" included places of 10 or more acres that had annual sales of agricultural products of \$50 or more, and places of less than 10 acres that had annual sales of \$250 or more.

3/ Preliminary.

## Farm Income

Marketing of Utah crops and livestock in 1991 produced cash receipts totaling \$722.0 million according to preliminary data released by USDA'S Economic Research Service. This was 4 percent below the 1990 record breaking level. Cash receipts from livestock of \$555.4 million were down 4 percent from 1990. Cash receipts from crops at \$166.6 million were down 7 percent from the previous year.

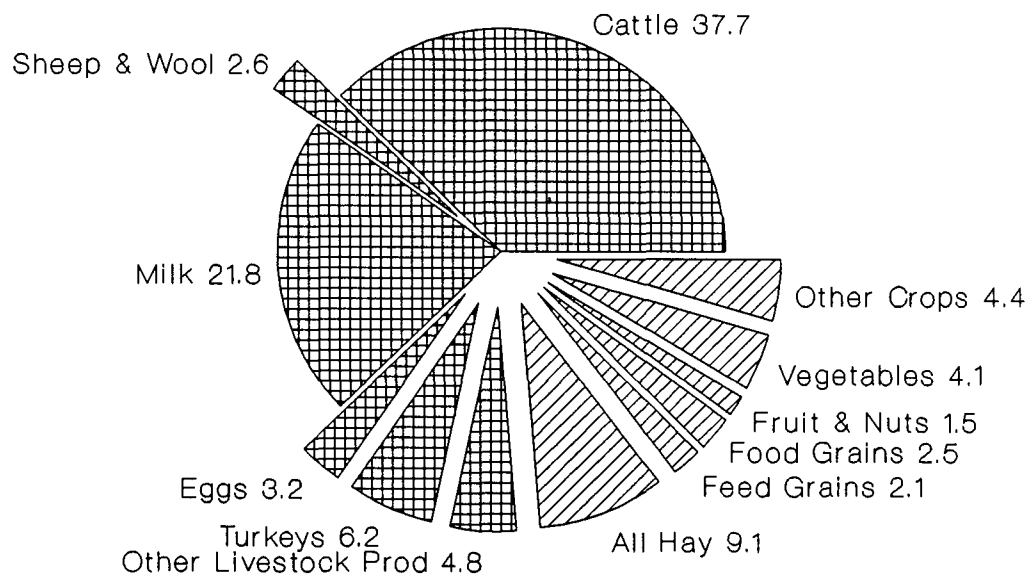
Gross farm income in Utah during 1990 was \$883.1 million, up 6 percent from 1989. Net farm income was 239.7 million compared with 209.5 million in 1989. Total production expenses during 1990 were \$643.4 million, 3 percent above those of 1989.



## Utah Cash Receipts by Commodities, 1990

The graph below displays the predominance of livestock in Utah's agricultural economy. Livestock accounted for 76.3 percent of farm cash receipts in 1990, down from 75.1 percent in 1989. Cattle was the single largest contributing commodity producing 37.7 percent of the cash receipts. Milk was second with 21.8 percent of the receipts followed by turkeys with 6.2 percent. Hay was the largest cash producing crop and was the third highest contributing commodity overall.

### Utah Cash Receipts By Commodities, 1990



**Livestock & Livestock Products = 76.3%**

**Crops = 23.7%**



**CASH RECEIPTS: by Commodity, Utah, 1988-91**

| Commodity                   | 1988          |         | 1989          |         | 1990          |         | 1/ 1991       |         |
|-----------------------------|---------------|---------|---------------|---------|---------------|---------|---------------|---------|
|                             | 1,000 Dollars | Percent | 1,000 Dollars | Percent | 1,000 Dollars | Percent | 1,000 Dollars | Percent |
| ALL COMMODITIES . . . . .   | 726,540       | 100.0   | 755,279       | 100.0   | 754,826       | 100.0   | 722,000       | 100.0   |
| LIVESTOCK & PRODUCTS .      | 547,344       | 75.3    | 567,098       | 75.1    | 576,140       | 76.3    | 555,407       | 76.9    |
| Meat Animals . . . . .      | 294,279       | 40.5    | 304,336       | 40.3    | 305,597       | 40.5    |               |         |
| Cattle & Calves . . . . .   | 274,384       | 37.8    | 281,325       | 37.2    | 284,938       | 37.7    |               |         |
| Sheep & Lambs . . . . .     | 16,108        | 2.2     | 19,137        | 2.5     | 15,549        | 2.1     |               |         |
| Hogs . . . . .              | 3,787         | 0.5     | 3,874         | 0.5     | 5,110         | 0.7     |               |         |
| Dairy Products . . . . .    | 136,397       | 18.8    | 148,330       | 19.6    | 164,763       | 21.8    |               |         |
| Milk, Wholesale . . . . .   | 127,020       | 17.5    | 139,986       | 18.5    | 154,800       | 20.5    |               |         |
| Milk, Retail . . . . .      | 9,377         | 1.3     | 8,344         | 1.1     | 9,963         | 1.3     |               |         |
| Poultry/Eggs . . . . .      | 70,499        | 9.7     | 69,616        | 9.2     | 71,612        | 9.5     |               |         |
| Turkeys . . . . .           | 48,649        | 6.7     | 44,056        | 5.8     | 46,798        | 6.2     |               |         |
| Chicken Eggs . . . . .      | 21,363        | 2.9     | 24,917        | 3.3     | 24,320        | 3.2     |               |         |
| Other Poultry . . . . .     | 200           | *       | 383           | *       | 394           | 0.1     |               |         |
| Miscellaneous Livestock .   | 46,169        | 6.4     | 44,816        | 5.9     | 34,168        | 4.5     |               |         |
| Wool . . . . .              | 6,222         | 0.9     | 5,977         | 0.8     | 3,401         | 0.5     |               |         |
| Other Livestock . . . . .   | 39,047        | 5.4     | 32,991        | 4.4     | 27,255        | 3.6     |               |         |
| Aquaculture . . . . .       | NA            | *       | 4,731         | 0.6     | 3,512         | 0.5     |               |         |
| CROPS . . . . .             | 179,196       | 24.7    | 188,181       | 24.9    | 178,686       | 23.7    | 166,593       | 23.1    |
| Food Grains . . . . .       | 23,715        | 3.3     | 23,554        | 3.1     | 18,663        | 2.5     |               |         |
| Wheat . . . . .             | 23,715        | 3.3     | 23,554        | 3.1     | 18,663        | 2.5     |               |         |
| Feed Crops . . . . .        | 83,391        | 11.5    | 90,318        | 12.0    | 84,573        | 11.2    |               |         |
| Hay . . . . .               | 65,839        | 9.1     | 71,670        | 9.5     | 68,360        | 9.1     |               |         |
| Barley . . . . .            | 11,593        | 1.6     | 12,582        | 1.7     | 10,785        | 1.4     |               |         |
| Corn . . . . .              | 5,050         | 0.7     | 5,132         | 0.7     | 4,852         | 0.6     |               |         |
| Vegetables . . . . .        | 27,678        | 3.8     | 28,344        | 3.8     | 31,325        | 4.1     |               |         |
| Potatoes . . . . .          | 7,140         | 0.9     | 8,207         | 1.1     | 9,951         | 1.3     |               |         |
| Onions . . . . .            | 7,068         | 1.0     | 6,252         | 0.8     | 6,878         | 0.9     |               |         |
| Miscellaneous Vegetables    | 11,580        | 1.6     | 11,956        | 1.6     | 13,036        | 1.7     |               |         |
| Fruits/Nuts . . . . .       | 11,815        | 1.6     | 14,014        | 1.9     | 11,186        | 1.5     |               |         |
| Apples . . . . .            | 4,832         | 0.7     | 6,337         | 0.8     | 4,307         | 0.6     |               |         |
| Cherries . . . . .          | 3,331         | 0.5     | 3,996         | 0.5     | 2,505         | 0.3     |               |         |
| Peaches . . . . .           | 2,242         | 0.3     | 2,258         | 0.3     | 2,760         | 0.4     |               |         |
| Other Berries . . . . .     | 280           | *       | 162           | *       | 177           | *       |               |         |
| Miscellaneous Fruits/Nuts   | 210           | *       | 212           | *       | 263           | *       |               |         |
| All Other Crops . . . . .   | 32,597        | 4.5     | 31,951        | 4.2     | 32,939        | 4.4     |               |         |
| Other Seeds . . . . .       | 2,300         | 0.3     | 1,398         | 0.2     | 1,236         | 0.2     |               |         |
| Other Field Crops . . . . . | 1,000         | 0.1     | 1,019         | 0.1     | 1,432         | 0.2     |               |         |
| Greenhouse/Nursery . . .    | 24,000        | 3.3     | 24,484        | 3.2     | 25,220        | 3.3     |               |         |

Source: State Income and Balance Sheet Statistics, Economic Research Service, USDA.

1/ Preliminary.

\* Less Than 0.5 percent.

Individual dollar values and percents may not add to commodity grouping totals because some individual commodities with less than \$1,000,000 are not published separately, or included in "other" or "miscellaneous".

Percents may not add to totals due to rounding.

**FARM INCOME: Cash Receipts, Gross & Net Income from Farming, Utah, 1986-91 1/**

| Item                                   | 1986  | 1987  | 1988  | 1989  | 1990  | 1991  |
|--|-------|-------|-------|-------|-------|-------|
| Million Dollars                        |       |       |       |       |       |       |
| GROSS FARM INCOME 2/ . . . . .         | 669.9 | 725.6 | 822.8 | 832.0 | 883.1 |       |
| Cash Income . . . . .                  | 622.5 | 653.0 | 782.9 | 810.2 | 810.9 |       |
| Marketings Crops & Lvstk. . . . .      | 570.4 | 589.8 | 726.5 | 755.3 | 754.8 | 722.0 |
| Government Payments . . . . .          | 36.0  | 44.5  | 38.4  | 34.5  | 34.9  |       |
| Other Farm Income . . . . .            | 16.1  | 18.7  | 18.0  | 20.4  | 21.2  |       |
| Non-Cash Income 3/ . . . . .           | 52.2  | 51.0  | 49.9  | 46.7  | 45.8  |       |
| Value of Inventory Adj. . . . .        | -4.8  | 21.6  | -10.0 | -24.9 | 26.3  |       |
| TOTAL PRODUCTION EXPENSES 2/ . . . . . | 588.7 | 588.0 | 618.2 | 622.5 | 643.4 |       |
| NET FARM INCOME 4/ . . . . .           | 81.2  | 137.6 | 204.6 | 209.5 | 239.7 |       |
| Cash Income 5/ . . . . .               | 622.5 | 653.0 | 782.9 | 810.2 | 810.9 |       |
| Cash Expenses 5/ . . . . .             | 468.3 | 472.7 | 503.9 | 512.7 | 533.9 |       |
| NET CASH INCOME . . . . .              | 154.2 | 180.3 | 278.9 | 297.6 | 277.0 |       |

1/ Source: Data for 1986-90 from "Economic Indicators of the Farm Sector: State Financial Summary, 1990." Economic Research Service, USDA--1991 data preliminary from "Economic Indicators of the Farm Sector." 2/ Includes operator households. 3/ Includes value of home consumption and rental value of operators' and hired labors' dwellings 4/ Gross farm income (including value of inventory adjustment) less total production expenses. 5/ Excludes operator households.

**FARM OPERATING EXPENSES: Utah, 1986-90**

| Item   | 1986  | 1987  | 1988  | 1989  | 1990  |
|--|-------|-------|-------|-------|-------|
| Million Dollars                              |       |       |       |       |       |
| Feed . . . . .                               | 99.8  | 97.3  | 113.7 | 114.0 | 113.8 |
| Livestock . . . . .                          | 37.5  | 45.5  | 57.2  | 54.7  | 58.3  |
| Seed . . . . .                               | 7.3   | 7.6   | 7.9   | 8.4   | 8.4   |
| Fertilizer & Lime . . . . .                  | 14.5  | 12.6  | 13.5  | 14.1  | 16.1  |
| Pesticides . . . . .                         | 7.4   | 8.3   | 8.4   | 10.0  | 10.5  |
| Fuel & Oil . . . . .                         | 28.0  | 27.0  | 27.6  | 27.1  | 32.3  |
| Electricity . . . . .                        | 11.2  | 13.5  | 14.3  | 12.5  | 12.2  |
| Repair & Maintenance . . . . .               | 44.9  | 49.0  | 48.0  | 50.7  | 47.9  |
| Other Miscellaneous 1/ . . . . .             | 72.3  | 76.6  | 82.1  | 83.4  | 87.8  |
| Interest-Real Estate . . . . .               | 52.7  | 44.3  | 41.0  | 40.3  | 39.0  |
| Interest-Non-Real Estate . . . . .           | 39.8  | 35.9  | 32.8  | 33.3  | 34.9  |
| Contract & Hired Labor Expenses . . . . .    | 44.0  | 45.8  | 48.0  | 51.1  | 57.7  |
| Net Rent to Non-Operator Landlords . . . . . | 1.2   | 5.2   | 5.0   | 5.3   | 7.5   |
| Capital Consumption . . . . .                | 107.2 | 101.0 | 100.2 | 99.1  | 97.3  |
| Property Taxes . . . . .                     | 20.8  | 18.4  | 18.6  | 18.6  | 19.7  |
| TOTAL PRODUCTION EXPENSES 2/ . . . . .       | 588.7 | 588.0 | 618.2 | 622.5 | 643.4 |

1/ Includes machine hires and customwork expenses; marketing, storage, and transportation expenses; and miscellaneous expenses. Definitions and data sources for 1978 and later are not directly compatible with those of earlier years. 2/ Includes operator households.

**FARM BALANCE SHEET: (Excluding Operator Households), Utah, December 31, 1986-90 <sup>1/</sup>**

| Item   | 1986    | 1987            | 1988    | 1989    | 1990    |
|--|---------|-----------------|---------|---------|---------|
| <b>Assets</b>                                      |         | Million Dollars |         |         |         |
| Total Farm Assets . . . . .                        | 5,601.9 | 5,392.0         | 5,288.7 | 5,053.4 | 5,313.0 |
| Real Estate <sup>2/</sup> . . . . .                | 4,534.1 | 4,197.0         | 4,124.3 | 3,881.0 | 4,020.7 |
| Livestock & Poultry <sup>3/</sup> . . . . .        | 360.6   | 484.4           | 536.5   | 572.0   | 582.7   |
| Machinery & Motor Vehicles <sup>4/</sup> . . . . . | 428.0   | 429.1           | 433.3   | 448.6   | 470.2   |
| Crops <sup>5/</sup> . . . . .                      | 104.0   | 114.3           | 99.8    | 95.2    | 113.3   |
| Purchased Inputs . . . . .                         | 7.0     | 7.4             | 12.0    | 13.2    | 15.5    |
| Investments in Cooperatives . . . . .              | 113.8   | 105.8           | 26.9    | -12.3   | 50.9    |
| Other Financial . . . . .                          | 54.4    | 54.0            | 55.9    | 55.6    | 59.6    |
| <b>Claims</b>                                      |         |                 |         |         |         |
| Total Farm Debt . . . . .                          | 829.0   | 756.3           | 743.0   | 694.3   | 656.9   |
| Real Estate Debt. <sup>6/</sup> . . . . .          | 499.4   | 447.0           | 428.2   | 396.4   | 366.6   |
| Non-Real Estate Debt <sup>7/</sup> . . . . .       | 329.6   | 309.3           | 314.8   | 297.9   | 290.3   |
| Equity . . . . .                                   | 4,772.9 | 4,635.7         | 4,545.7 | 4,359.1 | 4,656.1 |
| <b>Ratios</b>                                      |         | Percent         |         |         |         |
| Equity/Assets . . . . .                            | 85.2    | 86.0            | 86.0    | 86.3    | 87.6    |
| Debt/Equity . . . . .                              | 17.4    | 16.3            | 16.3    | 15.9    | 14.1    |
| Debt/Assets, Total . . . . .                       | 14.8    | 14.0            | 14.0    | 13.7    | 12.4    |

<sup>1/</sup> Data are for farms with sales of \$1,000 or more annually.

<sup>2/</sup> Excludes value of operator dwellings.

<sup>3/</sup> Excludes horses, mules, and broilers.

<sup>4/</sup> Includes only farm share value for trucks and autos.

<sup>5/</sup> All non-CCC crops held on farms plus the value above loan rate for crops held under CCC.

<sup>6/</sup> Excludes debt on operator dwellings, but includes CCC storage and drying facility loans.

<sup>7/</sup> Excludes debt for non-farm purposes.

Source: "Economic Indicators of the Farm Sector: State Financial Summary," Economic Research Service, USDA.

## Field Crops

Water year was 97 percent of normal Statewide for the majority of the growing season, varying from 95 percent in the south central areas to 100 percent in the southeast. Soil moisture was rated as mostly adequate during the season by crop weather reporters. The cool, wet spring provided much needed moisture for crops, but at the same time slowed crop progress to as much as three weeks behind normal. Irrigation water supplies were generally adequate throughout the growing season. Range and pastures were in good condition and lessened the need for roughage. Temperatures were normal or below normal through June, which reduced the heat stress on small grains. Small grain harvest was a week to ten days behind the average. Lower winter wheat yields indicate that the crop may have been hurt by the cool, damp spring. Several farmers reported that spring wheat and barley crops did not fill well. Corn harvest was slow this year due to the late start last Spring, but yields were good. Hay crops were good this year, but many localities reported 1 less cutting than last year and reduced quality.

Hay is still Utah's largest cash crop. While most of the crop is fed to Utah's livestock herds, a large portion was marketed as baled and cubed alfalfa to neighboring States and overseas. Alfalfa hay harvested was up 5,000 acres to 490,000 acres. The yield averaged 4.0 tons per acre, compared with 3.8 tons last year. Total production of 2.0 million tons was up 6 percent from 1990. Other hay harvested at 150,000 acres, compared with 140,000 acres harvested in 1990. The average yield of 2.1 tons per acre was up 0.1 ton from last year. Production at 315,000 tons was up 13 percent from 1990. The 1991 all hay crop was valued at \$137.9 million, which was down \$35.3 million from 1990.

Small grains: Planted acreage for wheat was down 11 percent, barley down 9 percent, but oats planted acreage was up 25 percent. Yields for oats and barley were higher, but wheat was lower. Winter wheat harvested acreage at 130,000 was down 13 percent from 1990, and the yield was down 4.0 bushels per acre. Total production at 4.7 million bushels was 22 percent below 1990. Value of production dropped 15 percent to \$14.5 million. Spring wheat harvested acreage at 23,000 is down 12 percent from 1990. The average yield at 49 bushels per acre was 4 bushels above last year. Production at 1.1 million bushels was 4 percent below the previous year. Value of production at \$3.3 million was down 3 percent from 1990. Barley acreage harvested at 95,000 was 10 percent below 1990. Production at 7.9 million bushels was down 7 percent, even though the average yield of 83 bushels per acre was 2 bushels above the previous year. Oat production at 616,000 bushels was 25 percent below the previous year. Growers harvested 8,000 acres for grain, down 33 percent from last year. The value of production was down 30 percent to \$955,000.

Corn acreage planted for all purposes at 68,000 acres was 5 percent above 1990. Acreage harvested for grain at 21,000 was up 11 percent from 1990. The acreage yield for grain at 140 bushels was the same as the previous year. Grain production totaled 2.9 million bushels, 11 percent above 1990. The crop was valued at \$8.4 million, up 13 percent from last year. Corn for silage production totaled 924,000 tons compared with 923,000 tons in 1990. A total of 44,000 acres were harvested. The value of the crop was \$20.3 million compared with \$24.0 million in 1990.

**UTAH USUAL PLANTING AND HARVESTING DATES: by Crop, and Principal Producing Areas**

| Crop                       | 1991<br>Harvested<br>Acreage | Usual<br>Planting<br>Dates | Usual Harvesting Dates |               |        | Principal<br>Producing Areas &<br>Counties     |
|----------------------------|------------------------------|----------------------------|------------------------|---------------|--------|--|
|                            |                              |                            | Begins                 | Most Active   | Ends   |  |
|                            | (1,000)                      | -----                      | Month and Day -----    |               |        | Location                                       |
| Barley:                    |                              |                            |                        |               |        |  |
| Spring <u>1</u> / . . . .  | 95.0                         | Mar 20-Apr 25              | Jul 20                 | Jul 25-Aug 15 | Sep 1  | Statewide                                      |
| Beans:                     |                              |                            |                        |               |        |  |
| Dry <u>1</u> / . . . . .   | 5.5                          | May 10-Jun 1               | Sep 1                  | Sep 10-Sep 30 | Oct 20 | San Juan                                       |
| Corn:                      |                              |                            |                        |               |        |  |
| Grain <u>1</u> / . . . .   | 21.0                         | Apr 25-Jun 5               | Sep 10                 | Sep 25-Oct 20 | Dec 10 | Utah, Box Elder                                |
| Silage <u>1</u> / . . . .  | 44.0                         | May 1-Jun 5                | Sep 5                  | Sep 10-Sep 25 | Oct 10 | Statewide                                      |
| Hay:                       |                              |                            |                        |               |        |  |
| Alfalfa <u>1</u> / . . . . | 490.0                        |                            | Jun 1                  |               | Oct 25 | Statewide                                      |
| Other <u>1</u> / . . . .   | 150.0                        |                            | Jul 10                 |               | Aug 25 | Statewide                                      |
| Oats:                      |                              |                            |                        |               |        |  |
| Spring <u>1</u> / . . . .  | 8.0                          | Mar 20-May 15              | Jul 20                 | Jul 25-Aug 10 | Aug 25 | Statewide                                      |
| Onions, Summer             |                              |                            |                        |               |        |  |
| Storage <u>2</u> / . . .   | 1.9                          | Mar 1-Apr 30               | Sep 20                 | Sep 25-Oct 20 | Oct 31 | Davis, Weber,<br>Salt Lake, Utah,<br>Box Elder |
| Potatoes:                  |                              |                            |                        |               |        |  |
| Fall <u>3</u> / . . . . .  | 6.0                          | Apr 20-Jun 15              | Jul 15                 | Sep 15-Oct 25 | Nov 5  | Statewide                                      |
| Wheat:                     |                              |                            |                        |               |        |  |
| Winter <u>1</u> / . . .    | 130.0                        | Aug 25-Oct 20              | Jul 5                  | Jul 15-Aug 5  | Aug 20 | Millard, San Juan,<br>Box Elder, Cache         |
| Spring <u>1</u> / . . . .  | 23.0                         | Mar 20-May 1               | Aug 1                  | Aug 5-Aug 25  | Sep 1  | Salt Lake, Utah,<br>Juab                       |

1/ USDA Agriculture Handbook 628, April 1984. 2/ USDA Agriculture Handbook 507, February 1977. 3/ USDA Agriculture Handbook 460, December 1973.



**CORN PLANTED AND HARVESTED FOR SILAGE: Acreage, Yield, Production, and Value, Utah, Selected Years**

| Year       | Planted for All Purposes | Acres Harvested | Yield Per Acre | Production | Marketing Year Average Price <sup>1/</sup> | Value of Production |
|------------|--------------------------|-----------------|----------------|------------|--|---------------------|
|            | ----- 1,000 Acres -----  |                 | Tons           | 1,000 Tons | Dollars per Ton                            | 1,000 Dollars       |
| 1940 ..... | 29                       | 10              | 9.4            | 94         | --   | --                  |
| 1950 ..... | 31                       | 21              | 11.0           | 231        | 7.50                                       | 1,732               |
| 1960 ..... | 49                       | 41              | 14.5           | 594        | 8.00                                       | 4,752               |
| 1970 ..... | 63                       | 49              | 18.0           | 882        | 9.80                                       | 8,644               |
| 1980 ..... | 100                      | 79              | 19.0           | 1,501      | 21.10                                      | 31,671              |
| 1985 ..... | 80                       | 61              | 20.0           | 1,220      | 21.50                                      | 26,230              |
| 1986 ..... | 72                       | 52              | 19.5           | 1,014      | 20.00                                      | 20,280              |
| 1987 ..... | 70                       | 47              | 21.0           | 987        | 22.00                                      | 21,714              |
| 1988 ..... | 70                       | 47              | 20.0           | 940        | 23.00                                      | 21,620              |
| 1989 ..... | 65                       | 44              | 19.0           | 836        | 24.00                                      | 20,064              |
| 1990 ..... | 65                       | 45              | 20.5           | 923        | 26.00                                      | 23,998              |
| 1991 ..... | 68                       | 44              | 21.0           | 924        | 22.00                                      | 20,328              |

<sup>1/</sup> Price or value per ton in silo or pit.

**CORN PLANTED AND HARVESTED FOR GRAIN: Acreage Harvested, Yield, Production, Sales, and Value, Utah, Selected Years**

| Year       | Planted for All Purposes | Acres Harvested | Yield Per Acre | Production    | Marketing Year Average Price | Value of Production |
|------------|--------------------------|-----------------|----------------|---------------|------------------------------|---------------------|
|            | ----- 1,000 Acres -----  |                 | Bushels        | 1,000 Bushels | Dollars per Bushel           | 1,000 Dollars       |
| 1940 ..... | 29                       | 10              | 29.0           | 290           | --                           | --                  |
| 1950 ..... | 31                       | 5               | 50.0           | 250           | --                           | --                  |
| 1960 ..... | 49                       | 3               | 64.0           | 192           | 1.50                         | 288                 |
| 1970 ..... | 63                       | 10              | 90.0           | 900           | 1.40                         | 1,260               |
| 1980 ..... | 100                      | 15              | 100.0          | 1,500         | 3.75                         | 5,625               |
| 1985 ..... | 80                       | 16              | 115.0          | 1,840         | 2.80                         | 5,152               |
| 1986 ..... | 72                       | 18              | 125.0          | 2,250         | 2.16                         | 4,860               |
| 1987 ..... | 70                       | 20              | 140.0          | 2,800         | 2.40                         | 6,720               |
| 1988 ..... | 70                       | 22              | 124.0          | 2,728         | 3.15                         | 8,593               |
| 1989 ..... | 65                       | 20              | 132.0          | 2,640         | 2.80                         | 7,392               |
| 1990 ..... | 65                       | 19              | 140.0          | 2,660         | 2.79                         | 7,421               |
| 1991 ..... | 68                       | 21              | 140.0          | 2,940         | 2.85                         | 8,379               |

**WINTER WHEAT: Acreage, Yield, Production, and Value, Utah, Selected Years**

| Year         | Acres                   |           | Yield per Acre | Production   | Marketing Year Average Price <sup>1/</sup> | Value of Production |
|--------------|-------------------------|-----------|----------------|--------------|--|---------------------|
|              | Planted                 | Harvested |                |              |  |                     |
|              | ----- 1,000 Acres ----- |           | Bushel         | 1,000 Bushel | Dollars per Bushel                         | 1,000 Dollars       |
| 1940 . . . . | 191                     | 180       | 19.0           | 3,420        | .63  | 2,155               |
| 1950 . . . . | 344                     | 326       | 16.0           | 5,216        | 1.86                                       | 9,702               |
| 1960 . . . . | 193                     | 181       | 18.5           | 3,348        | 1.71                                       | 5,725               |
| 1970 . . . . | 200                     | 191       | 27.0           | 5,157        | 1.41                                       | 7,271               |
| 1980 . . . . | 260                     | 242       | 31.0           | 7,502        | 3.95                                       | 29,633              |
| 1985 . . . . | 230                     | 220       | 32.0           | 7,040        | 3.00                                       | 21,120              |
| 1986 . . . . | 235                     | 225       | 36.0           | 8,100        | 2.42                                       | 19,602              |
| 1987 . . . . | 180                     | 170       | 43.0           | 7,310        | 2.50                                       | 18,275              |
| 1988 . . . . | 160                     | 155       | 36.0           | 5,580        | 3.84                                       | 21,427              |
| 1989 . . . . | 165                     | 155       | 32.0           | 4,960        | 3.75                                       | 18,600              |
| 1990 . . . . | 155                     | 150       | 40.0           | 6,000        | 2.83                                       | 16,980              |
| 1991 . . . . | 140                     | 130       | 36.0           | 4,680        | 3.10                                       | 14,508              |

<sup>1/</sup> Prior to 1979 includes adjustment for outstanding loans and government purchases. Starting 1979 excludes adjustment for outstanding loans and government purchases.

**SPRING WHEAT: Acreage, Yield, Production, and Value, Utah, Selected Years**

| Year         | Acres                   |           | Yield per Acre | Production   | Marketing Year Average Price <sup>1/</sup> | Value of Production |
|--------------|-------------------------|-----------|----------------|--------------|--|---------------------|
|              | Planted                 | Harvested |                |              |  |                     |
|              | ----- 1,000 Acres ----- |           | Bushel         | 1,000 Bushel | Dollars per Bushel                         | 1,000 Dollars       |
| 1940 . . . . | 68                      | 66        | 31.0           | 2,046        | .65  | 1,330               |
| 1950 . . . . | 84                      | 82        | 32.0           | 2,624        | 1.86                                       | 4,881               |
| 1960 . . . . | 52                      | 48        | 40.5           | 1,944        | 1.61                                       | 3,130               |
| 1970 . . . . | 23                      | 21        | 44.0           | 924          | 1.36                                       | 1,257               |
| 1980 . . . . | 32                      | 30        | 48.0           | 1,440        | 3.80                                       | 5,472               |
| 1985 . . . . | 44                      | 40        | 40.0           | 1,600        | 3.05                                       | 4,880               |
| 1986 . . . . | 35                      | 33        | 50.0           | 1,650        | 2.48                                       | 4,092               |
| 1987 . . . . | 32                      | 29        | 57.0           | 1,653        | 2.55                                       | 4,215               |
| 1988 . . . . | 24                      | 22        | 54.0           | 1,188        | 3.71                                       | 4,407               |
| 1989 . . . . | 25                      | 22        | 45.0           | 990          | 3.70                                       | 3,663               |
| 1990 . . . . | 30                      | 26        | 45.0           | 1,170        | 2.92                                       | 3,416               |
| 1991 . . . . | 25                      | 23        | 49.0           | 1,127        | 2.95                                       | 3,325               |

<sup>1/</sup> Prior to 1979 includes adjustment for outstanding loans and government purchases. Starting 1979 excludes adjustment for outstanding loans and government purchases.

**ALL WHEAT: Acreage, Yield, Production, and Value, Utah, Selected Years**

| Year         | Acres               |           | Yield per Acre | Production   | Marketing Year Average Price <sup>1/</sup> | Value of Production |
|--------------|---------------------|-----------|----------------|--------------|--|---------------------|
|              | Planted             | Harvested |                |              |  |                     |
|              | --- 1,000 Acres --- |           | Bushel         | 1,000 Bushel | Dollars per Bushel                         | 1,000 Dollars       |
| 1940 . . . . | 259                 | 246       | 22.2           | 5,466        | 0.64                                       | 3,485               |
| 1950 . . . . | 428                 | 408       | 19.2           | 7,840        | 1.86                                       | 14,583              |
| 1960 . . . . | 245                 | 229       | 23.1           | 5,292        | 1.67                                       | 8,855               |
| 1970 . . . . | 223                 | 212       | 28.7           | 6,081        | 1.40                                       | 8,528               |
| 1980 . . . . | 292                 | 272       | 32.9           | 8,942        | 3.93                                       | 35,105              |
| 1985 . . . . | 274                 | 260       | 33.2           | 8,640        | 3.01                                       | 26,000              |
| 1986 . . . . | 270                 | 258       | 37.8           | 9,750        | 2.43                                       | 23,694              |
| 1987 . . . . | 212                 | 199       | 45.0           | 8,963        | 2.51                                       | 22,490              |
| 1988 . . . . | 184                 | 177       | 38.2           | 6,768        | 3.82                                       | 25,834              |
| 1989 . . . . | 190                 | 177       | 33.6           | 5,950        | 3.74                                       | 22,263              |
| 1990 . . . . | 185                 | 176       | 40.7           | 7,170        | 2.83                                       | 20,396              |
| 1991 . . . . | 165                 | 153       | 38.0           | 5,807        | 3.05                                       | 17,833              |

<sup>1/</sup> Prior to 1979 includes adjustment for outstanding loans and government purchases. Starting 1979 excludes adjustment for outstanding loans and government purchases.

**BARLEY: Acreage, Yield, Production, and Value, Utah, Selected Years**

| Year         | Acres               |           | Yield per Acre | Production   | Marketing Year Average Price <sup>1/</sup> | Value of Production |
|--------------|---------------------|-----------|----------------|--------------|--|---------------------|
|              | Planted             | Harvested |                |              |  |                     |
|              | --- 1,000 Acres --- |           | Bushel         | 1,000 Bushel | Dollars per Bushel                         | 1,000 Dollars       |
| 1940 . . . . | 109                 | 107       | 41.0           | 4,387        | 0.46                                       | 2,018               |
| 1950 . . . . | 146                 | 141       | 44.0           | 6,204        | 1.16                                       | 7,197               |
| 1960 . . . . | 160                 | 147       | 43.5           | 6,394        | 1.00                                       | 6,394               |
| 1970 . . . . | 148                 | 141       | 58.5           | 8,249        | 1.07                                       | 8,826               |
| 1980 . . . . | 162                 | 148       | 79.0           | 11,692       | 2.88                                       | 31,116              |
| 1985 . . . . | 172                 | 159       | 74.0           | 11,766       | 2.28                                       | 26,826              |
| 1986 . . . . | 165                 | 152       | 76.0           | 11,552       | 1.85                                       | 21,371              |
| 1987 . . . . | 152                 | 142       | 83.0           | 11,786       | 1.84                                       | 21,686              |
| 1988 . . . . | 139                 | 125       | 77.0           | 9,625        | 2.64                                       | 25,410              |
| 1989 . . . . | 134                 | 114       | 79.0           | 9,006        | 2.23                                       | 20,083              |
| 1990 . . . . | 115                 | 105       | 81.0           | 8,505        | 2.37                                       | 20,157              |
| 1991 . . . . | 105                 | 95        | 83.0           | 7,885        | 2.20                                       | 17,347              |

<sup>1/</sup> Prior to 1979 includes adjustment for outstanding loans and government purchases. Starting 1979 excludes adjustment for outstanding loans and government purchases.

**OATS: Acreage, Yield, Production, and Value, Utah, Selected Years**

| Year    | Acres             |           | Yield per Acre | Production   | Marketing Year Average Price<br>1/ | Value of Production |
|---------|-------------------|-----------|----------------|--------------|------------------------------------|---------------------|
|         | Planted           | Harvested |                |              |                                    |                     |
|         | -- 1,000 Acres -- |           | Bushel         | 1,000 Bushel | Dollars per Bu.                    | 1,000 Dollars       |
| 1940 .. | 46                | 39        | 39.0           | 1,521        | .34                                | 517                 |
| 1950 .. | 56                | 51        | 45.0           | 2,295        | .89                                | 2,043               |
| 1960 .. | 29                | 23        | 46.0           | 1,058        | .83                                | 878                 |
| 1970 .. | 24                | 17        | 60.0           | 1,020        | .76                                | 775                 |
| 1980 .. | 26                | 15        | 61.0           | 915          | 1.95                               | 1,784               |
| 1985 .. | 26                | 13        | 71.0           | 923          | 1.65                               | 1,523               |
| 1986 .. | 27                | 12        | 72.0           | 864          | 1.55                               | 1,339               |
| 1987 .. | 28                | 14        | 69.0           | 966          | 1.70                               | 1,642               |
| 1988 .. | 32                | 14        | 72.0           | 1,008        | 2.56                               | 2,580               |
| 1989 .. | 36                | 17        | 74.0           | 1,258        | 1.70                               | 2,139               |
| 1990 .. | 40                | 12        | 68.0           | 816          | 1.68                               | 1,371               |
| 1991 .. | 50                | 8         | 77.0           | 616          | 1.55                               | 955                 |

1/ Prior to 1979 includes adjustment for outstanding loans and government purchases. Starting 1979 excludes adjustment for outstanding loans and government purchases.

**DRY BEANS: Acreage, Yield, Production, and Value, Utah, Selected Years**

| Year    | Acres             |           | Yield per Acre | Production | Marketing Year Average Price | Value of Production |
|---------|-------------------|-----------|----------------|------------|------------------------------|---------------------|
|         | Planted           | Harvested |                |            |                              |                     |
|         | -- 1,000 Acres -- |           | Pounds         | 1,000 Cwt  | Dollars per Cwt              | 1,000 Dollars       |
| 1940 .. | 9                 | 9         | 500            | 40         | 3.55                         | 142                 |
| 1950 .. | 12                | 11        | 280            | 27         | 6.40                         | 173                 |
| 1960 .. | 8                 | 6         | 300            | 18         | 7.10                         | 128                 |
| 1970 .. | 20                | 20        | 430            | 86         | 7.90                         | 679                 |
| 1980 .. | 12                | 11        | 380            | 42         | 28.00                        | 1,176               |
| 1985 .. | 8.5               | 8.4       | 480            | 40         | 18.00                        | 720                 |
| 1986 .. | 9.0               | 8.5       | 480            | 41         | 15.00                        | 615                 |
| 1987 .. | 6.8               | 6.7       | 700            | 47         | 15.30                        | 719                 |
| 1988 .. | 4.5               | 4.5       | 580            | 26         | 33.20                        | 863                 |
| 1989 .. | 5.6               | 5.0       | 300            | 15         | 31.70                        | 476                 |
| 1990 .. | 5.5               | 4.0       | 330            | 13         | 19.00                        | 247                 |
| 1991 .. | 6.0               | 5.5       | 480            | 26         | 16.00                        | 416                 |

**POTATOES: Acreage, Yield, Production, and Value, Utah, Selected Years**

| Year     | Acres                   |           | Yield per Acre | Production | Marketing Year Average Price | Value of Production |
|----------|-------------------------|-----------|----------------|------------|------------------------------|---------------------|
|          | Planted                 | Harvested |                |            |                              |                     |
|          | ----- 1,000 Acres ----- |           | Cwt            | 1,000 Cwt  | Dollars per Cwt              | 1,000 Dollars       |
| 1940 ... | 13.0                    | 12.9      | 102            | 1,316      | .70                          | 921                 |
| 1950 ... | 13.5                    | 13.0      | 147            | 1,911      | 1.75                         | 3,344               |
| 1960 ... | 8.3                     | 7.9       | 170            | 1,343      | 2.28                         | 3,062               |
| 1970 ... | 6.0                     | 5.9       | 170            | 1,003      | 2.38                         | 2,387               |
| 1980 ... | 5.3                     | 5.2       | 225            | 1,170      | 5.15                         | 6,026               |
| 1985 ... | 6.6                     | 6.5       | 255            | 1,658      | 4.50                         | 7,461               |
| 1986 ... | 6.4                     | 6.4       | 275            | 1,760      | 4.45                         | 7,832               |
| 1987 ... | 6.6                     | 6.6       | 240            | 1,584      | 4.50                         | 7,128               |
| 1988 ... | 6.8                     | 6.6       | 245            | 1,617      | 5.20                         | 8,408               |
| 1989 ... | 6.3                     | 6.1       | 245            | 1,495      | 6.60                         | 9,867               |
| 1990 ... | 6.3                     | 6.2       | 265            | 1,643      | 6.00                         | 9,858               |
| 1991 ... | 6.1                     | 6.0       | 270            | 1,620      | 5.10                         | 8,262               |

**POTATOES: Production, Farm Use, Sales, and Value, Utah, Selected Years**

| Year             | Production | Total Used for Seed <u>1/</u> | Farm Disposition                |                   |       | Price per Cwt | Value of Sales |
|------------------|------------|-------------------------------|---------------------------------|-------------------|-------|---------------|----------------|
|                  |            |                               | Used on Farms Where Grown       |                   | Sold  |               |                |
|                  |            |                               | For Seed, Feed, & Household Use | Shrinkage, & Loss |       |               |                |
|                  |            |                               | ----- 1,000 Cwt -----           |                   |       | Dollars       | 1,000 Dollars  |
| 1940 ...         | 1,316      | --                            | --                              | --                | 915   | .70           | 640            |
| 1950 ...         | 1,911      | --                            | --                              | --                | 1,540 | 1.75          | 2,695          |
| 1960 ...         | 1,343      | 118                           | 119                             | 117               | 1,107 | 2.28          | 2,524          |
| 1970 ...         | 1,003      | 81                            | 49                              | 90                | 864   | 2.38          | 2,056          |
| 1980 ...         | 1,170      | 149                           | 31                              | 119               | 1,020 | 5.15          | 5,253          |
| 1985 ...         | 1,658      | 154                           | 71                              | 171               | 1,416 | 4.50          | 6,372          |
| 1986 ...         | 1,760      | 158                           | 14                              | 215               | 1,531 | 4.45          | 6,813          |
| 1987 ...         | 1,584      | 156                           | 22                              | 111               | 1,451 | 4.50          | 6,530          |
| 1988 ...         | 1,617      | 139                           | 30                              | 81                | 1,506 | 5.20          | 7,831          |
| 1989 ...         | 1,495      | 156                           | 51                              | 136               | 1,308 | 6.60          | 8,633          |
| 1990 <u>2/</u> . | 1,643      | 145                           | 53                              | 158               | 1,432 | 6.00          | 8,592          |
| 1991 <u>3/</u> . | 1,620      |                               |                                 |                   |       |               |                |

1/ Includes seed purchased and seed used on farms where grown. 2/ Preliminary. 3/ Available September 24, 1992.



**ALL HAY: Acreage, Yield, Production, and Value, Utah, Selected Years**

| Year       | Acres Harvested | Yield per Acre | Production | Marketing Year Average Price <sup>1/</sup> | Value of Production <sup>2/</sup> |
|------------|-----------------|----------------|------------|--|-----------------------------------|
|            | 1,000 Acres     | Tons           | 1,000 Tons | Dollars per Ton                            | 1,000 Dollars                     |
| 1940 ..... | 553             | 1.92           | 1,059      | 10.50                                      | 11,120                            |
| 1950 ..... | 534             | 1.91           | 1,020      | 22.20                                      | 22,644                            |
| 1960 ..... | 566             | 2.26           | 1,281      | 26.40                                      | 33,818                            |
| 1970 ..... | 563             | 2.91           | 1,638      | 25.00                                      | 40,950                            |
| 1980 ..... | 605             | 3.43           | 2,076      | 70.00                                      | 144,060                           |
| 1984 ..... | 610             | 3.54           | 2,160      | 70.50                                      | 152,280                           |
| 1985 ..... | 605             | 3.44           | 2,084      | 67.00                                      | 139,628                           |
| 1986 ..... | 625             | 3.42           | 2,135      | 62.50                                      | 133,438                           |
| 1987 ..... | 645             | 3.60           | 2,324      | 67.00                                      | 155,708                           |
| 1988 ..... | 630             | 3.46           | 2,177      | 76.00                                      | 165,452                           |
| 1989 ..... | 600             | 3.31           | 1,986      | 82.50                                      | 165,723                           |
| 1990 ..... | 625             | 3.40           | 2,123      | 79.50                                      | 173,269                           |
| 1991 ..... | 640             | 3.55           | 2,275      | 61.50                                      | 137,935                           |

<sup>1/</sup> Starting in 1989, the marketing year average price for all hay is derived from alfalfa and alfalfa mixtures, and other hay monthly prices and sales. <sup>2/</sup> Starting in 1989 the value of production is the sum of alfalfa and alfalfa mixtures, and all other hay.

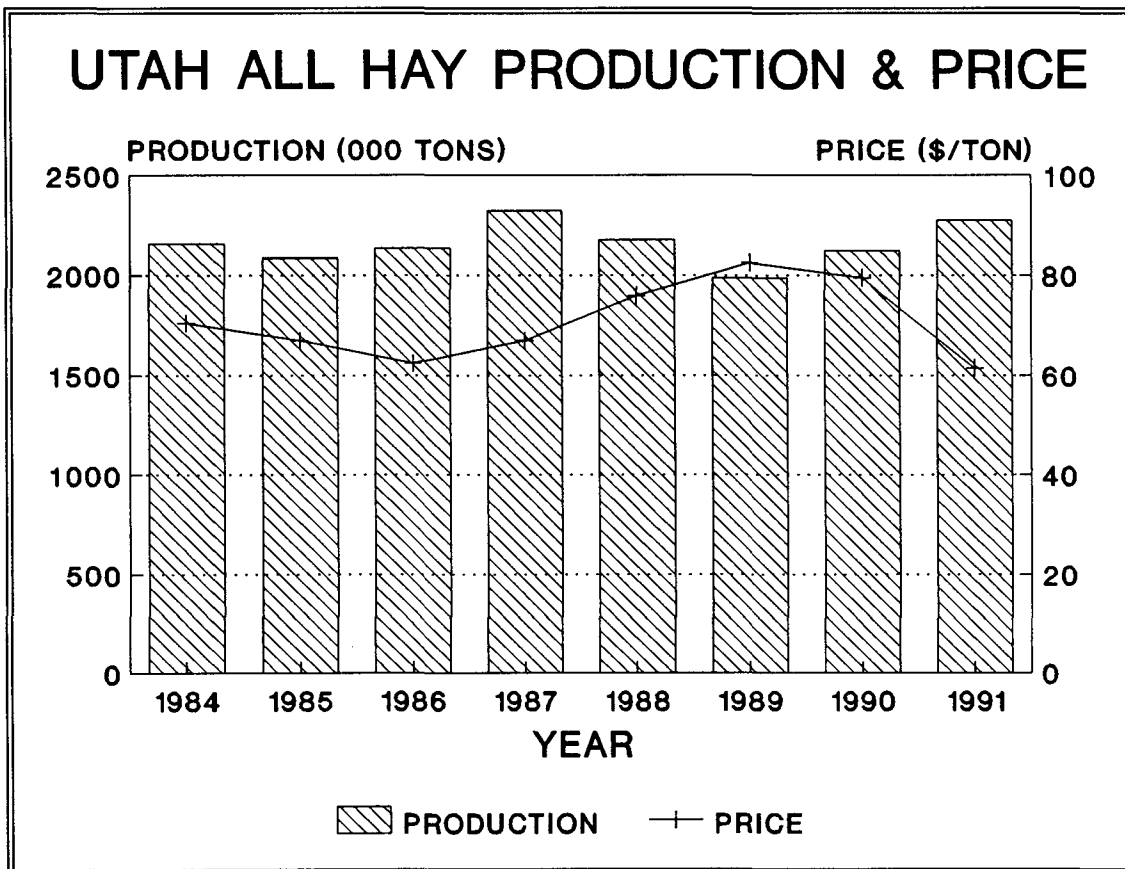
**HAY, ALFALFA & ALFALFA MIXTURE: Acreage, Yield & Production, and Value, Utah, Selected Years**

| Year       | Acres Harvested | Yield per Acre | Production | Marketing Year Average Price | Value of Production |
|------------|-----------------|----------------|------------|------------------------------|---------------------|
|            | 1,000 Acres     | Tons           | 1,000 Tons | Dollars per Ton              | 1,000 Dollars       |
| 1940 ..... | 431             | 2.10           | 905        | NA                           | NA                  |
| 1950 ..... | 361             | 2.20           | 794        | NA                           | NA                  |
| 1960 ..... | 439             | 2.55           | 1,119      | NA                           | NA                  |
| 1970 ..... | 441             | 3.25           | 1,433      | NA                           | NA                  |
| 1980 ..... | 470             | 3.90           | 1,833      | NA                           | NA                  |
| 1984 ..... | 470             | 4.00           | 1,880      | NA                           | NA                  |
| 1985 ..... | 460             | 3.90           | 1,794      | NA                           | NA                  |
| 1986 ..... | 470             | 3.90           | 1,833      | NA                           | NA                  |
| 1987 ..... | 485             | 4.10           | 1,988      | NA                           | NA                  |
| 1988 ..... | 490             | 3.90           | 1,911      | NA                           | NA                  |
| 1989 ..... | 470             | 3.70           | 1,739      | 85.00                        | 147,815             |
| 1990 ..... | 485             | 3.80           | 1,843      | 83.00                        | 152,969             |
| 1991 ..... | 490             | 4.00           | 1,960      | 62.50                        | 122,500             |

**HAY, ALL OTHER: Acreage, Yield, Production, and Value, Utah, Selected Years 1/**

| Year       | Acres Harvested | Yield per Acre | Production | Marketing Year Average Price | Value of Production |
|------------|-----------------|----------------|------------|------------------------------|---------------------|
|            | 1,000 Acres     | Tons           | 1,000 Tons | Dollars per Ton              | 1,000 Dollars       |
| 1940 ..... | 122             | 1.26           | 154        | NA                           | NA                  |
| 1950 ..... | 173             | 1.31           | 226        | NA                           | NA                  |
| 1960 ..... | 127             | 1.28           | 162        | NA                           | NA                  |
| 1970 ..... | 122             | 1.68           | 205        | NA                           | NA                  |
| 1980 ..... | 135             | 1.80           | 243        | NA                           | NA                  |
| 1984 ..... | 140             | 2.00           | 280        | NA                           | NA                  |
| 1985 ..... | 145             | 2.00           | 290        | NA                           | NA                  |
| 1986 ..... | 155             | 1.95           | 302        | NA                           | NA                  |
| 1987 ..... | 160             | 2.10           | 336        | NA                           | NA                  |
| 1988 ..... | 140             | 1.90           | 266        | NA                           | NA                  |
| 1989 ..... | 130             | 1.90           | 247        | 72.50                        | 17,908              |
| 1990 ..... | 140             | 2.00           | 280        | 72.50                        | 20,300              |
| 1991 ..... | 150             | 2.10           | 315        | 49.00                        | 15,435              |

1/ Includes clover, timothy, grain, other tame and wild hays.



**GRAIN STOCKS: Wheat, Barley, Oats, and Corn - Stored Off Farm  
by Quarters; Utah, Selected Years 1/ 2/**

| Year Beginning | September 1 | December 1 | Following Year |        |
|----------------|-------------|------------|----------------|--------|
|                |             |            | March 1        | June 1 |

1,000 Bushels

ALL WHEAT

|            |       |       |       |           |
|------------|-------|-------|-------|-----------|
| 1960 ..... | 7,116 | 5,867 | 4,369 | 2,105     |
| 1970 ..... | 5,424 | 5,323 | 4,252 | 2,264     |
| 1980 ..... | 7,527 | 5,898 | 4,748 | 3,881     |
| 1987 ..... | 9,242 | 8,888 | 8,386 | 5,569     |
| 1988 ..... | 5,995 | 6,373 | 4,967 | 3,523     |
| 1989 ..... | 4,807 | 4,926 | 5,736 | 4,102     |
| 1990 ..... | 6,835 | 5,024 | 6,564 | 4,739     |
| 1991 ..... | 6,005 | 6,435 | 6,504 | <u>3/</u> |

BARLEY

|            |       |       |       |           |
|------------|-------|-------|-------|-----------|
| 1960 ..... | 1,653 | 1,087 | 848   | 477       |
| 1970 ..... | 3,990 | 3,110 | 1,364 | 755       |
| 1980 ..... | 5,563 | 3,356 | 1,585 | 856       |
| 1987 ..... | NA    | NA    | NA    | 1,210     |
| 1988 ..... | 3,117 | 3,376 | 2,086 | 950       |
| 1989 ..... | 3,535 | 2,477 | 1,565 | 848       |
| 1990 ..... | 2,698 | 1,194 | 1,734 | 706       |
| 1991 ..... | 3,057 | 2,103 | 1,427 | <u>3/</u> |

OATS

|            |     |     |     |           |
|------------|-----|-----|-----|-----------|
| 1987 ..... | NA  | NA  | NA  | 371       |
| 1988 ..... | NA  | NA  | NA  | 129       |
| 1989 ..... | NA  | NA  | 177 | 97        |
| 1990 ..... | 177 | 181 | 170 | 102       |
| 1991 ..... | 114 | 179 | 193 | <u>3/</u> |

| Year Beginning | December 1 | Following Year |        |             |
|----------------|------------|----------------|--------|-------------|
|                |            | March 1        | June 1 | September 1 |

1,000 Bushels

CORN

|            |       |       |           |       |
|------------|-------|-------|-----------|-------|
| 1987 ..... | 8,137 | 6,991 | 7,190     | 2,619 |
| 1988 ..... | 6,640 | 6,415 | 4,828     | 4,146 |
| 1989 ..... | 3,066 | 1,517 | 561       | 169   |
| 1990 ..... | 865   | 908   | 480       | 475   |
| 1991 ..... | 826   | 775   | <u>3/</u> | --    |

NA = Not available. 1/ Includes stocks at mills, elevators, warehouses, terminals, processors, and CCC owned grain at bin sites. 2/ Beginning September 1, 1986, quarterly reference dates were changed from October 1 to September 1; January 1 to December 1; and April 1 to March 1. 3/ Estimates available June 27, 1992.

## Fruits

Utah's 1991 fruit crop production was below the previous year for all fruits except tart cherries and apples which were just about doubled. A severe cold spell preceded by above normal temperatures in addition to a spring freeze caused significant tree damage.

Apple production at 55 million pounds was up 129 percent from 1990. Utilized production was 52 million pounds. Producers received an average price of 20.0 cents per pound, 1.2 cents above last year. The total value of utilized production at \$10.4 million was 152 percent higher than the previous year.

Apricot production decreased by 60 percent from 1990 to a level of 100 tons in 1991. Utilized production was 90 tons. Producers received an average of \$820 per ton, \$360 per ton more than the previous year. Total value of production was \$74,000, down 33 percent from 1990.

Peach production at 2.5 million pounds was down 79 percent from 1990. Utilized production at 2.5 million pounds was 78 percent below the previous year. Average price per pound was 34.0 cents bringing total value of the crop to \$850,000, 69 percent lower than in 1990.

Pear production in Utah at 2,200 tons was 21 percent lower than the year before. The average price received by growers was \$440 per ton, \$60 higher than 1990. Total value for the crop was \$968,000, down 9 percent from the year earlier.

Sweet Cherry producers harvested 800 tons, 600 tons less than 1990. Utilized production was 800 tons. Average price received by growers was \$875 per ton, up \$230 from the previous year. The total value of the crop was \$700,000, down 20 percent from 1990.

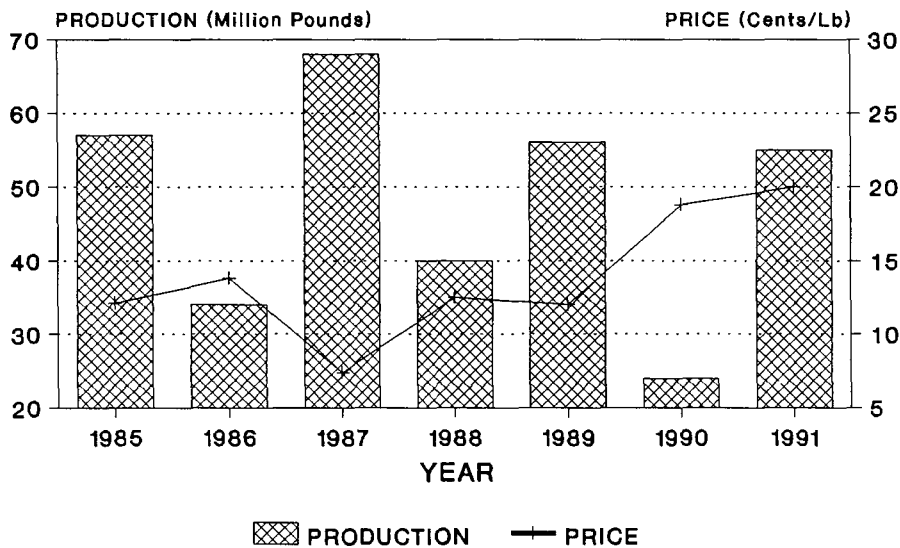
Tart Cherry production was 26 million pounds, 68 percent higher than 1990. Utilized production was 26 million pounds. Tart cherry prices for the 1991 crop will not be published until July 7, 1992.

**USUAL BLOOMING AND HARVESTING DATES: Fruits, Utah 1/**

| Fruit Crop           | 1991 Total Production | Usual Dates of Full Bloom | Usual Harvesting Dates    |               |        | Principal Producing Counties                         |
|----------------------|-----------------------|---------------------------|---------------------------|---------------|--------|--|
|                      |                       |                           | Begins                    | Most Active   | Ends   |  |
|                      | Tons                  |                           | ----- Month and Day ----- |               |        | Counties   |
| Apricots . . .       | 100                   | Apr 5-10                  | Jun 10                    | Jun 15-Jul 30 | Aug 5  | Washington, Box Elder, Weber, Davis, Utah            |
| Sweet Cherries . . . | 800                   | Apr 15-24                 | Jun 10                    | Jun 15-Jul 15 | Jul 20 | Washington, Utah, Davis, Box Elder, Weber            |
| Pears . . . . .      | 2,200                 | Apr 25-30                 | Aug 5                     | Aug 10-Sep 15 | Sep 23 | Washington, Utah, Cache, Weber, Salt Lake, Box Elder |
| Apples . . . .       | 55.0                  | May 5                     | Sep 19                    | Sep 19-Oct 8  | Nov 1  | Utah, Box Elder, Weber, Davis, Salt Lake             |
| Tart Cherries        | 26.0                  | Apr 24                    | Jul 10                    | Jul 15-Jul 30 | Aug 10 | Utah, Box Elder, Weber, Davis, Salt Lake             |
| Peaches . . .        | 2.5                   | Apr 10-20                 | Jul 25                    | Aug 25-Sep 15 | Sep 20 | Utah, Box Elder, Davis, Weber, Salt Lake             |

1/ USDA Agriculture Handbook 186, December 1975.

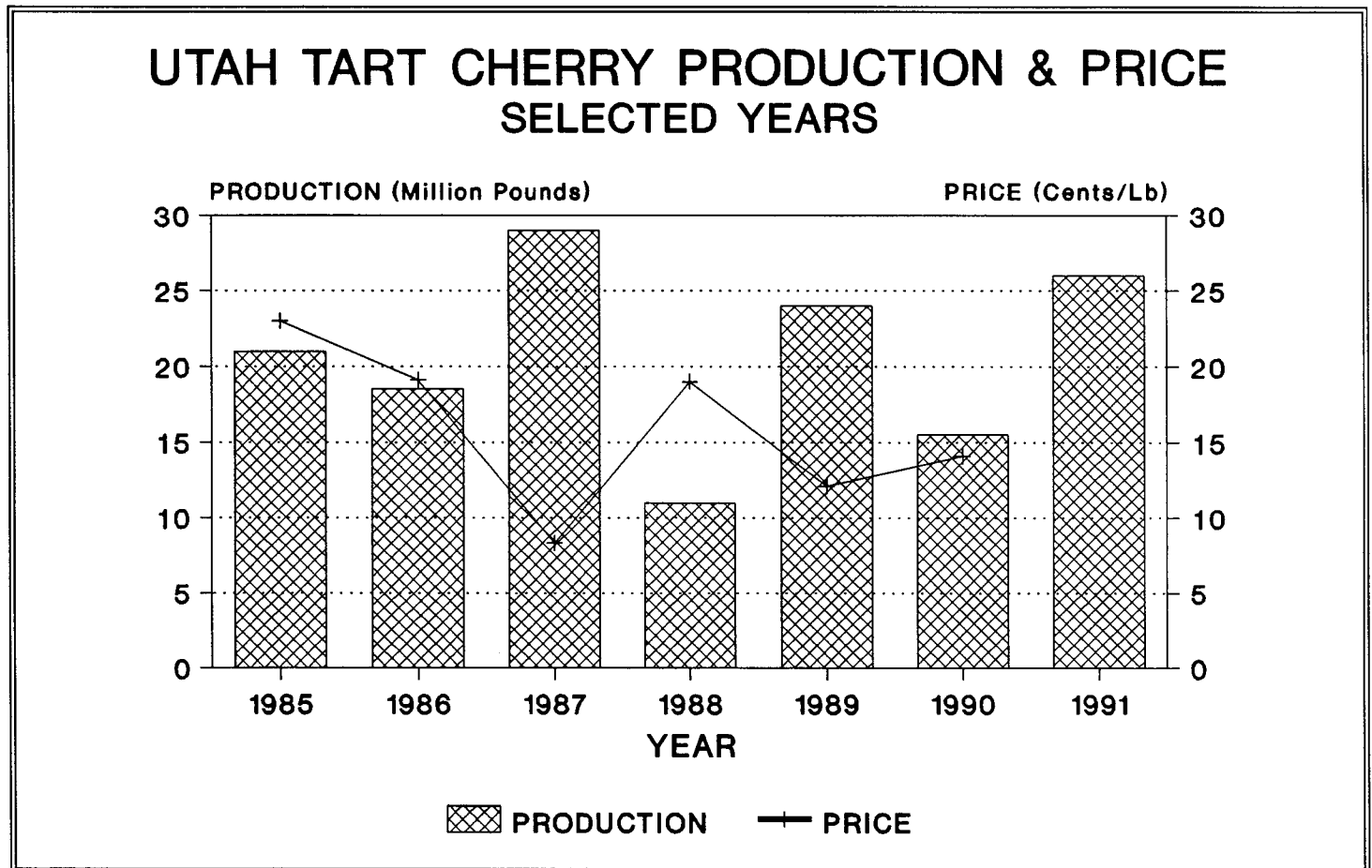
**UTAH APPLE PRODUCTION & PRICE  
SELECTED YEARS**



**FRUIT: Value, Utah, Selected Years**

| Year          | Apples | Peaches | Pears | Sweet Cherries | Tart Cherries | Apricots | Total  |
|---------------|--------|---------|-------|----------------|---------------|----------|--------|
| 1,000 Dollars |        |         |       |                |               |          |        |
| 1940 ...      | 339    | 590     | 172   | 248            | 101           | 212      | 1,662  |
| 1950 ...      | 733    | 431     | 126   | 124            | 142           | 72       | 1,658  |
| 1960 ...      | 496    | 587     | 451   | 488            | 389           | 242      | 2,653  |
| 1970 ...      | 1,570  | 826     | 439   | 830            | 696           | 176      | 4,537  |
| 1980 ...      | 5,472  | 1,925   | 900   | 2,464          | 2,438         | 540      | 13,739 |
| 1985 ...      | 6,650  | 1,870   | 735   | 1,624          | 4,832         | 152      | 15,863 |
| 1986 ...      | 4,690  | 1,947   | 759   | 1,509          | 3,533         | 104      | 12,542 |
| 1987 ...      | 4,635  | 1,760   | 680   | 1,181          | 1,654         | 147      | 10,057 |
| 1988 ...      | 4,860  | 2,242   | 768   | 1,505          | 1,826         | 152      | 11,353 |
| 1989 ...      | 6,458  | 2,258   | 884   | 1,280          | 2,716         | 165      | 13,761 |
| 1990 ...      | 4,132  | 2,760   | 1,064 | 871            | 1,906         | 110      | 10,843 |
| 1991 ...      | 10,400 | 850     | 968   | 700            | 1/3,666       | 74       | 16,658 |

1/ 1990 price times the 1991 production was used to calculate the 1991 value. The preliminary 1991 price and value will be published in the Non-Citrus Fruits and Nuts Annual published July 7, 1992.





**COMMERCIAL APPLES: Production, Use, and Value, Utah, Selected Years**

| Year                       | Production |              |          | Utilization |           | Average Price | Value of Utilized Production |
|----------------------------|------------|--------------|----------|-------------|-----------|---------------|------------------------------|
|                            | Total      | Not Utilized | Utilized | Fresh       | Processed |               |                              |
| ----- Million Pounds ----- |            |              |          |             |           | Cents per Lb  | 1,000 Dollars                |
| 1940 ...                   | 22.3       | 2.7          | 19.6     | --          | --        | 1.7           | 339                          |
| 1950 ...                   | 13.5       | --           | 13.5     | --          | --        | 5.4           | 733                          |
| 1960 ...                   | 10.3       | --           | 10.3     | --          | --        | 4.8           | 496                          |
| 1970 ...                   | 28.0       | .5           | 27.5     | 21.3        | 6.2       | 5.7           | 1,570                        |
| 1980 ...                   | 52.0       | 2.0          | 50.0     | 42.0        | 8.0       | 10.9          | 5,472                        |
| 1985 ...                   | 57.0       | 2.0          | 55.0     | 44.5        | 10.5      | 12.1          | 6,650                        |
| 1986 ...                   | 34.0       | --           | 34.0     | 26.5        | 7.5       | 13.8          | 4,690                        |
| 1987 ...                   | 68.0       | 5.0          | 63.0     | 36.0        | 27.0      | 7.4           | 4,635                        |
| 1988 ...                   | 40.0       | 1.0          | 39.0     | 30.0        | 9.0       | 12.5          | 4,860                        |
| 1989 ...                   | 56.0       | 2.0          | 54.0     | 40.0        | 14.0      | 12.0          | 6,458                        |
| 1990 ...                   | 24.0       | 2.0          | 22.0     | 18.0        | 4.0       | 18.8          | 4,132                        |
| 1991 <u>1/</u> .           | 55.0       | 3.0          | 52.0     | <u>2/</u>   | <u>2/</u> | 20.0          | 10,400                       |

1/ Preliminary estimates. Estimates subject to revision in the Non-Citrus Fruits and Nuts Annual July 7, 1992.

2/ Estimates available July 7, 1992.

**APRICOTS: Production, Use, and Value, Utah, Selected Years**

| Year             | Production |              |          | Utilization     |           | Average Price   | Value of Utilized Production |
|------------------|------------|--------------|----------|-----------------|-----------|-----------------|------------------------------|
|                  | Total      | Not Utilized | Utilized | Fresh <u>1/</u> | Processed |                 |                              |
| ----- Tons ----- |            |              |          |                 |           | Dollars per Ton | 1,000 Dollars                |
| 1940 ...         | 7,800      | --           | 7,800    | --              | --        | 27.20           | 212                          |
| 1950 ...         | 400        | --           | 400      | --              | --        | 180.00          | 72                           |
| 1960 ...         | 2,500      | --           | 2,500    | --              | --        | 96.60           | 242                          |
| 1970 ...         | 1,300      | --           | 1,300    | 1,300           | --        | 135.00          | 176                          |
| 1980 ...         | 1,500      | --           | 1,500    | 1,500           | --        | 360.00          | 540                          |
| 1985 ...         | 450        | 50           | 400      | 400             | --        | 380.00          | 152                          |
| 1986 ...         | 350        | 50           | 300      | 300             | --        | 347.00          | 104                          |
| 1987 ...         | 450        | 100          | 350      | 350             | --        | 420.00          | 147                          |
| 1988 ...         | 500        | 100          | 400      | 400             | --        | 380.00          | 152                          |
| 1989 ...         | 400        | 50           | 350      | 350             | --        | 470.00          | 165                          |
| 1990 ...         | 250        | 10           | 240      | 240             | --        | 460.00          | 110                          |
| 1991 <u>2/</u> . | 100        | 10           | 90       | 90              | --        | 820.00          | 74                           |

1/ Small quantities processed are included in "fresh" to avoid disclosure of individual operations. 2/ Preliminary estimates. Estimates subject to revision in the Non-Citrus Fruits and Nuts Annual July 7, 1992.

**PEACHES: Production, Use, and Value, Utah, Selected Years**

| Year                       | Production |              |          | Utilization |           | Average Price | Value of Utilized Production |
|----------------------------|------------|--------------|----------|-------------|-----------|---------------|------------------------------|
|                            | Total      | Not Utilized | Utilized | Fresh       | Processed |               |                              |
| ----- Million Pounds ----- |            |              |          |             |           | Cents per Lb. | 1,000 Dollars                |
| 1940 ...                   | 35.4       | --           | 35.4     | --          | --        | 1.7           | 590                          |
| 1950 ...                   | 5.4        | --           | 5.4      | --          | --        | 8.0           | 431                          |
| 1960 ...                   | 8.6        | --           | 8.6      | --          | --        | 6.8           | 587                          |
| 1970 ...                   | 13.0       | --           | 13.0     | 13.0        | --        | 6.4           | 826                          |
| 1980 ...                   | 11.0       | --           | 11.0     | 11.0        | --        | 17.5          | 1,925                        |
| 1985 ...                   | 11.5       | 0.5          | 11.0     | 11.0        | --        | 17.0          | 1,870                        |
| 1986 ...                   | 11.0       | --           | 11.0     | 11.0        | --        | 17.7          | 1,947                        |
| 1987 ...                   | 12.0       | 1.0          | 11.0     | 11.0        | --        | 16.0          | 1,760                        |
| 1988 ...                   | 12.5       | 0.7          | 11.8     | 11.8        | --        | 19.0          | 2,242                        |
| 1989 ...                   | 11.0       | 0.5          | 10.5     | 10.5        | --        | 21.5          | 2,258                        |
| 1990 ...                   | 12.0       | 0.5          | 11.5     | 11.5        | --        | 24.0          | 2,760                        |
| 1991 ...                   | 2.5        | --           | 2.5      | 2.5         | --        | 34.0          | 850                          |

**PEARS: Production, Use, and Value, Utah, Selected Years**

| Year               | Production |              |          | Utilization |           | Average Price   | Value of Utilized Production |
|--------------------|------------|--------------|----------|-------------|-----------|-----------------|------------------------------|
|                    | Total      | Not Utilized | Utilized | Fresh       | Processed |                 |                              |
| ----- Tons -----   |            |              |          |             |           | Dollars per Ton | 1,000 Dollars                |
| 1940 ...           | 4,525      | --           | 4,525    | --          | --        | 38.00           | 172                          |
| 1950 ...           | 875        | --           | 875      | --          | --        | 144.00          | 126                          |
| 1960 ...           | 4,380      | 200          | 4,180    | --          | --        | 108.00          | 451                          |
| 1970 ...           | 4,300      | --           | 4,300    | --          | --        | 102.00          | 439                          |
| 1980 ...           | 3,000      | --           | 3,000    | 3,000       | --        | 300.00          | 900                          |
| 1985 ...           | 2,500      | --           | 2,500    | 2,500       | --        | 294.00          | 735                          |
| 1986 ...           | 2,200      | --           | 2,200    | 2,200       | --        | 345.00          | 759                          |
| 1987 ...           | 2,600      | 100          | 2,500    | 2,500       | --        | 272.00          | 680                          |
| 1988 ...           | 2,000      | --           | 2,000    | 2,000       | --        | 384.00          | 768                          |
| 1989 ...           | 2,600      | --           | 2,600    | 2,600       | --        | 340.00          | 884                          |
| 1990 ...           | 2,800      | --           | 2,800    | 2,800       | --        | 380.00          | 1,064                        |
| 1991 <sup>1/</sup> | 2,200      | --           | 2,200    | 2,200       | --        | 440.00          | 968                          |

<sup>1/</sup> Preliminary estimates. Estimates subject to revisions in the Non-Citrus Fruits and Nuts Annual July 7, 1992.

**SWEET CHERRIES: Production, Use, and Value, Utah, Selected Years**

| Year             | Production |              |          | Utilization |            | Average Price   | Value of Utilized Production |
|------------------|------------|--------------|----------|-------------|------------|-----------------|------------------------------|
|                  | Total      | Not Utilized | Utilized | Fresh       | Processed  |                 |                              |
| ----- Tons ----- |            |              |          |             |            | Dollars per Ton | 1,000 Dollars                |
| 1940 ...         | 3,100      | --           | 3,100    | --          | --         | 80.00           | 248                          |
| 1950 ...         | 440        | --           | 440      | --          | --         | 282.00          | 124                          |
| 1960 ...         | 1,200      | --           | 1,200    | --          | --         | 407.00          | 488                          |
| 1970 ...         | 2,300      | --           | 2,300    | 2,030       | 270        | 361.00          | 830                          |
| 1980 ...         | 4,100      | --           | 4,100    | 3,500       | 600        | 601.00          | 2,464                        |
| 1985 ...         | 2,200      | 100          | 2,100    | <u>1</u> /  | <u>1</u> / | 773.00          | 1,624                        |
| 1986 ...         | 2,160      | --           | 2,160    | 1,300       | 860        | 699.00          | 1,509                        |
| 1987 ...         | 1,800      | 30           | 1,770    | 940         | 830        | 667.00          | 1,181                        |
| 1988 ...         | 2,000      | 60           | 1,940    | 1,430       | 510        | 776.00          | 1,505                        |
| 1989 ...         | 1,700      | 100          | 1,600    | 1,200       | 400        | 800.00          | 1,280                        |
| 1990 ...         | 1,400      | 50           | 1,350    | 500         | 850        | 645.00          | 871                          |
| 1991 ...         | 800        | --           | 800      | 460         | 340        | 875.00          | 700                          |

1/ Data not published to avoid disclosure of individual operations.

**TART CHERRIES: Production, Use and Value, Utah, Selected Years**

| Year                       | Production |              |          | Utilization |           | Average Price   | Value of Utilized Production |
|----------------------------|------------|--------------|----------|-------------|-----------|-----------------|------------------------------|
|                            | Total      | Not Utilized | Utilized | Fresh       | Processed |                 |                              |
| ----- Million Pounds ----- |            |              |          |             |           | Cents per Pound | 1,000 Dollars                |
| 1940 ...                   | 4.6        | --           | 4.6      | --          | --        | 2.2             | 101                          |
| 1950 ...                   | 1.6        | --           | 1.6      | --          | --        | 8.9             | 142                          |
| 1960 ...                   | 5.6        | --           | 5.6      | --          | --        | 6.9             | 389                          |
| 1970 ...                   | 9.8        | --           | 9.8      | .8          | 9.0       | 7.1             | 696                          |
| 1980 ...                   | 13.0       | .1           | 12.9     | .3          | 12.6      | 18.9            | 2,438                        |
| 1985 ...                   | 21.0       | --           | 21.0     | .2          | 20.8      | 23.0            | 4,832                        |
| 1986 ...                   | 18.5       | --           | 18.5     | .6          | 17.9      | 19.1            | 3,533                        |
| 1987 ...                   | 29.0       | 9.0          | 20.0     | .2          | 19.8      | 8.3             | 1,654                        |
| 1988 ...                   | 11.0       | 1.4          | 9.6      | .1          | 9.5       | 19.0            | 1,826                        |
| 1989 ...                   | 24.0       | 1.5          | 22.5     | .1          | 22.4      | 12.1            | 2,716                        |
| 1990 ...                   | 15.5       | 2.0          | 13.5     | .1          | 13.4      | 14.1            | 1,906                        |
| 1991 ...                   | 26.0       | --           | 26.0     | .1          | 25.9      | <u>1</u> /      | <u>1</u> /                   |

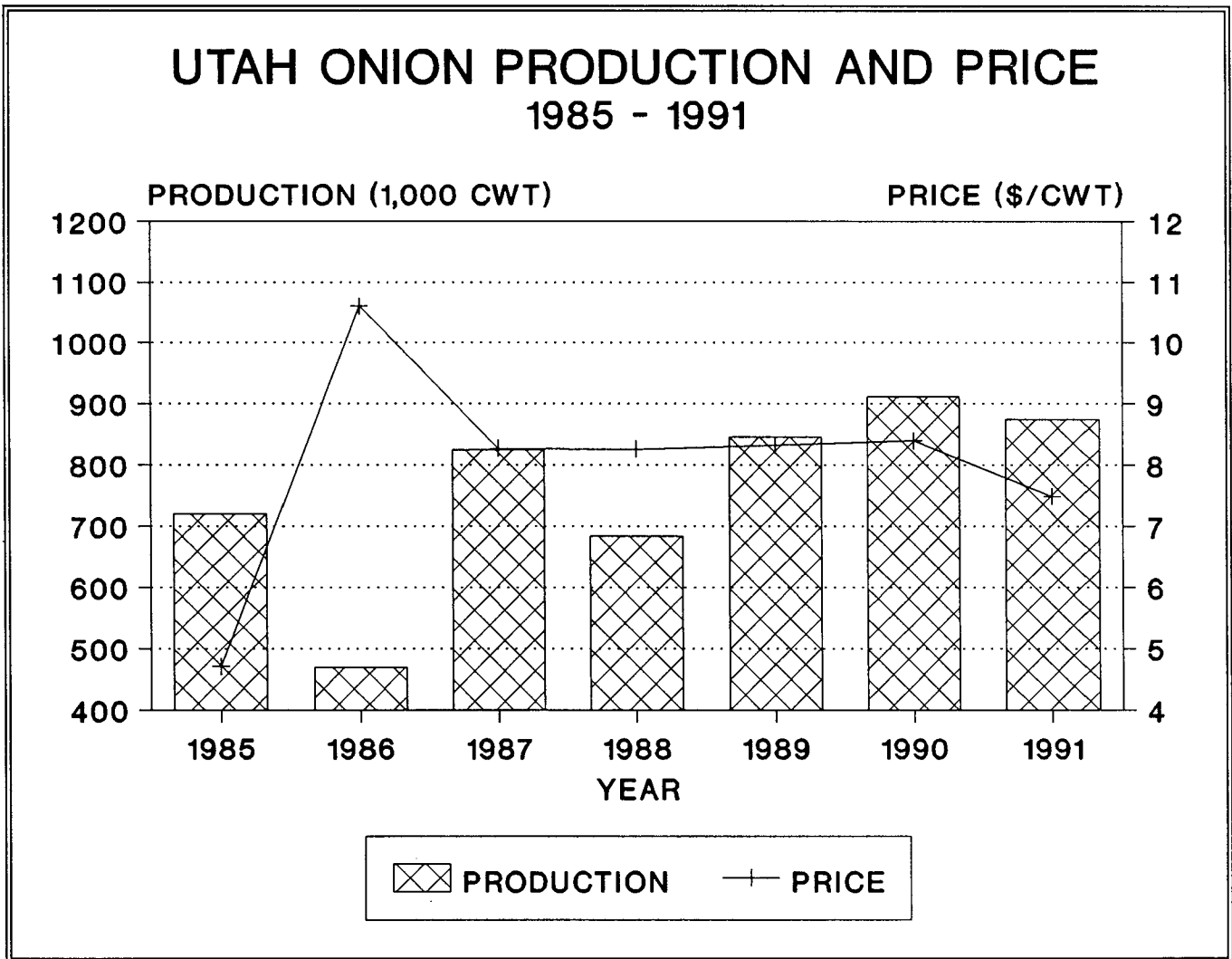
1/ Estimates to be published July 7, 1992 in the Non-Citrus Fruits and Nuts Annul.

# Vegetables

Utah onion growers produced 874,000 cwt of onions in 1991. This was 4 percent below the previous year's estimate. Growers planted 2,000 acres and harvested 1,900 acres during the year, virtually the same levels as 1990. The yield per acre was 460 cwt, 20 cwt below the previous year.

Farmers received an average of \$7.80 per cwt for their onions. Total value of the crop was \$5.6 million, down 18 percent from 1990.

Production of vegetables for processing in 1991 was 9,700 tons, up 9 percent from 1990. Total value of vegetables sold for processing was \$1.8 million, up 65 percent from the previous year.



**ONIONS: Summer Storage (Fresh Market), Acreage, Yield, Production and Value,  
Utah, Selected Years**

| Year    | Acreage           |           | Yield<br>per<br>Acre | Production            | Quantity<br>Not<br>Sold <sup>1/</sup> | Sales   | Value of Sales |       |
|---------|-------------------|-----------|----------------------|-----------------------|---------------------------------------|---------|----------------|-------|
|         | Planted           | Harvested |                      |                       |                                       |         | Per Cwt        | Total |
|         | ----- Acres ----- |           | Cwt                  | ----- 1,000 Cwt ----- |                                       | Dollars | 1,000 Dollars  |       |
| 1940 .. | --                | 1,100     | 200                  | 220                   | 38                                    | 182     | .50            | 91    |
| 1950 .. | 1,150             | 1,100     | 270                  | 297                   | 83                                    | 214     | 1.80           | 385   |
| 1960 .. | 750               | 700       | 325                  | 228                   | 63                                    | 165     | 2.80           | 462   |
| 1970 .. | 1,000             | 1,000     | 300                  | 300                   | 55                                    | 245     | 2.75           | 674   |
| 1980 .. | 2,000             | 1,900     | 345                  | 656                   | 98                                    | 558     | 13.20          | 7,366 |
| 1985 .. | 1,700             | 1,600     | 450                  | 720                   | 120                                   | 600     | 4.71           | 2,826 |
| 1986 .. | 1,500             | 1,400     | 335                  | 469                   | 61                                    | 408     | 10.60          | 4,325 |
| 1987 .. | 1,800             | 1,700     | 485                  | 825                   | 115                                   | 710     | 8.27           | 5,872 |
| 1988 .. | 1,900             | 1,800     | 380                  | 684                   | 101                                   | 583     | 8.26           | 4,816 |
| 1989 .. | 2,000             | 1,900     | 445                  | 846                   | 85                                    | 761     | 8.33           | 6,339 |
| 1990 .. | 2,000             | 1,900     | 480                  | 912                   | 100                                   | 812     | 8.40           | 6,821 |
| 1991 .. | 2,000             | 1,900     | 460                  | 874                   | 105                                   | 769     | 7.80           | 5,593 |

<sup>1/</sup> Includes shrinkage, waste, and cullage.

**VEGETABLES FOR PROCESSING: Acreage, Production, and Value,  
Utah, Selected Years**

| Year       | Acreage           |           | Production | Value         |       |
|------------|-------------------|-----------|------------|---------------|-------|
|            | Planted           | Harvested |            |               |       |
|            | ----- Acres ----- |           | Tons       | 1,000 Dollars |       |
| 1940 ..... | --                |           | 22,460     | 83,900        | 1,526 |
| 1950 ..... | --                |           | 24,870     | 103,000       | 3,139 |
| 1960 ..... | 12,770            |           | 11,080     | 72,040        | 2,235 |
| 1970 ..... | 9,000             |           | 8,300      | 45,900        | 1,981 |
| 1980 ..... | 4,900             |           | 4,890      | 19,900        | 2,245 |
| 1985 ..... | 2,400             |           | 2,400      | 10,390        | 1,559 |
| 1986 ..... | 1,230             |           | 1,230      | 3,330         | 496   |
| 1987 ..... | 2,430             |           | 2,330      | 9,210         | 1,285 |
| 1988 ..... | 2,400             |           | 2,300      | 7,890         | 1,081 |
| 1989 ..... | 2,500             |           | 2,400      | 7,270         | 1,156 |
| 1990 ..... | 2,600             |           | 2,600      | 8,890         | 1,085 |
| 1991 ..... | 2,600             |           | 2,400      | 9,700         | 1,785 |

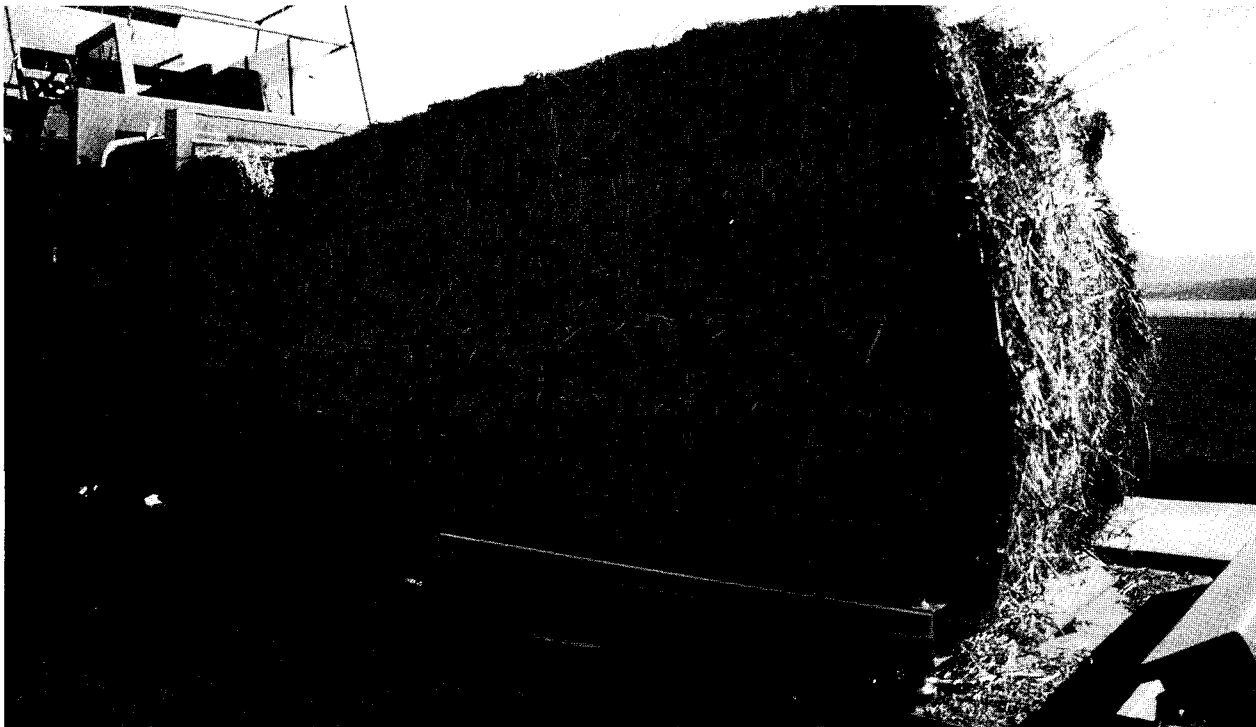
## Cattle and Calves

Utah cattlemen had a total of 800,000 cattle and calves on farms on January 1, 1992, down 1 percent from the previous year. Beef cows at 324,000 head, increased 1 percent from the 1991 level, but milk cows at 76,000 head dropped 5 percent. Beef cow replacement heifers weighing 500 pounds or more were estimated at 58,000 head, same level as January 1, 1991. Milk cow replacements totaled 48,000 head compared with 52,000 head in 1991. Other heifers at 39,000 increased 3,000 head from the previous year's level. The January 1, 1992 level for steers 500 pounds and over was 107,000 head, a decrease of 2,000 head from the previous year. Bulls, at 20,000 head increased 1,000 from 1991. Calves weighing less than 500 pounds were estimated at 128,000 head, down 5 percent from January 1, 1991.

Utah's 1991 calf crop totaled 330,000 head, down 6 percent from last year. The calving rate was 82 percent, 4 percentage points below the previous year. Cattle and calves on full feed for slaughter totaled 50,000 head, a 2,000 head decrease from 1991. The 1991 estimate of the number of cattle operations was 7,600, down 200 from the previous year.

The average value per head was \$660.00 on January 1, 1992, compared with \$670.00 on January 1, 1991. The total inventory was valued at \$528.0 million, down 3 percent from the 1991 level.

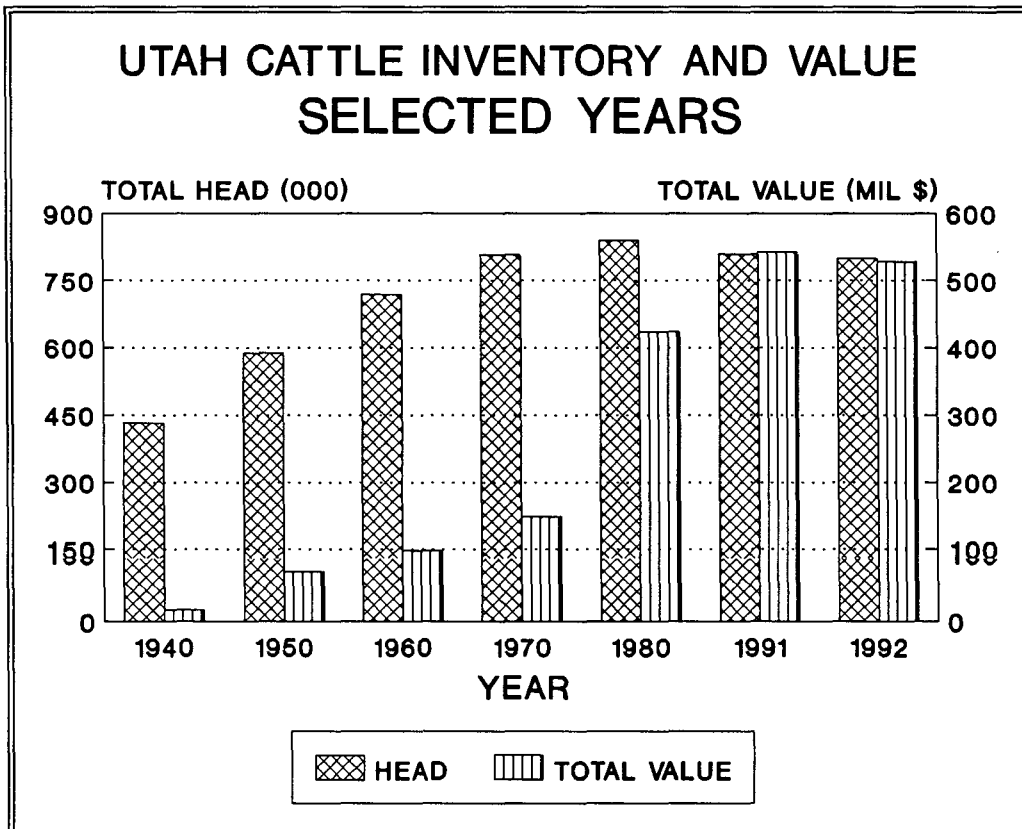
Beef production during 1991 totaled 327.5 million pounds, down 4 percent from the previous year. Marketings during the year at 387.0 million pounds were up 2 percent from 1990. Total cash receipts for the year were \$283.2 million, down 1 percent from the previous year. The average price per hundredweight (cwt) of cattle was \$71.30, a \$2.50 decrease from the 1990 average, while calves averaged \$95.80 per cwt during the year, up \$1.90 from the previous year.





### CATTLE: Farms, Inventory, and Value, Utah, January 1, Selected Years

| Year    | Farms              |                | Cattle on Farms January 1 |          |               |                    |
|---------|--------------------|----------------|---------------------------|----------|---------------|--------------------|
|         | With Cattle        | With Milk Cows | Total Number              | Value    |               | On Feed For Market |
|         |                    |                |                           | Per Head | Total         |                    |
|         | ----- Number ----- |                | 1,000 Head                | Dollars  | 1,000 Dollars | 1,000 Head         |
| 1940 .. | --                 | --             | 432                       | 38.20    | 16,502        | --                 |
| 1950 .. | --                 | --             | 588                       | 126.00   | 74,088        | 40                 |
| 1960 .. | --                 | --             | 719                       | 136.00   | 97,784        | 61                 |
| 1970 .. | 10,000             | 3,800          | 808                       | 185.00   | 149,480       | 57                 |
| 1980 .. | 10,000             | 2,600          | 840                       | 505.00   | 424,200       | 60                 |
| 1985 .. | 9,300              | 2,300          | 800                       | 395.00   | 316,000       | 40                 |
| 1986 .. | 8,800              | 2,100          | 790                       | 395.00   | 312,050       | 33                 |
| 1987 .. | 8,600              | 2,000          | 770                       | 410.00   | 315,700       | 36                 |
| 1988 .. | 8,500              | 1,600          | 800                       | 540.00   | 432,000       | 45                 |
| 1989 .. | 8,300              | 1,500          | 800                       | 610.00   | 488,000       | 48                 |
| 1990 .. | 7,800              | 1,500          | 780                       | 665.00   | 518,700       | 41                 |
| 1991 .. | 7,600              | 1,400          | 810                       | 670.00   | 542,700       | 52                 |
| 1992 .. | --                 | --             | 800                       | 660.00   | 528,000       | 50                 |



**CATTLE: Inventory by Classes and Age, Utah, January 1, Selected Years**

| Year           | All Cattle and Calves | For Milk                 |                   |               | Beef Cattle       |                   |        |                    |                   |
|----------------|-----------------------|--------------------------|-------------------|---------------|-------------------|-------------------|--------|--------------------|-------------------|
|                |                       | Cows and Heifers 2 Years | Heifers 1-2 Years | Heifer Calves | Cows 2 Years Plus | Heifers 1-2 Years | Calves | Steers 1 Year Plus | Bulls 1 Year Plus |
| 1,000 Head     |                       |                          |                   |               |                   |                   |        |                    |                   |
| 1940           | 432                   | 103                      | 25                | 32            | 115               | 34                | 77     | 37                 | 9                 |
| 1950           | 588                   | 108                      | 25                | 32            | 194               | 62                | 101    | 54                 | 12                |
| 1960           | 719                   | 108                      | 31                | 35            | 252               | 65                | 154    | 65                 | 9                 |
| 1970 <u>1/</u> | 808                   | 82                       | 25                | 28            | 342               | 69                | 188    | 59                 | 15                |

1/ Beginning with January 1, 1971, the classification estimates for cattle were changed from sex and age, to sex and weight -- see table below.

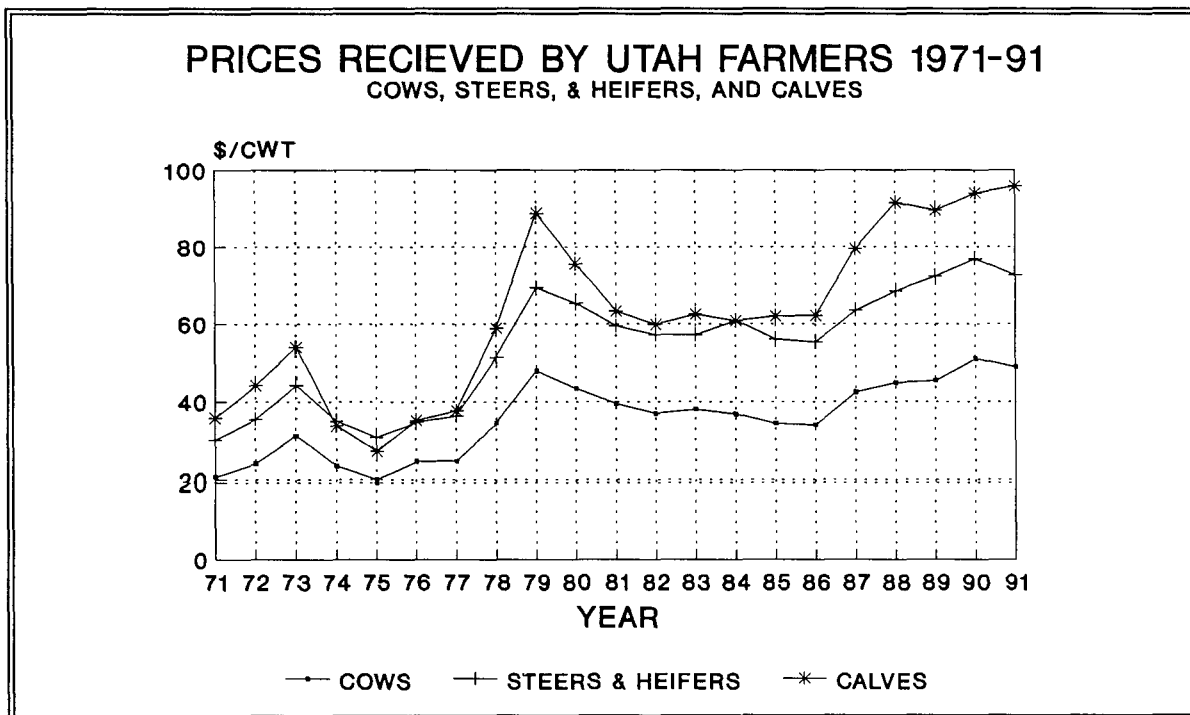
**CATTLE: Inventory by Classes and Weight, Utah, January 1, Selected Years**

| Year       | All Cattle and Calves | All Cows & Heifers that have Calved |           |           | Heifers 500 Pounds & Over |                       |       |       | Steers 500 Lbs. & Over | Bulls 500 Lbs. & Over | Steers, Heifers & Bulls Under 500 Lbs |
|------------|-----------------------|-------------------------------------|-----------|-----------|---------------------------|-----------------------|-------|-------|------------------------|-----------------------|---------------------------------------|
|            |                       | Total                               | Beef Cows | Milk Cows | Beef Cow Replacements     | Milk Cow Replacements | Other | Total |                        |                       |                                       |
| 1,000 Head |                       |                                     |           |           |                           |                       |       |       |                        |                       |                                       |
| 1970       | 808                   | 392                                 | 316       | 76        | 52                        | 44                    | 26    | 122   | 75                     | 17                    | 202                                   |
| 1980       | 840                   | 400                                 | 325       | 75        | 54                        | 42                    | 33    | 129   | 80                     | 18                    | 213                                   |
| 1985       | 800                   | 369                                 | 289       | 80        | 45                        | 40                    | 31    | 116   | 96                     | 16                    | 203                                   |
| 1986       | 790                   | 380                                 | 298       | 82        | 44                        | 44                    | 34    | 122   | 95                     | 17                    | 176                                   |
| 1987       | 770                   | 394                                 | 320       | 74        | 45                        | 36                    | 41    | 122   | 90                     | 19                    | 145                                   |
| 1988       | 800                   | 410                                 | 337       | 73        | 54                        | 38                    | 44    | 136   | 95                     | 19                    | 140                                   |
| 1989       | 800                   | 410                                 | 336       | 74        | 56                        | 40                    | 45    | 141   | 98                     | 21                    | 130                                   |
| 1990       | 780                   | 405                                 | 325       | 80        | 57                        | 48                    | 40    | 145   | 88                     | 20                    | 122                                   |
| 1991       | 810                   | 401                                 | 321       | 80        | 58                        | 52                    | 36    | 146   | 109                    | 19                    | 135                                   |
| 1992       | 800                   | 400                                 | 324       | 76        | 58                        | 48                    | 39    | 145   | 107                    | 20                    | 128                                   |

### CALF CROP: Utah, Selected Years

| Year       | Cows & Heifers<br>2 yrs. & Older<br>January 1 | Cows That<br>Have Calved<br>January 1 | Calf<br>Crop | Calf Crop<br>As Percent<br>of Cows &<br>Heifers 2 +<br>January 1<br><u>1/</u> <u>2/</u> | Calf Crop<br>As Percent<br>of Cows<br>Calved<br>January 1<br><u>1/</u> <u>3/</u> |
|------------|---|---------------------------------------|--------------|---|--|
| 1,000 Head |   |                                       |              |   |  |
| 1940 ..... | 218   | --                                    | 174          | 80  | --   |
| 1950 ..... | 302   | --                                    | 263          | 87  | --   |
| 1960 ..... | 360   | --                                    | 317          | 88  | --   |
| 1970 ..... | 424   | 392                                   | 372          | 88  | 95   |
| 1980 ..... | --  | 400                                   | 358          | --  | 90   |
| 1985 ..... | --  | 369                                   | 320          | --  | 87   |
| 1986 ..... | --  | 380                                   | 340          | --  | 89   |
| 1987 ..... | --  | 394                                   | 365          | --  | 93   |
| 1988 ..... | --  | 410                                   | 375          | --  | 91   |
| 1989 ..... | --  | 410                                   | 360          | --  | 88   |
| 1990 ..... | --  | 405                                   | 350          | --  | 86   |
| 1991 ..... | --  | 401                                   | 330          | --  | 82   |

1/ Not strictly a calving rate. Figure represents calf crop expressed as percentage of number of: 2/ cows and heifers 2 years old and over on farms and ranches January 1 beginning of year; 3/ cows that have calved on hand January 1 beginning of year.



**CATTLE AND CALVES: Inventory, Supply, and Disposition, Utah, Selected Years**

| Year       | Inventory Beginning of Year | Calf Crop | Inshipments | Marketings <u>1/</u> |        | Farm Slaughter <u>2/</u> | Deaths |        | Inventory End of Year |
|------------|-----------------------------|-----------|-------------|----------------------|--------|--------------------------|--------|--------|-----------------------|
|            |                             |           |             | Cattle               | Calves | Cattle & Calves          | Cattle | Calves |                       |
| 1,000 Head |                             |           |             |                      |        |                          |        |        |                       |
| 1940       | 432                         | 174       | 25          | 101                  | 45     | 11                       | 8      | 12     | 454                   |
| 1950       | 588                         | 263       | 41          | 139                  | 98     | 12                       | 16     | 15     | 612                   |
| 1960       | 719                         | 317       | 54          | 234                  | 111    | 11                       | 14     | 22     | 698                   |
| 1970       | 808                         | 372       | 50          | 213                  | 140    | 4                        | 17     | 24     | 832                   |
| 1980       | 840                         | 358       | 50          | 205                  | 106    | 5                        | 16     | 41     | 875                   |
| 1985       | 800                         | 320       | 50          | 222                  | 89     | 4                        | 19     | 46     | 790                   |
| 1986       | 790                         | 340       | 70          | 254                  | 113    | 3                        | 18     | 42     | 770                   |
| 1987       | 770                         | 365       | 77          | 250                  | 102    | 3                        | 15     | 42     | 800                   |
| 1988       | 800                         | 375       | 90          | 313                  | 101    | 2                        | 14     | 35     | 800                   |
| 1989       | 800                         | 360       | 85          | 311                  | 110    | 4                        | 10     | 30     | 780                   |
| 1990       | 780                         | 350       | 89          | 291                  | 75     | 5                        | 12     | 26     | 810                   |
| 1991       | 810                         | 330       | 86          | 310                  | 72     | 5                        | 11     | 28     | 800                   |

1/ Includes custom slaughter for use on farms where produced, State outshipments, but excludes interfarm sales within the State. 2/ Excludes custom slaughter at commercial establishments.

**CATTLE AND CALVES: Production, Marketings and Income, Utah, Selected Years**

| Year   | Production <u>1/</u> | Marketings <u>2/</u> | Average Price per 100 Lbs. |        | Value of Production | Cash Receipts <u>3/</u> | Value of Home Consumption | Gross Income |  |
|--|----------------------|----------------------|----------------------------|--------|---------------------|-------------------------|---------------------------|--------------|--|
|  |                      |                      | Cattle                     | Calves |                     |                         |                           |              |  |
| --- 1,000 Pounds ---      ----- Dollars -----      ----- 1,000 Dollars ----- |                      |                      |                            |        |                     |                         |                           |              |  |
| 1940   | 105,545              | 103,170              | 6.80                       | 8.90   | --                  | 7,478                   | 198                       | 7,676        |  |
| 1950   | 157,125              | 158,135              | 23.20                      | 26.80  | --                  | 38,794                  | 850                       | 39,644       |  |
| 1960   | 217,665              | 257,715              | 18.40                      | 23.40  | 41,993              | 49,373                  | 1,172                     | 50,545       |  |
| 1970   | 256,121              | 259,978              | 25.60                      | 34.20  | 70,803              | 71,552                  | 2,189                     | 73,741       |  |
| 1980   | 257,490              | 251,370              | 60.30                      | 75.50  | 161,267             | 156,938                 | 7,518                     | 164,456      |  |
| 1985   | 260,660              | 282,975              | 53.90                      | 61.90  | 142,356             | 155,193                 | 5,121                     | 160,314      |  |
| 1986   | 283,430              | 326,875              | 53.30                      | 62.10  | 153,774             | 177,954                 | 5,570                     | 183,524      |  |
| 1987   | 301,765              | 319,570              | 61.80                      | 79.40  | 192,893             | 204,227                 | 5,729                     | 209,956      |  |
| 1988   | 341,570              | 397,040              | 66.50                      | 91.50  | 236,559             | 274,384                 | 4,309                     | 278,693      |  |
| 1989   | 335,220              | 404,810              | 67.00                      | 89.40  | 234,027             | 281,325                 | 5,574                     | 286,899      |  |
| 1990   | 330,355              | 366,020              | 73.80                      | 93.90  | 250,963             | 276,303                 | 7,675                     | 283,978      |  |
| 1991   | 327,505              | 378,020              | 71.30                      | 95.80  | 240,100             | 283,178                 | 7,415                     | 290,593      |  |

1/ Adjustments made for inshipments and changes in inventories. 2/ Excludes custom slaughter for use on farms where produced and interfarm sales within the State. 3/ Receipts from marketings of live cattle and sale of farm slaughter.

**COMMERCIAL CATTLE: Number and Live Weight,  
Selected Years, and Monthly 1990-91, Utah 1/ 2/**

| Year                 | Cattle     |                 |                   |
|----------------------|------------|-----------------|-------------------|
|                      | Number     | Weight per Head | Total Live Weight |
|                      | 1,000 Head | Pounds          | 1,000 Pounds      |
| 1944 <u>3/</u> . . . | 102.9      | --              | --                |
| 1950 . . . . .       | 108.5      | 965             | 104,762           |
| 1960 . . . . .       | 212.2      | 994             | 210,924           |
| 1970 . . . . .       | 258.5      | 1,040           | 268,914           |
| 1980 . . . . .       | 191.9      | 1,093           | 209,880           |
| 1985 . . . . .       | 347.6      | 1,149           | 399,389           |
| 1986 . . . . .       | 392.4      | 1,136           | 445,826           |
| 1987 . . . . .       | 427.4      | 1,174           | 501,800           |
| 1988 . . . . .       | 474.8      | 1,177           | 558,919           |
| 1989 . . . . .       | 490.7      | 1,174           | 575,874           |
| 1990 . . . . .       | 476.6      | 1,172           | 558,811           |
| <u>1990</u>          |            |                 |                   |
| January . . .        | 39.4       | 1,205           | 47,546            |
| February . . .       | 35.4       | 1,180           | 41,816            |
| March . . . . .      | 41.5       | 1,185           | 49,159            |
| April . . . . .      | 37.5       | 1,168           | 43,841            |
| May . . . . .        | 40.7       | 1,149           | 46,707            |
| June . . . . .       | 42.8       | 1,134           | 48,485            |
| July . . . . .       | 41.5       | 1,162           | 48,197            |
| August . . . .       | 43.4       | 1,184           | 51,346            |
| September . .        | 36.0       | 1,185           | 42,657            |
| October . . .        | 41.5       | 1,181           | 49,047            |
| November . .         | 39.4       | 1,182           | 46,540            |
| December . .         | 37.6       | 1,157           | 43,471            |
| <u>1991</u>          |            |                 |                   |
| January . . .        | 40.4       | 1,138           | 45,996            |
| February . . .       | 35.5       | 1,217           | 43,191            |
| March . . . . .      | 38.9       | 1,247           | 48,546            |
| April . . . . .      | 38.6       | 1,230           | 47,517            |
| May . . . . .        |            |                 |                   |
| June . . . . .       |            |                 |                   |
| July . . . . .       |            |                 |                   |
| August . . . .       |            |                 |                   |
| September . .        |            |                 |                   |
| October . . .        |            |                 |                   |
| November . .         |            |                 |                   |
| December . .         |            |                 |                   |

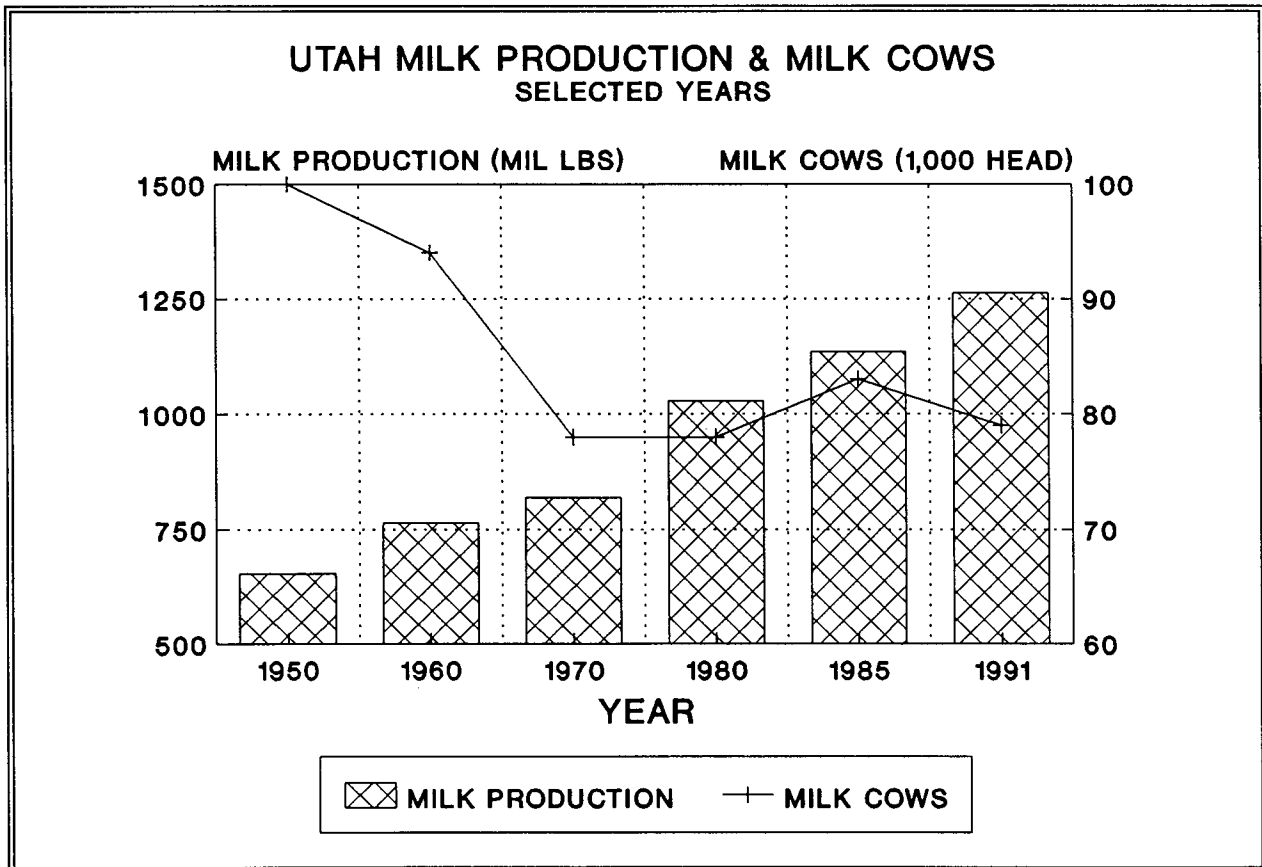
1/ Includes slaughter in Federally inspected plants and in other slaughter plants but excludes animals slaughtered on farms. 2/ Publication of Utah estimates discontinued after April 1991 to avoid disclosing individual operations. 3/ First year of record.

# Dairy

Milk production in Utah reached 1,262 million pounds in 1991, a decrease of less than 1 percent from 1990. Production per cow at 15,975 pounds increased 137 pounds from the previous year and marked the seventh straight year of increasing milk per cow. The 1991 milkfat per cow was 575 pounds compared with 569 pounds the previous year. Milk per cow and milkfat per cow were both new record highs.

There were an estimated 1,400 farms with 1 or more milk cows during 1991, down 100 from 1990. Cash receipts from milk marketings during the year totaled \$136.0 million, down 12 percent from 1990. The price per hundredweight of all milk was \$11.50 compared to \$12.90 received the previous year.

Utah's 1991 total cheese production was 71.6 million pounds, 2 percent above the previous year. American cheese at 43.1 million pounds increased 6 percent from the 1990 level. Cheddar cheese accounted for 67 percent of the total American cheese produced. Production of Swiss cheese totaled 24.5 million pounds, a 0.5 percent decrease from 1990. Swiss cheese accounted for 34 percent of the total cheese produced. Other types of cheese accounted for the remainder of the cheese produced. Ice cream production was at 7.1 million gallons, 8 percent below 1990. There were 21 dairy plants in Utah that produced 1 or more dairy products in 1991.





## DAIRY: Milk Cows & Milk Production, by Months or Quarter, Utah, Selected Years

| Year                                     | Jan. | Feb. | Mar. | Apr. | May  | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. | Total<br><u>1/</u> |
|--|------|------|------|------|------|------|------|------|------|------|------|------|--------------------|
| Milk Cows <u>2/</u> (Thousand Head)      |      |      |      |      |      |      |      |      |      |      |      |      |                    |
| 1940                                     | 96   | 96   | 96   | 96   | 96   | 96   | 96   | 96   | 96   | 96   | 97   | 97   | 96                 |
| 1950                                     | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 99   | 99   | 100                |
| 1960                                     | 95   | 94   | 94   | 94   | 94   | 94   | 94   | 94   | 94   | 94   | 94   | 93   | 94                 |
| 1970                                     | 76   | 76   | 77   | 77   | 78   | 78   | 78   | 78   | 79   | 79   | 80   | 80   | 78                 |
| 1980                                     | 75   | 76   | 76   | 77   | 78   | 78   | 79   | 80   | 79   | 79   | 78   | 79   | 78                 |
| 1985 <u>3/</u>                           | --   | --   | 80   | --   | --   | 83   | --   | --   | 85   | --   | --   | 83   | 83                 |
| 1986 <u>3/</u>                           | --   | --   | 83   | --   | --   | 84   | --   | --   | 83   | --   | --   | 78   | 82                 |
| 1987 <u>3/</u>                           | --   | --   | 76   | --   | --   | 79   | --   | --   | 79   | --   | --   | 76   | 78                 |
| 1988 <u>3/</u>                           | --   | --   | 75   | --   | --   | 77   | --   | --   | 78   | --   | --   | 76   | 77                 |
| 1989 <u>3/</u>                           | --   | --   | 74   | --   | --   | 76   | --   | --   | 77   | --   | --   | 75   | 76                 |
| 1990 <u>3/</u>                           | --   | --   | 80   | --   | --   | 81   | --   | --   | 80   | --   | --   | 80   | 80                 |
| 1991 <u>3/</u>                           | --   | --   | 79   | --   | --   | 80   | --   | --   | 80   | --   | --   | 78   | 79                 |
| Milk per Cow <u>4/</u> (Pounds)          |      |      |      |      |      |      |      |      |      |      |      |      |                    |
| 1940                                     | 427  | 426  | 483  | 518  | 597  | 566  | 537  | 485  | 436  | 437  | 398  | 414  | 5730               |
| 1950                                     | 527  | 487  | 546  | 587  | 659  | 665  | 625  | 557  | 479  | 479  | 451  | 483  | 6550               |
| 1960                                     | 660  | 640  | 710  | 720  | 770  | 735  | 700  | 670  | 630  | 650  | 610  | 635  | 8130               |
| 1970                                     | 840  | 800  | 900  | 900  | 940  | 920  | 920  | 910  | 860  | 860  | 810  | 840  | 10500              |
| 1980                                     | 1080 | 1010 | 1120 | 1115 | 1195 | 1150 | 1190 | 1140 | 1075 | 1075 | 1015 | 1040 | 13179              |
| 1985 <u>5/</u>                           | --   | --   | 3175 | --   | --   | 3500 | --   | --   | 3630 | --   | --   | 3415 | 13675              |
| 1986 <u>5/</u>                           | --   | --   | 3434 | --   | --   | 3667 | --   | --   | 3590 | --   | --   | 3410 | 14110              |
| 1987 <u>5/</u>                           | --   | --   | 3539 | --   | --   | 3684 | --   | --   | 3646 | --   | --   | 3592 | 14372              |
| 1988 <u>5/</u>                           | --   | --   | 3613 | --   | --   | 3935 | --   | --   | 3897 | --   | --   | 3803 | 15156              |
| 1989 <u>5/</u>                           | --   | --   | 3703 | --   | --   | 3947 | --   | --   | 3948 | --   | --   | 3893 | 15395              |
| 1990 <u>5/</u>                           | --   | --   | 3750 | --   | --   | 4025 | --   | --   | 4038 | --   | --   | 3975 | 15838              |
| 1991 <u>5/</u>                           | --   | --   | 3772 | --   | --   | 4063 | --   | --   | 4088 | --   | --   | 4000 | 15975              |
| Milk Produced <u>4/</u> (Million Pounds) |      |      |      |      |      |      |      |      |      |      |      |      |                    |
| 1940                                     | 41   | 41   | 46   | 50   | 57   | 54   | 52   | 47   | 42   | 42   | 38   | 40   | 550                |
| 1950                                     | 53   | 49   | 55   | 59   | 60   | 66   | 62   | 56   | 48   | 48   | 45   | 48   | 655                |
| 1960                                     | 63   | 60   | 67   | 68   | 72   | 69   | 66   | 63   | 59   | 61   | 57   | 59   | 764                |
| 1970                                     | 64   | 61   | 69   | 69   | 73   | 72   | 72   | 71   | 68   | 68   | 65   | 67   | 819                |
| 1980                                     | 81   | 77   | 85   | 86   | 93   | 90   | 94   | 91   | 85   | 85   | 79   | 82   | 1028               |
| 1985 <u>6/</u>                           | --   | --   | 253  | --   | --   | 291  | --   | --   | 308  | --   | --   | 283  | 1135               |
| 1986 <u>6/</u>                           | --   | --   | 285  | --   | --   | 308  | --   | --   | 298  | --   | --   | 266  | 1157               |
| 1987 <u>6/</u>                           | --   | --   | 269  | --   | --   | 291  | --   | --   | 288  | --   | --   | 273  | 1121               |
| 1988 <u>6/</u>                           | --   | --   | 271  | --   | --   | 303  | --   | --   | 304  | --   | --   | 289  | 1167               |
| 1989 <u>6/</u>                           | --   | --   | 274  | --   | --   | 300  | --   | --   | 304  | --   | --   | 292  | 1170               |
| 1990 <u>6/</u>                           | --   | --   | 300  | --   | --   | 326  | --   | --   | 323  | --   | --   | 318  | 1267               |
| 1991 <u>6/</u>                           | --   | --   | 298  | --   | --   | 325  | --   | --   | 327  | --   | --   | 312  | 1262               |

1/ Milk cows, average number during year. 2/ Includes dry cows, excludes heifers not yet freshened. 3/ Average for quarter. 4/ Excludes milk sucked by calves. 5/ Quarterly milk production divided by quarterly average of milk cows. 6/ Total produced for quarter.

### DAIRY: Farms, Milk Production and Milkfat, Utah, Selected Years

| Year   | Farms with Milk Cows | Number of Milk Cows on Farms <sup>1/</sup> | Production of Milk & Milkfat |         |                            |         |                    |
|--------|----------------------|--|------------------------------|---------|----------------------------|---------|--------------------|
|        |                      |  | Per Cow                      |         | Total                      |         |                    |
|        |                      |  | Milk                         | Milkfat | Milk                       | Milkfat | Percentage Milkfat |
|        | Number               | 1,000 Head                                 | ----- Pounds -----           |         | ----- Million Pounds ----- |         | Percent            |
| 1940 . | --                   | 96   | 5,730                        | 215     | 550                        | 21      | 3.75               |
| 1950 . | --                   | 100  | 6,550                        | 246     | 655                        | 25      | 3.75               |
| 1960 . | --                   | 94   | 8,130                        | 297     | 764                        | 28      | 3.65               |
| 1970 . | 3,800                | 78   | 10,500                       | 382     | 819                        | 30      | 3.64               |
| 1980 . | 2,600                | 78   | 13,179                       | 468     | 1,028                      | 36.5    | 3.55               |
| 1985 . | 2,100                | 83   | 13,675                       | 485     | 1,135                      | 40.3    | 3.55               |
| 1986 . | 1,900                | 82   | 14,110                       | 502     | 1,157                      | 41.2    | 3.56               |
| 1987 . | 1,700                | 78   | 14,372                       | 516     | 1,121                      | 40.2    | 3.59               |
| 1988 . | 1,600                | 77   | 15,156                       | 549     | 1,167                      | 42.2    | 3.62               |
| 1989 . | 1,500                | 76   | 15,395                       | 556     | 1,170                      | 42.2    | 3.61               |
| 1990 . | 1,500                | 80   | 15,838                       | 569     | 1,267                      | 45.5    | 3.59               |
| 1991 . | 1,400                | 79   | 15,975                       | 575     | 1,262                      | 45.4    | 3.60               |

<sup>1/</sup> Average number on farms during year, excluding heifers not yet freshened.

### MILK DISPOSITION: Milk Used and Marketed by Farmers, Utah, Selected Years

| Year     | Milk Used on Farms Where Produced |                                  |                              |       | Milk Marketed by Farmers   |                         |                            |                   |
|----------|-----------------------------------|----------------------------------|------------------------------|-------|----------------------------|-------------------------|----------------------------|-------------------|
|          | Fed to Calves                     | Consumed as Fluid Milk and Cream | Used for Farm-Churned Butter | Total | Sold to Plants and Dealers |                         | Sold Directly to Consumers | Total             |
|          |                                   |                                  |                              |       | As Whole Milk              | As Farm Separated Cream |                            |                   |
|          | Million Pounds                    |                                  |                              |       |                            |                         |                            |                   |
| 1940 ... | 17                                | 61                               | 22                           | 100   | 296                        | 116                     | 35                         | <sup>1/</sup> 450 |
| 1950 ... | 22                                | 51                               | 13                           | 86    | 515                        | 26                      | 28                         | 569               |
| 1960 ... | 18                                | 33                               | 5                            | 56    | 675                        | 11                      | 22                         | 708               |
| 1970 ... | 9                                 | 18                               | --                           | 27    | 740                        | 2                       | 50                         | 792               |
| 1980 ... | 9                                 | 9                                | --                           | 18    | 985                        | --                      | 25                         | 1,010             |
| 1985 ... | 18                                | 4                                | --                           | 22    | 1,070                      | --                      | 43                         | 1,113             |
| 1986 ... | 20                                | 4                                | --                           | 24    | 1,090                      | --                      | 43                         | 1,133             |
| 1987 ... | 21                                | 4                                | --                           | 25    | 1,045                      | --                      | 51                         | 1,096             |
| 1988 ... | 20                                | 4                                | --                           | 24    | 1,095                      | --                      | 48                         | 1,143             |
| 1989 ... | 17                                | 3                                | --                           | 20    | 1,111                      | --                      | 39                         | 1,150             |
| 1990 ... | 22                                | 3                                | --                           | 25    | 1,200                      | --                      | 42                         | 1,242             |
| 1991 ... | 21                                | 3                                | --                           | 24    | 1,183                      | --                      | 55                         | 1,238             |

<sup>1/</sup> Includes 3,000,000 for farm churned butter sold.

### MILK & CREAM SOLD: Quantity, Price & Cash Receipts, Utah, Selected Years

| Year | Milk Sold to Plants & Dealers |                                   |                   |               | Cream Sold to Plants and Dealers |                   |               | Milk Sold Directly to Consumers |                 |               |
|------|-------------------------------|-----------------------------------|-------------------|---------------|----------------------------------|-------------------|---------------|---------------------------------|-----------------|---------------|
|      | Quantity                      | Percent Fluid Grade <sup>1/</sup> | Price per 100 Lb. | Cash Receipts | Quantity Milkfat                 | Price per Lb. Fat | Cash Receipts | Quantity                        | Price per Quart | Cash Receipts |
|      | Million Pounds                | Percent                           | Dollars           | 1,000 Dollars | 1,000 Pounds                     | Cents             | 1,000 Dollars | 1,000 Quarts                    | Cents           | 1,000 Dollars |
| 1940 | 296                           | --                                | 1.45              | 4,292         | 4,330                            | 30                | 1,299         | 16,000                          | 7.7             | 1,232         |
| 1950 | 515                           | --                                | 3.69              | 19,004        | 970                              | 62                | 601           | 13,000                          | 16.0            | 2,080         |
| 1960 | 675                           | --                                | 4.07              | 27,472        | 400                              | 55                | 220           | 10,000                          | 18.0            | 1,800         |
| 1970 | 740                           | 71                                | 5.48              | 40,552        | 71                               | 59                | 42            | 23,256                          | 21.5            | 5,000         |
| 1980 | 985                           | 70                                | 12.50             | 123,125       | --                               | --                | --            | 11,628                          | 38.0            | 4,419         |
| 1985 | 1,070                         | 74                                | 12.00             | 128,400       | --                               | --                | --            | 20,000                          | 43.0            | 8,600         |
| 1986 | 1,090                         | 78                                | 11.80             | 128,620       | --                               | --                | --            | 20,000                          | 43.0            | 8,600         |
| 1987 | 1,045                         | 82                                | 11.90             | 124,355       | --                               | --                | --            | 23,721                          | 42.0            | 9,963         |
| 1988 | 1,095                         | 80                                | 11.60             | 127,020       | --                               | --                | --            | 22,326                          | 42.0            | 9,377         |
| 1989 | 1,111                         | 82                                | 12.60             | 139,986       | --                               | --                | --            | 18,140                          | 46.0            | 8,344         |
| 1990 | 1,200                         | 82                                | 12.90             | 154,800       | --                               | --                | --            | 19,535                          | 51.0            | 9,963         |
| 1991 | 1,183                         | 85                                | 11.50             | 136,045       | --                               | --                | --            | 25,581                          | 49.0            | 12,535        |

<sup>1/</sup> Percentage of milk sold to plants and dealers eligible for fluid use. <sup>2/</sup> Also includes milk produced by institutional herds.

### MILK & CREAM: Marketings, Used on Farm, Income, and Value, Utah, Selected Years

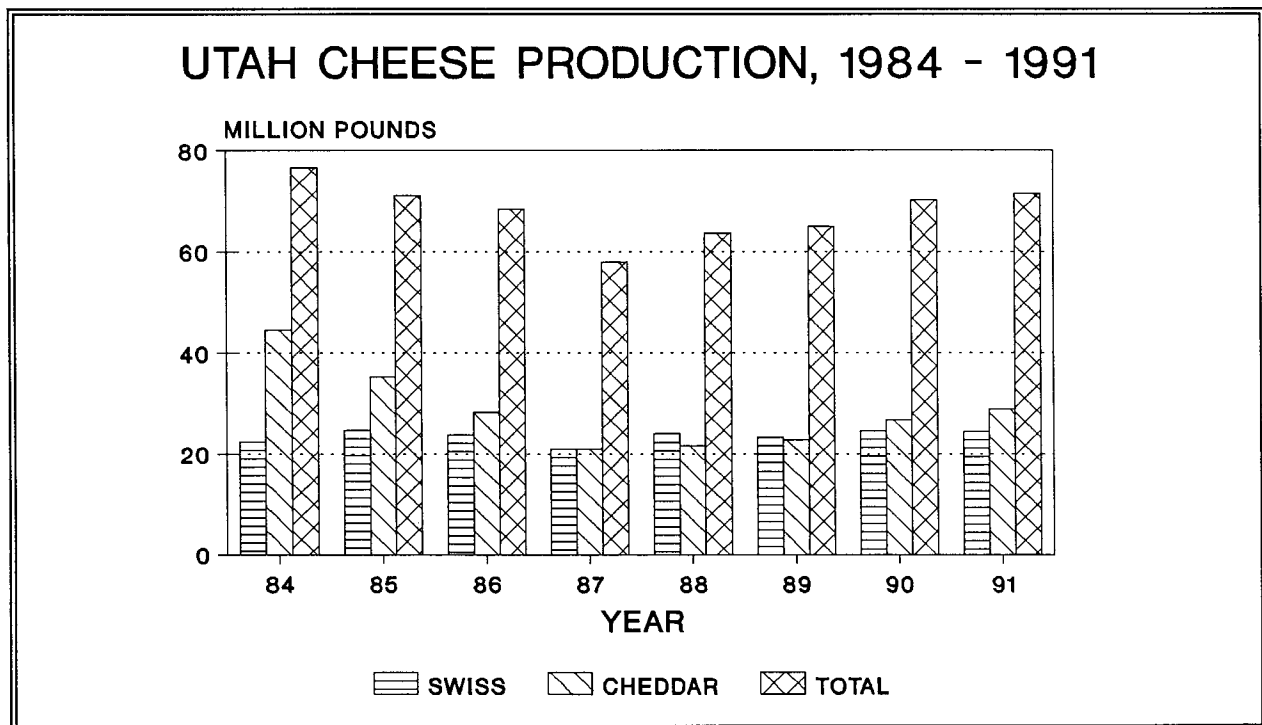
| Year     | Combined Marketings of Milk & Cream |                     |                   |                               | Used for Milk, Cream, and Butter on Farms Where Produced |               | Gross Farm Income from Milk <sup>1/</sup> | Farm Value of Milk Produced <sup>2/</sup> |
|----------|-------------------------------------|---------------------|-------------------|-------------------------------|--|---------------|---|---|
|          | Milk Utilized                       | Average Returns     |                   | Cash Receipts from Marketings | Milk Utilized  | Value         |   |   |
|          |                                     | Per 100 Pounds Milk | Per Pound Milkfat |                               |  |               |   |   |
|          | Million Pounds                      | Dollars             | Dollars           | 1,000 Dollars                 | Million Pounds   | 1,000 Dollars | 1,000 Dollars                             | 1,000 Dollars                             |
| 1940 ... | 450                                 | 1.53                | .41               | 6,868                         | 83   | 1,270         | 8,138                                     | 8,423                                     |
| 1950 ... | 570                                 | 3.81                | 1.02              | 21,717                        | 63   | 2,400         | 24,117                                    | 24,956                                    |
| 1960 ... | 708                                 | 4.17                | 1.14              | 29,492                        | 38   | 1,585         | 31,077                                    | 31,859                                    |
| 1970 ... | 792                                 | 5.76                | 1.58              | 45,594                        | 18   | 1,037         | 46,631                                    | 47,174                                    |
| 1980 ... | 1,010                               | 12.63               | 3.56              | 127,544                       | 9  | 1,137         | 128,680                                   | 129,817                                   |
| 1985 ... | 1,113                               | 12.31               | 3.47              | 137,000                       | 4  | 492           | 137,492                                   | 139,708                                   |
| 1986 ... | 1,133                               | 12.11               | 3.40              | 137,220                       | 4  | 484           | 137,704                                   | 140,127                                   |
| 1987 ... | 1,096                               | 12.26               | 3.41              | 134,318                       | 4  | 490           | 134,808                                   | 137,382                                   |
| 1988 ... | 1,143                               | 11.93               | 3.30              | 136,397                       | 4  | 477           | 136,874                                   | 139,261                                   |
| 1989 ... | 1,150                               | 12.90               | 3.57              | 148,330                       | 3  | 387           | 148,717                                   | 150,910                                   |
| 1990 ... | 1,242                               | 13.27               | 3.70              | 164,763                       | 3  | 398           | 165,161                                   | 168,079                                   |
| 1991 ... | 1,238                               | 12.00               | 3.33              | 148,580                       | 3  | 360           | 148,940                                   | 151,460                                   |

<sup>1/</sup> Cash receipts from marketings of milk and cream, plus value of milk used for home consumption. <sup>2/</sup> Includes value of milk fed to calves.

**BUTTER AND CHEESE: Production, Utah, Selected Years**

| Year           | Butter    | Cheese   |        |        |                 |                 |
|----------------|-----------|----------|--------|--------|-----------------|-----------------|
|                |           | American |        |        | Swiss <u>1/</u> | Total <u>2/</u> |
|                |           | Cheddar  | Other  | All    |                 |                 |
| 1,000 Pounds   |           |          |        |        |                 |                 |
| 1940 . . . . . | 10,426    | --       | --     | 4,496  |                 | 4,496           |
| 1950 . . . . . | 5,834     | --       | --     | 6,901  | 5,163           | 12,246          |
| 1960 . . . . . | 7,106     | 5,460    | 608    | 6,068  | 5,890           | 11,958          |
| 1970 . . . . . | 8,411     | 18,279   | 3,911  | 22,190 | 10,776          | 32,966          |
| 1980 . . . . . | 5,592     | 40,554   | 9,709  | 50,263 | 21,144          | 71,659          |
| 1985 . . . . . | 8,315     | 35,343   | 8,939  | 44,282 | 24,729          | 71,088          |
| 1986 . . . . . | 7,936     | 28,368   | 12,667 | 41,035 | 23,841          | 68,450          |
| 1987 . . . . . | 9,007     | 21,098   | 11,999 | 33,097 | 21,000          | 58,017          |
| 1988 . . . . . | 10,686    | 21,678   | 14,219 | 35,897 | 24,031          | 63,563          |
| 1989 . . . . . | <u>3/</u> | 22,842   | 14,874 | 37,716 | 23,320          | 65,042          |
| 1990 . . . . . | <u>3/</u> | 26,814   | 13,953 | 40,767 | 24,598          | 70,204          |
| 1991 . . . . . | <u>3/</u> | 28,900   | 14,167 | 43,067 | 24,473          | 71,574          |

1/ Data for years with less than 3 plants published by permission of the firms involved. 2/ Excludes cottage cheese, but includes cheese other than American and Swiss. 3/ Not published to avoid disclosing individual operations.



### COTTAGE CHEESE & DRY WHEY: Production, Utah, Selected Years

| Year           | Cottage Cheese |                 | Dry Whey   |             |           |
|----------------|----------------|-----------------|------------|-------------|-----------|
|                | Curd <u>1/</u> | Creamed         | Human Food | Animal Feed | Total     |
| 1,000 Pounds   |                |                 |            |             |           |
| 1940 . . . . . | 670            | 966             | --         | --          | --        |
| 1950 . . . . . | 2,476          | 3,563           | --         | --          | --        |
| 1960 . . . . . | 4,796          | 7,458           | --         | --          | --        |
| 1970 . . . . . | 5,236          | 8,795           | <u>2/</u>  | <u>2/</u>   | 12,190    |
| 1980 . . . . . | 5,427          | <u>3/</u> 8,980 | 20,309     | 520         | 20,829    |
| 1985 . . . . . | 5,598          | <u>3/</u> 9,408 | 18,949     | 487         | 19,436    |
| 1986 . . . . . | 4,688          | <u>3/</u> 7,959 | 18,298     | 416         | 18,714    |
| 1987 . . . . . | 4,131          | <u>3/</u> 6,776 | 16,497     | 326         | 16,823    |
| 1988 . . . . . | 4,314          | <u>3/</u> 7,107 | <u>2/</u>  | <u>2/</u>   | <u>2/</u> |
| 1989 . . . . . | <u>2/</u>      | <u>2/</u>       | <u>2/</u>  | <u>2/</u>   | <u>2/</u> |
| 1990 . . . . . | <u>2/</u>      | <u>2/</u>       | <u>2/</u>  | <u>2/</u>   | <u>2/</u> |
| 1991 . . . . . | <u>2/</u>      | <u>2/</u>       | <u>2/</u>  | <u>2/</u>   | <u>2/</u> |

1/ Mostly used for processing into creamed or lowfat cottage cheese. 2/ Not published to avoid disclosure of individual operations. 3/ Includes any lowfat production.

### FROZEN PRODUCTS: Production, Utah, Selected Years

| Year          | Ice Cream<br><u>1/</u> | Ice Milk  |           |       | Sherbet<br><u>1/</u> | Water<br>Ices |
|---------------|------------------------|-----------|-----------|-------|----------------------|---------------|
|               |                        | Hard      | Soft      | Total |                      |               |
| 1,000 Gallons |                        |           |           |       |                      |               |
| 1940 . . .    | 1,235                  | --        | --        | 201   | 60                   | --            |
| 1950 . . .    | 2,532                  | --        | --        | 578   | 76                   | --            |
| 1960 . . .    | 3,849                  | 563       | 771       | 1,334 | 350                  | 181           |
| 1970 . . .    | 4,456                  | 1,189     | 1,547     | 2,736 | 449                  | 292           |
| 1980 . . .    | 8,198                  | 804       | 2,078     | 2,882 | 593                  | 127           |
| 1985 . . .    | 8,712                  | 442       | 2,051     | 2,493 | 603                  | <u>2/</u>     |
| 1986 . . .    | 9,247                  | 468       | 1,956     | 2,424 | 715                  | <u>2/</u>     |
| 1987 . . .    | 9,824                  | 527       | 1,980     | 2,507 | 660                  | 1,050         |
| 1988 . . .    | 9,791                  | 1,678     | 2,204     | 3,882 | 588                  | <u>2/</u>     |
| 1989 . . .    | 7,969                  | 1,373     | 2,319     | 3,692 | 525                  | <u>2/</u>     |
| 1990 . . .    | 7,728                  | 1,124     | 2,290     | 3,414 | 559                  | <u>2/</u>     |
| 1991 . . .    | 7,130                  | <u>2/</u> | <u>2/</u> | 2,469 | 456                  | <u>2/</u>     |

1/ Essentially all hard frozen. 2/ Not published to avoid disclosure of individual plants.

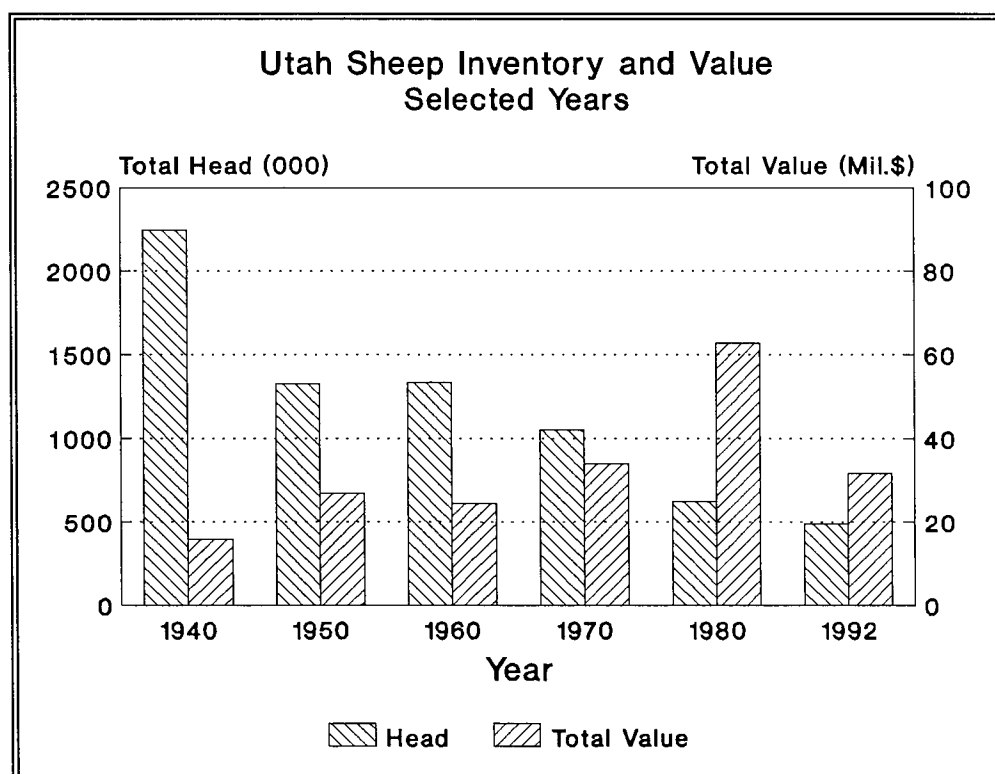
## Sheep and Wool

Utah sheep and lamb inventory on January 1, 1992 totaled 488,000 head, down 4 percent from the previous year. Inventory of stock sheep and lambs at the beginning of 1992 was 460,000 head, a 4 percent decrease from the 1991 level. Ewes one year old and older totaled 388,000 head, down 15,000 head from a year earlier. Rams and wethers over one year of age totaled 12,000 head, same level as January 1, 1991. Ewe lambs 3 months old and older were at 53,000 head, down 9 percent from 1991. Ram lambs at 7,000 head were at the same level as the previous year. Sheep and lambs on feed for slaughter at 28,000 head were also unchanged from a year earlier. The 1991 lamb crop was estimated at 400,000 head, down 7 percent from the previous year.

There were an estimated 2,100 sheep operations in 1991, the same number as in 1990. The January 1, 1992 sheep and lamb inventory had an average value per head of \$65.00, up 1 dollar from the 1991 level of \$64.00. The total value of Utah's sheep inventory was \$31.7 million, down 2 percent from the previous year.

Cash receipts during 1991 totaled \$13.6 million, 13 percent below the 1990 level. Marketings of sheep and lambs totaled 36.3 million pounds, down 1 percent from the previous year. The average sheep price during 1991 was \$20.40 per hundredweight (cwt), \$1.70 above the 1990 average. Lambs averaged \$43.20 per cwt during 1991, \$5.30 below the previous year.

Wool production totaled 4.60 million pounds during 1991, down 3 percent from the 1990 production level. Fleece weight at 10.4 pounds was up 2 percent from the previous year.



**SHEEP: Sheep on Farms and Values,  
Utah, January 1, Selected Years**

| Year     | Farms<br>With<br>Sheep | Sheep on Farms January 1 |          |               |                          |                             |
|----------|------------------------|--------------------------|----------|---------------|--------------------------|-----------------------------|
|          |                        | Number                   | Value    |               | Stock<br>Sheep<br>Number | Sheep &<br>Lambs<br>on Feed |
|          |                        |                          | Per Head | Total         |                          |                             |
|          | Number                 | 1,000 Head               | Dollars  | 1,000 Dollars | -- 1,000 Head --         |                             |
| 1940 ... | --                     | 2,248                    | --       | 15,895        | 2,095                    | 153                         |
| 1950 ... | --                     | 1,329                    | --       | 27,028        | 1,269                    | 60                          |
| 1960 ... | --                     | 1,336                    | --       | 24,461        | 1,249                    | 87                          |
| 1970 ... | 3,000                  | 1,053                    | --       | 33,998        | 978                      | 75                          |
| 1980 ... | 2,400                  | 625                      | 100.50   | 62,813        | 595                      | 30                          |
| 1985 ... | 2,500                  | 515                      | 63.50    | 32,703        | 490                      | 25                          |
| 1986 ... | 2,300                  | 484                      | 70.50    | 34,122        | 460                      | 24                          |
| 1987 ... | 2,200                  | 464                      | 83.00    | 38,512        | 440                      | 24                          |
| 1988 ... | 2,100                  | 478                      | 95.50    | 45,649        | 460                      | 18                          |
| 1989 ... | 2,100                  | 503                      | 84.50    | 42,504        | 480                      | 23                          |
| 1990 ... | 2,100                  | 509                      | 94.00    | 47,846        | 485                      | 24                          |
| 1991 ... | 2,100                  | 508                      | 64.00    | 32,512        | 480                      | 28                          |
| 1992 ... | 1/                     | 488                      | 65.00    | 31,720        | 460                      | 28                          |

1/ Estimate published with January 1, 1993 sheep inventory.

**STOCK SHEEP: Inventory by Classes, Utah, January 1, Selected Years**

| Year       | All<br>Stock<br>Sheep | Lambs |                   | Sheep One Year & Over |                   |  |
|------------|-----------------------|-------|-------------------|-----------------------|-------------------|--|
|            |                       | Ewes  | Wethers<br>& Rams | Ewes                  | Rams<br>& Wethers |  |
| 1,000 Head |                       |       |                   |                       |                   |  |
| 1940 ..... | 2,095                 | 310   | 23                | 1,706                 | 56                |  |
| 1950 ..... | 1,269                 | 165   | 5                 | 1,066                 | 33                |  |
| 1960 ..... | 1,249                 | 144   | 6                 | 1,065                 | 34                |  |
| 1970 ..... | 978                   | 125   | 7                 | 821                   | 25                |  |
| 1980 ..... | 595                   | 80    | 9                 | 491                   | 15                |  |
| 1985 ..... | 490                   | 54    | 4                 | 420                   | 12                |  |
| 1986 ..... | 460                   | 45    | 3                 | 400                   | 12                |  |
| 1987 ..... | 440                   | 50    | 4                 | 375                   | 11                |  |
| 1988 ..... | 460                   | 52    | 6                 | 390                   | 12                |  |
| 1989 ..... | 480                   | 57    | 6                 | 405                   | 12                |  |
| 1990 ..... | 485                   | 58    | 7                 | 407                   | 13                |  |
| 1991 ..... | 480                   | 58    | 7                 | 403                   | 12                |  |
| 1992 ..... | 460                   | 53    | 7                 | 388                   | 12                |  |



### LAMB CROP: Utah, Selected Years

| Year       | Breeding Ewes<br>One Year and<br>Older January 1 | Lamb Crop <u>1/</u> |   |
|------------|--|---------------------|---|
|            |  | Number              | As Percent of<br>Ewes One Year<br>and Older <u>2/</u> |
|            | ----- 1,000 Head -----                           |                     | Percent   |
| 1940 ..... | 1,706  | 1,365               | 80  |
| 1950 ..... | 1,066  | 895                 | 84  |
| 1960 ..... | 1,065  | 927                 | 87  |
| 1970 ..... | 821  | 780                 | 95  |
| 1980 ..... | 491  | 476                 | 97  |
| 1984 ..... | 465  | 430                 | 92  |
| 1985 ..... | 420  | 420                 | 100   |
| 1986 ..... | 400  | 400                 | 100   |
| 1987 ..... | 375  | 380                 | 101   |
| 1988 ..... | 390  | 380                 | 97  |
| 1989 ..... | 405  | 430                 | 106   |
| 1990 ..... | 407  | 430                 | 106   |
| 1991 ..... | 403  | 400                 | 99  |

1/ Lamb crop defined as lambs marked, docked or branded. 2/ Not strictly a lambing rate. Percent represents lambs saved expressed as a percent of ewes one year old and older on hand at beginning of year.

### WOOL: Production and Value, Utah, Selected Years

| Year      | All Sheep<br>Shorn <u>1/</u> | Weight per<br>Fleece | Shorn<br>Wool<br>Production | Average<br>Price per<br>Pound <u>2/</u> | Value <u>3/</u> |
|-----------|------------------------------|----------------------|-----------------------------|---|-----------------|
|           | 1,000 Head                   | Pounds               | 1,000 Pounds                | Dollars                                 | 1,000 Dollars   |
| 1940 .... | 1,990                        | 9.3                  | 18,507                      | .27                                     | 4,997           |
| 1950 .... | 1,180                        | 9.4                  | 11,092                      | .58                                     | 6,433           |
| 1960 .... | 1,203                        | 9.9                  | 11,950                      | .39                                     | 4,660           |
| 1970 .... | 985                          | 9.8                  | 9,637                       | .32                                     | 3,084           |
| 1980 .... | 575                          | 9.9                  | 5,670                       | .90                                     | 5,103           |
| 1984 .... | 548                          | 9.9                  | 5,427                       | .84                                     | 4,559           |
| 1985 .... | 498                          | 9.6                  | 4,793                       | .61                                     | 2,924           |
| 1986 .... | 468                          | 10.0                 | 4,668                       | .66                                     | 3,081           |
| 1987 .... | 440                          | 9.8                  | 4,320                       | .93                                     | 4,018           |
| 1988 .... | 467                          | 9.8                  | 4,575                       | 1.36                                    | 6,222           |
| 1989 .... | 452                          | 10.2                 | 4,598                       | 1.30                                    | 5,977           |
| 1990 .... | 464                          | 10.2                 | 4,723                       | .72                                     | 3,401           |
| 1991 .... | 442                          | 10.4                 | 4,595                       | .51                                     | 2,343           |

1/ Includes sheep shorn at commercial feeding yards. 2/ Monthly price weighted by monthly sales of wool. 3/ Production multiplied by annual average price.

### SHEEP & LAMBS: Inventory Numbers, Lamb Crop & Disposition, Utah, Selected Years

| Year       | Inventory Beginning of Year | Lambs Saved | Inshipments | Marketings <u>1/</u> |       | Farm Slaughter <u>2/</u> | Deaths |       | Inventory End of Year |
|------------|-----------------------------|-------------|-------------|----------------------|-------|--------------------------|--------|-------|-----------------------|
|            |                             |             |             | Sheep                | Lambs |                          | Sheep  | Lambs |                       |
| 1,000 Head |                             |             |             |                      |       |                          |        |       |                       |
| 1940 .     | 2,248                       | 1,365       | 40          | 127                  | 894   | 38                       | 236    | 110   | 2,248                 |
| 1950 .     | 1,329                       | 895         | 92          | 39                   | 668   | 22                       | 125    | 70    | 1,392                 |
| 1960 .     | 1,336                       | 927         | 54          | 59                   | 759   | 21                       | 125    | 76    | 1,277                 |
| 1970 .     | 1,053                       | 780         | 100         | 74                   | 646   | 25                       | 94     | 85    | 1,009                 |
| 1980 .     | 625                         | 476         | 30          | 20                   | 346   | 9                        | 56     | 50    | 650                   |
| 1985 .     | 515                         | 420         | 10          | 45.5                 | 324.5 | 6                        | 30     | 55    | 484                   |
| 1986 .     | 484                         | 400         | 10          | 49                   | 306   | 5                        | 25     | 45    | 464                   |
| 1987 .     | 464                         | 380         | 19          | 24.5                 | 292.5 | 3                        | 24     | 41    | 478                   |
| 1988 .     | 478                         | 380         | 10          | 22                   | 281   | 5                        | 30     | 27    | 503                   |
| 1989 .     | 503                         | 430         | 11          | 40                   | 331   | 4                        | 25     | 35    | 509                   |
| 1990 .     | 509                         | 430         | 11          | 50                   | 328   | 5                        | 25     | 34    | 508                   |
| 1991 .     | 508                         | 400         | 11          | 62                   | 305   | 5                        | 26     | 33    | 488                   |

1/ Includes custom slaughter for use on farms where produced, State outshipments, but excludes interfarm sales within the State. 2/ Excludes custom slaughter for farmers at commercial establishments.

### SHEEP & LAMBS: Production, Marketings & Income, Utah, Selected Years

| Year | Production <u>1/</u> | Marketings <u>2/</u> | Price per 100 Pounds |       | Value of Production | Cash Receipts <u>3/</u> | Value of Home Consumption | Gross Income |
|------|----------------------|----------------------|----------------------|-------|---------------------|-------------------------|---------------------------|--------------|
|      |                      |                      | Sheep                | Lambs |                     |                         |                           |              |
| ---  | 1,000 Pounds ---     | -----                | Dollars -----        |       | -----               | 1,000 Dollars -----     | -----                     | -----        |
| 1940 | 75,523               | 76,550               | 3.35                 | 7.50  | --                  | 5,201                   | 147                       | 5,348        |
| 1950 | 56,611               | 56,624               | 10.60                | 24.90 | --                  | 13,535                  | 278                       | 13,813       |
| 1960 | 62,307               | 71,459               | 5.30                 | 17.00 | 10,352              | 11,367                  | 191                       | 11,558       |
| 1970 | 60,909               | 73,550               | 7.10                 | 25.40 | 15,009              | 16,992                  | 608                       | 17,600       |
| 1980 | 35,234               | 33,530               | 16.50                | 61.60 | 19,751              | 19,527                  | 542                       | 20,069       |
| 1985 | 37,956               | 41,949               | 18.50                | 65.70 | 23,120              | 24,551                  | 388                       | 24,939       |
| 1986 | 37,047               | 40,624               | 21.30                | 65.30 | 22,747              | 23,400                  | 361                       | 23,761       |
| 1987 | 33,173               | 32,832               | 21.40                | 71.60 | 21,443              | 21,663                  | 271                       | 21,934       |
| 1988 | 31,010               | 28,420               | 20.00                | 61.50 | 17,038              | 16,109                  | 387                       | 16,496       |
| 1989 | 35,674               | 35,728               | 19.20                | 60.50 | 19,200              | 19,137                  | 261                       | 19,398       |
| 1990 | 35,800               | 36,670               | 18.70                | 48.50 | 15,575              | 15,550                  | 393                       | 15,943       |
| 1991 | 33,165               | 36,330               | 20.40                | 43.20 | 12,970              | 13,574                  | 389                       | 13,963       |

1/ Adjustments made for changes in inventory and for inshipments. 2/ Excludes custom slaughter for use on farms where produced and interfarm sales within the State. 3/ Receipt from marketings and sale of farm slaughter.

**SHEEP & LAMB SLAUGHTER: Number & Live Weight, Utah,  
Selected Years 1/**

| Year                     | Number <u>2/</u> |  | Average Live Weight<br>per Head |  | Total<br>Live Weight |  |
|--------------------------|------------------|--|---------------------------------|--|----------------------|--|
|                          | 1,000 Head       |  | Pounds                          |  | 1,000 Pounds         |  |
| 1944 <u>3/</u> . . . . . | 106.2            |  | --                              |  | --                   |  |
| 1950 . . . . .           | 155.0            |  | 101                             |  | 15,682               |  |
| 1960 . . . . .           | 307.4            |  | 102                             |  | 31,476               |  |
| 1970 . . . . .           | 847.0            |  | 106                             |  | 89,400               |  |
| 1980 . . . . .           | 24.3             |  | 116                             |  | 2,811                |  |
| 1985 . . . . .           | 32.2             |  | 110                             |  | 3,553                |  |
| 1986 . . . . .           | 40.1             |  | 109                             |  | 4,368                |  |
| 1987 . . . . .           | 25.6             |  | 112                             |  | 2,860                |  |
| 1988 . . . . .           | 23.4             |  | 119                             |  | 2,795                |  |
| 1989 . . . . .           | 30.7             |  | 122                             |  | 3,745                |  |
| 1990 . . . . .           | 44.7             |  | 117                             |  | 5,236                |  |
| 1991 . . . . .           |                  |  |                                 |  |                      |  |

1/ Publication of Utah estimates discontinued after April 1991 to avoid disclosing individual operations.  
2/ Includes slaughter under Federal inspection and other commercial slaughter, excludes farm slaughter. 3/ First year on record.

**SHEEP & LAMB SLAUGHTER: Number & Live Weight, by Month, Utah 1990-1991 1/**

| Month               | Number <u>2/</u> |      | Average Live Weight<br>per Head |      | Total<br>Live Weight |       |
|---------------------|------------------|------|---------------------------------|------|----------------------|-------|
|                     | 1990             | 1991 | 1990                            | 1991 | 1990                 | 1991  |
|                     | -- 1,000 Head -- |      | --- Pounds ---                  |      | -- 1,000 Pounds --   |       |
| January . . . . .   | 1.9              | 6.0  | 118                             | 118  | 222                  | 702   |
| February . . . . .  | 2.8              | 8.7  | 120                             | 117  | 339                  | 1,025 |
| March . . . . .     | 4.0              | 8.1  | 117                             | 118  | 467                  | 956   |
| April . . . . .     | 3.6              | 7.5  | 118                             | 119  | 424                  | 897   |
| May . . . . .       | 3.4              |      | 117                             |      | 397                  |       |
| June . . . . .      | 2.7              |      | 119                             |      | 317                  |       |
| July . . . . .      | 2.9              |      | 119                             |      | 346                  |       |
| August . . . . .    | 3.5              |      | 115                             |      | 405                  |       |
| September . . . . . | 2.7              |      | 114                             |      | 313                  |       |
| October . . . . .   | 5.1              |      | 116                             |      | 595                  |       |
| November . . . . .  | 4.6              |      | 118                             |      | 542                  |       |
| December . . . . .  | 7.5              |      | 116                             |      | 868                  |       |

1/ Publication of Utah estimates discontinued after April 1991 to avoid disclosing individual operations.  
2/ Includes slaughter under Federal inspection and other commercial slaughter, excludes farm slaughter.

# Sheep and Lamb Losses

The Utah Department of Agriculture sponsored a survey to make State estimates of sheep and lamb losses by cause in 1991. Utah sheepmen were asked to categorize sheep and lamb losses by cause of death.

Sheep and lamb losses totaled 93,000 head during 1991, a 3 percent increase from the 1990 level. Losses include 34,000 lambs lost before docking, 33,000 lambs lost after docking, and 26,000 sheep. The total value of all losses was \$6.0 million, down 16 percent from the previous year. Predators accounted for 52 percent of all losses, compared with 46 percent in 1990. Nonpredator losses were 36 percent of the total, up 5 percent from the previous year.

Coyotes were the major cause of loss during 1991 accounting for 33 percent of all losses, and a total value of \$2.0 million. Weather conditions were the second leading cause and were responsible for 9,700 deaths with a total estimated value of \$625,700. Other major causes of death were disease and mountain lions. Unknown causes accounted for 12 percent of all losses and a total value of \$741,800.

## SHEEP AND LAMB LOSSES: by Cause, Utah, 1991

| Cause  | Total Head Lost      |                     |               | Percent of Losses    |                     |              | Value of All Losses <sup>1/</sup> |
|--|----------------------|---------------------|---------------|----------------------|---------------------|--------------|-----------------------------------|
|  | Lambs Before Docking | Lambs After Docking | Sheep         | Lambs Before Docking | Lambs After Docking | Sheep        |                                   |
|  | ----- Number -----   |                     |               | ----- Percent -----  |                     |              | Dollars                           |
| Dog . . . . .                                  | 300                  | 2,100               | 1,500         | .9                   | 6.4                 | 5.8          | 251,600                           |
| Coyote . . . . .                               | 8,700                | 16,600              | 5,800         | 25.6                 | 50.3                | 22.3         | 2,006,000                         |
| Eagle . . . . .                                | 1,200                | 200                 | 0             | 3.5                  | .6                  | .0           | 90,300                            |
| Bear . . . . .                                 | 100                  | 900                 | 600           | .3                   | 2.7                 | 2.3          | 103,200                           |
| Mountain Lion . . . . .                        | 1,400                | 3,600               | 1,900         | 4.1                  | 10.9                | 7.3          | 445,100                           |
| Other Animals . . . . .                        | 1,700                | 800                 | 500           | 5.0                  | 2.4                 | 1.9          | 193,500                           |
| <b>Total Losses to Predators <sup>2/</sup></b> | <b>13,400</b>        | <b>24,200</b>       | <b>10,300</b> | <b>39.4</b>          | <b>73.3</b>         | <b>39.6</b>  | <b>3,089,700</b>                  |
| Weather Conditions . . . . .                   | 7,000                | 700                 | 2,000         | 20.6                 | 2.1                 | 7.7          | 625,700                           |
| Disease . . . . .                              | 1,800                | 1,800               | 2,000         | 5.3                  | 5.5                 | 7.7          | 361,200                           |
| Poison . . . . .                               | 200                  | 600                 | 1,500         | .6                   | 1.8                 | 5.8          | 148,400                           |
| Lambing Complications . . . . .                | 7,100                | 0                   | 1,200         | 20.9                 | .0                  | 4.6          | 535,400                           |
| Old Age . . . . .                              | 0                    | 0                   | 2,700         | .0                   | .0                  | 10.4         | 174,200                           |
| Theft . . . . .                                | 100                  | 300                 | 400           | .3                   | .9                  | 1.5          | 51,600                            |
| Other (i.e. bloat etc.) . . . . .              | 1,700                | 900                 | 1,600         | 5.0                  | 2.7                 | 6.2          | 270,900                           |
| <b>Total Nonpredator Losses <sup>2/</sup></b>  | <b>17,900</b>        | <b>4,300</b>        | <b>11,400</b> | <b>52.6</b>          | <b>13.0</b>         | <b>43.8</b>  | <b>2,167,400</b>                  |
| All Unknown Causes . . . . .                   | 2,700                | 4,500               | 4,300         | 7.9                  | 13.6                | 16.5         | 741,800                           |
| <b>Total Losses</b>                            | <b>34,000</b>        | <b>33,000</b>       | <b>26,000</b> | <b>100.0</b>         | <b>100.0</b>        | <b>100.0</b> | <b>5,998,900</b>                  |

<sup>1/</sup> Value per head of \$64.50 (average of beginning and end of year inventory value) used to calculate total loss. <sup>2/</sup> Individual classes may not add to total due to rounding.

## Hogs and Pigs

Utah hog and pig inventory on December 1, 1991 was 38,000 head, 15 percent above the December 1, 1990 level. The total pig crop for the year was 57,000 head, 10 percent above the previous year. A total of 7,800 sows farrowed during 1991, up 11 percent from 1990. The number of hog and pig farms remain the same as the previous year.

The December 1 average value per head of Utah's hogs and pigs was \$77.00, down \$16.00 from the 1990 level. The total inventory value was \$2.9 million, down 5 percent from a year earlier.

Cash receipts during the December 1, 1990 - November 30, 1991 period totaled \$4.9 million, down 4 percent from the previous year. Marketings during 1991 were at 11.5 million pounds, 9 percent above the previous year. Hog prices averaged \$42.80 per cwt, down \$5.40 from the 1990 average price.

### HOGS AND PIGS: Number of Farms, Inventory and Value, Utah, Selected Years

| Year           | Farms with Hogs | Hogs and Pigs on Farms December 1 |          |               |
|----------------|-----------------|-----------------------------------|----------|---------------|
|                |                 | Number                            | Value    |               |
|                |                 |                                   | Per Head | Total         |
|                | Number          | 1,000 Head                        | Dollars  | 1,000 Dollars |
| 1940 . . . . . | --              | 105                               | 6.80     | 714           |
| 1950 . . . . . | --              | 84                                | 29.70    | 2,495         |
| 1960 . . . . . | --              | 68                                | 24.00    | 1,632         |
| 1970 . . . . . | 2,000           | 45                                | 23.00    | 1,035         |
| 1980 . . . . . | 2,200           | 58                                | 63.00    | 3,654         |
| 1985 . . . . . | 1,200           | 23                                | 79.00    | 1,817         |
| 1986 . . . . . | 1,000           | 25                                | 83.00    | 2,075         |
| 1987 . . . . . | 900             | 30                                | 80.50    | 2,415         |
| 1988 . . . . . | 900             | 33                                | 69.50    | 2,294         |
| 1989 . . . . . | 900             | 27                                | 76.50    | 2,066         |
| 1990 . . . . . | 900             | 33                                | 93.00    | 3,069         |
| 1991 . . . . . | 900             | 38                                | 77.00    | 2,926         |

**HOGS: Inventory by Class and Weight Group, Utah, December 1, Selected Years**

| Year           | Total | Breeding | Market | Market Hogs & Pigs by Weight Group |             |              |                 |
|----------------|-------|----------|--------|------------------------------------|-------------|--------------|-----------------|
|                |       |          |        | Under 60 Lbs.                      | 60-119 Lbs. | 120-179 Lbs. | 180 Lbs. & Over |
| 1,000 Head     |       |          |        |                                    |             |              |                 |
| 1963 <u>1/</u> | 50    | 8        | 42     | 19                                 | 8           | 7            | 8               |
| 1970 ..        | 45    | 8        | 37     | 16                                 | 9           | 6            | 6               |
| 1980 ..        | 58    | 7        | 51     | 15                                 | 16          | 14           | 6               |
| 1985 ..        | 23    | 3        | 20     | 8                                  | 5           | 4            | 3               |
| 1986 ..        | 25    | 3        | 22     | 9                                  | 6           | 4            | 3               |
| 1987 ..        | 30    | 4        | 22     | 9                                  | 5           | 4            | 4               |
| 1988 ..        | 33    | 5        | 28     | 12                                 | 6           | 5            | 5               |
| 1989 ..        | 27    | 4        | 23     | 8                                  | 6           | 5            | 4               |
| 1990 ..        | 33    | 5        | 28     | 10                                 | 7           | 5            | 6               |
| 1991 ..        | 38    | 5        | 33     | 11                                 | 8           | 7            | 7               |

1/ First year on record.

**PIG CROP: Sows Farrowing and Pigs Saved, Utah, Selected Years**

| Year | Spring Pig Crop <u>1/</u> |                 |                    | Fall Pig Crop <u>2/</u> |                        |            | Total Pig Crop Spring & Fall |            |
|------|---------------------------|-----------------|--------------------|-------------------------|------------------------|------------|------------------------------|------------|
|      | Sows Farrowing            | Pigs per Litter | Pigs Saved         | Sows Farrowing          | Pigs per Litter        | Pigs Saved | Sows Farrowing               | Pigs Saved |
|      | 1,000 Head                | Head            | --- 1,000 Head --- | Head                    | ----- 1,000 Head ----- |            |                              |            |
| 1940 | 16.0                      | 6.0             | 96.0               | 10.0                    | 6.8                    | 68.0       | 26.0                         | 164.0      |
| 1950 | 10.0                      | 6.4             | 64.0               | 7.0                     | 6.9                    | 48.0       | 17.0                         | 112.0      |
| 1960 | 5.8                       | 6.7             | 39.0               | 6.2                     | 7.3                    | 45.0       | 12.0                         | 84.0       |
| 1970 | 4.8                       | 7.1             | 34.0               | 4.6                     | 7.2                    | 33.0       | 9.4                          | 67.0       |
| 1980 | 5.0                       | 7.0             | 35.0               | 8.0                     | 6.0                    | 48.0       | 13.0                         | 83.0       |
| 1985 | 2.3                       | 6.4             | 15.0               | 1.7                     | 7.5                    | 13.0       | 4.0                          | 28.0       |
| 1986 | 2.3                       | 7.9             | 18.0               | 1.9                     | 7.6                    | 14.0       | 4.2                          | 32.0       |
| 1987 | 2.3                       | 7.4             | 17.0               | 2.1                     | 7.9                    | 17.0       | 4.4                          | 34.0       |
| 1988 | 2.9                       | 7.4             | 22.0               | 3.0                     | 8.0                    | 24.0       | 5.9                          | 46.0       |
| 1989 | 2.8                       | 7.3             | 20.4               | 2.3                     | 7.8                    | 17.9       | 5.1                          | 38.3       |
| 1990 | 3.2                       | 7.2             | 23.0               | 3.8                     | 7.6                    | 29.0       | 7.0                          | 52.0       |
| 1991 | 3.8                       | 7.1             | 26.0               | 4.0                     | 7.7                    | 31.0       | 7.8                          | 57.0       |

1/ Spring, December through May. 2/ Fall, June through November.

**HOGS AND PIGS: Inventory, Supply, and Disposition, Utah, Selected Years 1/**

| Year       | Inventory Beginning of Year | Annual Pig Crop | Inshipments | Marketings <u>2/</u> | Farm Slaughter <u>3/</u> | Deaths | Inventory End of Year |
|------------|-----------------------------|-----------------|-------------|----------------------|--------------------------|--------|-----------------------|
| 1,000 Head |                             |                 |             |                      |                          |        |                       |
| 1940       | 125                         | 164             | 3           | 139                  | 32                       | 16     | 105                   |
| 1950       | 88                          | 112             | 1           | 83                   | 19                       | 15     | 84                    |
| 1960       | 68                          | 84              | 1           | 64                   | 11                       | 10     | 68                    |
| 1970       | 43                          | 67              | 2           | 58                   | 3                        | 6      | 45                    |
| 1980       | 55                          | 83              | 2           | 73                   | 2                        | 7      | 58                    |
| 1985       | 28                          | 28              | 1           | 30.5                 | 1.2                      | 2.3    | 23                    |
| 1986       | 23                          | 32              | 2           | 28                   | 1.1                      | 2.9    | 25                    |
| 1987       | 25                          | 34              | 3           | 26.6                 | .2                       | 5.2    | 30                    |
| 1988       | 30                          | 46              | 3           | 42.5                 | .8                       | 2.7    | 33                    |
| 1989       | 33                          | 38.3            | 2           | 42.3                 | 1.4                      | 2.6    | 27                    |
| 1990       | 27                          | 52              | 4           | 45                   | 1                        | 4      | 33                    |
| 1991       | 33                          | 57              | 3           | 49                   | 1                        | 5      | 38                    |

1/ Hogs and pigs inventory is as of Dec. 1. 2/ Includes custom slaughter for use on farm where produced, State out-shipments, but excludes interfarm sales within the State. 3/ Excludes custom slaughter for farmers at commercial establishments.

**HOGS AND PIGS: Production and Income, Utah, Selected Years**

| Year                | Production <u>1/</u> | Marketings <u>2/</u> | Price per 100 Lbs. | Value of Production       | Cash Receipts <u>3/</u> | Value of Home Consumption | Gross Income |
|---------------------|----------------------|----------------------|--------------------|---------------------------|-------------------------|---------------------------|--------------|
| -- 1,000 Dollars -- |                      |                      | Dollars            | ----- 1,000 Dollars ----- |                         |                           |              |
| 1940                | 31,760               | 27,800               | 5.70               | --                        | 1,734                   | 268                       | 2,002        |
| 1950                | 23,272               | 18,687               | 18.60              | --                        | 3,779                   | 544                       | 4,323        |
| 1960                | 16,611               | 13,676               | 15.70              | 2,608                     | 2,210                   | 331                       | 2,541        |
| 1970                | 13,852               | 12,488               | 22.40              | 3,103                     | 2,797                   | 269                       | 3,066        |
| 1980                | 18,483               | 16,125               | 36.70              | 6,762                     | 5,918                   | 488                       | 6,406        |
| 1985                | 6,780                | 6,929                | 41.00              | 2,768                     | 2,841                   | 226                       | 3,067        |
| 1986                | 6,907                | 6,367                | 47.00              | 3,223                     | 2,992                   | 238                       | 3,230        |
| 1987                | 7,149                | 6,428                | 47.70              | 3,369                     | 3,066                   | 50                        | 3,116        |
| 1988                | 10,789               | 10,046               | 37.70              | 4,056                     | 3,787                   | 157                       | 3,944        |
| 1989                | 9,746                | 9,984                | 38.80              | 3,773                     | 3,874                   | 196                       | 4,070        |
| 1990                | 11,706               | 10,601               | 48.20              | 5,619                     | 5,110                   | 212                       | 5,322        |
| 1991                | 12,494               | 11,520               | 42.80              | 5,332                     | 4,931                   | 205                       | 5,136        |

1/ Adjustments made for inshipments and changes in inventories. 2/ Excludes interfarm sales and custom slaughter for use on farms where produced. 3/ Includes receipts from marketings and from sales of farm slaughtered meat.



**COMMERCIAL HOG SLAUGHTER: Number and Live Weight,  
Utah, Selected Years <sup>1/</sup>**

| Year                         | Number <sup>2/</sup> |  | Average Live Weight |  | Total Live Weight |  |
|------------------------------|----------------------|--|---------------------|--|-------------------|--|
|                              | 1,000 Head           |  | Pounds              |  | 1,000 Pounds      |  |
| 1944 <sup>3/</sup> . . . . . | 258.2                |  | --                  |  | --                |  |
| 1950 . . . . .               | 246.7                |  | 228                 |  | 56,259            |  |
| 1960 . . . . .               | 306.4                |  | 227                 |  | 69,695            |  |
| 1970 . . . . .               | 117.4                |  | 229                 |  | 26,837            |  |
| 1980 . . . . .               | 154.5                |  | 236                 |  | 36,428            |  |
| 1985 . . . . .               | 217.1                |  | 232                 |  | 50,409            |  |
| 1986 . . . . .               | 221.6                |  | 240                 |  | 53,092            |  |
| 1987 . . . . .               | 232.0                |  | 240                 |  | 55,596            |  |
| 1988 . . . . .               | 261.5                |  | 240                 |  | 62,736            |  |
| 1989 . . . . .               | 271.1                |  | 241                 |  | 65,284            |  |
| 1990 . . . . .               | 269.9                |  | 246                 |  | 66,387            |  |
| 1991 . . . . .               |                      |  |                     |  |                   |  |

<sup>1/</sup> Publication of Utah estimates discontinued after April 1991 to avoid disclosing individual operations.  
<sup>2/</sup> Includes slaughter under Federal inspection and other commercial slaughter, excludes farm slaughter.  
<sup>3/</sup> First year on record.

**COMMERCIAL HOG SLAUGHTER: Number and Live Weight,  
by Month, Utah, 1990 and 1991 <sup>1/</sup>**

| Month           | Number <sup>2/</sup> |      | Average Live Weight per Head |      | Total Live Weight    |       |
|-----------------|----------------------|------|------------------------------|------|----------------------|-------|
|                 | 1990                 | 1991 | 1990                         | 1991 | 1990                 | 1991  |
|                 | --- 1,000 Head ---   |      | ---- Pounds ----             |      | --- 1,000 Pounds --- |       |
| January . .     | 23.2                 | 24.3 | 243                          | 244  | 5,621                | 5,927 |
| February . .    | 19.4                 | 22.6 | 244                          | 247  | 4,739                | 5,567 |
| March . . . .   | 22.0                 | 22.8 | 245                          | 246  | 5,405                | 5,611 |
| April . . . . . | 20.9                 | 23.8 | 246                          | 249  | 5,141                | 5,914 |
| May . . . . .   | 21.5                 |      | 247                          |      | 5,312                |       |
| June . . . . .  | 18.9                 |      | 246                          |      | 4,643                |       |
| July . . . . .  | 19.8                 |      | 243                          |      | 4,808                |       |
| August . . .    | 25.3                 |      | 244                          |      | 6,188                |       |
| September .     | 23.2                 |      | 242                          |      | 5,610                |       |
| October . .     | 25.7                 |      | 255                          |      | 6,557                |       |
| November .      | 26.6                 |      | 248                          |      | 6,597                |       |
| December .      | 23.4                 |      | 246                          |      | 5,764                |       |

<sup>1/</sup> Publication of Utah estimates discontinued after April 1991 to avoid disclosing individual operations.  
<sup>2/</sup> Includes slaughter under Federal inspection and other commercial slaughter, excludes farm slaughter.

## Chickens and Eggs

The value of eggs produced in Utah during 1991 totaled \$23.9 million, 2 percent below the 1990 level. Total production at 486 million eggs was up 7 percent from 1990. The average price of eggs was 59 cents per dozen, 5 cents below 1990.

The average number of layers during the year was 1.88 million, 3 percent above the 1990 level. Eggs produced per layer was 259 compared with 250 for 1990.

Pounds of chicken sold (primarily cull laying hens) at 4.4 million decreased 8 percent from 1990. The average price per pound of chickens sold was 2.0 cents, down .1 cent from 1990. The value of chickens sold in 1991 was \$88,000, down 12 percent from the 1990 value.

**LAYERS AND EGGS: Number, Production and Value of Production,  
Utah, Selected Years <sup>1/</sup>**

| Year           | Average<br>Number of<br>Layers | Eggs<br>per<br>Layer | Total<br>Egg<br>Production | Price<br>per<br>Dozen | Value of<br>Production |
|----------------|--------------------------------|----------------------|----------------------------|-----------------------|------------------------|
|                | 1,000                          | Number               | Millions                   | Cents                 | 1,000 Dollars          |
| 1940 . . . . . | 1,739                          | 155                  | 269                        | 18.7                  | 4,176                  |
| 1950 . . . . . | 2,310                          | 184                  | 425                        | 39.5                  | 13,989                 |
| 1960 . . . . . | 1,377                          | 223                  | 307                        | 34.9                  | 8,928                  |
| 1970 . . . . . | 1,256                          | 216                  | 271                        | 36.0                  | 8,130                  |
| 1980 . . . . . | 1,762                          | 236                  | 416                        | 49.0                  | 16,987                 |
| 1986 . . . . . | 1,781                          | 257                  | 457                        | 49.0                  | 18,661                 |
| 1987 . . . . . | 1,906                          | 259                  | 493                        | 45.0                  | 18,487                 |
| 1988 . . . . . | 1,933                          | 253                  | 490                        | 52.0                  | 21,233                 |
| 1989 . . . . . | 1,849                          | 248                  | 460                        | 65.0                  | 24,917                 |
| 1990 . . . . . | 1,817                          | 250                  | 456                        | 64.0                  | 24,320                 |
| 1991 . . . . . | 1,876                          | 259                  | 486                        | 59.0                  | 23,895                 |

<sup>1/</sup> Estimates cover the 12 month period, December 1 previous year, through November 30.

**CHICKEN INVENTORY: Number and Value, Utah, Selected Years 1/**

| Date               | Hens and Pullets of Laying Age | Pullets 3 Months and Over Not Laying | Pullets Under 3 Months | Other Chickens | Total Chickens |         |               |
|--------------------|--------------------------------|--------------------------------------|------------------------|----------------|----------------|---------|---------------|
|                    |                                |                                      |                        |                | Number         | Value   |               |
|                    |                                |                                      |                        |                |                | Average | Total         |
|                    |                                |                                      | ----- 1,000 Head ----- |                |                | Dollars | 1,000 Dollars |
| Jan. 1, 1940 . . . | 2/ 2,191                       | 3/                                   | 4/                     | 175            | 2,366          | .63     | 1,491         |
| Jan. 1, 1950 . . . | 2/ 2,871                       | 3/                                   | 4/                     | 150            | 3,021          | 1.22    | 3,686         |
| Jan. 1, 1960 . . . | 2/ 1,691                       | 3/                                   | 4/                     | 69             | 1,760          | .94     | 1,654         |
| Jan. 1, 1970 . . . | 1,320                          | 190                                  | 219                    | 10             | 1,739          | 1.20    | 2,087         |
| Dec. 1, 1970 . . . | 1,182                          | 218                                  | 327                    | 10             | 1,737          | 1.10    | 1,911         |
| Dec. 1, 1980 . . . | 1,871                          | 91                                   | 134                    | 4              | 2,100          | 1.65    | 3,465         |
| Dec. 1, 1985 . . . | 1,748                          | 377                                  | 297                    | 3              | 2,425          | 1.75    | 4,244         |
| Dec. 1, 1986 . . . | 1,858                          | 203                                  | 345                    | 3              | 2,409          | 1.80    | 4,336         |
| Dec. 1, 1987 . . . | 1,921                          | 232                                  | 260                    | 3              | 2,416          | 1.80    | 4,349         |
| Dec. 1, 1988 . . . | 1,868                          | 202                                  | 186                    | 4              | 2,260          | 1.65    | 3,729         |
| Dec. 1, 1989 . . . | 1,779                          | 158                                  | 193                    | 3              | 2,133          | 1.60    | 3,413         |
| Dec. 1, 1990 . . . | 1,858                          | 273                                  | 208                    | 1              | 2,340          | 1.90    | 4,446         |
| Dec. 1, 1991 . . . | 1,954                          | 155                                  | 183                    | 1              | 2,293          | 1.60    | 3,669         |

1/ Excludes commercial broilers. 2/ Includes pullets not of laying age. 3/ Included with hens and pullets. 4/ Included in hens and pullets and in other chickens.

**CHICKENS: Lost, Sold, and Value of Sales, Utah, Selected Years 1/**

| Year           | Number Lost 2/         | Number Sold | Pounds Sold  | Price per Pound | Value of Sales |
|----------------|------------------------|-------------|--------------|-----------------|----------------|
|                | ----- 1,000 Head ----- |             | 1,000 Pounds | Cents           | 1,000 Dollars  |
| 1940 . . . . . | 426                    | 2,044       | 6,132        | 11.0            | 675            |
| 1950 . . . . . | 634                    | 3,562       | 13,892       | 20.7            | 2,876          |
| 1960 . . . . . | 334                    | 1,018       | 4,174        | 8.2             | 342            |
| 1970 . . . . . | 200                    | 638         | 2,552        | 4.0             | 102            |
| 1980 . . . . . | 260                    | 804         | 3,055        | 8.0             | 244            |
| 1985 . . . . . | 170                    | 1,250       | 5,000        | 8.0             | 400            |
| 1986 . . . . . | 165                    | 860         | 3,440        | 10.0            | 344            |
| 1987 . . . . . | 212                    | 955         | 3,820        | 6.0             | 229            |
| 1988 . . . . . | 202                    | 1,070       | 4,280        | 6.7             | 287            |
| 1989 . . . . . | 170                    | 930         | 3,720        | 7.0             | 260            |
| 1990 . . . . . | 160                    | 1,190       | 4,760        | 2.1             | 100            |
| 1991 . . . . . | 195                    | 1,095       | 4,380        | 2.0             | 88             |

1/ Estimates exclude broilers and cover the 12 month period January 1 through December 31 -- in 1970, estimating period changed to Dec. 1 previous year through Nov. 30. 2/ Includes death and other losses during the 12 month period.

# Turkeys

Utah turkey production in 1991 at 4.05 million birds was 3 percent above the previous year.

The average price received per pound for turkeys was 50 cents, down 2 cents from the previous year. Total value produced was \$45.2 million, 4 percent below the 1990 total value.

Turkey production of 90.3 million pounds was the same level as a year earlier. The average live weight per bird was 22.3 pounds, compared with 22.9 pounds during 1990.

Utah turkey farms are located primarily in Sanpete County.

**TURKEYS: Production and Gross Income, Utah, Selected Years**

| Year           | Raised <u>1/</u> | Average Weight | Produced     | Price Per Pound <u>2/</u> | Gross Income <u>3/</u> |
|----------------|------------------|----------------|--------------|---------------------------|------------------------|
|                | 1,000 Head       | Pounds         | 1,000 Pounds | Cents                     | 1,000 Dollars          |
| 1940 . . . . . | 854              | 16.0           | 13,656       | 17.4                      | 2,376                  |
| 1950 . . . . . | 1,673            | 21.5           | 35,914       | 27.8                      | 9,984                  |
| 1960 . . . . . | 2,801            | 20.2           | 56,515       | 24.3                      | 13,733                 |
| 1970 . . . . . | 3,946            | 21.6           | 85,234       | 22.1                      | 18,837                 |
| 1980 . . . . . | 2,409            | 22.2           | 53,480       | 50.0                      | 26,740                 |
| 1985 . . . . . | 3,082            | 24.3           | 74,893       | 62.0                      | 46,433                 |
| 1986 . . . . . | 3,390            | 22.7           | 76,953       | 64.0                      | 49,250                 |
| 1987 . . . . . | 3,731            | 24.2           | 90,290       | 42.0                      | 37,922                 |
| 1988 . . . . . | 3,900            | 23.1           | 90,090       | 54.0                      | 48,649                 |
| 1989 . . . . . | 3,590            | 23.6           | 84,724       | 52.0                      | 44,056                 |
| 1990 . . . . . | 3,930            | 22.9           | 89,997       | 52.0                      | 46,798                 |
| 1991 . . . . . | 4,050            | 22.3           | 90,315       | 50.0                      | 45,158                 |

1/ Includes heavy and light breeds. 2/ Live weight equivalent price. 3/ Includes home consumption, less than 1 percent of production.

## Bees and Honey

Honey production in Utah totaled 1.5 million pounds in 1991, down 12 percent from the 1990 level. The number of colonies at 45,000 was down 4 percent from the previous year. The price received per pound of honey averaged 57 cents, up 1 cent from 1990 and up 3 cents from 1989. The total value of the honey produced in 1991 was \$872,000, 10 percent below the 1990 level.

Several Utah apiaries transport their bees to surrounding States and honey produced during these moves is counted in the State where the honey was produced.

**HONEY: Colonies of Bees, Production, & Value,  
Utah, Selected Years**

| Year                   | Colonies<br>of<br>Bees | Honey      |              |           |               |
|------------------------|------------------------|------------|--------------|-----------|---------------|
|                        |                        | Production |              | Value     |               |
|                        |                        | Per Colony | Total        | Per Pound | Total         |
|                        | 1,000                  | Pounds     | 1,000 Pounds | Cents     | 1,000 Dollars |
| 1940 .....             | 53                     | 45         | 2,385        | 3.6       | 86            |
| 1950 .....             | 49                     | 51         | 2,499        | 11.0      | 275           |
| 1960 .....             | 52                     | 34         | 1,768        | 15.6      | 276           |
| 1970 .....             | 50                     | 36         | 1,800        | 18.1      | 326           |
| 1980 .....             | 46                     | 33         | 1,518        | 58.1      | 882           |
| 1984 <sup>1/</sup> ... |                        |            |              |           |               |
| 1985 <sup>1/</sup> ... |                        |            |              |           |               |
| 1986 .....             | 35                     | 45         | 1,575        | 61        | 961           |
| 1987 .....             | 35                     | 48         | 1,688        | 54        | 912           |
| 1988 .....             | 36                     | 41         | 1,476        | 61        | 900           |
| 1989 .....             | 47                     | 44         | 2,068        | 54        | 1,117         |
| 1990 .....             | 47                     | 37         | 1,739        | 56        | 974           |
| 1991 .....             | 45                     | 34         | 1,530        | 57        | 872           |

<sup>1/</sup> Estimates not made 1984-85.

# Mink

Mink production in Utah during 1990 totaled 680,000 pelts, 13 percent below 1989. The number of females bred to produce kits in 1991 was 180,000, down 5 percent from the previous year. Utah ranked second in the nation in mink pelt production in 1990.

Standard was the most common type of pelt produced accounting for 64 percent of all pelts taken. Demi-buff and Mahogany accounted for 14 and 11 percent respectively.

In 1990 there were 180 mink farms in Utah, 5 more than 1989. Leading mink producing counties were Morgan and Utah producing over 50 percent of all pelts taken. Other leading counties were Summit, Salt Lake, and Cache.

MINK: Number of Ranches, Pelts Produced, Females Bred, Average Price & Value;  
Utah & United States, Selected Years

| Year | UTAH                    |                   |              | UNITED STATES           |                   |              |                    |                 |
|------|-------------------------|-------------------|--------------|-------------------------|-------------------|--------------|--------------------|-----------------|
|      | Ranches Producing Pelts | Pelts Produced    | Females Bred | Ranches Producing Pelts | Pelts Produced    | Females Bred | Average Pelt Price | Value of Pelts  |
|      | Number                  | ----- 1,000 ----- |              | Number                  | ----- 1,000 ----- |              | Dollars            | Million Dollars |
| 1971 | 261                     | 340.0             | 108.0        | 1,615                   | 3,380             | 1,011        | N/A                | N/A             |
| 1972 | 225                     | 285.0             | 94.5         | 1,380                   | 2,965             | 858          | N/A                | N/A             |
| 1973 | 218                     | 283.0             | 100.0        | 1,329                   | 3,037             | 902          | N/A                | N/A             |
| 1974 | 198                     | 315.0             | 103.0        | 1,221                   | 3,128             | 905          | N/A                | N/A             |
| 1975 | 186                     | 308.0             | 99.0         | 1,084                   | 3,067             | 870          | 24.10              | 73.9            |
| 1976 | 168                     | 323.0             | 97.7         | 1,015                   | 3,026             | 847          | 29.00              | 87.8            |
| 1977 | 185                     | 359.0             | 113.0        | 1,040                   | 3,076             | 887          | 28.30              | 87.1            |
| 1978 | 191                     | 411.0             | 129.0        | 1,095                   | 3,358             | 925          | 39.30              | 132.0           |
| 1979 | 190                     | 413.3             | 141.0        | 1,105                   | 3,394             | 978          | 41.10              | 139.5           |
| 1980 | 190                     | 465.7             | 149.0        | 1,122                   | 3,501             | 1,037        | 35.30              | 123.6           |
| 1981 | N/A                     | N/A               | 152.1        | N/A                     | N/A               | 1,074        | 32.20              | N/A             |
| 1982 | 175                     | 545.4             | N/A          | 1,116                   | 4,085             | N/A          | 28.90              | 118.1           |
| 1983 | 145                     | 505.5             | 166.8        | 1,098                   | 4,137             | 1,132        | 29.90              | 123.7           |
| 1984 | 159                     | 487.5             | 156.0        | 1,084                   | 4,220             | 1,115        | 30.80              | 130.0           |
| 1985 | 132                     | 501.7             | 148.3        | 1,042                   | 4,171             | 1,115        | 28.00              | 116.8           |
| 1986 | 121                     | 479.4             | 144.3        | 989                     | 4,096             | 1,073        | 41.30              | 170.0           |
| 1987 | 165                     | 690.0             | 137.6        | 1,027                   | 4,122             | 1,077        | 43.00              | 177.2           |
| 1988 | 175                     | 770.0             | 208.0        | 1,027                   | 4,453             | 1,198        | 32.30              | 143.8           |
| 1989 | 175                     | 780.0             | 225.0        | 940                     | 4,604             | 1,202        | 20.40              | 93.9            |
| 1990 | 180                     | 680.0             | 189.0        | 786                     | 3,365             | 922          | 25.50              | 85.8            |
| 1991 | <u>1/</u>               | <u>1/</u>         | 180.0        | <u>1/</u>               | <u>1/</u>         | 874          |                    |                 |

N/A = Not Available

1/ Data available July 19, 1992.

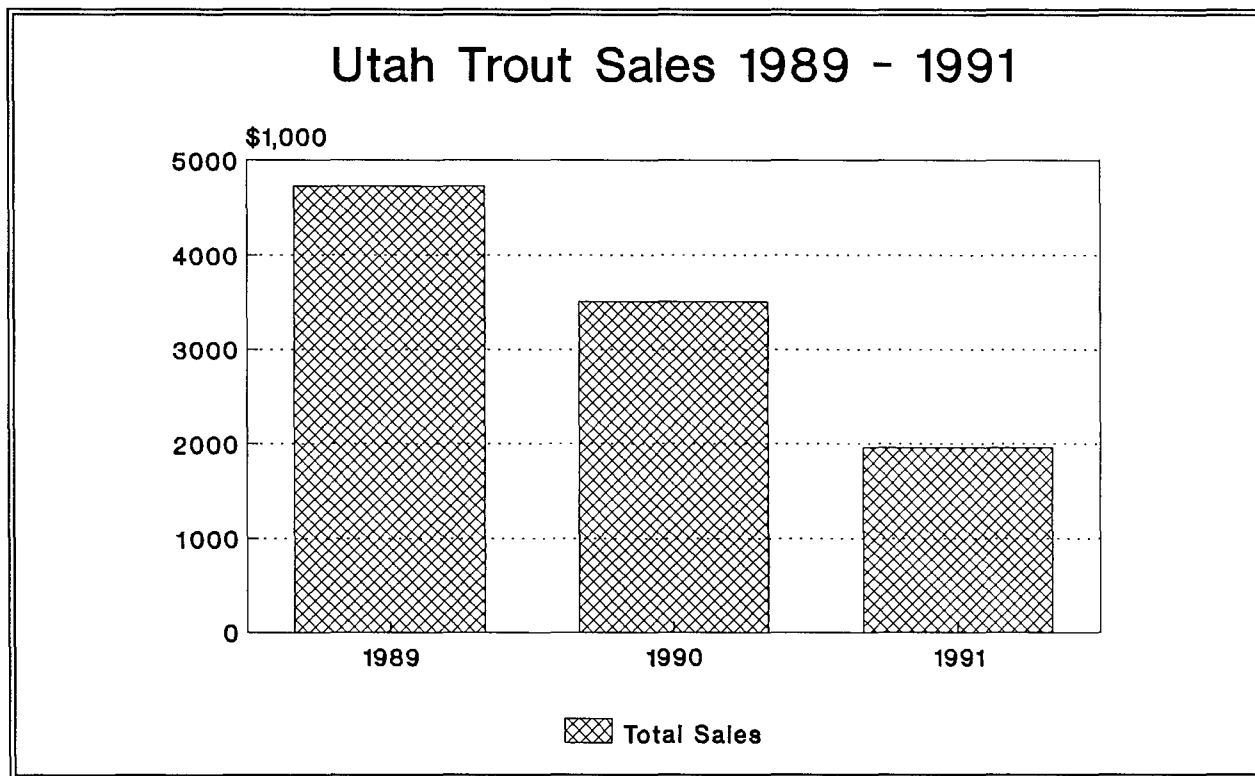
# Trout

Trout sales from September 1, 1990 to August 31, 1991 total 1.96 million dollars, down 44 percent from the same period last year. The number of private fish hatcheries with trout decreased from 8 on September 1, 1990 to 7 on September 1, 1991.

**All Trout: Number of operations and Total Sales 1989-91. Foodsize Trout Sales: Number of head, Pounds Sold, Total Value, and Value per Pound, 1989-90**

| Year | Number of Operations | Total Sales 1/   | Foodsize Sales 2/ |             |                |                 |
|------|----------------------|------------------|-------------------|-------------|----------------|-----------------|
|      | September 1          | Sep. 1 - Aug. 31 | Number of Head    | Pounds sold | Value of sales | Value per Pound |
|      | Number               | \$ 1,000         | --- Thousands --- |             | \$ 1,000       | Dollars         |
| 1989 | 10                   | 4,731            | 4,101             | 3,332       | 4,617          | 1.39            |
| 1990 | 8                    | 3,512            | 3,391             | 2,643       | 3,478          | 1.32            |
| 1991 | 7                    | 1,959            | 3/                | 3/          | 3/             | 3/              |

1/ Total value of sales for 1989 does not include value of fingerling sales. 2/ Foodsize fish are defined as 12" or longer. 3/ Data not published to avoid disclosure of individual operation.



# Farm Labor

Agriculture labor surveys in Utah are conducted quarterly; (January, April, July, and October), and each survey collects labor information for a one week period. Estimates for these four survey weeks are available, but monthly or annual estimates are not available. Separate estimates for the State of Utah are not available. Utah is included in the Mountain II region, (Colorado, Nevada, and Utah).

The number of farm workers in the Mountain II region during the July 1991 through April 1992 quarterly survey periods peaked in July 1991 at 71,000 workers, 2,000 fewer than in July 1990. The number of self-employed, unpaid, and hired workers also peaked in July at 33,000, -- 17,000 and 21,000 workers respectively.

Wage rates were generally higher during the January survey period when the average rate for all hired workers was \$6.20 per hour. Workers paid on an hourly basis earned their highest wages in April when the average rate was \$5.52 per hour. Livestock workers received the highest wage rates of any non-supervisor workers during the July and January survey periods, while field workers received the highest non-supervisor wage during the October and April survey periods.

## FARM LABOR & WAGE RATES: Mountain II Region, July 1991, October 1991, January 1992, and April 1992 1/ 2/

|                                  | July<br>7-13, 1991 | October<br>6-12, 1991 | January<br>12-18, 1992 | April<br>12-18, 1992 |
|----------------------------------|--------------------|-----------------------|------------------------|----------------------|
| Workers on Farms (000)           |                    |                       |                        |                      |
| Total .....                      | 71.0               | 57.0                  | 50.0                   | 56.0                 |
| Self Employed .....              | 33.0               | 28.0                  | 28.0                   | 28.0                 |
| Unpaid .....                     | 17.0               | 8.0                   | 6.0                    | 8.0                  |
| Hired .....                      | 21.0               | 21.0                  | 16.0                   | 20.0                 |
| Hours Worked per Worker          |                    |                       |                        |                      |
| Self Employed .....              | 48.2               | 38.3                  | 30.1                   | 38.7                 |
| Unpaid Workers .....             | 37.7               | 34.0                  | 30.9                   | 42.3                 |
| Hired Workers .....              | 42.3               | 45.4                  | 41.3                   | 36.9                 |
| Method of Pay - Dollars per Hour |                    |                       |                        |                      |
| Hourly .....                     | 5.01               | 5.17                  | 5.17                   | 5.52                 |
| Piece Rate .....                 | <u>3/</u>          | <u>3/</u>             | <u>3/</u>              | <u>3/</u>            |
| Other .....                      | 6.05               | 5.39                  | 6.88                   | 6.02                 |
| All .....                        | 5.49               | 5.53                  | 6.20                   | 5.72                 |
| Type of Work - Dollars per Hour  |                    |                       |                        |                      |
| Field Workers .....              | 5.09               | 5.44                  | 5.55                   | 5.62                 |
| Livestock Workers .....          | 5.41               | 4.72                  | 5.57                   | 5.11                 |
| Field & Livestock Workers .....  | 5.22               | 5.19                  | 5.57                   | 5.40                 |
| Supervisory .....                | <u>3/</u>          | 7.08                  | 8.85                   | <u>3/</u>            |
| Other .....                      | <u>3/</u>          | <u>3/</u>             | <u>3/</u>              | <u>3/</u>            |

1/ Mountain II Region includes Colorado, Nevada., and Utah. 2/ Excludes Agricultural Service Workers. 3/ Insufficient data.



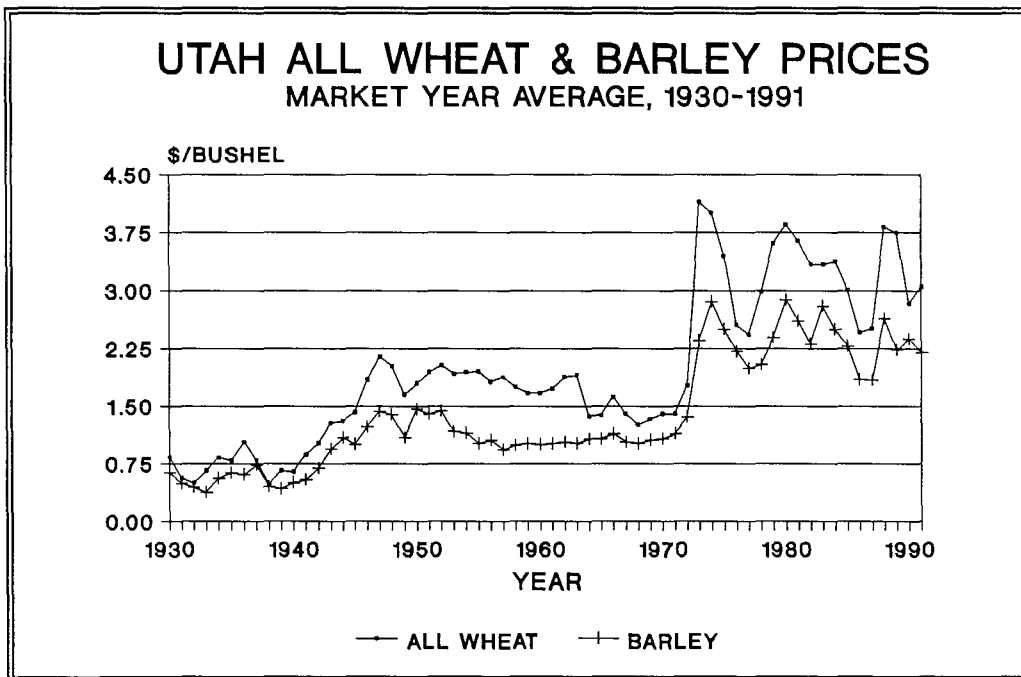
# Agricultural Prices

The National Agricultural Statistics Service (also known as the Utah Agricultural Statistics Service at the state level) estimates the prices that farmers and ranchers receive for their commodities and the prices that they pay for production goods and services. These prices and associated price indexes are an important barometer of agricultural markets, the economic well-being of farmers, and changes in production costs. NASS also issues monthly parity prices. Price and parity data figure importantly in formulas set by law that determines support prices and government payments to farmers.

Most prices after 1979 are based on actual sales by producers of a commodity during the entire month. Preliminary sales prices are obtained from the current month, based on sales around the 15th of the month. This "mid-month" price is revised the following month when sales data for the entire month become available. Livestock prices prior to 1980, and crop prices prior to 1977, are mid-month prices. Yearly average prices for each commodity are weighted based on the volume of sales of each commodity during a given month.

The 1991 market year average price for calves was a new high for the State of Utah. Steer and heifer prices continued at or above the 1990 record high then tailed off towards the end of the year to average \$72.60 per cwt for the year. Other cattle prices remained at previous year levels through August to average below 1990. Sheep and lamb prices continued at the 1990 levels but sharply below the previous six years. Hay prices were down sharply. Milk prices were at or below previous year.

Prices for many Utah agricultural commodities are published only on an annual basis. This is either because Utah produces a very small portion of the national total, or because price data is only collected on an annual basis. These annual average prices can be found in individual commodity tables within this publication.



## AVERAGE PRICES RECEIVED: by Farmers, Utah, Selected Years

| Year  | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   | Mktg<br>Year<br>Average<br><u>1/</u> |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------------------|
| BARLEY (Dollars per Bushel) <u>2/</u>                             |       |       |       |       |       |       |       |       |       |       |       |       |                                      |
| 1950  | 1.09  | 1.07  | 1.13  | 1.08  | 1.08  | 1.11  | 1.18  | 1.12  | 1.14  | 1.11  | 1.11  | 1.18  | 1.16                                 |
| 1960  | 1.02  | 1.00  | 1.00  | 1.00  | 1.00  | 1.02  | .98   | .98   | .98   | 1.00  | 1.00  | 1.01  | 1.00                                 |
| 1970  | 1.10  | 1.10  | 1.09  | 1.04  | 1.03  | 1.05  | 1.01  | .98   | .99   | 1.04  | 1.07  | 1.12  | 1.07                                 |
| 1980  | 2.49  | 2.51  | 2.64  | 2.58  | 2.50  | 2.46  | 2.53  | 2.56  | 2.67  | 2.89  | 2.93  | 2.92  | 2.88                                 |
| 1985  | 2.52  | 2.61  | 2.65  | 2.64  | 2.51  | 2.43  | 2.39  | 2.15  | 2.11  | 2.20  | 2.29  | 2.44  | 2.28                                 |
| 1986  | 2.33  | 2.26  | 2.39  | 2.39  | 2.46  | 2.24  | 1.92  | 1.79  | 1.80  | 1.87  | 1.86  | 1.83  | 1.85                                 |
| 1987  | 1.91  | 1.88  | 1.82  | 1.83  | 1.93  | 1.78  | 1.75  | 1.74  | 1.79  | 1.83  | 1.88  | 1.93  | 1.84                                 |
| 1988  | 1.93  | 2.05  | 1.92  | 1.90  | 2.05  | 1.98  | 2.46  | 2.58  | 2.68  | 2.72  | 2.89  | 2.65  | 2.64                                 |
| 1989  | 2.70  | 2.72  | 2.76  | 2.59  | 2.55  | 2.57  | 2.20  | 2.12  | 2.11  | 2.18  | 2.29  | 2.36  | 2.23                                 |
| 1990  | 2.30  | 2.35  | 2.38  | 2.40  | 2.46  | 2.45  | 2.28  | 2.29  | 2.33  | 2.49  | 2.47  | 2.35  | 2.40                                 |
| 1991  | 2.46  | 2.54  | 2.47  | 2.46  | 2.50  | 2.50  | 2.14  | 2.11  | 2.16  | 2.19  | 2.33  | 2.35  | 2.20                                 |
| ALFALFA & ALFALFA HAY MIXTURES, BALED (Dollars per Ton) <u>3/</u> |       |       |       |       |       |       |       |       |       |       |       |       |                                      |
| 1950  | 21.60 | 20.00 | 18.30 | 18.30 | 18.80 | 20.00 | 22.00 | 22.50 | 22.50 | 22.90 | 22.90 | 24.00 | NA                                   |
| 1960  | 27.00 | 27.50 | 26.50 | 26.50 | 26.70 | 26.70 | 26.40 | 26.40 | 27.00 | 27.00 | 28.00 | 28.50 | NA                                   |
| 1970  | 25.50 | 26.00 | 26.00 | 25.50 | 25.50 | 25.50 | 24.00 | 24.00 | 24.50 | 24.50 | 25.50 | 25.50 | NA                                   |
| 1980  | 65.00 | 73.00 | 71.00 | 69.00 | 60.50 | 71.50 | 73.50 | 69.50 | 70.00 | 75.00 | 74.00 | 76.00 | NA                                   |
| 1985  | 75.00 | 75.00 | 72.00 | 72.00 | 74.00 | 76.00 | 75.00 | 64.00 | 71.00 | 67.00 | 69.00 | 75.00 | NA                                   |
| 1986  | 71.00 | 78.00 | 70.00 | 76.00 | 73.00 | 71.00 | 66.00 | 64.00 | 62.00 | 61.00 | 65.00 | 63.00 | NA                                   |
| 1987  | 66.00 | 67.00 | 66.00 | 63.00 | 59.00 | 69.00 | 71.00 | 66.00 | 72.00 | 69.00 | 70.00 | 70.00 | NA                                   |
| 1988  | 74.00 | 74.00 | 75.00 | 74.00 | 74.00 | 75.00 | 75.00 | 76.00 | 77.00 | 79.00 | 77.00 | 77.00 | NA                                   |
| 1989  | 84.00 | 86.00 | 87.00 | 85.00 | 83.00 | 79.00 | 87.00 | 86.00 | 85.00 | 85.00 | 85.00 | 85.00 | 85.00                                |
| 1990  | 85.00 | 85.00 | 86.00 | 86.00 | 85.00 | 86.00 | 86.00 | 85.00 | 80.00 | 85.00 | 86.00 | 84.00 | 83.00                                |
| 1991  | 84.00 | 74.00 | 69.00 | 69.00 | 68.00 | 68.00 | 65.00 | 63.00 | 64.00 | 59.00 | 56.00 | 58.00 | 62.00                                |
| ALL HAY, BALED (Dollars per Ton) <u>3/</u>                        |       |       |       |       |       |       |       |       |       |       |       |       |                                      |
| 1950  | 21.10 | 19.20 | 17.50 | 17.50 | 18.30 | 19.00 | 21.00 | 21.50 | 21.50 | 22.50 | 22.50 | 23.50 | 22.20                                |
| 1960  | 26.20 | 26.80 | 25.70 | 25.70 | 25.70 | 26.00 | 25.50 | 25.60 | 26.40 | 26.50 | 27.40 | 27.80 | 26.40                                |
| 1970  | 25.00 | 25.50 | 25.50 | 25.00 | 25.00 | 25.00 | 23.50 | 23.40 | 23.80 | 23.90 | 24.90 | 24.90 | 25.00                                |
| 1980  | 63.50 | 62.00 | 63.00 | 65.00 | 60.00 | 69.50 | 71.50 | 67.50 | 67.00 | 73.00 | 72.00 | 72.00 | 70.00                                |
| 1985  | 68.00 | 68.00 | 67.00 | 65.00 | 68.00 | 68.00 | 70.00 | 60.00 | 67.00 | 63.00 | 64.00 | 71.00 | 67.00                                |
| 1986  | 67.00 | 72.00 | 67.00 | 70.00 | 66.00 | 67.00 | 63.00 | 61.00 | 59.00 | 59.00 | 61.00 | 60.00 | 62.50                                |
| 1987  | 63.00 | 64.00 | 63.00 | 60.00 | 56.00 | 65.00 | 66.00 | 63.00 | 68.00 | 64.00 | 66.00 | 67.00 | 67.00                                |
| 1988  | 71.00 | 70.00 | 71.00 | 71.00 | 71.00 | 72.00 | 72.00 | 73.00 | 75.00 | 77.00 | 75.00 | 75.00 | 76.00                                |
| 1989  | 81.00 | 83.00 | 85.00 | 83.00 | 82.00 | 76.00 | 84.00 | 83.00 | 83.00 | 83.00 | 83.00 | 83.00 | 82.50                                |
| 1990  | 83.00 | 83.00 | 83.00 | 83.00 | 84.00 | 84.00 | 84.00 | 83.00 | 79.00 | 83.00 | 83.00 | 82.00 | 81.50                                |
| 1991  | 82.00 | 72.00 | 67.00 | 67.00 | 66.00 | 66.00 | 62.00 | 60.00 | 61.00 | 56.00 | 53.00 | 55.00 | 59.00                                |

1/ Marketing year, barley, July 1 to June 30; hay, May 1 to April 30. 2/ Average price relates to mid-month average through 1976. Starting in 1977, it represents an average for the entire month. 3/ Mid-month average price. NA = Not available.

## AVERAGE PRICES RECEIVED: by Farmers, Utah, Selected Years

| Year   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   | Mktg<br>Year<br>Aver |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
| COWS (Dollars per Cwt) <sup>1/</sup>             |       |       |       |       |       |       |       |       |       |       |       |       |                      |
| 1960   | 14.00 | 14.70 | 16.00 | 15.70 | 16.00 | 14.60 | 13.10 | 13.30 | 13.50 | 13.10 | 12.90 | 13.70 | 14.10                |
| 1970   | 20.00 | 21.50 | 22.50 | 21.80 | 21.30 | 20.90 | 20.70 | 20.10 | 19.90 | 18.40 | 17.70 | 18.10 | 20.20                |
| 1980   | 44.10 | 46.10 | 44.90 | 43.60 | 40.00 | 41.60 | 42.10 | 43.80 | 44.80 | 45.30 | 42.20 | 40.90 | 43.30                |
| 1985   | 36.70 | 38.00 | 37.90 | 38.30 | 36.60 | 34.70 | 33.50 | 34.40 | 32.50 | 31.80 | 30.60 | 31.20 | 34.30                |
| 1986   | 32.70 | 34.30 | 35.60 | 31.20 | 33.60 | 34.60 | 33.90 | 34.80 | 35.10 | 34.80 | 32.90 | 34.00 | 34.00                |
| 1987   | 38.20 | 41.30 | 42.80 | 42.50 | 43.30 | 42.90 | 42.70 | 43.70 | 44.10 | 43.20 | 41.00 | 43.70 | 42.40                |
| 1988   | 45.20 | 47.30 | 47.50 | 48.00 | 48.00 | 44.60 | 45.30 | 45.80 | 44.80 | 42.40 | 40.60 | 40.70 | 44.70                |
| 1989   | 43.50 | 46.20 | 45.90 | 45.10 | 45.20 | 45.70 | 46.20 | 47.10 | 48.20 | 44.20 | 43.40 | 44.50 | 45.30                |
| 1990   | 46.20 | 51.30 | 52.70 | 52.90 | 53.70 | 55.00 | 54.20 | 53.50 | 51.40 | 49.00 | 45.00 | 47.30 | 50.90                |
| 1991   | 45.80 | 50.30 | 52.60 | 52.70 | 52.80 | 52.70 | 50.20 | 49.20 | 48.00 | 45.80 | 42.70 | 46.90 | 48.80                |
| STEERS & HEIFERS (Dollars per Cwt) <sup>1/</sup> |       |       |       |       |       |       |       |       |       |       |       |       |                      |
| 1960   | 20.50 | 21.10 | 22.30 | 22.40 | 22.70 | 21.30 | 20.60 | 19.70 | 19.70 | 18.80 | 18.80 | 20.30 | 20.60                |
| 1970   | 27.50 | 28.70 | 31.50 | 28.80 | 29.00 | 29.00 | 28.50 | 26.80 | 26.90 | 26.70 | 26.90 | 25.80 | 27.90                |
| 1980   | 70.10 | 70.60 | 68.10 | 62.60 | 61.70 | 63.00 | 65.20 | 65.30 | 64.70 | 64.90 | 63.70 | 62.70 | 65.20                |
| 1985   | 61.30 | 61.70 | 57.50 | 56.70 | 56.30 | 55.50 | 50.80 | 49.80 | 50.20 | 56.20 | 59.60 | 57.90 | 56.00                |
| 1986   | 56.00 | 53.90 | 54.10 | 52.10 | 52.50 | 51.00 | 55.50 | 57.20 | 56.50 | 56.00 | 58.00 | 58.40 | 55.20                |
| 1987   | 57.70 | 60.90 | 62.00 | 64.90 | 66.80 | 66.50 | 63.50 | 64.10 | 64.30 | 63.80 | 64.00 | 63.80 | 63.50                |
| 1988   | 64.20 | 66.90 | 68.70 | 70.70 | 70.70 | 67.30 | 64.70 | 67.00 | 67.60 | 70.60 | 68.20 | 69.40 | 68.40                |
| 1989   | 74.10 | 74.00 | 74.40 | 72.90 | 71.50 | 70.00 | 72.50 | 71.90 | 69.20 | 71.40 | 72.70 | 74.90 | 72.30                |
| 1990   | 76.40 | 76.50 | 77.00 | 78.60 | 77.20 | 76.50 | 74.50 | 74.80 | 74.00 | 76.90 | 78.10 | 79.20 | 76.80                |
| 1991   | 78.00 | 77.90 | 79.30 | 78.80 | 76.20 | 73.20 | 70.40 | 65.50 | 66.60 | 68.70 | 69.80 | 70.50 | 72.60                |
| BEEF CATTLE (Dollars per Cwt) <sup>1/</sup>      |       |       |       |       |       |       |       |       |       |       |       |       |                      |
| 1960   | 18.10 | 18.90 | 20.40 | 20.30 | 20.50 | 18.70 | 17.50 | 17.20 | 17.50 | 17.20 | 16.90 | 18.00 | 18.40                |
| 1970   | 25.20 | 26.30 | 28.70 | 26.70 | 26.70 | 26.70 | 25.90 | 24.60 | 24.70 | 24.40 | 24.60 | 23.70 | 25.60                |
| 1980   | 64.10 | 65.00 | 63.20 | 58.60 | 57.10 | 59.40 | 60.10 | 60.80 | 60.50 | 60.80 | 57.50 | 55.90 | 60.30                |
| 1985   | 58.40 | 58.90 | 55.60 | 55.30 | 54.20 | 53.30 | 49.70 | 48.60 | 48.70 | 54.40 | 55.50 | 53.80 | 53.90                |
| 1986   | 52.70 | 51.90 | 52.50 | 51.00 | 49.70 | 49.60 | 54.40 | 55.90 | 54.90 | 54.00 | 55.00 | 54.60 | 53.30                |
| 1987   | 55.80 | 59.50 | 60.90 | 63.30 | 64.20 | 64.70 | 62.30 | 62.80 | 62.40 | 62.10 | 61.50 | 61.80 | 61.80                |
| 1988   | 62.70 | 65.10 | 66.50 | 69.30 | 69.40 | 65.30 | 63.50 | 65.50 | 66.40 | 68.60 | 64.70 | 66.30 | 66.50                |
| 1989   | 66.70 | 67.70 | 67.60 | 67.20 | 65.60 | 65.00 | 66.30 | 67.50 | 66.70 | 65.40 | 66.70 | 70.90 | 67.00                |
| 1990   | 71.40 | 73.40 | 74.80 | 76.10 | 73.10 | 71.40 | 72.40 | 72.30 | 71.10 | 75.00 | 74.00 | 76.40 | 73.80                |
| 1991   | 76.00 | 76.70 | 78.00 | 76.80 | 74.80 | 71.90 | 69.70 | 64.80 | 66.00 | 67.60 | 67.60 | 69.10 | 71.30                |

<sup>1/</sup> Mid-month average price through 1979. Prices after 1979 are revised full month prices.

**AVERAGE PRICES RECEIVED: by Farmers, Utah, Selected Years**

| Year   | Jan   | Feb   | Mar    | Apr    | May    | Jun    | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   | Mktg<br>Year<br>Aver |
|--|-------|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|----------------------|
| CALVES (Dollars per Cwt) <u>1/</u>               |       |       |        |        |        |        |       |       |       |       |       |       |                      |
| 1960   | 24.00 | 25.00 | 25.20  | 25.80  | 26.00  | 23.50  | 22.00 | 20.50 | 21.30 | 22.50 | 22.30 | 23.50 | 23.40                |
| 1970   | 35.00 | 37.20 | 38.00  | 34.50  | 34.40  | 34.90  | 33.00 | 31.00 | 31.70 | 33.00 | 32.60 | 33.30 | 34.20                |
| 1980   | 82.00 | 85.50 | 83.30  | 72.60  | 72.20  | 77.20  | 77.70 | 75.10 | 72.70 | 75.70 | 71.50 | 73.20 | 75.50                |
| 1985   | 63.50 | 68.00 | 67.10  | 64.20  | 63.90  | 62.50  | 58.20 | 57.30 | 56.70 | 61.00 | 61.20 | 59.50 | 61.90                |
| 1986   | 62.00 | 65.20 | 64.00  | 56.20  | 54.10  | 54.80  | 55.60 | 59.40 | 61.00 | 62.70 | 63.00 | 63.90 | 62.10                |
| 1987   | 66.50 | 70.50 | 72.60  | 74.60  | 74.40  | 72.50  | 77.20 | 80.00 | 85.70 | 84.80 | 81.80 | 84.00 | 79.40                |
| 1988   | 85.80 | 89.00 | 92.50  | 89.90  | 92.10  | 84.60  | 79.10 | 86.00 | 93.40 | 95.80 | 86.50 | 86.20 | 91.50                |
| 1989   | 90.20 | 93.50 | 96.60  | 87.40  | 83.40  | 84.50  | 90.10 | 96.50 | 91.80 | 85.80 | 87.70 | 90.20 | 89.40                |
| 1990   | 90.10 | 95.00 | 93.20  | 96.30  | 93.80  | 98.50  | 97.90 | 99.50 | 97.70 | 91.70 | 91.20 | 92.10 | 93.90                |
| 1991   | 95.60 | 98.60 | 102.00 | 104.00 | 102.00 | 105.00 | 96.40 | 96.80 | 94.00 | 92.80 | 91.80 | 88.80 | 95.80                |
| MILK COWS (Dollars per Head) <u>2/</u> <u>3/</u> |       |       |        |        |        |        |       |       |       |       |       |       |                      |
| 1960   | 220   | 220   | 220    | 225    | 225    | 235    | 225   | 225   | 215   | 205   | 205   | 215   | 220                  |
| 1970   | 320   | 320   | 330    | 330    | 330    | 330    | 325   | 315   | 310   | 320   | 340   | 320   | 324                  |
| 1980   | 1160  | 1190  | 1220   | 1220   | 1200   | 1200   | 1190  | 1210  | 1210  | 1220  | 1220  | 1220  | 1210                 |
| 1985   | 840   | --    | --     | 870    | --     | --     | 830   | --    | --    | 800   | --    | --    | 835                  |
| 1986   | 780   | --    | --     | 770    | --     | --     | 780   | --    | --    | 800   | --    | --    | 785                  |
| 1987   | 810   | --    | --     | 900    | --     | --     | 900   | --    | --    | 980   | --    | --    | 900                  |
| 1988   | 980   | --    | --     | 1050   | --     | --     | 1030  | --    | --    | 1000  | --    | --    | 1020                 |
| 1989   | 970   | --    | --     | 1040   | --     | --     | 1060  | --    | --    | 1060  | --    | --    | 1030                 |
| 1990   | 1070  | --    | --     | 1140   | --     | --     | 1190  | --    | --    | 1250  | --    | --    | 1160                 |
| 1991   | 1040  | --    | --     | 1090   | --     | --     | 1100  | --    | --    | 1070  | --    | --    | 1080                 |

1/ Mid-month average price through 1979. Prices after 1979 are revised full month prices.

2/ Mid-month average price.

3/ Published only by quarters starting 1982.

## AVERAGE PRICES RECEIVED: by Farmers, Utah, Selected Years

| Year  | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   | Mktg<br>Year<br>Average |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------------|
| MILK, ALL (Dollars per Cwt) <u>1/</u>                                 |       |       |       |       |       |       |       |       |       |       |       |       |                         |
| 1950 .  | 4.00  | 3.90  | 3.65  | 3.50  | 3.30  | 3.30  | 3.35  | 3.60  | 3.75  | 4.00  | 4.15  | 4.15  | 3.69                    |
| 1960 .  | 4.25  | 4.15  | 4.05  | 3.95  | 3.85  | 3.80  | 3.80  | 3.95  | 4.20  | 4.25  | 4.35  | 4.40  | 4.07                    |
| 1970 .  | 5.70  | 5.55  | 5.40  | 5.45  | 5.35  | 5.20  | 5.20  | 5.30  | 5.55  | 5.65  | 5.80  | 5.80  | 5.48                    |
| 1980 .  | 12.40 | 12.30 | 12.30 | 12.20 | 12.10 | 12.20 | 12.00 | 12.10 | 12.70 | 13.00 | 13.30 | 13.50 | 12.50                   |
| 1985 .  | 13.50 | 13.20 | 13.00 | 12.50 | 12.00 | 11.30 | 11.10 | 11.20 | 11.60 | 11.90 | 12.10 | 12.30 | 12.00                   |
| 1986 .  | 12.10 | 11.80 | 11.40 | 11.60 | 11.30 | 11.20 | 11.10 | 11.40 | 12.00 | 12.60 | 12.80 | 12.70 | 11.80                   |
| 1987 .  | 12.70 | 12.30 | 12.00 | 11.70 | 11.40 | 11.40 | 11.40 | 11.70 | 12.10 | 12.00 | 12.20 | 12.30 | 11.90                   |
| 1988 .  | 12.10 | 11.80 | 11.50 | 11.20 | 10.80 | 10.50 | 10.80 | 11.20 | 11.90 | 12.40 | 12.60 | 13.00 | 11.60                   |
| 1989 .  | 12.70 | 12.40 | 11.80 | 11.40 | 11.30 | 11.40 | 11.60 | 12.30 | 13.20 | 13.70 | 14.50 | 15.00 | 12.60                   |
| 1990 .  | 14.90 | 13.80 | 13.10 | 12.60 | 12.70 | 13.00 | 13.20 | 13.50 | 13.40 | 12.00 | 11.80 | 10.90 | 12.90                   |
| 1991 .  | 11.00 | 10.80 | 10.60 | 10.40 | 10.50 | 10.60 | 11.10 | 11.60 | 12.20 | 12.70 | 13.10 | 13.00 | 11.50                   |
| MILK, ELIGIBLE FOR FLUID MARKET (Dollars per Cwt) <u>1/</u> <u>2/</u> |       |       |       |       |       |       |       |       |       |       |       |       |                         |
| 1950 .  | 4.90  | 4.85  | 4.55  | 4.25  | 4.15  | 4.15  | 4.20  | 4.60  | 4.80  | 5.05  | 5.15  | 5.20  | 4.64                    |
| 1960 .  | 4.75  | 4.70  | 4.60  | 4.50  | 4.35  | 4.30  | 4.30  | 4.45  | 4.70  | 4.75  | 4.85  | 4.85  | 4.59                    |
| 1970 .  | 6.10  | 5.90  | 5.75  | 5.90  | 5.75  | 5.60  | 5.60  | 5.70  | 5.95  | 6.05  | 6.25  | 6.25  | 5.90                    |
| 1980 .  | 12.70 | 12.50 | 12.50 | 12.40 | 12.30 | 12.40 | 12.20 | 12.40 | 12.90 | 13.30 | 13.60 | 13.90 | 12.70                   |
| 1985 .  | 13.90 | 13.60 | 13.30 | 12.80 | 12.20 | 11.50 | 11.30 | 11.40 | 11.70 | 12.00 | 12.20 | 12.40 | 12.20                   |
| 1986 .  | 12.20 | 11.90 | 11.60 | 11.80 | 11.50 | 11.30 | 11.30 | 11.60 | 12.20 | 12.80 | 13.00 | 12.90 | 12.00                   |
| 1987 .  | 12.90 | 12.50 | 12.20 | 11.90 | 11.60 | 11.60 | 11.60 | 11.90 | 12.50 | 12.30 | 12.40 | 12.50 | 12.10                   |
| 1988 .  | 12.40 | 12.10 | 11.70 | 11.50 | 11.00 | 10.70 | 11.00 | 11.40 | 12.00 | 12.50 | 12.80 | 13.20 | 11.80                   |
| 1989 .  | 12.90 | 12.70 | 12.10 | 11.60 | 11.50 | 11.60 | 11.80 | 12.50 | 13.30 | 13.90 | 14.70 | 15.20 | 12.80                   |
| 1990 .  | 15.30 | 14.40 | 13.50 | 12.80 | 12.90 | 13.20 | 13.40 | 13.80 | 13.70 | 12.50 | 12.10 | 11.10 | 13.20                   |
| 1991 .  | 11.20 | 11.00 | 10.70 | 10.50 | 10.60 | 10.70 | 11.20 | 11.70 | 12.30 | 12.80 | 13.20 | 13.20 | 11.60                   |
| MILK, MANUFACTURING GRADE (Dollars per Cwt) <u>1/</u>                 |       |       |       |       |       |       |       |       |       |       |       |       |                         |
| 1950 .  | 3.25  | 3.15  | 3.00  | 2.90  | 2.75  | 2.75  | 2.75  | 2.85  | 2.90  | 3.05  | 3.15  | 3.25  | 2.95                    |
| 1960 .  | 3.25  | 3.15  | 3.05  | 3.00  | 2.95  | 2.90  | 2.85  | 2.95  | 3.10  | 3.20  | 3.25  | 3.35  | 3.07                    |
| 1970 .  | 4.70  | 4.65  | 4.60  | 4.50  | 4.45  | 4.40  | 4.35  | 4.40  | 4.55  | 4.65  | 4.75  | 4.80  | 4.56                    |
| 1980 .  | 11.80 | 11.70 | 11.70 | 11.70 | 11.60 | 11.70 | 11.40 | 11.50 | 12.20 | 12.40 | 12.50 | 12.60 | 11.90                   |
| 1985 .  | 12.50 | 12.20 | 12.10 | 11.60 | 11.30 | 10.70 | 10.70 | 10.80 | 11.30 | 11.50 | 11.70 | 11.80 | 11.50                   |
| 1986 .  | 11.60 | 11.30 | 10.90 | 10.80 | 10.60 | 10.70 | 10.50 | 10.70 | 11.00 | 11.50 | 11.80 | 12.00 | 11.10                   |
| 1987 .  | 11.70 | 11.10 | 10.90 | 10.80 | 10.50 | 10.50 | 10.50 | 10.70 | 10.70 | 11.00 | 11.10 | 11.30 | 10.90                   |
| 1988 .  | 11.00 | 10.60 | 10.50 | 10.20 | 10.10 | 9.90  | 10.00 | 10.70 | 11.40 | 11.90 | 11.90 | 12.10 | 10.90                   |
| 1989 .  | 11.70 | 11.00 | 10.60 | 10.40 | 10.30 | 10.60 | 11.00 | 11.70 | 12.60 | 13.10 | 13.70 | 14.00 | 11.70                   |
| 1990 .  | 13.20 | 11.50 | 11.60 | 11.50 | 11.80 | 12.10 | 12.20 | 12.30 | 12.10 | 10.30 | 10.30 | 10.00 | 11.60                   |
| 1991 .  | 10.00 | 9.75  | 9.70  | 9.55  | 9.75  | 9.85  | 10.60 | 11.10 | 11.60 | 12.10 | 12.40 | 11.90 | 10.70                   |

1/ Average for the month.

2/ Includes surplus diverted to manufacturing.

## AVERAGE PRICES RECEIVED, by Farmers, Utah, Selected Years

| Year                               | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct       | Nov   | Dec   | Mktg<br>Year<br>Aver |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|-------|-------|----------------------|
| SHEEP (Dollars per Cwt) <u>1/</u>  |       |       |       |       |       |       |       |       |       |           |       |       |                      |
| 1950                               | 8.60  | 8.60  | 9.30  | 9.50  | 9.00  | 8.50  | 9.00  | 9.00  | 11.00 | 11.50     | 12.00 | 12.50 | 10.60                |
| 1960                               | 6.50  | 7.00  | 7.00  | 7.00  | 6.50  | 6.50  | 5.50  | 5.00  | 4.50  | 4.80      | 4.50  | 5.00  | 5.30                 |
| 1970                               | 7.60  | 7.60  | 7.70  | 8.20  | 7.50  | 8.30  | 8.50  | 8.00  | 7.50  | 6.50      | 6.00  | 6.00  | 7.10                 |
| 1980                               | 17.80 | 16.40 | 21.90 | 16.90 | 14.60 | 15.50 | 16.60 | 16.30 | 15.90 | 14.90     | 15.10 | 14.40 | 16.50                |
| 1985                               | 21.00 | 19.30 | 19.90 | 25.10 | 17.20 | 16.00 | 16.70 | 19.10 | 22.40 | 16.30     | 16.60 | 21.90 | 18.50                |
| 1986                               | 23.60 | 28.30 | 27.00 | 20.50 | 16.50 | 17.00 | 19.90 | 21.50 | 24.10 | 17.40     | 21.10 | 26.10 | 21.30                |
| 1987                               | 23.30 | 22.40 | 24.50 | 20.40 | 17.50 | 18.80 | 17.90 | 21.70 | 24.10 | 21.20     | 20.80 | 22.80 | 21.40                |
| 1988                               | 28.00 | 24.70 | 24.80 | 19.00 | 17.40 | 18.50 | 20.70 | 19.70 | 17.00 | 19.20     | 19.80 | 25.30 | 20.00                |
| 1989                               | 30.20 | 35.00 | 27.40 | 17.80 | 13.50 | 15.40 | 16.30 | 19.90 | 15.90 | 15.70     | 20.30 | 27.80 | 19.20                |
| 1990                               | 27.10 | 22.00 | 19.40 | 16.50 | 13.50 | 15.40 | 22.40 | 22.40 | 18.30 | 17.50     | 16.30 | 19.90 | 18.70                |
| 1991                               | 21.70 | 19.30 | 21.40 | 22.80 | 16.90 | 17.30 | 22.60 | 20.50 | 22.80 | 19.30     | 21.60 | 23.10 | 20.40                |
| LAMBS (Dollars per Cwt) <u>1/</u>  |       |       |       |       |       |       |       |       |       |           |       |       |                      |
| 1950                               | 21.30 | 22.00 | 22.40 | 23.00 | 23.30 | 24.00 | 24.00 | 24.00 | 25.50 | 25.50     | 26.70 | 27.00 | 24.90                |
| 1960                               | 17.80 | 18.30 | 20.00 | 20.00 | 20.00 | 19.50 | 17.80 | 16.70 | 16.10 | 15.20     | 15.20 | 16.20 | 17.00                |
| 1970                               | 28.00 | 27.50 | 27.00 | 26.00 | 25.50 | 26.00 | 26.00 | 26.20 | 25.80 | 25.00     | 23.30 | 21.50 | 25.40                |
| 1980                               | 63.20 | 59.10 | 60.70 | 55.00 | 51.60 | 63.10 | 64.10 | 63.00 | 66.20 | 66.60     | 56.80 | 53.80 | 61.60                |
| 1985                               | 59.00 | 61.00 | 63.30 | 59.50 | 57.50 | 66.00 | 67.50 | 66.90 | 69.30 | 66.40     | 58.70 | 55.60 | 65.70                |
| 1986                               | 62.90 | 66.30 | 63.40 | 64.00 | 69.50 | 69.40 | 66.20 | 66.00 | 65.00 | 63.80     | 68.30 | 70.50 | 65.30                |
| 1987                               | 72.30 | 70.30 | 75.10 | 71.20 | 75.70 | 76.80 | 74.80 | 72.30 | 72.10 | 69.50     | 68.80 | 69.10 | 71.60                |
| 1988                               | 81.00 | 77.80 | 64.30 | 61.90 | 67.00 | 58.10 | 55.40 | 54.30 | 58.50 | 61.80     | 62.30 | 63.30 | 61.50                |
| 1989                               | 62.00 | 60.20 | 64.70 | 59.60 | 64.30 | 65.50 | 63.00 | 62.80 | 62.70 | 57.40     | 53.30 | 55.00 | 60.50                |
| 1990                               | 53.00 | 52.70 | 55.90 | 51.30 | 46.60 | 47.30 | 48.80 | 46.00 | 49.40 | 47.40     | 41.20 | 44.20 | 48.50                |
| 1991                               | 41.20 | 39.80 | 40.90 | 42.30 | 45.10 | 45.50 | 48.00 | 45.60 | 42.40 | 42.70     | 40.30 | 43.80 | 43.20                |
| WOOL (Dollars per Pound) <u>2/</u> |       |       |       |       |       |       |       |       |       |           |       |       |                      |
| 1950                               | .51   | .51   | .54   | .54   | .54   | .57   | .59   | .61   | .63   | .66       | .72   | .80   | .58                  |
| 1960                               | .44   | .47   | .42   | .44   | .44   | .44   | .39   | .40   | .36   | .35       | .37   | .37   | .39                  |
| 1970                               | .40   | .35   | .36   | .36   | .34   | .37   | .36   | .33   | .35   | .32       | .29   | .26   | .32                  |
| 1980                               | --    | .84   | .98   | .90   | .80   | .83   | .87   | .98   | .98   | .93       | .94   | .96   | .90                  |
| 1985                               | .59   | .60   | .59   | .61   | .62   | .61   | .62   | .57   | .59   | .53       | .61   | .59   | .61                  |
| 1986                               | .47   | .62   | .59   | .66   | .66   | .68   | .68   | .66   | .67   | .64       | .67   | .67   | .66                  |
| 1987                               | .41   | .66   | .78   | .93   | .98   | .95   | .94   | .91   | .88   | .71       | .61   | .94   | .93                  |
| 1988                               | .99   | 1.20  | 1.40  | 1.40  | 1.38  | 1.34  | 1.37  | 1.42  | 1.31  | <u>3/</u> | .99   | 1.12  | 1.36                 |
| 1989                               | .87   | 1.21  | 1.24  | 1.31  | 1.34  | 1.30  | 1.32  | 1.30  | 1.30  | 1.56      | .69   | .67   | 1.30                 |
| 1990                               | .64   | .45   | .64   | .76   | .77   | .69   | .81   | .79   | .64   | .63       | .66   | .51   | .72                  |
| 1991                               | .39   | .35   | .44   | .47   | .53   | .56   | .50   | .55   | .49   | .57       | .48   | .49   | .51                  |

1/ Mid-month average price through 1979. Prices after 1979 are revised full month prices.

2/ Average for the month.

3/ Insufficient sales.

## County Estimates

County estimates are an integral part of agricultural statistics. These estimates provide data to compare acres, production, and yield in different counties within the State of Utah. Crop county estimates play a major role in Federal Farm Program payments and crop insurance settlements; thus, directly effecting many farmers and ranchers. A cooperative agreement between the Utah State Department of Agriculture and the Utah Agricultural Statistics Service, USDA provides funding in support of county estimates contained in this publication.

Box Elder was the "Number one" county in total grain production (wheat, barley, oats, and corn) followed by Cache, Utah, Millard and Weber counties. Box Elder was also "number one" in acres of grain planted followed by Cache, Utah, Millard, and San Juan counties.

Box Elder County was the State's largest producer of winter wheat producing more than twice as much as San Juan county, which ranked second followed by Utah, Cache, Salt Lake, and Millard counties.

Spring wheat production was also dominated by Box Elder County followed by Cache, Millard, Utah, and Davis counties.

Barley production was lead by Box Elder county followed closely by Cache County. These two counties along with Utah and Millard produced 67 percent of the barley in the State.

Box Elder was the "Number one" producer of oats in the State followed by Duchesne, Cache, Utah, and Uintah counties.

Corn for grain production was lead by Box Elder followed by Utah, Millard and Davis counties. Utah led in production of corn silage followed closely by Box Elder and Cache counties.

Alfalfa hay production was led by Millard County followed by Cache, Iron, and Box Elder Counties. Rich was the leading county in other hay production followed by Duchesne, Sanpete, Utah, Cache, and Summit.

Box Elder County had the largest inventory of cattle and calves as of January 1, 1992 followed by Cache, Millard, and Duchesne. Cache county continues as the major county for milk cows with over twice the number as Utah which ranked in second place. Box Elder, Weber, and Sanpete were also major dairy counties.

Sanpete was once again the "Number one" sheep county with nearly twice as many sheep as the next leading county, Iron. Other major sheep producing counties were Utah, Box Elder, and Summit.

Preliminary indications of 1990 total cash receipts show Cache County as the "Number one" county. Sanpete is second, followed by Utah, and Box Elder. Cache was the leading county for livestock cash receipts followed by Sanpete. Crops cash receipts were topped by Box Elder County and followed closely by Utah County.

## COUNTY ESTIMATES: by County, Selected Items & Years, Utah

| Item                              | Unit    | State of Utah | County  |           |           |         |         |         |
|-----------------------------------|---------|---------------|---------|-----------|-----------|---------|---------|---------|
|                                   |         |               | Beaver  | Box Elder | Cache     | Carbon  | Daggett | Davis   |
| <u>1991 Production</u>            |         |               |         |           |           |         |         |         |
| All Wheat . . . . .               | Bu      | 5,807,000     | 1/      | 2,472,600 | 780,700   | 1/      | 1/      | 233,800 |
| All Barley . . . . .              | Bu      | 7,885,000     | 56,500  | 1,620,000 | 1,613,000 | 1/      | 1/      | 145,000 |
| Corn for Grain . . . . .          | Bu      | 2,940,000     | 10,500  | 1,003,000 | 68,500    | 2/      | 2/      | 375,500 |
| Corn for Silage . . . . .         | Tons    | 924,000       | 28,000  | 156,000   | 133,000   | 5,500   | 2/      | 58,000  |
| Oats . . . . .                    | Bu      | 616,000       | 16,500  | 67,000    | 57,000    | 9,500   | 1/      | 8,000   |
| All Hay . . . . .                 | Tons    | 2,275,000     | 118,600 | 179,300   | 197,500   | 17,600  | 12,000  | 35,800  |
| Alfalfa & Alfalfa Mix Hay . . . . | Tons    | 1,960,000     | 105,800 | 163,000   | 180,200   | 16,500  | 5,500   | 30,000  |
| <u>Jan. 1, 1992 Inventory</u>     |         |               |         |           |           |         |         |         |
| All Cattle & Calves . . . . .     | Head    | 800,000       | 34,000  | 77,000    | 71,000    | 9,000   | 3,000   | 18,000  |
| Beef Cows . . . . .               | Head    | 324,000       | 10,400  | 27,000    | 6,500     | 6,200   | 2,200   | 6,900   |
| Milk Cows . . . . .               | Head    | 76,000        | 2,800   | 8,000     | 21,000    | 5/      | 5/      | 1,600   |
| Stock Sheep & Lambs . . . . .     | Head    | 460,000       | 600     | 38,900    | 5,700     | 7,500   | 700     | 11,300  |
| <u>Cash Receipts, 1990</u>        |         |               |         |           |           |         |         |         |
| Livestock & Livestock Products    | Mill \$ | 576.1         | 17.1    | 47.3      | 78.6      | 4.3     | 1.7     | 12.4    |
| Crops . . . . .                   | Mill \$ | 178.7         | 3.9     | 26.4      | 13.4      | 0.6     | 0.2     | 22.4    |
| Total . . . . .                   | Mill \$ | 754.8         | 21.0    | 73.7      | 92.0      | 4.9     | 1.9     | 34.8    |
| <u>1987 Census of Agriculture</u> |         |               |         |           |           |         |         |         |
| Number of Farms . . . . .         | Num     | 14,066        | 226     | 1,088     | 1,223     | 210     | 36      | 647     |
| Land in Farms . . . . .           | Acres   | 9,989,073     | 187,041 | 1,584,194 | 324,105   | 223,549 | 25,120  | 63,244  |
| Harvested Cropland 3/ . . . . .   | Acres   | 1,076,886     | 29,118  | 170,579   | 113,433   | 5,760   | 5,905   | 20,783  |
| Irrigated Land 4/ . . . . .       | Acres   | 1,161,207     | 34,959  | 106,686   | 83,771    | 9,051   | 8,237   | 24,539  |

| Item                              | Unit    | County   |         |          |         |         |         |         |
|-----------------------------------|---------|----------|---------|----------|---------|---------|---------|---------|
|                                   |         | Duchesne | Emery   | Garfield | Grand   | Iron    | Juab    | Kane    |
| <u>1991 Production</u>            |         |          |         |          |         |         |         |         |
| All Wheat . . . . .               | Bu      | 58,300   | 20,200  | 1/       | 1/      | 19,900  | 122,000 | 1/      |
| All Barley . . . . .              | Bu      | 205,000  | 43,000  | 1/       | 1/      | 168,000 | 168,000 | 1/      |
| Corn for Grain . . . . .          | Bu      | 115,000  | 34,000  | 2/       | 2/      | 10,500  | 10,000  | 2/      |
| Corn for Silage . . . . .         | Tons    | 17,000   | 6,200   | 2/       | 2/      | 16,000  | 7,500   | 2/      |
| Oats . . . . .                    | Bu      | 58,000   | 35,000  | 17,500   | 1/      | 19,000  | 7,500   | 7,000   |
| All Hay . . . . .                 | Tons    | 141,600  | 44,700  | 34,500   | 8,700   | 174,300 | 46,700  | 11,800  |
| Alfalfa & Alfalfa Mix Hay . . . . | Tons    | 110,000  | 40,500  | 29,000   | 7,500   | 164,000 | 42,000  | 9,500   |
| <u>Jan. 1, 1992 Inventory</u>     |         |          |         |          |         |         |         |         |
| All Cattle & Calves . . . . .     | Head    | 55,000   | 26,000  | 19,000   | 4,000   | 18,000  | 13,000  | 10,000  |
| Beef Cows . . . . .               | Head    | 28,100   | 12,500  | 12,200   | 2,600   | 9,100   | 7,100   | 5,700   |
| Milk Cows . . . . .               | Head    | 2,700    | 700     | 5/       | 5/      | 800     | 5/      | 5/      |
| Stock Sheep & Lambs . . . . .     | Head    | 13,600   | 8,100   | 3,600    | 900     | 49,900  | 4,500   | 1,500   |
| <u>Cash Receipts, 1990</u>        |         |          |         |          |         |         |         |         |
| Livestock & Livestock Products    | Mill \$ | 26.0     | 10.6    | 7.7      | 2.1     | 12.1    | 5.3     | 4.0     |
| Crops . . . . .                   | Mill \$ | 4.4      | 2.0     | 1.2      | 0.6     | 9.7     | 2.9     | 0.4     |
| Total . . . . .                   | Mill \$ | 30.4     | 12.6    | 8.9      | 2.7     | 21.8    | 8.2     | 4.4     |
| <u>1987 Census of Agriculture</u> |         |          |         |          |         |         |         |         |
| Number of Farms . . . . .         | Num     | 753      | 446     | 263      | 81      | 380     | 215     | 152     |
| Land in Farms . . . . .           | Acres   | 366,471  | 215,761 | 138,559  | 169,325 | 438,118 | 273,876 | 207,495 |
| Harvested Cropland 3/ . . . . .   | Acres   | 48,646   | 20,409  | 13,180   | 3,012   | 48,183  | 30,413  | 3,038   |
| Irrigated Land 4/ . . . . .       | Acres   | 97,174   | 38,935  | 22,852   | 4,397   | 61,710  | 22,609  | 7,742   |

1/ Less than 500 acres planted. 2/ Less than 500 acres of corn planted for all purposes. 3/ Includes land from which crops were harvested or hay was cut, and land in orchards. 4/ Includes all land watered by any artificial or controlled means, such as sprinklers, furrows or ditches, and spreader dikes. 5/ Not published to avoid disclosure.



**COUNTY ESTIMATES: by County, Selected Items & Years, Utah**

| Item                              | Unit    | County    |         |        |         |           |          |         |         |
|-----------------------------------|---------|-----------|---------|--------|---------|-----------|----------|---------|---------|
|                                   |         | Millard   | Morgan  | Piute  | Rich    | Salt Lake | San Juan | Sanpete | Sevier  |
| <b>1991 Production</b>            |         |           |         |        |         |           |          |         |         |
| All Wheat                         | Bu      | 435,200   | 48,600  | 1/     | 54,900  | 226,500   | 324,100  | 75,000  | 34,000  |
| All Barley                        | Bu      | 1,000,000 | 106,000 | 1/     | 77,000  | 133,000   | 1/       | 384,000 | 308,000 |
| Corn for Grain                    | Bu      | 409,000   | 2/      | 2/     | 2/      | 43,000    | 2/       | 0       | 53,000  |
| Corn for Silage                   | Tons    | 38,000    | 2/      | 2/     | 2/      | 15,500    | 2/       | 26,000  | 90,500  |
| Oats                              | Bu      | 24,500    | 7,500   | 9,000  | 8,000   | 23,000    | 21,000   | 38,500  | 9,000   |
| All Hay                           | Tons    | 283,400   | 30,300  | 33,700 | 86,000  | 40,500    | 12,300   | 143,000 | 111,000 |
| Alfalfa & Alfalfa Mix Hay         | Tons    | 271,600   | 25,000  | 27,000 | 31,000  | 36,000    | 10,500   | 119,000 | 102,000 |
| <b>Jan. 1, 1992 Inventory</b>     |         |           |         |        |         |           |          |         |         |
| All Cattle & Calves               | Head    | 55,000    | 9,000   | 9,000  | 47,000  | 13,000    | 19,000   | 45,000  | 45,000  |
| Beef Cows                         | Head    | 19,400    | 2,800   | 4,700  | 28,300  | 4,300     | 12,000   | 15,500  | 12,600  |
| Milk Cows                         | Head    | 2,400     | 1,600   | 1,400  | 5/      | 1,800     | 5/       | 5,800   | 3,200   |
| Stock Sheep & Lambs               | Head    | 5,000     | 15,200  | 4,800  | 14,600  | 24,500    | 2,300    | 85,000  | 10,700  |
| <b>Cash Receipts, 1990</b>        |         |           |         |        |         |           |          |         |         |
| Livestock & Lvst Products         | Mill \$ | 27.8      | 11.5    | 7.0    | 17.1    | 23.1      | 8.1      | 75.7    | 24.1    |
| Crops                             | Mill \$ | 21.5      | 1.3     | 1.0    | 1.7     | 9.0       | 1.6      | 4.7     | 4.2     |
| Total                             | Mill \$ | 49.3      | 12.8    | 8.0    | 18.8    | 32.1      | 9.7      | 80.4    | 28.3    |
| <b>1987 Census of Agriculture</b> |         |           |         |        |         |           |          |         |         |
| Number of Farms                   | Num     | 630       | 261     | 126    | 166     | 734       | 218      | 761     | 476     |
| Land in Farms                     | Acres   | 480,195   | 283,105 | 56,310 | 514,768 | 155,398   | 340,449  | 447,526 | 161,495 |
| Harvested Cropland 3/             | Acres   | 98,835    | 12,508  | 12,482 | 51,443  | 19,726    | 51,655   | 53,623  | 32,946  |
| Irrigated Land 4/                 | Acres   | 93,419    | 10,369  | 17,710 | 53,998  | 16,030    | 8,544    | 110,744 | 43,475  |

| Item                              | Unit    | County  |         |           |           |         |            |         |         |
|-----------------------------------|---------|---------|---------|-----------|-----------|---------|------------|---------|---------|
|                                   |         | Summit  | Tooele  | Uintah    | Utah      | Wasatch | Washington | Wayne   | Weber   |
| <b>1991 Production</b>            |         |         |         |           |           |         |            |         |         |
| All Wheat                         | Bu      | 1/      | 85,900  | 35,400    | 462,800   | 1/      | 14,900     | 1/      | 232,000 |
| All Barley                        | Bu      | 46,000  | 119,000 | 92,500    | 1,044,000 | 48,700  | 100,000    | 98,000  | 250,000 |
| Corn for Grain                    | Bu      | 2/      | 2/      | 81,000    | 542,000   | 2/      | 2/         | 2/      | 175,000 |
| Corn for Silage                   | Tons    | 2/      | 2/      | 28,000    | 170,000   | 2/      | 2/         | 2/      | 98,500  |
| Oats                              | Bu      | 7,000   | 6,500   | 42,000    | 51,500    | 10,000  | 7,500      | 8,500   | 28,000  |
| All Hay                           | Tons    | 41,200  | 46,900  | 103,500   | 136,000   | 31,500  | 42,300     | 39,600  | 70,700  |
| Alfalfa & Alfalfa Mix Hay         | Tons    | 21,600  | 41,800  | 92,500    | 117,000   | 26,000  | 38,000     | 35,500  | 62,000  |
| <b>Jan. 1, 1992 Inventory</b>     |         |         |         |           |           |         |            |         |         |
| All Cattle & Calves               | Head    | 17,000  | 18,000  | 41,000    | 53,000    | 10,000  | 16,000     | 19,000  | 26,000  |
| Beef Cows                         | Head    | 8,600   | 12,800  | 23,700    | 17,400    | 3,400   | 8,400      | 10,200  | 5,000   |
| Milk Cows                         | Head    | 1,700   | 5/      | 1,900     | 8,400     | 2,400   | 500        | 700     | 5,800   |
| Stock Sheep & Lambs               | Head    | 38,700  | 10,900  | 21,000    | 43,800    | 16,200  | 600        | 11,000  | 8,900   |
| <b>Cash Receipts, 1990</b>        |         |         |         |           |           |         |            |         |         |
| Livestock & Lvst Products         | Mill \$ | 15.6    | 8.7     | 20.2      | 56.5      | 9.9     | 7.6        | 8.6     | 25.4    |
| Crops                             | Mill \$ | .9      | 2.9     | 3.9       | 22.5      | 1.3     | 6.0        | 1.5     | 6.6     |
| Total                             | Mill \$ | 16.5    | 11.6    | 24.1      | 79.0      | 11.2    | 13.6       | 10.1    | 32.0    |
| <b>1987 Census of Agriculture</b> |         |         |         |           |           |         |            |         |         |
| Number of Farms                   | Num     | 439     | 299     | 693       | 1,723     | 298     | 414        | 217     | 891     |
| Land in Farms                     | Acres   | 348,827 | 487,427 | 1,318,672 | 493,902   | 159,854 | 178,169    | 101,622 | 199,496 |
| Harvested Cropland 3/             | Acres   | 20,451  | 19,563  | 39,616    | 87,089    | 11,809  | 9,641      | 14,801  | 28,239  |
| Irrigated Land 4/                 | Acres   | 29,429  | 18,972  | 75,958    | 78,659    | 16,955  | 14,467     | 18,293  | 31,523  |

1/ Less than 500 acres planted. 2/ Less than 500 acres of corn planted for all purposes. 3/ Includes land from which crops were harvested or hay was cut, and land in orchards. 4/ Includes all land watered by any artificial or controlled means, such as sprinklers, furrows or ditches, and spreader dikes. 5/ Not published to avoid disclosure of individual operations.

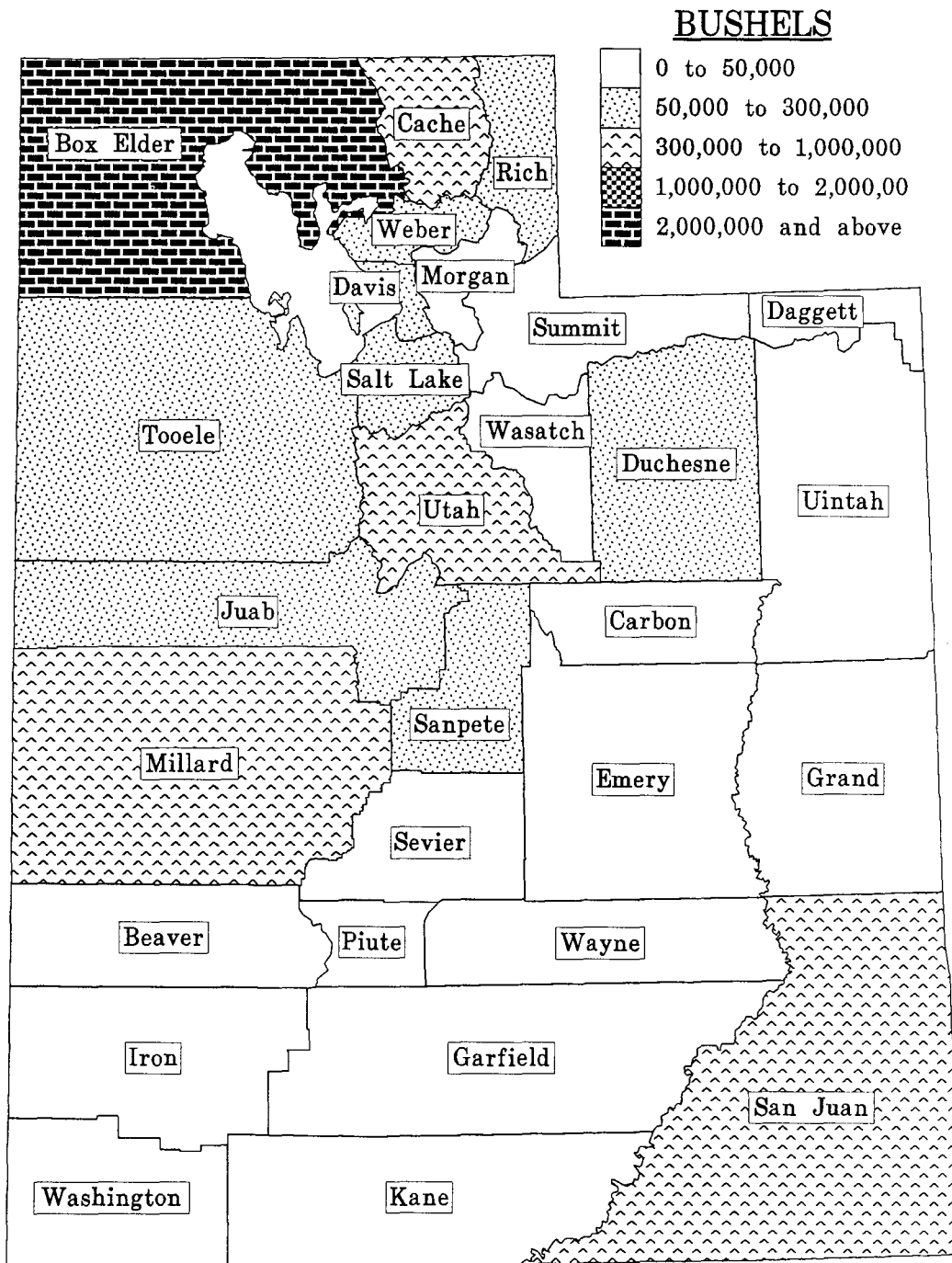
**COUNTY ESTIMATES: All Wheat,  
All Cropping Practices, Utah, 1991**

| District<br>and<br>County | Acres Planted     | Acres<br>Harvested<br>for Grain | Yield per<br>Harvested<br>Acre | Production       |
|---------------------------|-------------------|---------------------------------|--------------------------------|------------------|
|                           | ----- Acres ----- |                                 | ----- Bushels -----            |                  |
| <b>NORTHERN</b>           |                   |                                 |                                |                  |
| Box Elder . . . . .       | 60,700            | 58,400                          | 42.3                           | 2,472,600        |
| Cache . . . . .           | 19,400            | 18,000                          | 43.4                           | 780,700          |
| Davis . . . . .           | 3,100             | 2,900                           | 80.6                           | 233,800          |
| Morgan . . . . .          | 900               | 800                             | 60.8                           | 48,600           |
| Rich . . . . .            | 1,700             | 1,700                           | 32.3                           | 54,900           |
| Salt Lake . . . . .       | 10,200            | 9,400                           | 24.1                           | 226,500          |
| Tooele . . . . .          | 2,700             | 2,400                           | 35.8                           | 85,900           |
| Weber . . . . .           | 3,300             | 2,900                           | 80.0                           | 232,000          |
| Total . . . . .           | 102,000           | 96,500                          | 42.9                           | 4,135,000        |
| <b>CENTRAL</b>            |                   |                                 |                                |                  |
| Juab . . . . .            | 4,800             | 4,600                           | 26.5                           | 122,000          |
| Millard . . . . .         | 8,500             | 7,800                           | 55.8                           | 435,200          |
| Sanpete . . . . .         | 1,200             | 1,100                           | 68.2                           | 75,000           |
| Sevier . . . . .          | 600               | 500                             | 68.0                           | 34,000           |
| Utah . . . . .            | 16,900            | 15,800                          | 29.3                           | 462,800          |
| Total . . . . .           | 32,000            | 29,800                          | 37.9                           | 1,129,000        |
| <b>EASTERN</b>            |                   |                                 |                                |                  |
| Carbon . . . . .          | *                 | *                               | *                              | *                |
| Daggett . . . . .         | *                 | *                               | *                              | *                |
| Duchesne . . . . .        | 1,200             | 1,000                           | 58.3                           | 58,300           |
| Emery . . . . .           | 600               | 400                             | 50.5                           | 20,200           |
| Grand . . . . .           | *                 | *                               | *                              | *                |
| San Juan . . . . .        | 25,600            | 22,400                          | 14.5                           | 324,100          |
| Summit . . . . .          | *                 | *                               | *                              | *                |
| Uintah . . . . .          | 1,000             | 800                             | 44.3                           | 35,400           |
| Wasatch . . . . .         | *                 | *                               | *                              | *                |
| Other . . . . .           | 600               | 600                             | 65.0                           | 39,000           |
| Total . . . . .           | 29,000            | 25,200                          | 18.9                           | 477,000          |
| <b>SOUTHERN</b>           |                   |                                 |                                |                  |
| Beaver . . . . .          | *                 | *                               | *                              | *                |
| Garfield . . . . .        | *                 | *                               | *                              | *                |
| Iron . . . . .            | 500               | 400                             | 49.8                           | 19,900           |
| Kane . . . . .            | *                 | *                               | *                              | *                |
| Piute . . . . .           | *                 | *                               | *                              | *                |
| Washington . . . . .      | 600               | 500                             | 29.8                           | 14,900           |
| Wayne . . . . .           | *                 | *                               | *                              | *                |
| Other . . . . .           | 900               | 600                             | 52.0                           | 31,200           |
| Total . . . . .           | 2,000             | 1,500                           | 44.0                           | 66,000           |
| <b>STATE . . . . .</b>    | <b>165,000</b>    | <b>153,000</b>                  | <b>38.0</b>                    | <b>5,807,000</b> |

\* Less than 500 planted acres, combined with other counties.

# UTAH ALL WHEAT PRODUCTION

## By Counties, 1991



**COUNTY ESTIMATES: All Wheat,  
by Cropping Practice, Utah, 1991**

| District<br>and<br>County | Irrigated         |               |                         |                  | Non-Irrigated     |                |                         |                  |
|---------------------------|-------------------|---------------|-------------------------|------------------|-------------------|----------------|-------------------------|------------------|
|                           | Acreage           |               | Harv-<br>ested<br>Yield | Production       | Acreage           |                | Harv-<br>ested<br>Yield | Production       |
|                           | Planted           | Harvested     |                         |                  | Planted           | Harvested      |                         |                  |
|                           | ----- Acres ----- |               | ----- Bushels -----     |                  | ----- Acres ----- |                | ----- Bushels -----     |                  |
| <b>NORTHERN</b>           |                   |               |                         |                  |                   |                |                         |                  |
| Box Elder . . .           | 18,200            | 18,000        | 89.8                    | 1,615,700        | 42,500            | 40,400         | 21.2                    | 856,900          |
| Cache . . . . .           | 5,900             | 5,800         | 72.8                    | 422,400          | 13,500            | 12,200         | 29.4                    | 358,300          |
| Davis . . . . .           | 2,600             | 2,500         | 90.8                    | 226,900          | 500               | 400            | 17.3                    | 6,900            |
| Morgan . . . . .          | 500               | 500           | 82.0                    | 41,000           | 400               | 300            | 25.3                    | 7,600            |
| Rich . . . . .            | 300               | 300           | 79.0                    | 23,700           | 1,400             | 1,400          | 22.3                    | 31,200           |
| Salt Lake . . .           | 700               | 700           | 78.3                    | 54,800           | 9,500             | 8,700          | 19.7                    | 171,700          |
| Tooele . . . . .          | 1,000             | 900           | 61.7                    | 55,500           | 1,700             | 1,500          | 20.3                    | 30,400           |
| Weber . . . . .           | 2,800             | 2,400         | 91.7                    | 220,000          | 500               | 500            | 24.0                    | 12,000           |
| Total . . . . .           | 32,000            | 31,100        | 85.5                    | 2,660,000        | 70,000            | 65,400         | 22.6                    | 1,475,000        |
| <b>CENTRAL</b>            |                   |               |                         |                  |                   |                |                         |                  |
| Juab . . . . .            | 1,100             | 1,000         | 56.0                    | 56,000           | 3,700             | 3,600          | 18.3                    | 66,000           |
| Millard . . . . .         | 5,200             | 5,100         | 74.5                    | 380,000          | 3,300             | 2,700          | 20.4                    | 55,200           |
| Sanpete . . . . .         | 1,100             | 1,100         | 68.2                    | 75,000           | 100               | 0              | 0.0                     | 0                |
| Sevier . . . . .          | 600               | 500           | 68.0                    | 34,000           | 0                 | 0              | 0.0                     | 0                |
| Utah . . . . .            | 3,500             | 3,500         | 82.0                    | 287,000          | 13,400            | 12,300         | 14.3                    | 175,800          |
| Total . . . . .           | 11,500            | 11,200        | 74.3                    | 832,000          | 20,500            | 18,600         | 16.0                    | 297,000          |
| <b>EASTERN</b>            |                   |               |                         |                  |                   |                |                         |                  |
| Carbon . . . . .          | *                 | *             | *                       | *                | *                 | *              | *                       | *                |
| Daggett . . . . .         | *                 | *             | *                       | *                | *                 | *              | *                       | *                |
| Duchesne . . . . .        | 700               | 600           | 81.7                    | 49,000           | 500               | 400            | 23.3                    | 9,300            |
| Emery . . . . .           | 500               | 300           | 60.0                    | 18,000           | 100               | 100            | 22.0                    | 2,200            |
| Grand . . . . .           | *                 | *             | *                       | *                | *                 | *              | *                       | *                |
| San Juan . . . . .        | 500               | 500           | 68.0                    | 34,000           | 25,100            | 21,900         | 13.2                    | 290,100          |
| Summit . . . . .          | *                 | *             | *                       | *                | *                 | *              | *                       | *                |
| Uintah . . . . .          | 500               | 400           | 67.5                    | 27,000           | 500               | 400            | 21.0                    | 8,400            |
| Wasatch . . . . .         | *                 | *             | *                       | *                | *                 | *              | *                       | *                |
| Other . . . . .           | 600               | 600           | 65.0                    | 39,000           | 0                 | 0              | 0.0                     | 0                |
| Total . . . . .           | 2,800             | 2,400         | 69.6                    | 167,000          | 26,200            | 22,800         | 13.6                    | 310,000          |
| <b>SOUTHERN</b>           |                   |               |                         |                  |                   |                |                         |                  |
| Beaver . . . . .          | *                 | *             | *                       | *                | *                 | *              | *                       | *                |
| Garfield . . . . .        | *                 | *             | *                       | *                | *                 | *              | *                       | *                |
| Iron . . . . .            | 200               | 200           | 72.5                    | 14,500           | 300               | 200            | 27.0                    | 5,400            |
| Kane . . . . .            | *                 | *             | *                       | *                | *                 | *              | *                       | *                |
| Piute . . . . .           | *                 | *             | *                       | *                | *                 | *              | *                       | *                |
| Washington . . . . .      | 100               | 100           | 70.0                    | 7,000            | 500               | 400            | 19.8                    | 7,900            |
| Wayne . . . . .           | *                 | *             | *                       | *                | *                 | *              | *                       | *                |
| Other . . . . .           | 400               | 400           | 66.3                    | 26,500           | 500               | 200            | 23.5                    | 4,700            |
| Total . . . . .           | 700               | 700           | 68.6                    | 48,000           | 1,300             | 800            | 22.5                    | 18,000           |
| <b>STATE . . . . .</b>    | <b>47,000</b>     | <b>45,400</b> | <b>81.7</b>             | <b>3,707,000</b> | <b>118,000</b>    | <b>107,600</b> | <b>19.5</b>             | <b>2,100,000</b> |

\* Less than 500 acres planted for all cropping practices, combined with other counties.

**COUNTY ESTIMATES: Winter Wheat,  
All Cropping Practices, Utah, 1991**

| District and County    | Acres Planted     | Acres Harvested for Grain | Yield per Harvested Acre | Production |
|------------------------|-------------------|---------------------------|--------------------------|------------|
|                        | ----- Acres ----- |                           | ----- Bushels -----      |            |
| <b>NORTHERN</b>        |                   |                           |                          |            |
| Box Elder . . . . .    | 54,700            | 52,600                    | 42.1                     | 2,211,900  |
| Cache . . . . .        | 14,900            | 13,700                    | 42.3                     | 579,200    |
| Davis . . . . .        | 2,100             | 2,000                     | 78.7                     | 157,300    |
| Morgan . . . . .       | 500               | 400                       | 70.0                     | 28,000     |
| Rich . . . . .         | 1,400             | 1,400                     | 30.1                     | 42,100     |
| Salt Lake . . . . .    | 9,000             | 8,300                     | 23.0                     | 190,500    |
| Tooele . . . . .       | 2,300             | 2,100                     | 33.3                     | 70,000     |
| Weber . . . . .        | 2,100             | 2,000                     | 88.0                     | 176,000    |
| Total . . . . .        | 87,000            | 82,500                    | 41.9                     | 3,455,000  |
| <b>CENTRAL</b>         |                   |                           |                          |            |
| Juab . . . . .         | 4,000             | 3,900                     | 25.5                     | 99,600     |
| Millard . . . . .      | 6,000             | 5,500                     | 52.9                     | 291,000    |
| Sanpete . . . . .      | 600               | 500                       | 70.0                     | 35,000     |
| Sevier . . . . .       | 400               | 300                       | 70.0                     | 21,000     |
| Utah . . . . .         | 15,000            | 14,000                    | 26.5                     | 370,400    |
| Total . . . . .        | 26,000            | 24,200                    | 33.8                     | 817,000    |
| <b>EASTERN</b>         |                   |                           |                          |            |
| Carbon . . . . .       | *                 | *                         | *                        | *          |
| Daggett . . . . .      | *                 | *                         | *                        | *          |
| Duchesne . . . . .     | 300               | 200                       | 42.5                     | 8,500      |
| Emery . . . . .        | 400               | 300                       | 60.0                     | 18,000     |
| Grand . . . . .        | *                 | *                         | *                        | *          |
| San Juan . . . . .     | 24,200            | 21,200                    | 14.3                     | 302,500    |
| Summit . . . . .       | *                 | *                         | *                        | *          |
| Uintah . . . . .       | 300               | 200                       | 67.5                     | 13,500     |
| Wasatch . . . . .      | *                 | *                         | *                        | *          |
| Other . . . . .        | 300               | 300                       | 58.3                     | 17,500     |
| Total . . . . .        | 25,500            | 22,200                    | 16.2                     | 360,000    |
| <b>SOUTHERN</b>        |                   |                           |                          |            |
| Beaver . . . . .       | *                 | *                         | *                        | *          |
| Garfield . . . . .     | *                 | *                         | *                        | *          |
| Iron . . . . .         | 400               | 300                       | 44.7                     | 13,400     |
| Kane . . . . .         | *                 | *                         | *                        | *          |
| Piute . . . . .        | *                 | *                         | *                        | *          |
| Washington . . . . .   | 500               | 400                       | 31.0                     | 12,400     |
| Wayne . . . . .        | *                 | *                         | *                        | *          |
| Other . . . . .        | 600               | 400                       | 55.5                     | 22,200     |
| Total . . . . .        | 1,500             | 1,100                     | 43.6                     | 48,000     |
| <b>STATE</b> . . . . . | 140,000           | 130,000                   | 36.0                     | 4,680,000  |

\* Less than 500 planted acres of all wheat, combined with other counties.

**COUNTY ESTIMATES: Spring Wheat,  
All Cropping Practices, Utah, 1991**

| District and County    | Acres Planted     | Acres Harvested for Grain | Yield per Harvested Acre | Production       |
|------------------------|-------------------|---------------------------|--------------------------|------------------|
|                        | ----- Acres ----- |                           | ----- Bushels -----      |                  |
| <b>NORTHERN</b>        |                   |                           |                          |                  |
| Box Elder . . . . .    | 6,000             | 5,800                     | 44.9                     | 260,700          |
| Cache . . . . .        | 4,500             | 4,300                     | 46.9                     | 201,500          |
| Davis . . . . .        | 1,000             | 900                       | 85.0                     | 76,500           |
| Morgan . . . . .       | 400               | 400                       | 51.5                     | 20,600           |
| Rich . . . . .         | 300               | 300                       | 42.7                     | 12,800           |
| Salt Lake . . . . .    | 1,200             | 1,100                     | 32.7                     | 36,000           |
| Tooele . . . . .       | 400               | 300                       | 53.0                     | 15,900           |
| Weber . . . . .        | 1,200             | 900                       | 62.2                     | 56,000           |
| Total . . . . .        | 15,000            | 14,000                    | 48.6                     | 680,000          |
| <b>CENTRAL</b>         |                   |                           |                          |                  |
| Juab . . . . .         | 800               | 700                       | 32.0                     | 22,400           |
| Millard . . . . .      | 2,500             | 2,300                     | 62.7                     | 144,200          |
| Sanpete . . . . .      | 600               | 600                       | 66.7                     | 40,000           |
| Sevier . . . . .       | 200               | 200                       | 65.0                     | 13,000           |
| Utah . . . . .         | 1,900             | 1,800                     | 51.3                     | 92,400           |
| Total . . . . .        | 6,000             | 5,600                     | 55.7                     | 312,000          |
| <b>EASTERN</b>         |                   |                           |                          |                  |
| Carbon . . . . .       | *                 | *                         | *                        | *                |
| Daggett . . . . .      | *                 | *                         | *                        | *                |
| Duchesne . . . . .     | 900               | 800                       | 62.3                     | 49,800           |
| Emery . . . . .        | 200               | 100                       | 22.0                     | 2,200            |
| Grand . . . . .        | *                 | *                         | *                        | *                |
| San Juan . . . . .     | 1,400             | 1,200                     | 18.0                     | 21,600           |
| Summit . . . . .       | *                 | *                         | *                        | *                |
| Uintah . . . . .       | 700               | 600                       | 36.5                     | 21,900           |
| Wasatch . . . . .      | *                 | *                         | *                        | *                |
| Other . . . . .        | 300               | 300                       | 71.7                     | 21,500           |
| Total . . . . .        | 3,500             | 3,000                     | 39.0                     | 117,000          |
| <b>SOUTHERN</b>        |                   |                           |                          |                  |
| Beaver . . . . .       | *                 | *                         | *                        | *                |
| Garfield . . . . .     | *                 | *                         | *                        | *                |
| Iron . . . . .         | 100               | 100                       | 65.0                     | 6,500            |
| Kane . . . . .         | *                 | *                         | *                        | *                |
| Piute . . . . .        | *                 | *                         | *                        | *                |
| Washington . . . . .   | 100               | 100                       | 25.0                     | 2,500            |
| Wayne . . . . .        | *                 | *                         | *                        | *                |
| Other . . . . .        | 300               | 200                       | 45.0                     | 9,000            |
| Total . . . . .        | 500               | 400                       | 45.0                     | 18,000           |
| <b>STATE . . . . .</b> | <b>25,000</b>     | <b>23,000</b>             | <b>49.0</b>              | <b>1,127,000</b> |

\* Less than 500 planted acres of all wheat, combined with other counties.

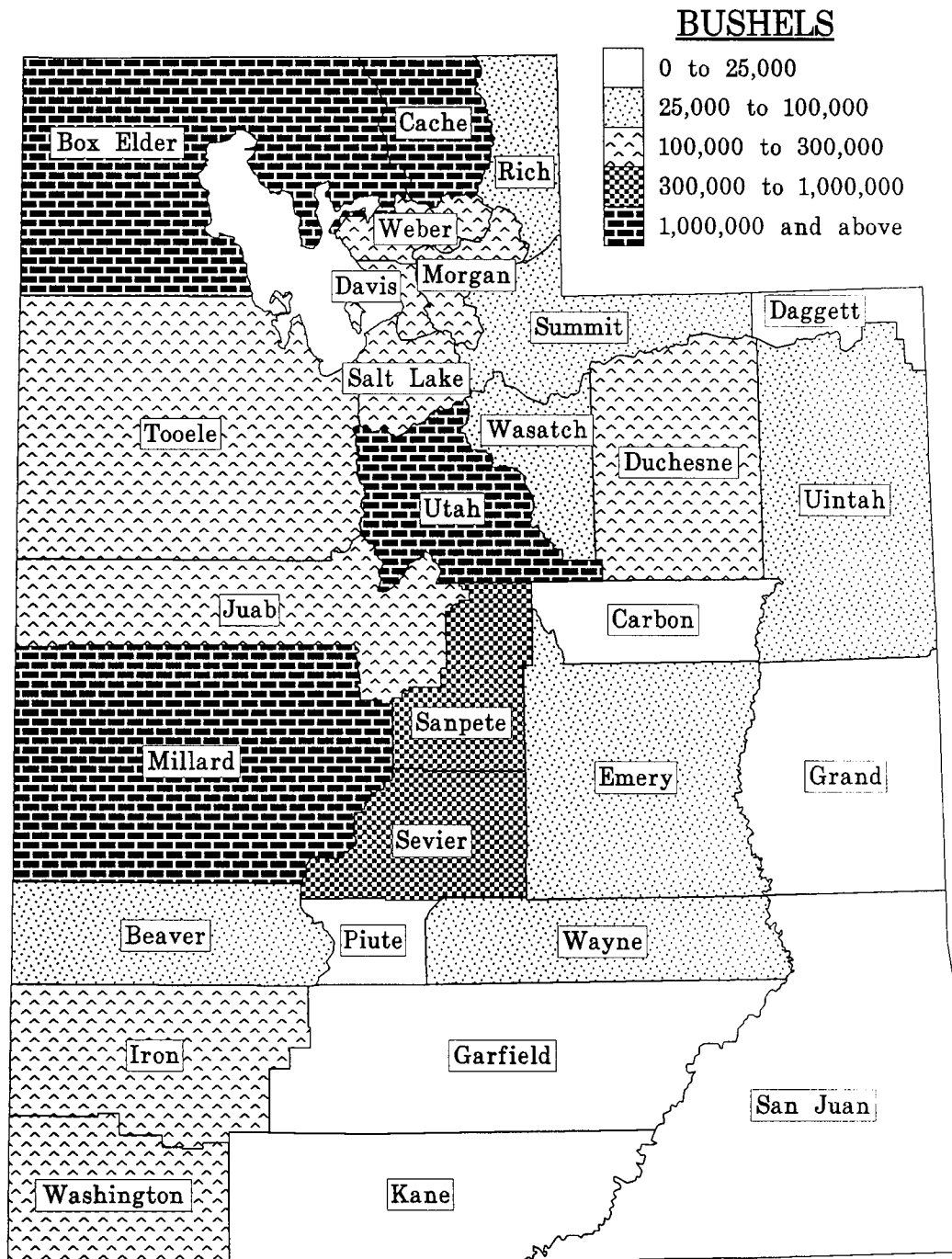
**COUNTY ESTIMATES: All Barley,  
All Cropping Practices, Utah, 1991**

| District and County    | Acres Planted     | Acres Harvested for Grain | Yield per Harvested Acre | Production |
|------------------------|-------------------|---------------------------|--------------------------|------------|
|                        | ----- Acres ----- |                           | ----- Bushels -----      |            |
| <b>NORTHERN</b>        |                   |                           |                          |            |
| Box Elder . . . . .    | 19,500            | 18,500                    | 87.6                     | 1,620,000  |
| Cache . . . . .        | 22,500            | 21,500                    | 75.0                     | 1,613,000  |
| Davis . . . . .        | 1,900             | 1,800                     | 80.6                     | 145,000    |
| Morgan . . . . .       | 1,400             | 1,300                     | 81.5                     | 106,000    |
| Rich . . . . .         | 1,400             | 1,300                     | 59.2                     | 77,000     |
| Salt Lake . . . . .    | 1,800             | 1,700                     | 78.2                     | 133,000    |
| Tooele . . . . .       | 1,800             | 1,700                     | 70.0                     | 119,000    |
| Weber . . . . .        | 3,200             | 3,000                     | 83.3                     | 250,000    |
| Total . . . . .        | 53,500            | 50,800                    | 80.0                     | 4,063,000  |
| <b>CENTRAL</b>         |                   |                           |                          |            |
| Juab . . . . .         | 2,700             | 2,400                     | 70.0                     | 168,000    |
| Millard . . . . .      | 12,900            | 10,900                    | 91.7                     | 1,000,000  |
| Sanpete . . . . .      | 5,400             | 4,700                     | 81.7                     | 384,000    |
| Sevier . . . . .       | 4,500             | 3,500                     | 88.0                     | 308,000    |
| Utah . . . . .         | 12,500            | 11,500                    | 90.8                     | 1,044,000  |
| Total . . . . .        | 38,000            | 33,000                    | 88.0                     | 2,904,000  |
| <b>EASTERN</b>         |                   |                           |                          |            |
| Carbon . . . . .       | *                 | *                         | *                        | *          |
| Daggett . . . . .      | *                 | *                         | *                        | *          |
| Duchesne . . . . .     | 2,500             | 2,300                     | 89.1                     | 205,000    |
| Emery . . . . .        | 700               | 700                       | 61.4                     | 43,000     |
| Grand . . . . .        | *                 | *                         | *                        | *          |
| San Juan . . . . .     | *                 | *                         | *                        | *          |
| Summit . . . . .       | 700               | 600                       | 76.7                     | 46,000     |
| Uintah . . . . .       | 1,300             | 1,200                     | 77.1                     | 92,500     |
| Wasatch . . . . .      | 700               | 600                       | 81.2                     | 48,700     |
| Other . . . . .        | 400               | 300                       | 49.3                     | 14,800     |
| Total . . . . .        | 6,300             | 5,700                     | 78.9                     | 450,000    |
| <b>SOUTHERN</b>        |                   |                           |                          |            |
| Beaver . . . . .       | 800               | 600                       | 94.2                     | 56,500     |
| Garfield . . . . .     | *                 | *                         | *                        | *          |
| Iron . . . . .         | 2,300             | 1,900                     | 88.4                     | 168,000    |
| Kane . . . . .         | *                 | *                         | *                        | *          |
| Piute . . . . .        | *                 | *                         | *                        | *          |
| Washington . . . . .   | 1,900             | 1,300                     | 76.9                     | 100,000    |
| Wayne . . . . .        | 1,500             | 1,100                     | 89.1                     | 98,000     |
| Other . . . . .        | 700               | 600                       | 75.8                     | 45,500     |
| Total . . . . .        | 7,200             | 5,500                     | 85.1                     | 468,000    |
| <b>STATE</b> . . . . . | 105,000           | 95,000                    | 83.0                     | 7,885,000  |

\* Less than 500 planted acres, combined with other counties.

# UTAH BARLEY PRODUCTION

## By Counties, 1991





**COUNTY ESTIMATES: All Barley,  
by Cropping Practice, Utah, 1991**

| District<br>and<br>County | Irrigated         |               |  |                  | Non-Irrigated     |               |  |                |
|---------------------------|-------------------|---------------|--|------------------|-------------------|---------------|--|----------------|
|                           | Acreage           |               | Yield<br>per<br>Har-<br>vested<br>acre | Production       | Acreage           |               | Yield<br>per<br>Har-<br>vested<br>acre | Production     |
|                           | Planted           | Harvested     |  |                  | Planted           | Harvested     |  |                |
|                           | ----- Acres ----- |               | ----- Bushels -----                    |                  | ----- Acres ----- |               | ----- Bushels -----                    |                |
| <b>NORTHERN</b>           |                   |               |  |                  |                   |               |  |                |
| Box Elder . .             | 16,000            | 15,100        | 100.1                                  | 1,511,200        | 3,500             | 3,400         | 32.0                                   | 108,800        |
| Cache . . . .             | 17,700            | 17,200        | 85.6                                   | 1,472,700        | 4,800             | 4,300         | 32.6                                   | 140,300        |
| Davis . . . .             | 1,700             | 1,600         | 87.0                                   | 139,200          | 200               | 200           | 29.0                                   | 5,800          |
| Morgan . . .              | 1,300             | 1,200         | 85.8                                   | 103,000          | 100               | 100           | 30.0                                   | 3,000          |
| Rich . . . . .            | 1,300             | 1,200         | 61.0                                   | 73,200           | 100               | 100           | 38.0                                   | 3,800          |
| Salt Lake . .             | 1,600             | 1,500         | 85.5                                   | 128,200          | 200               | 200           | 24.0                                   | 4,800          |
| Tooele . . . .            | 1,400             | 1,300         | 82.3                                   | 107,000          | 400               | 400           | 30.0                                   | 12,000         |
| Weber . . . . .           | 3,000             | 2,900         | 84.7                                   | 245,500          | 200               | 100           | 45.0                                   | 4,500          |
| Total . . . .             | 44,000            | 42,000        | 90.0                                   | 3,780,000        | 9,500             | 8,800         | 32.2                                   | 283,000        |
| <b>CENTRAL</b>            |                   |               |  |                  |                   |               |  |                |
| Juab . . . . .            | 2,600             | 2,300         | 72.4                                   | 166,500          | 100               | 100           | 15.0                                   | 1,500          |
| Millard . . .             | 12,800            | 10,800        | 92.4                                   | 998,000          | 100               | 100           | 20.0                                   | 2,000          |
| Sanpete . . .             | 5,300             | 4,600         | 83.0                                   | 382,000          | 100               | 100           | 20.0                                   | 2,000          |
| Sevier . . . .            | 4,300             | 3,300         | 91.9                                   | 303,400          | 200               | 200           | 23.0                                   | 4,600          |
| Utah . . . . .            | 12,000            | 11,100        | 93.3                                   | 1,035,100        | 500               | 400           | 22.3                                   | 8,900          |
| Total . . . .             | 37,000            | 32,100        | 89.9                                   | 2,885,000        | 1,000             | 900           | 21.1                                   | 19,000         |
| <b>EASTERN</b>            |                   |               |  |                  |                   |               |  |                |
| Carbon . . . .            | *                 | *             | *                                      | *                | *                 | *             | *                                      | *              |
| Daggett . . .             | *                 | *             | *                                      | *                | *                 | *             | *                                      | *              |
| Duchesne . .              | 2,400             | 2,200         | 92.2                                   | 202,800          | 100               | 100           | 22.0                                   | 2,200          |
| Emery . . . .             | 600               | 600           | 67.5                                   | 40,500           | 100               | 100           | 25.0                                   | 2,500          |
| Grand . . . .             | *                 | *             | *                                      | *                | *                 | *             | *                                      | *              |
| San Juan . .              | *                 | *             | *                                      | *                | *                 | *             | *                                      | *              |
| Summit . . .              | 600               | 600           | 76.7                                   | 46,000           | 100               | 0             | 0.0                                    | 0              |
| Uintah . . . .            | 1,300             | 1,200         | 77.1                                   | 92,500           | 0                 | 0             | 0.0                                    | 0              |
| Wasatch . . .             | 700               | 600           | 81.2                                   | 48,700           | 0                 | 0             | 0.0                                    | 0              |
| Other . . . . .           | 200               | 200           | 62.5                                   | 12,500           | 200               | 100           | 23.0                                   | 2,300          |
| Total . . . .             | 5,800             | 5,400         | 82.0                                   | 443,000          | 500               | 300           | 23.3                                   | 7,000          |
| <b>SOUTHERN</b>           |                   |               |  |                  |                   |               |  |                |
| Beaver . . . .            | 800               | 600           | 94.2                                   | 56,500           | 0                 | 0             | 0.0                                    | 0              |
| Garfield . . .            | *                 | *             | *                                      | *                | *                 | *             | *                                      | *              |
| Iron . . . . .            | 2,300             | 1,900         | 88.4                                   | 168,000          | 0                 | 0             | 0.0                                    | 0              |
| Kane . . . . .            | *                 | *             | *                                      | *                | *                 | *             | *                                      | *              |
| Piute . . . . .           | *                 | *             | *                                      | *                | *                 | *             | *                                      | *              |
| Washington                | 1,900             | 1,300         | 76.9                                   | 100,000          | 0                 | 0             | 0.0                                    | 0              |
| Wayne . . . .             | 1,500             | 1,100         | 89.1                                   | 98,000           | 0                 | 0             | 0.0                                    | 0              |
| Other . . . . .           | 700               | 600           | 75.8                                   | 45,500           | 0                 | 0             | 0.0                                    | 0              |
| Total . . . .             | 7,200             | 5,500         | 85.1                                   | 468,000          | 0                 | 0             | 0.0                                    | 0              |
| <b>STATE . . . .</b>      | <b>94,000</b>     | <b>85,000</b> | <b>89.1</b>                            | <b>7,576,000</b> | <b>11,000</b>     | <b>10,000</b> | <b>30.9</b>                            | <b>309,000</b> |

\* Less than 500 acres planted for all cropping practices, combined with other counties.

**COUNTY ESTIMATES: Corn,  
All Cropping Practices, Utah, 1991**

| District and County    | Acres Planted All Purposes | Corn for Grain  |                     |                  | Corn for Silage |             |                  |
|------------------------|----------------------------|-----------------|---------------------|------------------|-----------------|-------------|------------------|
|                        |                            | Acres Harvested | Yield               | Production       | Acres Harvested | Yield       | Production       |
|                        | ----- Acres -----          |                 | ----- Bushels ----- |                  | Acres           |             | ----- Tons ----- |
| <b>NORTHERN</b>        |                            |                 |                     |                  |                 |             |                  |
| Box Elder . . . . .    | 13,900                     | 6,600           | 152.0               | 1,003,000        | 6,700           | 23.3        | 156,000          |
| Cache . . . . .        | 6,700                      | 500             | 137.0               | 68,500           | 6,200           | 21.5        | 133,000          |
| Davis . . . . .        | 5,200                      | 2,600           | 144.4               | 375,500          | 2,600           | 22.3        | 58,000           |
| Morgan . . . . .       | *                          | *               | *                   | *                | *               | *           | *                |
| Rich . . . . .         | *                          | *               | *                   | *                | *               | *           | *                |
| Salt Lake . . . . .    | 1,100                      | 300             | 143.3               | 43,000           | 800             | 19.4        | 15,500           |
| Tooele . . . . .       | *                          | *               | *                   | *                | *               | *           | *                |
| Weber . . . . .        | 5,700                      | 1,200           | 145.8               | 175,000          | 4,300           | 22.9        | 98,500           |
| Other . . . . .        | 700                        | 0               | 0.0                 | 0                | 700             | 20.0        | 14,000           |
| Total . . . . .        | 33,300                     | 11,200          | 148.7               | 1,665,000        | 21,300          | 22.3        | 475,000          |
| <b>CENTRAL</b>         |                            |                 |                     |                  |                 |             |                  |
| Juab . . . . .         | 500                        | 100             | 100.0               | 10,000           | 400             | 18.8        | 7,500            |
| Millard . . . . .      | 5,000                      | 2,900           | 141.0               | 409,000          | 1,900           | 20.0        | 38,000           |
| Sanpete . . . . .      | 1,500                      | *               | *                   | *                | 1,300           | 20.0        | 26,000           |
| Sevier . . . . .       | 5,000                      | 400             | 132.5               | 53,000           | 4,500           | 20.1        | 90,500           |
| Utah . . . . .         | 12,500                     | 4,000           | 135.5               | 542,000          | 8,300           | 20.5        | 170,000          |
| Total . . . . .        | 24,500                     | 7,400           | 137.0               | 1,014,000        | 16,400          | 20.2        | 332,000          |
| <b>EASTERN</b>         |                            |                 |                     |                  |                 |             |                  |
| Carbon . . . . .       | 500                        | *               | *                   | *                | 300             | 18.3        | 5,500            |
| Daggett . . . . .      | *                          | *               | *                   | *                | *               | *           | *                |
| Duchesne . . . . .     | 2,000                      | 1,000           | 115.0               | 115,000          | 900             | 18.9        | 17,000           |
| Emery . . . . .        | 1,200                      | 300             | 113.3               | 34,000           | 400             | 15.5        | 6,200            |
| Grand . . . . .        | *                          | *               | *                   | *                | *               | *           | *                |
| San Juan . . . . .     | *                          | *               | *                   | *                | *               | *           | *                |
| Summit . . . . .       | *                          | *               | *                   | *                | *               | *           | *                |
| Uintah . . . . .       | 2,800                      | 800             | 101.3               | 81,000           | 1,600           | 17.5        | 28,000           |
| Wasatch . . . . .      | *                          | *               | *                   | *                | *               | *           | *                |
| Other . . . . .        | 400                        | 100             | 100.0               | 10,000           | 300             | 17.7        | 5,300            |
| Total . . . . .        | 6,900                      | 2,200           | 109.1               | 240,000          | 3,500           | 17.7        | 62,000           |
| <b>SOUTHERN</b>        |                            |                 |                     |                  |                 |             |                  |
| Beaver . . . . .       | 1,700                      | 100             | 105.0               | 10,500           | 1,400           | 20.0        | 28,000           |
| Garfield . . . . .     | *                          | *               | *                   | *                | *               | *           | *                |
| Iron . . . . .         | 1,000                      | 100             | 105.0               | 10,500           | 800             | 20.0        | 16,000           |
| Kane . . . . .         | *                          | *               | *                   | *                | *               | *           | *                |
| Piute . . . . .        | *                          | *               | *                   | *                | *               | *           | *                |
| Washington . . . . .   | *                          | *               | *                   | *                | *               | *           | *                |
| Wayne . . . . .        | *                          | *               | *                   | *                | *               | *           | *                |
| Other . . . . .        | 600                        | 0               | 0.0                 | 0                | 600             | 18.3        | 11,000           |
| Total . . . . .        | 3,300                      | 200             | 105.0               | 21,000           | 2,800           | 19.6        | 55,000           |
| <b>STATE . . . . .</b> | <b>68,000</b>              | <b>21,000</b>   | <b>140.0</b>        | <b>2,940,000</b> | <b>44,000</b>   | <b>21.0</b> | <b>924,000</b>   |

\* Less than 500 acres planted for all purposes, combined with other counties.

**COUNTY ESTIMATES: Oats,  
All Cropping Practices, Utah, 1991**

| District and County    | Acres Planted     | Acres Harvested for Grain | Yield per Acre      | Production     |
|------------------------|-------------------|---------------------------|---------------------|----------------|
|                        | ----- Acres ----- |                           | ----- Bushels ----- |                |
| <b>NORTHERN</b>        |                   |                           |                     |                |
| Box Elder . . . . .    | 2,400             | 800                       | 83.8                | 67,000         |
| Cache . . . . .        | 2,500             | 700                       | 81.4                | 57,000         |
| Davis . . . . .        | 600               | 100                       | 80.0                | 8,000          |
| Morgan . . . . .       | 500               | 100                       | 75.0                | 7,500          |
| Rich . . . . .         | 600               | 100                       | 80.0                | 8,000          |
| Salt Lake . . . . .    | 800               | 300                       | 76.7                | 23,000         |
| Tooele . . . . .       | 800               | 100                       | 65.0                | 6,500          |
| Weber . . . . .        | 1,300             | 300                       | 93.3                | 28,000         |
| Total . . . . .        | 9,500             | 2,500                     | 82.0                | 205,000        |
| <b>CENTRAL</b>         |                   |                           |                     |                |
| Juab . . . . .         | 800               | 100                       | 75.0                | 7,500          |
| Millard . . . . .      | 3,900             | 300                       | 81.7                | 24,500         |
| Sanpete . . . . .      | 2,800             | 400                       | 96.3                | 38,500         |
| Sevier . . . . .       | 2,400             | 100                       | 90.0                | 9,000          |
| Utah . . . . .         | 3,100             | 700                       | 73.6                | 51,500         |
| Total . . . . .        | 13,000            | 1,600                     | 81.9                | 131,000        |
| <b>EASTERN</b>         |                   |                           |                     |                |
| Carbon . . . . .       | 600               | 100                       | 95.0                | 9,500          |
| Daggett . . . . .      | *                 | *                         | *                   | *              |
| Duchesne . . . . .     | 3,600             | 700                       | 82.9                | 58,000         |
| Emery . . . . .        | 1,500             | 500                       | 70.0                | 35,000         |
| Grand . . . . .        | *                 | *                         | *                   | *              |
| San Juan . . . . .     | 1,300             | 600                       | 35.0                | 21,000         |
| Summit . . . . .       | 800               | 100                       | 70.0                | 7,000          |
| Uintah . . . . .       | 2,200             | 600                       | 70.0                | 42,000         |
| Wasatch . . . . .      | 1,100             | 100                       | 100.0               | 10,000         |
| Other . . . . .        | 400               | 200                       | 62.5                | 12,500         |
| Total . . . . .        | 11,500            | 2,900                     | 67.2                | 195,000        |
| <b>SOUTHERN</b>        |                   |                           |                     |                |
| Beaver . . . . .       | 3,800             | 200                       | 82.5                | 16,500         |
| Garfield . . . . .     | 2,800             | 200                       | 87.5                | 17,500         |
| Iron . . . . .         | 4,200             | 200                       | 95.0                | 19,000         |
| Kane . . . . .         | 900               | 100                       | 70.0                | 7,000          |
| Piute . . . . .        | 1,100             | 100                       | 90.0                | 9,000          |
| Washington . . . . .   | 1,200             | 100                       | 75.0                | 7,500          |
| Wayne . . . . .        | 2,000             | 100                       | 85.0                | 8,500          |
| Total . . . . .        | 16,000            | 1,000                     | 85.0                | 85,000         |
| <b>STATE</b> . . . . . | <b>50,000</b>     | <b>8,000</b>              | <b>77.0</b>         | <b>616,000</b> |

\* Less than 500 planted acres, combined with other counties.

**COUNTY ESTIMATES: All Hay,  
All Cropping Practices, Utah, 1991**

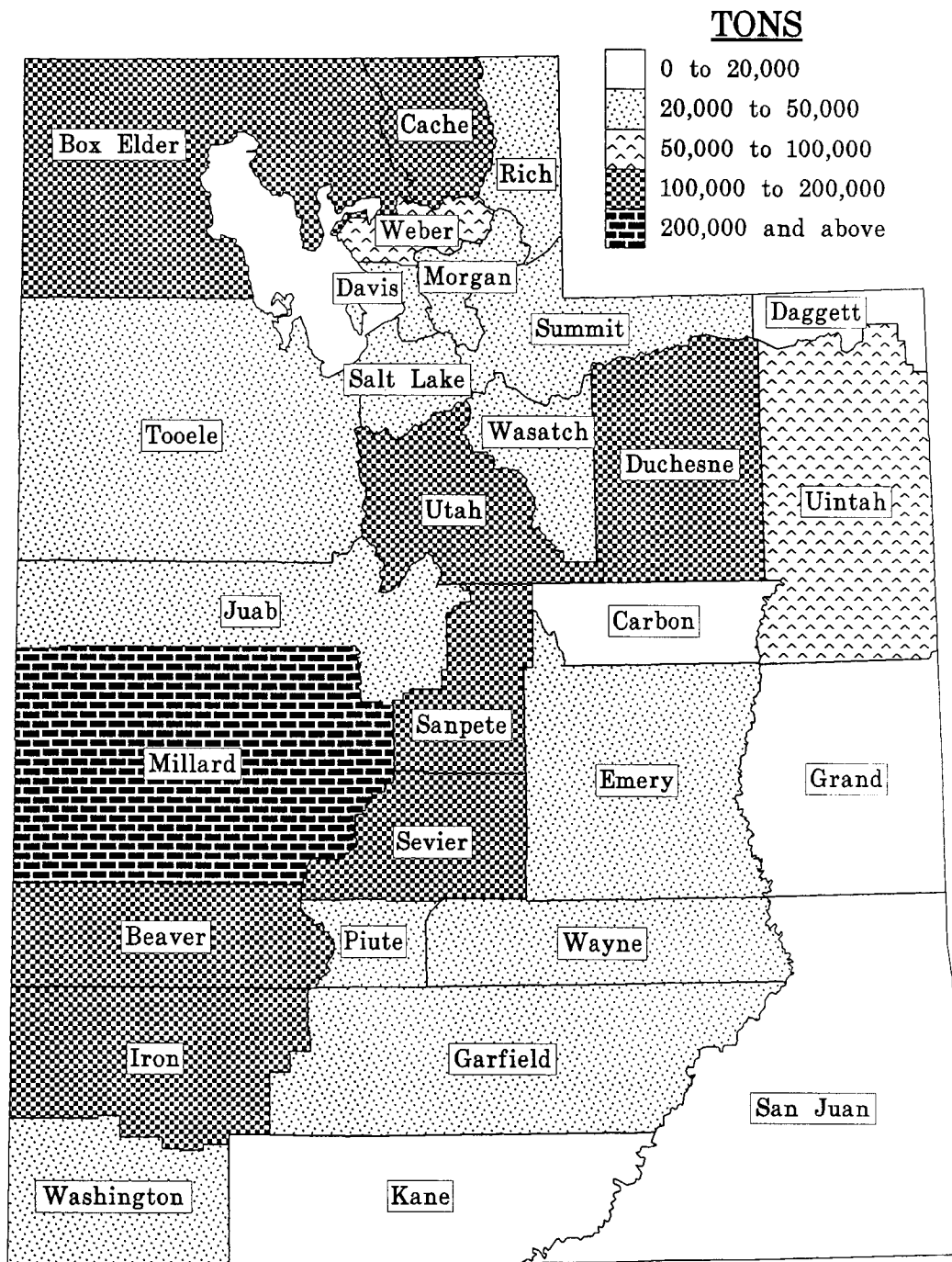
| District<br>and<br>County | Acres Harvested | Yield per Acre   | Production       |
|---------------------------|-----------------|------------------|------------------|
|                           | Acres           | ----- Tons ----- |                  |
| <b>NORTHERN</b>           |                 |                  |                  |
| Box Elder . . . . .       | 48,400          | 3.71             | 179,300          |
| Cache . . . . .           | 56,900          | 3.47             | 197,500          |
| Davis . . . . .           | 8,700           | 4.12             | 35,800           |
| Morgan . . . . .          | 9,300           | 3.26             | 30,300           |
| Rich . . . . .            | 45,800          | 1.88             | 86,000           |
| Salt Lake . . . . .       | 9,800           | 4.13             | 40,500           |
| Tooele . . . . .          | 14,100          | 3.33             | 46,900           |
| Weber . . . . .           | 17,000          | 4.16             | 70,700           |
| Total . . . . .           | 210,000         | 3.27             | 687,000          |
| <b>CENTRAL</b>            |                 |                  |                  |
| Juab . . . . .            | 15,400          | 3.03             | 46,700           |
| Millard . . . . .         | 64,300          | 4.41             | 283,400          |
| Sanpete . . . . .         | 42,000          | 3.41             | 143,000          |
| Sevier . . . . .          | 24,800          | 4.48             | 111,000          |
| Utah . . . . .            | 35,500          | 3.83             | 136,000          |
| Total . . . . .           | 182,000         | 3.96             | 720,100          |
| <b>EASTERN</b>            |                 |                  |                  |
| Carbon . . . . .          | 5,600           | 3.14             | 17,600           |
| Daggett . . . . .         | 5,300           | 2.26             | 12,000           |
| Duchesne . . . . .        | 45,500          | 3.11             | 141,600          |
| Emery . . . . .           | 15,100          | 2.96             | 44,700           |
| Grand . . . . .           | 2,500           | 3.48             | 8,700            |
| San Juan . . . . .        | 5,400           | 2.28             | 12,300           |
| Summit . . . . .          | 16,800          | 2.45             | 41,200           |
| Uintah . . . . .          | 28,900          | 3.58             | 103,500          |
| Wasatch . . . . .         | 8,900           | 3.54             | 31,500           |
| Total . . . . .           | 134,000         | 3.08             | 413,100          |
| <b>SOUTHERN</b>           |                 |                  |                  |
| Beaver . . . . .          | 28,000          | 4.24             | 118,600          |
| Garfield . . . . .        | 11,800          | 2.92             | 34,500           |
| Iron . . . . .            | 38,200          | 4.56             | 174,300          |
| Kane . . . . .            | 3,600           | 3.28             | 11,800           |
| Piute . . . . .           | 11,000          | 3.06             | 33,700           |
| Washington . . . . .      | 9,200           | 4.60             | 42,300           |
| Wayne . . . . .           | 12,200          | 3.25             | 39,600           |
| Total . . . . .           | 114,000         | 3.99             | 454,800          |
| <b>STATE . . . . .</b>    | <b>640,000</b>  | <b>3.56</b>      | <b>2,275,000</b> |

**COUNTY ESTIMATES: Alfalfa & Alfalfa Mixtures for Hay,  
All Cropping Practices, Utah, 1991**

| District<br>and<br>County | Acres Harvested | Yield per Acre   | Production       |
|---------------------------|-----------------|------------------|------------------|
|                           | Acres           | ----- Tons ----- |                  |
| <b>NORTHERN</b>           |                 |                  |                  |
| Box Elder .....           | 40,000          | 4.08             | 163,000          |
| Cache .....               | 48,000          | 3.75             | 180,200          |
| Davis .....               | 6,600           | 4.55             | 30,000           |
| Morgan .....              | 7,000           | 3.57             | 25,000           |
| Rich .....                | 10,000          | 3.10             | 31,000           |
| Salt Lake .....           | 8,100           | 4.44             | 36,000           |
| Tooele .....              | 11,600          | 3.60             | 41,800           |
| Weber .....               | 13,700          | 4.53             | 62,000           |
| Total .....               | 145,000         | 3.92             | 569,000          |
| <b>CENTRAL</b>            |                 |                  |                  |
| Juab .....                | 13,200          | 3.18             | 42,000           |
| Millard .....             | 59,800          | 4.54             | 271,600          |
| Sanpete .....             | 31,000          | 3.84             | 119,000          |
| Sevier .....              | 21,500          | 4.74             | 102,000          |
| Utah .....                | 26,500          | 4.42             | 117,000          |
| Total .....               | 152,000         | 4.29             | 651,600          |
| <b>EASTERN</b>            |                 |                  |                  |
| Carbon .....              | 5,000           | 3.30             | 16,500           |
| Daggett .....             | 1,900           | 2.90             | 5,500            |
| Duchesne .....            | 30,000          | 3.67             | 110,000          |
| Emery .....               | 13,000          | 3.12             | 40,500           |
| Grand .....               | 1,900           | 3.95             | 7,500            |
| San Juan .....            | 4,400           | 2.39             | 10,500           |
| Summit .....              | 8,700           | 2.48             | 21,600           |
| Uintah .....              | 24,300          | 3.81             | 92,500           |
| Wasatch .....             | 6,800           | 3.82             | 26,000           |
| Total .....               | 96,000          | 3.44             | 330,600          |
| <b>SOUTHERN</b>           |                 |                  |                  |
| Beaver .....              | 23,500          | 4.50             | 105,800          |
| Garfield .....            | 9,600           | 3.02             | 29,000           |
| Iron .....                | 35,000          | 4.69             | 164,000          |
| Kane .....                | 2,600           | 3.65             | 9,500            |
| Piute .....               | 8,200           | 3.29             | 27,000           |
| Washington .....          | 7,600           | 5.00             | 38,000           |
| Wayne .....               | 10,500          | 3.38             | 35,500           |
| Total .....               | 97,000          | 4.21             | 408,800          |
| <b>STATE .....</b>        | <b>490,000</b>  | <b>4.00</b>      | <b>1,960,000</b> |

# UTAH ALFALFA HAY PRODUCTION

## By Counties, 1991



**COUNTY ESTIMATES: Other Hay,  
All Cropping Practices, Utah, 1991**

| District and County | Acres Harvested | Yield per Acre   | Production     |
|---------------------|-----------------|------------------|----------------|
|                     | Acres           | ----- Tons ----- |                |
| <b>NORTHERN</b>     |                 |                  |                |
| Box Elder .....     | 8,400           | 1.94             | 16,300         |
| Cache .....         | 8,900           | 1.94             | 17,300         |
| Davis .....         | 2,100           | 2.76             | 5,800          |
| Morgan .....        | 2,300           | 2.30             | 5,300          |
| Rich .....          | 35,800          | 1.54             | 55,000         |
| Salt Lake .....     | 1,700           | 2.65             | 4,500          |
| Tooele .....        | 2,500           | 2.04             | 5,100          |
| Weber .....         | 3,300           | 2.64             | 8,700          |
| Total .....         | 65,000          | 1.82             | 118,000        |
| <b>CENTRAL</b>      |                 |                  |                |
| Juab .....          | 2,200           | 2.14             | 4,700          |
| Millard .....       | 4,500           | 2.62             | 11,800         |
| Sanpete .....       | 11,000          | 2.18             | 24,000         |
| Sevier .....        | 3,300           | 2.73             | 9,000          |
| Utah .....          | 9,000           | 2.11             | 19,000         |
| Total .....         | 30,000          | 2.28             | 68,500         |
| <b>EASTERN</b>      |                 |                  |                |
| Carbon .....        | 600             | 1.83             | 1,100          |
| Daggett .....       | 3,400           | 1.91             | 6,500          |
| Duchesne .....      | 15,500          | 2.04             | 31,600         |
| Emery .....         | 2,100           | 2.00             | 4,200          |
| Grand .....         | 600             | 2.00             | 1,200          |
| San Juan .....      | 1,000           | 1.80             | 1,800          |
| Summit .....        | 8,100           | 2.42             | 19,600         |
| Uintah .....        | 4,600           | 2.39             | 11,000         |
| Wasatch .....       | 2,100           | 2.62             | 5,500          |
| Total .....         | 38,000          | 2.17             | 82,500         |
| <b>SOUTHERN</b>     |                 |                  |                |
| Beaver .....        | 4,500           | 2.84             | 12,800         |
| Garfield .....      | 2,200           | 2.50             | 5,500          |
| Iron .....          | 3,200           | 3.22             | 10,300         |
| Kane .....          | 1,000           | 2.30             | 2,300          |
| Piute .....         | 2,800           | 2.39             | 6,700          |
| Washington .....    | 1,600           | 2.69             | 4,300          |
| Wayne .....         | 1,700           | 2.41             | 4,100          |
| Total .....         | 17,000          | 2.71             | 46,000         |
| <b>STATE .....</b>  | <b>150,000</b>  | <b>2.10</b>      | <b>315,000</b> |

**COUNTY ESTIMATES: Potatoes,  
All Cropping Practices, Utah, 1990-1991**

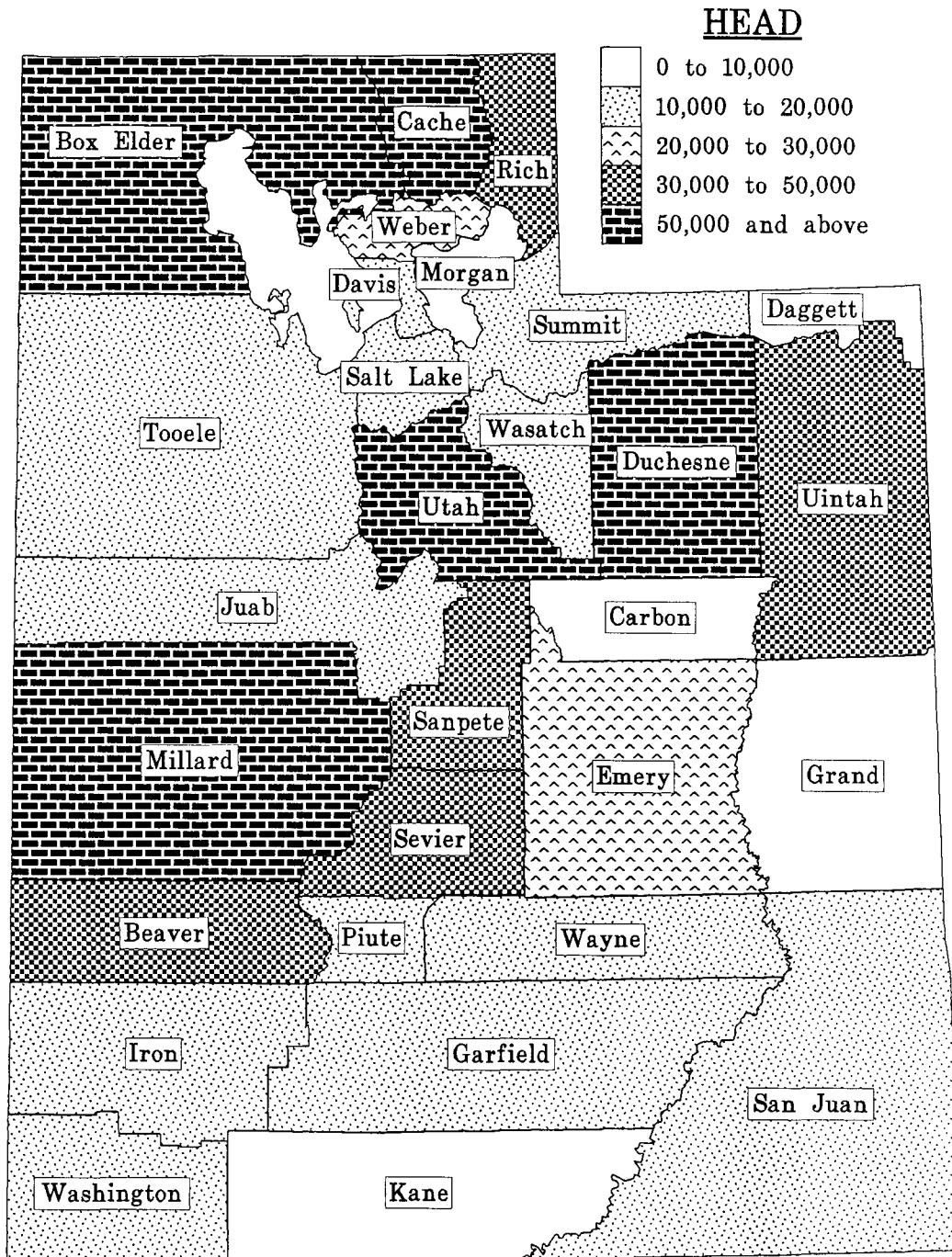
| County                   | Acres Harvested   |       | Yield per Acre  |      | Production |           |
|--------------------------|-------------------|-------|-----------------|------|------------|-----------|
|                          | 1990              | 1991  | 1990            | 1991 | 1990       | 1991      |
|                          | ----- Acres ----- |       | ----- Cwt ----- |      |            |           |
| Davis . . . . .          | 900               | 850   | 327             | 334  | 294,000    | 284,000   |
| Millard . . . . .        | 1,400             | 1,250 | 312             | 320  | 437,000    | 400,000   |
| Iron & Washington . .    | 3,600             | 3,600 | 235             | 241  | 846,000    | 868,000   |
| Other Counties . . . . . | 300               | 300   | 220             | 227  | 66,000     | 68,000    |
| STATE TOTAL . . . . .    | 6,200             | 6,000 | 265             | 270  | 1,643,000  | 1,620,000 |





# UTAH ALL CATTLE INVENTORY

## By Counties, 1991



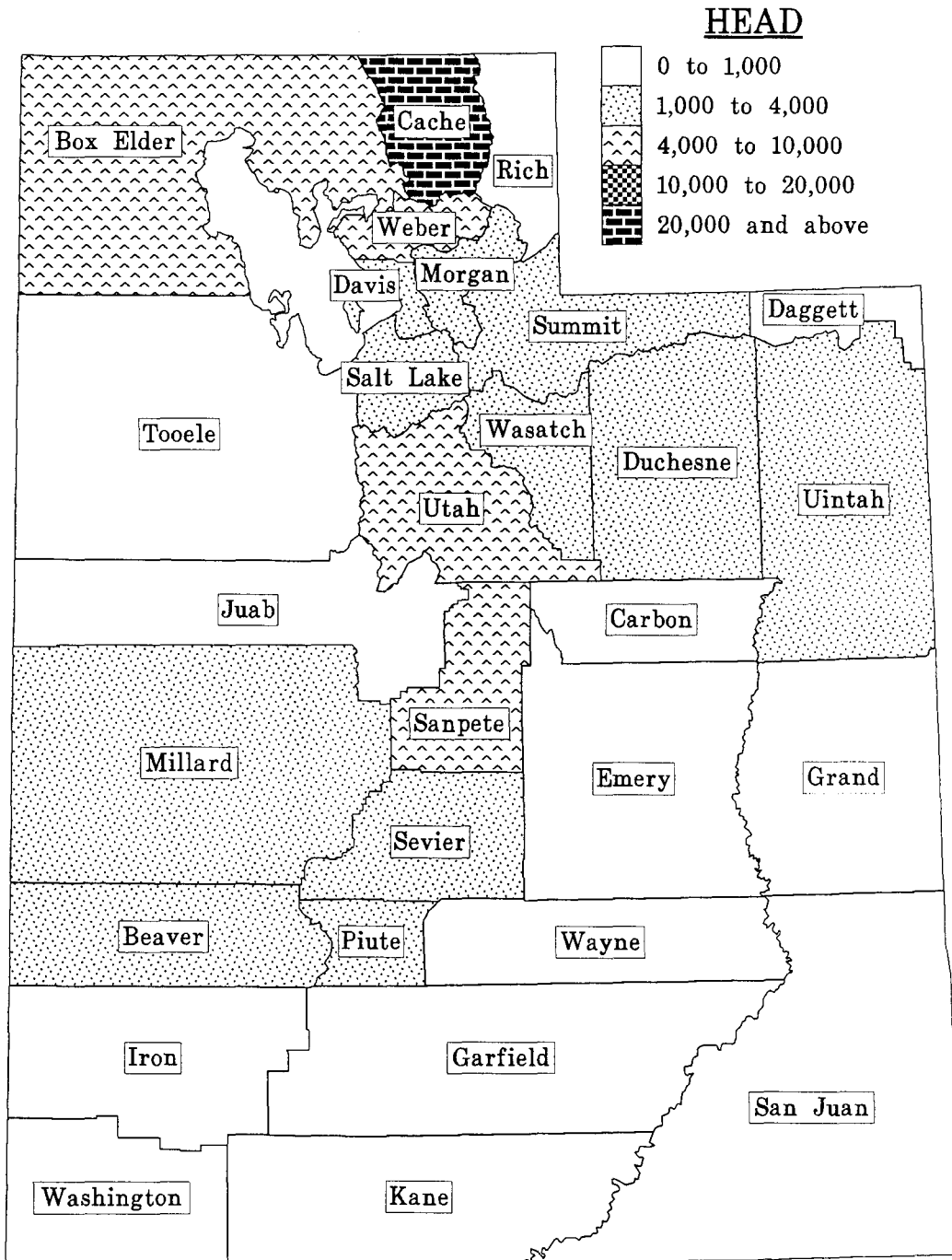
**COUNTY ESTIMATES: Cattle,  
Utah, January 1, 1991-92**

| County                                 | All Cattle |         | All Cows         |                  | Beef Cows |         | Milk Cows |           |
|--|------------|---------|------------------|------------------|-----------|---------|-----------|-----------|
|  | 1991       | 1992    | 1991             | 1992             | 1991      | 1992    | 1991      | 1992      |
|  | Number     |         |                  |                  |           |         |           |           |
| <b><u>NORTHERN</u></b>                 |            |         |                  |                  |           |         |           |           |
| Box Elder . . .                        | 79,000     | 77,000  | 37,000           | 35,000           | 29,000    | 27,000  | 8,000     | 8,000     |
| Cache . . . . .                        | 69,000     | 71,000  | 28,000           | 27,500           | 6,000     | 6,500   | 22,000    | 21,000    |
| Davis . . . . .                        | 20,000     | 18,000  | 6,500            | 6,900            | 5,000     | 5,300   | 1,500     | 1,600     |
| Morgan . . . . .                       | 8,000      | 9,000   | 4,500            | 4,400            | 3,000     | 2,800   | 1,500     | 1,600     |
| Rich . . . . .                         | 50,000     | 47,000  | <u>1/</u> 27,000 | <u>1/</u> 28,300 | 27,000    | 28,300  | <u>2/</u> | <u>2/</u> |
| Salt Lake . . .                        | 13,000     | 13,000  | 5,800            | 6,100            | 4,000     | 4,300   | 1,800     | 1,800     |
| Tooele . . . . .                       | 19,000     | 18,000  | <u>1/</u> 14,000 | <u>1/</u> 12,800 | 14,000    | 12,800  | <u>2/</u> | <u>2/</u> |
| Weber . . . . .                        | 28,000     | 26,000  | 11,000           | 10,800           | 4,000     | 5,000   | 7,000     | 5,800     |
| Total . . . . .                        | 286,000    | 279,000 | 133,800          | 131,800          | 92,000    | 92,000  | 41,800    | 39,800    |
| <b><u>CENTRAL</u></b>                  |            |         |                  |                  |           |         |           |           |
| Juab . . . . .                         | 13,000     | 13,000  | <u>1/</u> 9,000  | <u>1/</u> 7,100  | 9,000     | 7,100   | <u>2/</u> | <u>2/</u> |
| Millard . . . . .                      | 59,000     | 55,000  | 19,500           | 21,800           | 17,000    | 19,400  | 2,500     | 2,400     |
| Sanpete . . . .                        | 43,000     | 45,000  | 20,800           | 21,300           | 15,000    | 15,500  | 5,800     | 5,800     |
| Sevier . . . . .                       | 43,000     | 45,000  | 17,000           | 15,800           | 13,000    | 12,600  | 4,000     | 3,200     |
| Utah . . . . .                         | 55,000     | 53,000  | 24,500           | 25,800           | 16,000    | 17,400  | 8,500     | 8,400     |
| Total . . . . .                        | 213,000    | 211,000 | 90,800           | 91,800           | 70,000    | 72,000  | 20,800    | 19,800    |
| <b><u>EASTERN</u></b>                  |            |         |                  |                  |           |         |           |           |
| Carbon . . . . .                       | 9,000      | 9,000   | <u>1/</u> 7,000  | <u>1/</u> 6,200  | 7,000     | 6,200   | <u>2/</u> | <u>2/</u> |
| Daggett . . . . .                      | 4,000      | 3,000   | <u>1/</u> 2,000  | <u>1/</u> 2,200  | 2,000     | 2,200   | <u>2/</u> | <u>2/</u> |
| Duchesne . . .                         | 54,000     | 55,000  | 29,000           | 30,800           | 26,000    | 28,100  | 3,000     | 2,700     |
| Emery . . . . .                        | 25,000     | 26,000  | 13,800           | 13,200           | 13,000    | 12,500  | 800       | 700       |
| Grand . . . . .                        | 4,000      | 4,000   | <u>1/</u> 3,000  | <u>1/</u> 2,600  | 3,000     | 2,600   | <u>2/</u> | <u>2/</u> |
| San Juan . . . .                       | 19,000     | 19,000  | <u>1/</u> 11,000 | <u>1/</u> 12,000 | 11,000    | 12,000  | <u>2/</u> | <u>2/</u> |
| Summit . . . . .                       | 18,000     | 17,000  | 11,100           | 10,300           | 9,000     | 8,600   | 2,100     | 1,700     |
| Uintah . . . . .                       | 41,000     | 41,000  | 25,300           | 25,600           | 24,000    | 23,700  | 1,300     | 1,900     |
| Wasatch . . . .                        | 11,000     | 10,000  | 5,700            | 5,800            | 3,000     | 3,400   | 2,700     | 2,400     |
| Total . . . . .                        | 185,000    | 184,000 | 107,900          | 108,700          | 98,000    | 99,300  | 9,900     | 9,400     |
| <b><u>SOUTHERN</u></b>                 |            |         |                  |                  |           |         |           |           |
| Beaver . . . . .                       | 32,000     | 34,000  | 13,000           | 13,200           | 10,000    | 10,400  | 3,000     | 2,800     |
| Garfield . . . .                       | 19,000     | 19,000  | <u>1/</u> 11,000 | <u>1/</u> 12,200 | 11,000    | 12,200  | <u>2/</u> | <u>2/</u> |
| Iron . . . . .                         | 22,000     | 19,000  | 11,200           | 9,900            | 10,000    | 9,100   | 1,200     | 800       |
| Kane . . . . .                         | 9,000      | 10,000  | <u>1/</u> 5,000  | <u>1/</u> 5,700  | 5,000     | 5,700   | <u>2/</u> | <u>2/</u> |
| Piute . . . . .                        | 9,000      | 9,000   | 6,200            | 6,100            | 5,000     | 4,700   | 1,200     | 1,400     |
| Washington . .                         | 17,000     | 16,000  | <u>1/</u> 9,000  | 8,900            | 9,000     | 8,400   | <u>2/</u> | 500       |
| Wayne . . . . .                        | 18,000     | 19,000  | 12,100           | 10,900           | 11,000    | 10,200  | 1,100     | 700       |
| Total . . . . .                        | 126,000    | 126,000 | 67,500           | 66,900           | 61,000    | 60,700  | 6,500     | 6,200     |
| Counties with<br>less than<br>500 head |            |         | 1,000            | 800              |           |         | 1,000     | 800       |
| State . . . . .                        | 810,000    | 800,000 | 401,000          | 400,000          | 321,000   | 324,000 | 80,000    | 76,000    |

1/ Milk cows excluded from county total, but included in total of counties with less than 500 milk cows. 2/ Included in total of counties with less than 500 milk cows.

# UTAH MILK COW NUMBERS

## By Counties, 1991

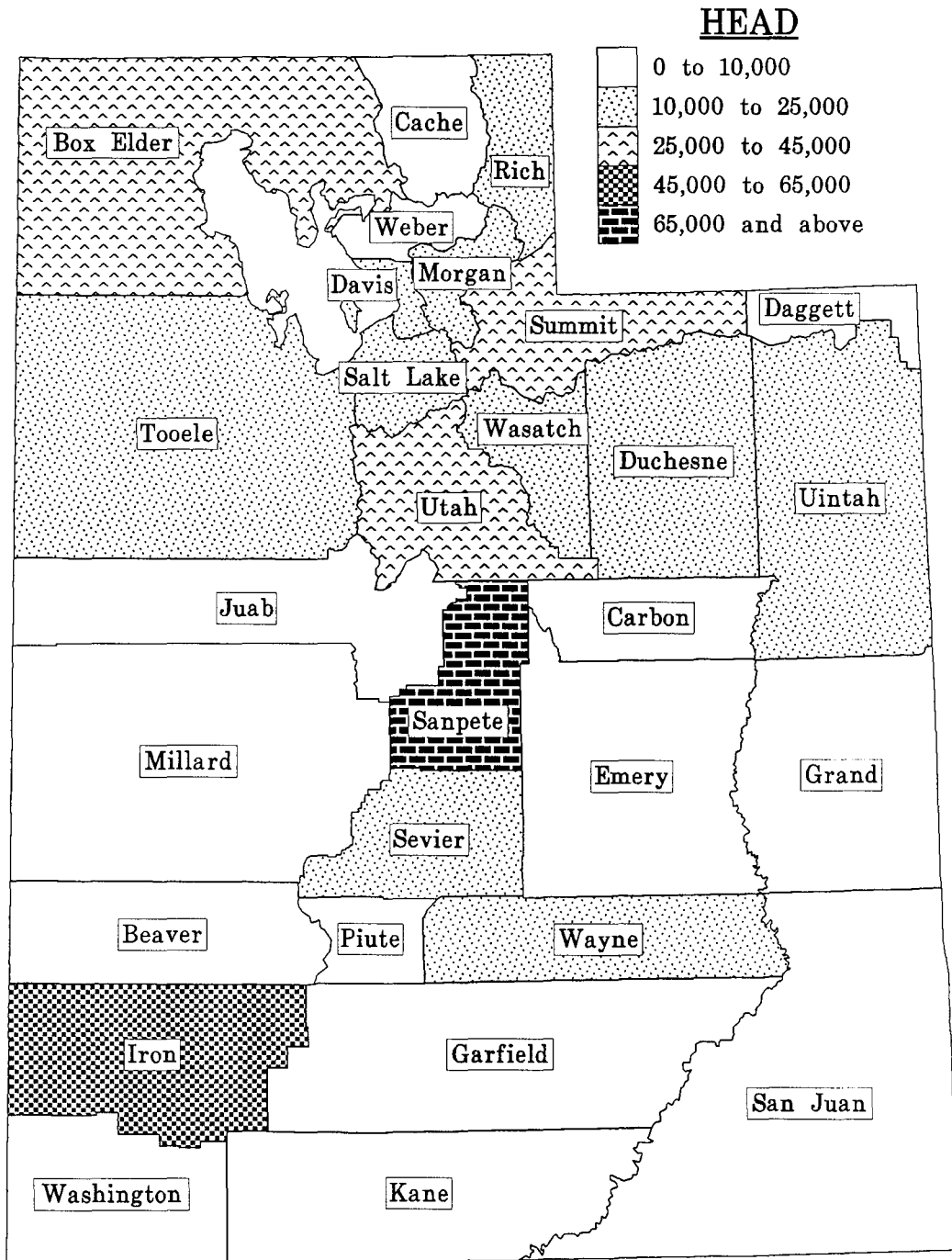


**COUNTY ESTIMATES: Stock Sheep and Lambs,  
Utah, January 1, 1991-92**

| District and County    | 1991           | 1992           |
|------------------------|----------------|----------------|
| <b>NORTHERN</b>        |                |                |
| Box Elder . . . . .    | 41,000         | 38,900         |
| Cache . . . . .        | 6,000          | 5,700          |
| Davis . . . . .        | 14,000         | 11,300         |
| Morgan . . . . .       | 16,000         | 15,200         |
| Rich . . . . .         | 18,000         | 14,600         |
| Salt Lake . . . . .    | 21,000         | 24,500         |
| Tooele . . . . .       | 12,000         | 10,900         |
| Weber . . . . .        | 7,000          | 8,900          |
| Total . . . . .        | 135,000        | 130,000        |
| <b>CENTRAL</b>         |                |                |
| Juab . . . . .         | 4,000          | 4,500          |
| Millard . . . . .      | 7,000          | 5,000          |
| Sanpete . . . . .      | 89,000         | 85,000         |
| Sevier . . . . .       | 14,000         | 10,700         |
| Utah . . . . .         | 41,000         | 43,800         |
| Total . . . . .        | 155,000        | 149,000        |
| <b>EASTERN</b>         |                |                |
| Carbon . . . . .       | 7,900          | 7,500          |
| Daggett . . . . .      | 1,000          | 700            |
| Duchesne . . . . .     | 14,000         | 13,600         |
| Emery . . . . .        | 8,000          | 8,100          |
| Grand . . . . .        | 100            | 900            |
| San Juan . . . . .     | 3,000          | 2,300          |
| Summit . . . . .       | 42,000         | 38,700         |
| Uintah . . . . .       | 23,000         | 21,000         |
| Wasatch . . . . .      | 15,000         | 16,200         |
| Total . . . . .        | 114,000        | 109,000        |
| <b>SOUTHERN</b>        |                |                |
| Beaver . . . . .       | 1,000          | 600            |
| Garfield . . . . .     | 3,000          | 3,600          |
| Iron . . . . .         | 52,000         | 49,900         |
| Kane . . . . .         | 2,000          | 1,500          |
| Piute . . . . .        | 5,000          | 4,800          |
| Washington . . . . .   | 1,000          | 600            |
| Wayne . . . . .        | 12,000         | 11,000         |
| Total . . . . .        | 76,000         | 72,000         |
| <b>STATE . . . . .</b> | <b>480,000</b> | <b>460,000</b> |

# UTAH STOCK SHEEP INVENTORY

## By Counties, 1991

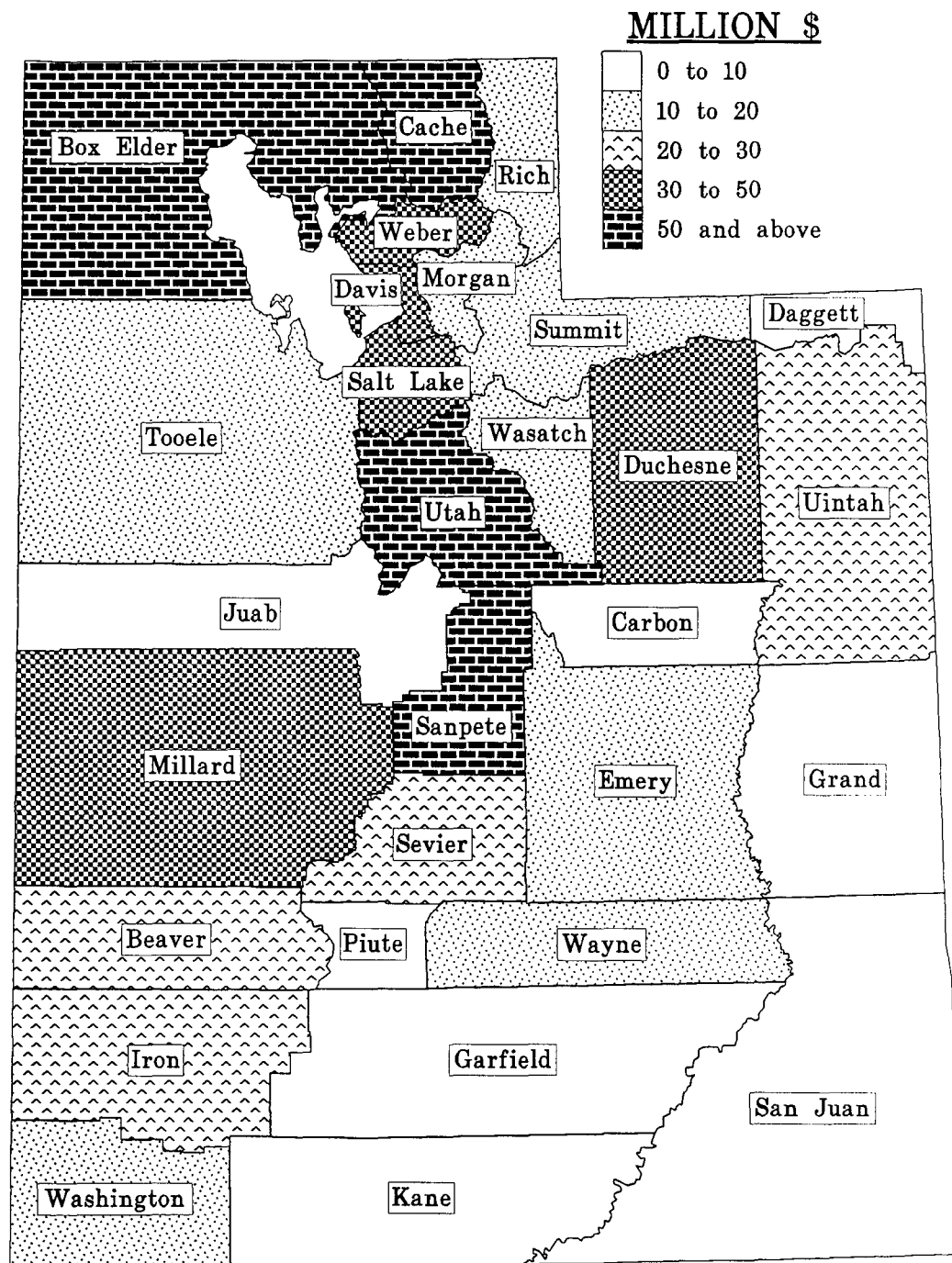


**COUNTY ESTIMATES: Cash Receipts from Farming,  
by County - 1989 Revised, 1990 Preliminary**

| County                 | Livestock and Livestock Products |              | Crops        |              | Total        |              |
|------------------------|----------------------------------|--------------|--------------|--------------|--------------|--------------|
|                        | 1989                             | 1990         | 1989         | 1990         | 1989         | 1990         |
| Million Dollars        |                                  |              |              |              |              |              |
| <b>NORTHERN</b>        |                                  |              |              |              |              |              |
| Box Elder . . . . .    | 47.7                             | 47.3         | 27.4         | 26.4         | 75.1         | 73.7         |
| Cache . . . . .        | 75.0                             | 78.6         | 13.5         | 13.4         | 88.5         | 92.0         |
| Davis . . . . .        | 11.2                             | 12.4         | 20.9         | 22.4         | 32.1         | 34.8         |
| Morgan . . . . .       | 11.5                             | 11.5         | 1.3          | 1.3          | 12.8         | 12.8         |
| Rich . . . . .         | 17.2                             | 17.1         | 3.4          | 1.7          | 20.6         | 18.8         |
| Salt Lake . . . . .    | 23.5                             | 23.1         | 9.1          | 9.0          | 32.6         | 32.1         |
| Tooele . . . . .       | 9.1                              | 8.7          | 3.1          | 2.9          | 12.2         | 11.6         |
| Weber . . . . .        | 24.2                             | 25.4         | 6.8          | 6.6          | 31.0         | 32.0         |
| Total . . . . .        | 219.4                            | 224.1        | 85.5         | 83.7         | 304.9        | 307.8        |
| <b>CENTRAL</b>         |                                  |              |              |              |              |              |
| Juab . . . . .         | 5.5                              | 5.3          | 3.2          | 2.9          | 8.7          | 8.2          |
| Millard . . . . .      | 27.3                             | 27.8         | 20.4         | 21.5         | 47.7         | 49.3         |
| Sanpete . . . . .      | 73.6                             | 75.7         | 6.0          | 4.7          | 79.6         | 80.4         |
| Sevier . . . . .       | 23.7                             | 24.1         | 4.4          | 4.2          | 28.1         | 28.3         |
| Utah . . . . .         | 55.7                             | 56.5         | 26.1         | 22.5         | 81.8         | 79.0         |
| Total . . . . .        | 185.8                            | 189.4        | 60.1         | 55.8         | 245.9        | 245.2        |
| <b>EASTERN</b>         |                                  |              |              |              |              |              |
| Carbon . . . . .       | 4.2                              | 4.3          | .7           | .6           | 4.9          | 4.9          |
| Daggett . . . . .      | 1.5                              | 1.7          | .3           | .2           | 1.8          | 1.9          |
| Duchesne . . . . .     | 26.0                             | 26.0         | 5.0          | 4.4          | 31.0         | 30.4         |
| Emery . . . . .        | 10.8                             | 10.6         | 2.1          | 2.0          | 12.9         | 12.6         |
| Grand . . . . .        | 2.0                              | 2.1          | .5           | .6           | 2.5          | 2.7          |
| San Juan . . . . .     | 8.0                              | 8.1          | 2.8          | 1.6          | 10.8         | 9.7          |
| Summit . . . . .       | 16.5                             | 15.6         | 1.5          | .9           | 18.0         | 16.5         |
| Uintah . . . . .       | 19.8                             | 20.2         | 4.1          | 3.9          | 23.9         | 24.1         |
| Wasatch . . . . .      | 9.5                              | 9.9          | 1.4          | 1.3          | 10.9         | 11.2         |
| Total . . . . .        | 98.3                             | 98.5         | 18.4         | 15.5         | 116.7        | 114.0        |
| <b>SOUTHERN</b>        |                                  |              |              |              |              |              |
| Beaver . . . . .       | 16.0                             | 17.1         | 4.0          | 3.9          | 20.0         | 21.0         |
| Garfield . . . . .     | 8.0                              | 7.7          | 1.7          | 1.2          | 9.7          | 8.9          |
| Iron . . . . .         | 12.2                             | 12.1         | 9.6          | 9.7          | 21.8         | 21.8         |
| Kane . . . . .         | 3.9                              | 4.0          | .4           | .4           | 4.3          | 4.4          |
| Piute . . . . .        | 6.8                              | 7.0          | 1.1          | 1.0          | 7.9          | 8.0          |
| Washington . . . . .   | 7.6                              | 7.6          | 5.8          | 6.0          | 13.4         | 13.6         |
| Wayne . . . . .        | 9.1                              | 8.6          | 1.6          | 1.5          | 10.7         | 10.1         |
| Total . . . . .        | 63.6                             | 64.1         | 24.2         | 23.7         | 87.8         | 87.8         |
| <b>STATE . . . . .</b> | <b>567.1</b>                     | <b>576.1</b> | <b>188.2</b> | <b>178.7</b> | <b>755.3</b> | <b>754.8</b> |

# UTAH CASH RECEIPTS FROM FARMING

## By Counties, 1991



**COUNTY ESTIMATES: Utah Mink Pelts Produced 1989-90,  
Females Bred to Produce Kits 1990-91 1/**

| County                 | Pelts Produced |                | Females Bred to Produce Kits |                |
|------------------------|----------------|----------------|------------------------------|----------------|
|                        | 1989           | 1990           | 1990                         | 1991           |
|                        | Number         |                |                              |                |
| <b>NORTHERN</b>        |                |                |                              |                |
| Cache . . . . .        | 94,500         | 77,000         | 19,500                       | 20,000         |
| Morgan . . . . .       | 168,000        | 170,000        | 44,000                       | 44,000         |
| Salt Lake . . . . .    | 98,000         | 55,000         | 17,000                       | 15,000         |
| Other . . . . .        | 19,500         | 13,000         | 5,500                        | 4,000          |
| Total . . . . .        | 380,000        | 315,000        | 86,000                       | 83,000         |
| <b>CENTRAL</b>         |                |                |                              |                |
| Utah . . . . .         | 257,000        | 221,000        | 59,500                       | 55,000         |
| Other . . . . .        | 13,000         | 14,000         | 3,500                        | 4,000          |
| Total . . . . .        | 270,000        | 235,000        | 63,000                       | 59,000         |
| <b>EASTERN</b>         |                |                |                              |                |
| Summit . . . . .       | 126,000        | 126,000        | 39,000                       | 37,000         |
| Other . . . . .        | 4,000          | 4,000          | 1,000                        | 1,000          |
| Total . . . . .        | 130,000        | 130,000        | 40,000                       | 38,000         |
| <b>STATE . . . . .</b> | <b>780,000</b> | <b>680,000</b> | <b>189,000</b>               | <b>180,000</b> |

1/ Pelt estimates for 1991 not available until after July 19, 1992.



**1987 CENSUS OF AGRICULTURE: Farms, Land in Farms, and Selected Items,  
by County, Utah 1/**

| County                 | Number of Farms | Land in Farms    | Average Size of Farms | Total Cropland   | Harvested Cropland | Irrigated Land   | Value of Land & Buildings |                  |
|------------------------|-----------------|------------------|-----------------------|------------------|--------------------|------------------|---------------------------|------------------|
|                        |                 |                  |                       |                  |                    |                  | Average per Farm          | Average per Acre |
|                        | Number          | -----            | -----                 | Acres            | -----              | -----            | -----                     | Dollars          |
| <b><u>NORTHERN</u></b> |                 |                  |                       |                  |                    |                  |                           |                  |
| Box Elder . . .        | 1,088           | 1,584,194        | 1,456                 | 368,367          | 170,579            | 106,686          | 408,718                   | 282              |
| Cache . . . . .        | 1,223           | 324,105          | 265                   | 171,545          | 113,433            | 83,771           | 213,371                   | 814              |
| Davis . . . . .        | 647             | 63,244           | 98                    | 30,376           | 20,783             | 24,539           | 192,927                   | 2,242            |
| Morgan . . . . .       | 261             | 283,105          | 1,085                 | 22,662           | 12,508             | 10,369           | 437,395                   | 408              |
| Rich . . . . .         | 166             | 514,768          | 3,101                 | 75,404           | 51,443             | 53,998           | 872,331                   | 283              |
| Salt Lake . . .        | 734             | 155,398          | 212                   | 39,582           | 19,726             | 16,030           | 358,488                   | 1,580            |
| Tooele . . . . .       | 299             | 487,427          | 1,630                 | (D)              | 19,563             | 18,972           | 417,270                   | 254              |
| Weber . . . . .        | 891             | 199,496          | 224                   | 46,342           | 28,239             | 31,523           | 187,487                   | 816              |
| <b><u>CENTRAL</u></b>  |                 |                  |                       |                  |                    |                  |                           |                  |
| Juab . . . . .         | 215             | 273,876          | 1,274                 | 69,471           | 30,413             | 22,609           | 324,549                   | 281              |
| Millard . . . . .      | 630             | 480,195          | 762                   | 176,482          | 98,835             | 93,419           | 327,938                   | 422              |
| Sanpete . . . .        | 761             | 447,526          | 588                   | 98,500           | 53,623             | 110,744          | 298,264                   | 512              |
| Sevier . . . . .       | 476             | 161,495          | 339                   | 49,586           | 32,946             | 43,475           | 224,653                   | 667              |
| Utah . . . . .         | 1,723           | 493,902          | 287                   | 135,352          | 87,089             | 78,659           | 255,683                   | 925              |
| <b><u>EASTERN</u></b>  |                 |                  |                       |                  |                    |                  |                           |                  |
| Carbon . . . . .       | 210             | 223,549          | 1,065                 | 16,541           | 5,760              | 9,051            | 332,752                   | 304              |
| Daggett . . . . .      | 36              | 25,120           | 698                   | 9,344            | 5,905              | 8,237            | 276,528                   | 396              |
| Duchesne . . .         | 753             | 366,471          | 487                   | 106,703          | 48,646             | 97,174           | 214,971                   | 418              |
| Emery . . . . .        | 446             | 215,761          | 484                   | 52,448           | 20,409             | 38,935           | 208,348                   | 442              |
| Grand . . . . .        | 81              | 169,325          | 2,090                 | (D)              | 3,012              | 4,397            | 425,481                   | 204              |
| San Juan . . . .       | 218             | 340,449          | 1,562                 | 117,780          | 51,655             | 8,544            | 425,005                   | 257              |
| Summit . . . . .       | 439             | 348,827          | 795                   | 40,965           | 20,451             | 29,429           | 328,770                   | 464              |
| Uintah . . . . .       | 693             | 1,318,672        | 1,903                 | (D)              | 39,616             | 75,958           | 325,257                   | 166              |
| Wasatch . . . .        | 298             | 159,854          | 536                   | 20,381           | 11,809             | 16,955           | 310,829                   | 517              |
| <b><u>SOUTHERN</u></b> |                 |                  |                       |                  |                    |                  |                           |                  |
| Beaver . . . . .       | 226             | 187,041          | 828                   | 37,081           | 29,118             | 34,959           | 281,522                   | 386              |
| Garfield . . . .       | 263             | 138,559          | 527                   | 31,772           | 13,180             | 22,852           | 336,586                   | 530              |
| Iron . . . . .         | 380             | 483,118          | 1,271                 | 73,793           | 48,183             | 61,710           | 493,879                   | 386              |
| Kane . . . . .         | 152             | 207,495          | 1,365                 | 17,766           | 3,038              | 7,742            | 414,454                   | 320              |
| Piute . . . . .        | 126             | 56,310           | 447                   | 21,600           | 12,482             | 17,710           | 271,976                   | 577              |
| Washington . .         | 414             | 178,169          | 430                   | 28,188           | 9,641              | 14,467           | 346,392                   | 730              |
| Wayne . . . . .        | 217             | 101,622          | 468                   | 23,184           | 14,801             | 18,293           | 276,111                   | 586              |
| <b>STATE TOTAL</b>     | <b>14,066</b>   | <b>9,989,073</b> | <b>710</b>            | <b>2,028,537</b> | <b>1,076,886</b>   | <b>1,161,207</b> | <b>302,838</b>            | <b>425</b>       |

(D) - Withheld to avoid disclosing data for individual farms.

1/ Source: 1987 Census of Agriculture, U.S. Department of Commerce, Bureau of the Census.

**1987 CENSUS OF AGRICULTURE: Number of Farms by Value of Sales,  
by County, Utah 1/**

| County               | Under<br>\$2,500 | \$2,500<br>to<br>\$4,999 | \$5,500<br>to<br>\$9,999 | \$10,000<br>to<br>\$24,999 | \$25,000<br>to<br>\$49,999 | \$50,000<br>to<br>\$99,000 | \$100,000<br>Plus |
|----------------------|------------------|--------------------------|--------------------------|----------------------------|----------------------------|----------------------------|-------------------|
| Number of Farms      |                  |                          |                          |                            |                            |                            |                   |
| <u>NORTHERN</u>      |                  |                          |                          |                            |                            |                            |                   |
| Box Elder . . . . .  | 241              | 116                      | 134                      | 205                        | 129                        | 104                        | 159               |
| Cache . . . . .      | 326              | 132                      | 156                      | 202                        | 122                        | 97                         | 188               |
| Davis . . . . .      | 288              | 92                       | 74                       | 76                         | 33                         | 33                         | 51                |
| Morgan . . . . .     | 95               | 37                       | 22                       | 40                         | 16                         | 10                         | 41                |
| Rich . . . . .       | 14               | 13                       | 18                       | 41                         | 23                         | 25                         | 32                |
| Salt Lake . . . . .  | 354              | 126                      | 97                       | 58                         | 29                         | 31                         | 39                |
| Tooele . . . . .     | 106              | 43                       | 47                       | 47                         | 26                         | 13                         | 17                |
| Weber . . . . .      | 397              | 134                      | 106                      | 107                        | 40                         | 40                         | 67                |
| <u>CENTRAL</u>       |                  |                          |                          |                            |                            |                            |                   |
| Juab . . . . .       | 48               | 20                       | 35                       | 52                         | 27                         | 13                         | 20                |
| Millard . . . . .    | 94               | 52                       | 93                       | 129                        | 105                        | 69                         | 88                |
| Sanpete . . . . .    | 156              | 82                       | 109                      | 134                        | 88                         | 64                         | 128               |
| Sevier . . . . .     | 102              | 59                       | 73                       | 94                         | 61                         | 50                         | 37                |
| Utah . . . . .       | 697              | 271                      | 198                      | 229                        | 89                         | 87                         | 152               |
| <u>EASTERN</u>       |                  |                          |                          |                            |                            |                            |                   |
| Carbon . . . . .     | 100              | 36                       | 32                       | 27                         | 2                          | 5                          | 8                 |
| Daggett . . . . .    | 5                | 3                        | 5                        | 8                          | 4                          | 9                          | 2                 |
| Duchesne . . . . .   | 205              | 95                       | 112                      | 138                        | 93                         | 63                         | 47                |
| Emery . . . . .      | 133              | 77                       | 67                       | 85                         | 43                         | 29                         | 12                |
| Grand . . . . .      | 39               | 10                       | 8                        | 12                         | 5                          | 3                          | 4                 |
| San Juan . . . . .   | 52               | 15                       | 29                       | 38                         | 32                         | 22                         | 30                |
| Summit . . . . .     | 126              | 69                       | 67                       | 70                         | 39                         | 24                         | 44                |
| Uintah . . . . .     | 240              | 137                      | 83                       | 112                        | 53                         | 33                         | 35                |
| Wasatch . . . . .    | 110              | 53                       | 38                       | 40                         | 18                         | 17                         | 22                |
| <u>SOUTHERN</u>      |                  |                          |                          |                            |                            |                            |                   |
| Beaver . . . . .     | 47               | 22                       | 19                       | 30                         | 18                         | 40                         | 50                |
| Garfield . . . . .   | 68               | 33                       | 47                       | 48                         | 34                         | 20                         | 13                |
| Iron . . . . .       | 78               | 47                       | 45                       | 65                         | 42                         | 43                         | 60                |
| Kane . . . . .       | 42               | 20                       | 30                       | 33                         | 16                         | 6                          | 5                 |
| Piute . . . . .      | 20               | 9                        | 20                       | 30                         | 22                         | 12                         | 13                |
| Washington . . . . . | 166              | 66                       | 54                       | 65                         | 29                         | 22                         | 12                |
| Wayne . . . . .      | 31               | 25                       | 36                       | 57                         | 34                         | 21                         | 13                |
| <b>STATE TOTAL</b>   | <b>4,380</b>     | <b>1,894</b>             | <b>1,854</b>             | <b>2,272</b>               | <b>1,272</b>               | <b>1,005</b>               | <b>1,389</b>      |

1/ Source: 1987 Census of Agriculture, U.S. Department of Commerce, Bureau of the Census.

**1987 CENSUS OF AGRICULTURE: Number of Farms by Total Land in Farms,  
by County, Utah 1/**

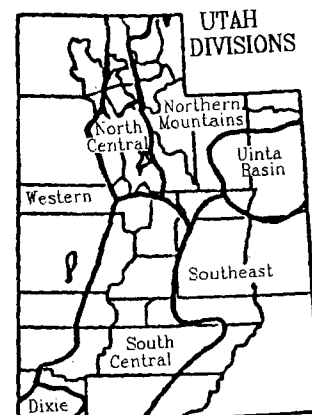
| County             | 1 - 9<br>Acres | 10 - 49<br>Acres | 50 - 179<br>Acres | 180 - 499<br>Acres | 500 - 999<br>Acres | 1,000 Plus<br>Acres |
|--------------------|----------------|------------------|-------------------|--------------------|--------------------|---------------------|
| Number of Farms    |                |                  |                   |                    |                    |                     |
| <u>NORTHERN</u>    |                |                  |                   |                    |                    |                     |
| Box Elder . . . .  | 152            | 234              | 270               | 164                | 86                 | 182                 |
| Cache . . . . .    | 168            | 331              | 371               | 256                | 62                 | 35                  |
| Davis . . . . .    | 205            | 256              | 126               | 44                 | 9                  | 7                   |
| Morgan . . . . .   | 37             | 97               | 51                | 40                 | 8                  | 28                  |
| Rich . . . . .     | 16             | 16               | 23                | 28                 | 23                 | 60                  |
| Salt Lake . . . .  | 353            | 244              | 85                | 28                 | 7                  | 17                  |
| Tooele . . . . .   | 38             | 84               | 57                | 33                 | 34                 | 53                  |
| Weber . . . . .    | 218            | 405              | 176               | 57                 | 20                 | 15                  |
| <u>CENTRAL</u>     |                |                  |                   |                    |                    |                     |
| Juab . . . . .     | 13             | 32               | 44                | 49                 | 26                 | 51                  |
| Millard . . . . .  | 43             | 78               | 167               | 150                | 95                 | 97                  |
| Sanpete . . . . .  | 73             | 156              | 246               | 153                | 69                 | 64                  |
| Sevier . . . . .   | 49             | 141              | 162               | 89                 | 12                 | 23                  |
| Utah . . . . .     | 475            | 655              | 360               | 129                | 51                 | 53                  |
| <u>EASTERN</u>     |                |                  |                   |                    |                    |                     |
| Carbon . . . . .   | 31             | 56               | 48                | 32                 | 10                 | 33                  |
| Daggett . . . . .  | 4              | 0                | 10                | 5                  | 8                  | 9                   |
| Duchesne . . . .   | 56             | 149              | 232               | 170                | 87                 | 59                  |
| Emery . . . . .    | 24             | 97               | 134               | 105                | 43                 | 43                  |
| Grand . . . . .    | 19             | 26               | 12                | 10                 | 5                  | 9                   |
| San Juan . . . . . | 12             | 22               | 27                | 29                 | 29                 | 99                  |
| Summit . . . . .   | 69             | 98               | 116               | 61                 | 31                 | 64                  |
| Uintah . . . . .   | 62             | 206              | 200               | 115                | 52                 | 58                  |
| Wasatch . . . . .  | 39             | 107              | 90                | 38                 | 9                  | 15                  |
| <u>SOUTHERN</u>    |                |                  |                   |                    |                    |                     |
| Beaver . . . . .   | 26             | 43               | 58                | 48                 | 21                 | 30                  |
| Garfield . . . . . | 23             | 56               | 74                | 61                 | 20                 | 29                  |
| Iron . . . . .     | 40             | 70               | 64                | 67                 | 46                 | 93                  |
| Kane . . . . .     | 10             | 20               | 20                | 30                 | 22                 | 50                  |
| Piute . . . . .    | 8              | 15               | 34                | 36                 | 17                 | 16                  |
| Washington . . .   | 89             | 92               | 96                | 57                 | 33                 | 47                  |
| Wayne . . . . .    | 13             | 49               | 84                | 53                 | 6                  | 12                  |
| <b>STATE TOTAL</b> | <b>2,365</b>   | <b>3,835</b>     | <b>3,437</b>      | <b>2,137</b>       | <b>941</b>         | <b>1,351</b>        |

1/ Source: 1987 Census of Agriculture, U.S. Department of Commerce, Bureau of the Census.

# Weather

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In a table below, monthly precipitation distribution, as percent of normal, is given for each of the seven climatic divisions. A similar table is presented for temperature departures. The portion of the State that lies within each climatic division can be determined by referring to the map at the right.



**Precipitation Summary:** Overall annual precipitation totals for 1991 reflected near or above normal percentages. The driest months were January, February, July and December for all divisions except the Southeast which did not hold to this pattern except for February. In March the southern and eastern portions of the state were wetter than normal with Dixie recording 213% of normal. In April and May the northern half of the state generally was wetter than normal and the southern half dryer than normal. There were four months - August through November - in which most divisions recorded higher than normal precipitation totals. September was the wettest month with all divisions reporting 148% of normal or higher.

## PRECIPITATION, Percent of Normal, by Climatic Division, 1991

| Division        | Month |     |     |     |     |     |     |     |     |     |     |     |
|-----------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                 | Jan   | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| Western . . . . | 81    | 42  | 70  | 112 | 204 | 113 | 56  | 114 | 169 | 174 | 136 | 70  |
| Dixie . . . . . | 60    | 44  | 213 | 11  | 41  | 78  | 53  | 60  | 217 | 132 | 73  | 89  |
| No. Central . . | 69    | 62  | 97  | 127 | 191 | 82  | 51  | 131 | 220 | 159 | 172 | 48  |
| So. Central . . | 61    | 39  | 132 | 74  | 153 | 67  | 58  | 121 | 142 | 137 | 123 | 52  |
| N. Mountains .  | 53    | 38  | 119 | 118 | 164 | 116 | 72  | 144 | 194 | 136 | 149 | 24  |
| Uinta Basin . . | 39    | 38  | 109 | 116 | 76  | 96  | 93  | 105 | 148 | 78  | 91  | 41  |
| Southeast . . . | 106   | 31  | 177 | 31  | 61  | 78  | 99  | 102 | 185 | 92  | 163 | 124 |

**Temperature Summary:** Temperatures for 1991 followed a seesaw pattern throughout the year. January started off with colder than normal temperatures. The overall state average was -4.1. Temperatures switched to above normal in February, while March was warmer in the north and cooler in the South. April, May and June temperatures took a downward swing with below normal readings all across the state. This pattern reversed July through October with an upward swing in temperatures to warmer than normal. The year closed with lower than normal temperatures completing the seesaw pattern in November and December.

## MEAN TEMPERATURE, Departures from Normal, by Climatic Division, 1991

| Division        | Month |     |      |      |      |      |      |     |      |     |      |      |
|-----------------|-------|-----|------|------|------|------|------|-----|------|-----|------|------|
|                 | Jan   | Feb | Mar  | Apr  | May  | Jun  | Jul  | Aug | Sep  | Oct | Nov  | Dec  |
| Western . . . . | -5.1  | 2.7 | 0.3  | -1.6 | -2.9 | -1.0 | 0.8  | 2.0 | 0.0  | 0.2 | -0.6 | -4.1 |
| Dixie . . . . . | -2    | 6.8 | -2.9 | -0.5 | -2.4 | -2.0 | 0.9  | 1.4 | 1.9  | 2.5 | -0.3 | 0.4  |
| No. Central . . | -4.7  | 2.2 | 1.8  | -1.6 | -3.4 | -0.3 | 1.1  | 2.6 | -0.4 | 0.5 | -0.8 | -2.5 |
| So. Central . . | -4.1  | 3.8 | -0.7 | -1.7 | -3.0 | -1.1 | 0.7  | 1.0 | 0.2  | 0.6 | -1.1 | -0.9 |
| N. Mountains .  | -3.0  | 3.9 | 1.4  | -1.7 | -1.1 | 1.0  | 0.9  | 2.7 | 0.9  | 0.4 | -0.3 | -1.4 |
| Uinta Basin . . | -6.7  | 0.8 | 1.9  | -1.1 | -0.5 | 0.0  | -0.7 | 1.1 | 0.7  | 0.6 | -1.2 | -0.1 |
| Southeast . . . | -5.2  | 1.1 | -0.5 | -1.6 | -0.7 | -0.1 | -0.1 | 1.3 | 0.9  | 1.8 | -1.7 | -1.7 |

## FROST FREE PERIOD, Utah, 1991 and Normal (1931-60)

| Station                   | 1991                                      |  |                                    | Normal                                    |  |                                    |
|---------------------------|---|--|------------------------------------|---|--|------------------------------------|
|                           | Last Spring<br>Minimum of<br>32° or Below | First Fall<br>Minimum of<br>32° or Below | Number of<br>Days Between<br>Dates | Last Spring<br>Minimum of<br>32° or Below | First Fall<br>Minimum of<br>32° or Below | Number of<br>Days Between<br>Dates |
| <b>WESTERN</b>            |   |  |                                    |   |  |                                    |
| Delta .....               | May 19                                    | Oct 05                                   | 139                                | May 11                                    | Sep 30                                   | 142                                |
| Milford .....             | May 20                                    | Oct 06                                   | 139                                | May 18                                    | Sep 26                                   | 131                                |
| Modena .....              | Jun 28                                    | Sep 16                                   | 80                                 | May 21                                    | Sep 28                                   | 130                                |
| Snowville .....           | Jun 15                                    | Oct 04                                   | 111                                | Jun 05                                    | Sep 06                                   | 93                                 |
| Wendover .....            | Apr 18                                    | Oct 24                                   | 189                                | Apr 21                                    | Oct 23                                   | 186                                |
| <b>DIXIE</b>              |   |  |                                    |   |  |                                    |
| St. George .....          | Mar 28                                    | Oct 31                                   | 217                                | Apr 01                                    | Nov 10                                   | 223                                |
| Zion Nat'l Park .....     | Apr 28                                    | Oct 28                                   | 183                                | Apr 06                                    | Nov 07                                   | 215                                |
| <b>NORTH CENTRAL</b>      |   |  |                                    |   |  |                                    |
| Corinne .....             | May 11                                    | Sep 22                                   | 134                                | May 14                                    | Sep 28                                   | 138                                |
| Elberta .....             | May 19                                    | Oct 05                                   | 139                                | May 14                                    | Sep 30                                   | 140                                |
| Farmington USU .....      | Apr 28                                    | Oct 24                                   | 179                                | May 04                                    | Oct 12                                   | 161                                |
| Logan USU .....           | May 03                                    | Oct 24                                   | 174                                | May 08                                    | Oct 13                                   | 159                                |
| Ogden Pioneer PH .....    | Apr 30                                    | Oct 05                                   | 158                                | May 01                                    | Oct 14                                   | 167                                |
| SLC Airport .....         | Apr 27                                    | Oct 24                                   | 180                                | May 03                                    | Oct 11                                   | 161                                |
| Tooele .....              | May 12                                    | Oct 05                                   | 146                                | Apr 28                                    | Oct 24                                   | 179                                |
| Trenton .....             | May 19                                    | M  | M                                  | May 31                                    | Sep 12                                   | 104                                |
| Utah Lake Lehi .....      | May 05                                    | Oct 05                                   | 153                                | May 18                                    | Sep 28                                   | 134                                |
| <b>SOUTH CENTRAL</b>      |   |  |                                    |   |  |                                    |
| Cedar City FAA .....      | May 12                                    | Oct 24                                   | 165                                | May 17                                    | Sep 30                                   | 136                                |
| Fillmore .....            | Apr 30                                    | Oct 24                                   | 177                                | May 04                                    | Oct 11                                   | 160                                |
| Kanab PH .....            | May 12                                    | Oct 28                                   | 169                                | May 06                                    | Oct 13                                   | 160                                |
| Levan .....               | May 19                                    | Oct 05                                   | 139                                | May 16                                    | Oct 03                                   | 140                                |
| Loa .....                 | M   | M  | M                                  | Jun 22                                    | Aug 29                                   | 68                                 |
| Manti .....               | May 12                                    | Oct 05                                   | 146                                | May 24                                    | Sep 28                                   | 128                                |
| Nephi .....               | May 20                                    | Sep 23                                   | 126                                | May 11                                    | Oct 02                                   | 145                                |
| Panguitch .....           | Jun 28                                    | Sep 12                                   | 76                                 | Jun 19                                    | Sep 03                                   | 76                                 |
| Richfield KSVC .....      | May 21                                    | Sep 16                                   | 118                                | May 28                                    | Sep 18                                   | 113                                |
| <b>NORTHERN MOUNTAINS</b> |   |  |                                    |   |  |                                    |
| Coalville .....           | M   | M  | M                                  | Jun 16                                    | Aug 29                                   | 74                                 |
| Heber .....               | May 20                                    | Sep 15                                   | 118                                | Jun 11                                    | Sep 03                                   | 84                                 |
| Morgan .....              | May 18                                    | Sep 15                                   | 120                                | Jun 05                                    | Sep 08                                   | 96                                 |
| Olmstead PH .....         | May 12                                    | Oct 24                                   | 165                                | May 23                                    | Sep 30                                   | 130                                |
| Scofield .....            | M   | M  | M                                  | Jun 29                                    | Aug 25                                   | 57                                 |
| Silver Lk Brighton .....  | Jun 15                                    | Sep 13                                   | 90                                 | Jul 05                                    | Aug 07                                   | 53                                 |
| Woodruff .....            | Jun 15                                    | Sep 13                                   | 90                                 | Jun 27                                    | Aug 23                                   | 57                                 |
| <b>UINTA BASIN</b>        |   |  |                                    |   |  |                                    |
| Duchesne .....            | M   | M  | M                                  | May 28                                    | Sep 20                                   | 115                                |
| Fort Duchesne .....       | May 13                                    | Oct 08                                   | 148                                | May 26                                    | Sep 16                                   | 114                                |
| Jensen .....              | May 13                                    | Sep 15                                   | 125                                | May 24                                    | Sep 14                                   | 113                                |
| <b>SOUTHEAST</b>          |   |  |                                    |   |  |                                    |
| Blanding .....            | May 05                                    | Oct 28                                   | 176                                | May 15                                    | Oct 06                                   | 144                                |
| Ferron .....              | May 12                                    | Oct 05                                   | 146                                | May 15                                    | Oct 06                                   | 144                                |
| Hanksville .....          | May 12                                    | Oct 05                                   | 146                                | Apr 22                                    | Oct 20                                   | 182                                |
| Moab 4 NW .....           | Apr 13                                    | Oct 31                                   | 201                                | Apr 21                                    | Oct 21                                   | 183                                |
| Price Warehouse .....     | M   | M  | M                                  | May 12                                    | Oct 05                                   | 147                                |

Source: Utah State Climatologist, Utah State University, Logan, Utah 84322-4825.

M-Missing data. E-Estimated data.

## MEAN MONTHLY TEMPERATURE (°F), Utah, 1991

| Station                   | Jan  | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   | Annual |
|---------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| <b>WESTERN</b>            |      |       |       |       |       |       |       |       |       |       |       |       |        |
| Delta                     | 17.5 | 33.5A | 40.4  | 46.3  | 53.1  | 65.7  | 75.4  | 74.8  | 62.6  | 51.0  | 37.4  | 27.0  | 48.7A  |
| Milford WSO               | 20.5 | 34.9A | 39.5  | 46.2  | 54.3  | 64.9  | 74.9  | M     | M     | 51.6  | M     | M     | M      |
| Modena                    | 26.4 | 37.3A | 36.5  | 43.8  | 51.3  | 62.1  | 71.8  | 70.1  | 63.0  | 52.3  | 37.1  | 27.9  | 48.3A  |
| Snowville                 | 16.7 | 29.9A | 36.8  | 41.2A | 47.5A | 65.0A | 75.9  | 73.6  | 62.3  | 47.3  | M     | M     | M      |
| Wendover                  | 24.4 | 36.1A | 42.0  | 47.9  | 56.9  | 68.9  | 80.4  | 78.0A | 65.5A | 52.9A | 37.7A | 24.9A | 51.3A  |
| <b>DIXIE</b>              |      |       |       |       |       |       |       |       |       |       |       |       |        |
| St. George                | 39.9 | 51.1A | 49.5  | 59.3  | 66.1A | 76.9  | 86.5  | 84.8  | 76.9  | M     | M     | M     | M      |
| Zion Nat'l Park           | 39.7 | 52.5A | 45.8A | 55.8  | 63.8  | 75.0  | 85.0  | 83.4  | 76.6  | 67.0  | 49.5  | 42.4  | 61.4A  |
| <b>NORTH CENTRAL</b>      |      |       |       |       |       |       |       |       |       |       |       |       |        |
| Corinne                   | 21.2 | 32.3A | 40.5  | 46.1  | 52.7  | 64.4  | 74.0  | 73.4  | 60.8  | 50.2  | 35.6  | 26.9  | 48.2A  |
| Elberta                   | 21.5 | 36.0A | 41.9  | 47.0  | 53.8  | 67.1  | 76.2  | 75.4  | 62.8  | 52.1  | M     | M     | M      |
| Farmington USU            | 28.5 | 33.8  | 41.8  | 49.5  | 58.2  | 67.8  | 76.0  | 73.9  | 64.2  | 51.8  | 39.8  | 29.3  | 51.2   |
| Logan USU                 | 19.6 | 30.4A | 39.1  | 44.2A | 51.5  | 64.0  | 74.1  | 74.7  | 62.2A | 51.4  | 34.6  | 21.8  | 47.3A  |
| Ogden Pioneer PH          | 25.8 | 38.0  | 43.3  | 48.7  | 56.2  | 68.9  | 78.6  | 78.0  | 65.3  | 54.6  | 39.1  | 30.0  | 52.2   |
| SLC Airport               | 24.4 | 36.5A | 42.8  | 48.0  | 55.6  | 68.4  | 79.1  | 78.5  | 64.4  | 53.7  | 40.0  | 30.0  | 51.8A  |
| Tooele                    | 25.1 | 36.7  | 39.8  | 44.5  | 52.5  | 65.3  | 77.2  | 75.2  | 62.4  | 51.6  | 35.3  | 25.2  | 49.2   |
| Trénton                   | 15.7 | 25.2A | 37.3  | 42.7  | 50.4  | 61.2  | M     | M     | M     | M     | M     | M     | M      |
| Utah Lake Lehi            | 20.5 | 33.0A | 38.8  | 44.3  | 52.8  | 63.8  | 73.0  | 72.7  | 60.8  | 50.5A | 35.6  | 27.4  | 47.8A  |
| <b>SOUTH CENTRAL</b>      |      |       |       |       |       |       |       |       |       |       |       |       |        |
| Cedar City FAA            | 25.3 | 38.2A | 37.3  | 45.1  | 53.0  | 65.3  | 74.0  | 72.9  | 64.2  | 52.4  | 37.2  | 31.1  | 49.7A  |
| Fillmore                  | 23.0 | 37.8A | 41.2  | 47.3  | 55.6  | 66.9  | 75.4  | 74.1  | 63.9  | 53.8  | 39.3  | 27.0  | 50.4A  |
| Kanab PH                  | 34.2 | 45.0A | 40.9  | 49.3  | 57.4  | 67.3  | 76.7  | 75.4  | 68.4  | 58.7  | 43.4A | 36.4  | 54.4A  |
| Levan                     | 21.9 | 35.0A | 38.9  | 44.9  | 52.4  | 65.6  | 76.3  | 75.6A | 63.2  | 53.8  | 37.6A | 27.8  | 49.4A  |
| Loa                       | 19.6 | 32.4  | M     | M     | M     | M     | M     | 63.4  | 55.7  | 46.4  | 31.4  | 22.4  | M      |
| Manti                     | 21.8 | 34.9A | 37.1  | 42.9  | 51.2  | 62.6  | 71.1  | 69.2  | 60.3  | 50.2  | 36.8  | 28.6  | 47.2A  |
| Nephi                     | 25.7 | 37.4A | 40.4  | 46.3  | 53.8  | 66.2  | 75.0  | 74.0  | 63.2  | 52.6  | 40.2  | 30.8  | 50.5A  |
| Panguitch                 | 22.0 | 33.9A | 33.4  | 40.0  | 49.6  | 58.0  | 66.1  | 64.5  | 57.0  | 46.5  | 32.4  | 24.0  | 44.0A  |
| Richfield KSVC            | 21.0 | 35.1A | 39.8  | 44.8  | 52.6  | 63.3  | 70.6  | 69.7  | 60.2  | 50.0  | 38.3  | 30.0  | 48.0A  |
| <b>NORTHERN MOUNTAINS</b> |      |       |       |       |       |       |       |       |       |       |       |       |        |
| Heber                     | 18.1 | 28.7A | 37.4  | 43.0  | 51.2  | 61.3  | 70.0  | 69.4  | 59.1  | 48.2  | 35.4A | 24.9  | 45.6A  |
| Morgan                    | 18.4 | 30.3A | 37.9  | 43.9  | 51.7  | 61.6A | 70.1  | 70.4  | 59.2  | 46.5  | 35.8A | 24.2  | 45.8A  |
| Olmstead PH               | 26.3 | 39.0A | 41.9  | M     | 56.0A | 67.0  | 76.5A | 74.7  | 64.4  | 54.0  | 38.7A | 29.9A | M      |
| Scofield Mine             | 18.8 | 27.6  | 23.6  | 32.0  | 40.9  | 52.2  | 60.7  | 58.1  | 50.0  | 41.3  | 26.5  | 24.1  | 38.0   |
| Silver Lk Brighton        | 18.1 | 26.9A | 23.0  | 29.2  | 38.1  | 50.2  | 58.7  | 57.4  | 48.6  | 39.0  | 25.3  | 22.3  | 36.4A  |
| Woodruff                  | 11.4 | 24.1A | 31.3A | 37.3  | 45.8  | 56.1  | 63.2  | 62.7  | 52.5  | 40.8  | 28.1  | 13.5  | 38.9A  |
| <b>UINTA BASIN</b>        |      |       |       |       |       |       |       |       |       |       |       |       |        |
| Duchesne                  | 11.4 | 27.2  | 37.1  | 45.1  | 54.2  | 63.1  | 69.8  | 68.5  | 60.0  | 48.9  | 32.7  | 20.4  | 44.9   |
| Fort Duchesne             | M    | M     | 37.3  | 46.3  | 56.1  | 66.2  | 72.5  | 71.8  | 62.1  | 50.8  | 32.6  | 21.2  | M      |
| Jensen                    | 9.1  | 22.9A | 38.9  | 45.9  | 57.3  | 65.2  | 71.4  | 70.0  | 61.1  | 48.3  | 33.6  | 21.0  | 45.4A  |
| <b>SOUTHEAST</b>          |      |       |       |       |       |       |       |       |       |       |       |       |        |
| Blanding                  | 25.6 | 37.4A | 39.9  | 47.8  | 57.9  | 68.2  | 75.5  | 74.4  | 66.5  | 56.5  | 39.6  | 30.0  | 51.6A  |
| Ferron                    | 19.4 | 34.6A | 37.4  | 45.3  | 56.0  | 66.3  | 72.8  | 70.9  | 62.1  | 53.2  | 35.4  | 24.4  | 48.2A  |
| Hanksville                | 19.1 | 35.0A | 42.2A | 50.0  | 62.4A | 72.9  | 78.5  | 76.0  | 66.9  | 55.0  | 37.7A | 26.2  | 51.8A  |
| Moab 4 NW                 | 25.4 | 38.1A | 50.6  | 57.0  | 68.9A | 78.7  | 84.7  | 84.1A | 73.8A | 62.9A | M     | M     | M      |
| Price Warehouse           | 20.9 | 35.5A | 37.2  | 45.1A | 57.7A | M     | M     | M     | 64.8A | 53.6A | M     | M     | M      |

Source: Utah State Climatologist, Utah State University, Logan, Utah 84322-4825

A = For monthly, 1-9 days of data missing; for Annual, at least one month with 1-9 days of missing data.

M = For monthly, 10 or more days of data missing; for Annual, at least one month with 10 or more days of missing data.

## NORMAL MEAN MONTHLY TEMPERATURE (°F), Utah, 1961-90

| Station                   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   | Annual |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| <u>WESTERN</u>            |       |       |       |       |       |       |       |       |       |       |       |       |        |
| Delta                     | 24.3  | 32.2  | 40.2  | 48.0  | 57.5  | 67.3  | 75.1  | 72.8  | 62.5  | 50.9  | 37.6  | 26.4  | 49.6   |
| Milford WSO               | 25.5  | 32.0  | 38.7  | 46.4  | 55.6  | 65.8  | 73.8  | 71.9  | 61.9  | 49.8  | 37.3  | 27.1  | 48.8   |
| Modena                    | 27.7  | 33.4  | 39.6  | 46.6  | 55.3  | 65.1  | 72.0  | 70.3  | 61.2  | 50.6  | 38.4  | 28.8  | 49.1   |
| Snowville                 | 21.0  | 27.6  | 35.3  | 43.8  | 52.7  | 62.0  | 70.5  | 68.6  | 58.4  | 47.2  | 34.3  | 23.7  | 45.4   |
| Wendover                  | 26.8  | 33.7  | 42.2  | 50.7  | 60.8  | 70.5  | 79.8  | 76.6  | 65.5  | 52.0  | 38.5  | 27.7  | 52.0   |
| <u>DIXIE</u>              |       |       |       |       |       |       |       |       |       |       |       |       |        |
| St. George                | 40.2  | 46.5  | 53.0  | 60.5  | 70.0  | 79.3  | 85.6  | 83.5  | 74.9  | 63.1  | 49.9  | 40.6  | 62.3   |
| Zion Nat'l Park           | 40.2  | 45.0  | 49.7  | 57.5  | 67.1  | 77.5  | 83.9  | 81.5  | 74.2  | 63.4  | 49.8  | 41.1  | 60.9   |
| <u>NORTH CENTRAL</u>      |       |       |       |       |       |       |       |       |       |       |       |       |        |
| Corinne                   | 24.7  | 31.7  | 38.8  | 46.7  | 56.7  | 65.6  | 73.8  | 72.0  | 61.4  | 49.7  | 37.0  | 27.5  | 48.8   |
| Elberta                   | 26.1  | 32.3  | 40.6  | 48.5  | 57.6  | 67.4  | 75.6  | 73.2  | 63.7  | 51.7  | 38.9  | 28.2  | 50.3   |
| Farmington USU            | 28.5  | 33.7  | 41.7  | 49.7  | 58.3  | 68.2  | 76.1  | 73.9  | 64.3  | 52.1  | 39.8  | 29.3  | 51.3   |
| Logan USU                 | 23.4  | 28.5  | 37.0  | 46.2  | 55.5  | 64.4  | 72.9  | 71.4  | 61.2  | 50.0  | 36.9  | 25.7  | 47.8   |
| Ogden Pioneer PH          | 27.7  | 33.4  | 41.1  | 49.6  | 58.9  | 68.6  | 76.9  | 74.7  | 64.4  | 52.9  | 39.8  | 29.6  | 51.5   |
| SLC Airport               | 27.9  | 34.1  | 41.8  | 49.6  | 58.8  | 69.0  | 77.8  | 75.5  | 64.9  | 52.9  | 40.6  | 29.7  | 51.9   |
| Tooele                    | 28.3  | 33.7  | 40.5  | 48.6  | 57.9  | 67.6  | 75.8  | 73.5  | 63.4  | 51.6  | 39.2  | 29.6  | 50.8   |
| Trenton                   | 20.4  | 25.9  | 35.5  | 44.7  | 53.3  | 61.7  | 68.8  | 67.0  | 57.0  | 46.6  | 34.7  | 23.5  | 44.9   |
| Utah Lake Lehi            | 25.1  | 30.8  | 38.8  | 47.1  | 56.2  | 65.1  | 72.7  | 70.6  | 61.0  | 49.4  | 37.6  | 27.6  | 48.5   |
| <u>SOUTH CENTRAL</u>      |       |       |       |       |       |       |       |       |       |       |       |       |        |
| Cedar City FAA            | 29.5  | 34.6  | 40.1  | 47.5  | 56.5  | 66.7  | 74.1  | 72.0  | 63.0  | 51.7  | 39.7  | 30.7  | 50.5   |
| Fillmore                  | 27.9  | 34.2  | 41.3  | 48.8  | 57.7  | 67.4  | 75.4  | 73.3  | 64.2  | 52.3  | 39.6  | 29.2  | 50.9   |
| Kanab PH                  | 35.2  | 39.9  | 44.5  | 51.2  | 60.1  | 69.4  | 75.6  | 73.4  | 66.2  | 56.4  | 44.7  | 36.4  | 54.4   |
| Levan                     | 25.3  | 31.4  | 38.8  | 46.8  | 55.7  | 65.4  | 73.2  | 71.2  | 62.2  | 50.8  | 38.3  | 27.5  | 48.9   |
| Loa                       | 23.5  | 28.2  | 34.0  | 41.8  | 50.0  | 58.8  | 65.0  | 62.8  | 55.0  | 45.1  | 33.4  | 25.0  | 43.6   |
| Manti                     | 25.4  | 30.7  | 37.9  | 45.9  | 54.4  | 63.6  | 70.7  | 68.6  | 59.9  | 49.6  | 37.3  | 27.2  | 47.6   |
| Nephi                     | 27.5  | 33.0  | 40.1  | 48.1  | 57.2  | 67.0  | 75.1  | 73.1  | 63.4  | 51.9  | 39.5  | 29.3  | 50.5   |
| Panguitch                 | 24.0  | 29.0  | 35.0  | 42.4  | 50.5  | 59.2  | 65.7  | 63.6  | 56.1  | 46.2  | 34.5  | 25.8  | 44.3   |
| Richfield KSVC            | 27.0  | 33.0  | 39.6  | 46.9  | 55.2  | 64.1  | 70.9  | 68.9  | 60.4  | 49.7  | 37.9  | 28.5  | 48.5   |
| <u>NORTHERN MOUNTAINS</u> |       |       |       |       |       |       |       |       |       |       |       |       |        |
| Heber                     | 21.2  | 26.3  | 34.8  | 43.6  | 52.1  | 60.1  | 67.4  | 65.8  | 57.1  | 47.0  | 34.9  | 24.0  | 44.5   |
| Morgan                    | 22.7  | 27.7  | 36.1  | 44.8  | 53.5  | 62.0  | 69.4  | 67.4  | 58.1  | 47.7  | 35.2  | 24.7  | 45.8   |
| Olmstead PH               | 28.0  | 32.9  | 41.5  | 50.6  | 57.5  | 68.8  | 75.1  | 73.4  | 64.3  | 53.2  | 39.9  | 30.4  | 51.3   |
| Scofield Mine             | 20.6E | 23.4E | 27.8E | 36.3E | 42.5E | 53.9E | 59.9E | 58.2E | 49.4E | 40.0E | 28.0E | 20.5E | 38.4E  |
| Silver Lk Brighton        | 19.4  | 21.1  | 24.8  | 32.2  | 40.7  | 50.1  | 58.2  | 56.3  | 48.4  | 38.6  | 27.0  | 19.9  | 36.4   |
| Woodruff                  | 15.5  | 19.1  | 28.6  | 38.8  | 47.5  | 55.9  | 62.8  | 60.6  | 51.7  | 41.4  | 28.5  | 17.3  | 38.9   |
| <u>UINTA BASIN</u>        |       |       |       |       |       |       |       |       |       |       |       |       |        |
| Duchesne                  | 18.4  | 25.4  | 36.6  | 46.8  | 56.0  | 64.7  | 71.2  | 69.4  | 59.6  | 48.1  | 34.2  | 21.0  | 46.0   |
| Fort Duchesne             | 14.5  | 21.6  | 35.9  | 46.3  | 56.0  | 65.1  | 72.1  | 69.6  | 59.4  | 47.6  | 34.0  | 19.6  | 45.1   |
| Jensen                    | 14.9  | 22.8  | 36.4  | 47.0  | 56.7  | 65.2  | 72.0  | 69.4  | 60.0  | 48.2  | 33.7  | 19.4  | 45.5   |
| <u>SOUTHEAST</u>          |       |       |       |       |       |       |       |       |       |       |       |       |        |
| Blanding                  | 27.3  | 33.7  | 39.6  | 47.4  | 57.1  | 67.2  | 73.2  | 70.9  | 62.8  | 51.7  | 39.1  | 29.8  | 50.0   |
| Ferron                    | 22.8  | 29.4  | 37.5  | 46.7  | 56.2  | 65.6  | 72.4  | 69.9  | 61.2  | 50.1  | 36.6  | 25.5  | 47.8   |
| Hanksville                | 25.2  | 34.4  | 43.9  | 53.2  | 63.0  | 73.0  | 79.6  | 76.8  | 66.7  | 53.7  | 39.3  | 27.9  | 53.1   |
| Moab 4 NW                 | 30.0  | 38.6  | 48.1  | 56.9  | 66.0  | 75.2  | 81.6  | 79.5  | 70.2  | 57.6  | 44.4  | 33.3  | 56.8   |
| Price Warehouse           | 25.2  | 30.9  | 39.7  | 48.5  | 57.5  | 68.2  | 74.4  | 72.8  | 63.5  | 51.0  | 37.6  | 28.4  | 49.8   |

Source: Utah State Climatologist, Utah State University, Logan, Utah 84322-4825

E = Estimated data.

## TOTAL PRECIPITATION (INCHES), Utah, 1991

| Station                   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul  | Aug   | Sep   | Oct   | Nov   | Dec   | Annual |
|---------------------------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|--------|
| <u>WESTERN</u>            |       |       |       |       |       |       |      |       |       |       |       |       |        |
| Delta                     | 0.52  | 0.32A | 0.47  | 0.98  | 2.73  | 0.37  | 0.47 | 0.98  | 0.59  | 1.01  | 0.51  | 0.20  | 9.15A  |
| Milford                   | 0.72  | 0.07A | 0.74  | 0.79  | 1.78  | 0.27  | 0.32 | M     | M     | 2.03  | M     | M     | M      |
| Modena                    | 0.81  | 0.74A | 0.89  | 0.26  | 1.61  | 0.13  | 0.24 | 0.48  | 0.42  | 1.15  | 1.45  | 0.83  | 9.01A  |
| Snowville                 | 0.30  | 0.15A | 0.55  | 1.93  | 2.25  | 0.84A | 1.61 | 1.16A | 1.30  | 0.98  | M     | M     | M      |
| Wendover                  | 0.34  | 0.24A | 0.82  | 0.68  | 1.05  | 0.32  | 0.02 | 0.25  | 0.62  | M     | 0.05A | 0.03  | 4.42A  |
| <u>DIXIE</u>              |       |       |       |       |       |       |      |       |       |       |       |       |        |
| St. George                | 0.75  | 0.54A | 1.57  | 0.04  | 0.14A | 0.22  | 0.10 | 0.14  | 0.28A | M     | M     | 0.64  | M      |
| Zion Nat'l Park           | 1.03  | 0.91A | 4.52  | 0.12  | 0.31  | 0.16  | 0.72 | 0.95  | 1.03  | 0.99  | 1.01  | 1.09  | 12.84A |
| <u>NORTH CENTRAL</u>      |       |       |       |       |       |       |      |       |       |       |       |       |        |
| Corinne                   | 0.86A | 0.73A | 1.65  | 1.40  | 3.69  | 0.65  | 0.16 | 0.74  | 1.20  | 2.31  | 1.24  | 0.46  | 15.09A |
| Elberta                   | 0.49  | 0.33A | 0.84  | 1.35  | 3.01  | 0.41  | 0.42 | 0.78  | 1.14  | 0.91  | M     | M     | M      |
| Farmington USU            | 1.92  | 1.82  | 2.49  | 2.73  | 2.79  | 1.36  | 0.76 | 1.00  | 1.50  | 2.00  | 2.00  | 2.08  | 22.45  |
| Logan USU                 | 0.57  | 0.81A | 3.28  | 2.03  | 3.10  | 1.66  | 0.60 | 0.62  | 1.82  | 2.57  | 2.46  | 0.81  | 20.33A |
| Ogden Pioneer PH          | 2.32  | 2.30  | 2.29  | 3.39  | 5.45  | 1.37  | 0.10 | 0.56  | 5.37  | 3.23  | 2.28  | 0.73  | 29.39  |
| SLC Airport               | 1.11  | 0.61A | 1.11  | 2.71  | 2.76  | 1.09  | 0.32 | 0.86  | 2.55  | 2.10  | 2.17  | 0.40  | 17.79A |
| Tooele                    | 0.93  | 0.35  | 0.78  | 3.64  | 3.93  | 1.26  | 0.13 | 0.51  | 1.11  | 2.96  | 4.68  | 0.68  | 20.96  |
| Trenton                   | 0.65A | 0.23A | 1.39  | 2.17  | 3.14  | 0.60  | M    | M     | M     | M     | M     | M     | M      |
| Utah Lake Lehi            | 0.49  | 0.85A | 0.85  | 1.86  | 2.41  | 0.83  | 0.43 | 1.30  | 2.28  | 1.36  | 1.84  | 0.46  | 14.96A |
| <u>SOUTH CENTRAL</u>      |       |       |       |       |       |       |      |       |       |       |       |       |        |
| Cedar City FAA            | 0.82  | 0.29A | 0.61  | 0.42  | 1.60  | 0.34  | 0.38 | 0.56  | 1.14  | 2.24  | 1.12  | 0.30  | 9.82A  |
| Fillmore                  | 0.84  | 0.44A | 0.88  | 2.32  | 2.46  | 0.02  | 0.19 | 1.25  | 1.33  | 1.45  | 2.22  | 0.60  | 14.00A |
| Kanab PH                  | 0.88A | 0.63A | 3.46  | 0.05  | 0.23  | 0.11  | 1.18 | 1.03A | 2.35  | 0.66A | 0.73  | 1.11  | 12.42A |
| Levan                     | 0.55  | 0.43A | 1.30  | 2.17  | 2.51  | 0.08  | 0.09 | 0.78  | 1.28  | 1.87  | 1.58  | 0.42  | 13.06A |
| Loa                       | 0.53  | 0.03A | M     | M     | M     | M     | M    | 2.39  | 1.59  | 0.60  | 0.89A | 0.39  | M      |
| Manti                     | 0.53  | 0.27A | 1.30  | 1.18  | 2.15  | 0.06  | 0.24 | 1.87  | 1.38  | 0.99  | 1.10  | 0.25  | 11.32A |
| Nephi                     | 0.59A | 0.48A | 1.33  | 2.31  | 2.01  | 0.49  | 0.22 | 0.87A | 1.74  | 1.50A | 1.13  | 0.14  | 12.81A |
| Panguitch                 | 0.47  | 0.07A | 0.54  | 0.20  | 1.02  | 0.27  | 0.72 | 2.30  | 0.84  | 0.78  | 1.32  | 0.29  | 8.82A  |
| Richfield                 | 0.39A | 0.22A | 0.51  | 0.68  | 2.43  | 0.46  | 0.66 | 1.32  | 0.63  | 1.92  | 0.90  | 0.05  | 10.17A |
| <u>NORTHERN MOUNTAINS</u> |       |       |       |       |       |       |      |       |       |       |       |       |        |
| Heber                     | 1.12  | 0.47A | 2.42  | 1.47  | 2.06  | 1.02  | 0.22 | 1.57  | 1.65  | 1.72  | 1.43  | 0.34  | 15.49A |
| Morgan                    | 1.05  | 0.90A | 1.65  | 2.68  | 2.13  | 1.66  | 0.07 | 0.78  | 1.72  | 1.93  | 1.84  | 0.17A | 16.58A |
| Olmstead PH               | 1.67  | 1.09A | 1.45  | M     | 1.89  | 1.14  | 0.16 | 1.08  | 3.00  | 1.66  | 2.29  | 0.73  | M      |
| Scofield Mine             | 1.62  | 0.79  | 4.64  | 2.12  | 1.70  | 1.91  | 0.90 | 1.94  | 3.13  | 1.61  | 2.08  | 0.94  | 23.38  |
| Silver Lk Brighton        | 3.02  | 1.64A | 6.95  | 5.55  | 3.19  | 1.00  | 0.83 | 4.37  | 2.19A | 3.70  | 6.82  | 1.15  | 40.41A |
| Woodruff                  | 0.12  | 0.10A | 0.50  | 0.84  | 2.11  | 2.71  | 0.49 | 1.63  | 1.68  | 1.27  | 0.86  | 0.08  | 12.39A |
| <u>UINTA BASIN</u>        |       |       |       |       |       |       |      |       |       |       |       |       |        |
| Duchesne AP               | 0.31  | 0.16  | 0.70  | 0.55  | 1.43  | 0.97  | 1.12 | 1.67  | 0.96  | 0.54A | 0.72  | 0.20  | 9.33A  |
| Fort Duchesne             | 0.14  | M     | 0.23  | 0.30  | 0.07A | 0.56  | 0.03 | 0.59  | 1.00  | 0.58  | 0.06A | 0.28  | M      |
| Jensen                    | 0.22  | 0.30A | 0.56  | 1.26A | 0.25A | 0.68  | 0.33 | 0.34  | 0.70  | 0.71  | 0.43  | 0.30  | 6.08A  |
| <u>SOUTHEAST</u>          |       |       |       |       |       |       |      |       |       |       |       |       |        |
| Blanding                  | 1.22  | 0.45A | 1.40  | 0.01  | 0.49  | 0.05  | 1.20 | 1.18  | 1.32  | 1.41  | 1.58  | 1.43  | 11.74A |
| Ferron                    | 0.27  | 0.00A | 0.91  | 0.15  | 0.84  | 0.63  | 0.76 | 0.98  | 1.97  | 0.25  | 0.80  | 0.18  | 7.74A  |
| Hanksville                | 0.30  | 0.01A | 0.76  | 0.03  | 0.34  | 0.11  | 0.32 | 0.36  | 1.01  | 0.64  | 0.68  | 0.70  | 6.26A  |
| Moab 4 NW                 | 0.59A | 0.30A | 0.80  | 0.23  | 0.10A | 0.00  | 0.48 | 0.98  | 0.99  | 1.23A | M     | M     | M      |
| Price Warehouse           | 0.27  | 0.09A | 1.25A | 0.11  | 0.59  | 1.10M | 0.11 | 0.92A | 1.51  | 0.32A | 0.36  | M     | M      |

Source: Utah State Climatologist, Utah State University, Logan, Utah 84322-4825

A = For monthly, 1-9 days of data missing; for Annual, at least one month with 1-9 days of missing data.

M = For monthly, 10 or more days of data missing; for Annual, at least one month with 10 or more days of missing data.



## NORMAL PRECIPITATION (INCHES), Utah, 1961-90

| Station                   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   | Oct   | Nov   | Dec   | Annual |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| <b>WESTERN</b>            |       |       |       |       |       |       |       |       |       |       |       |       |        |
| Delta                     | .50   | .56   | .85   | .78   | .92   | .47   | .53   | .57   | .81   | .81   | .70   | .62   | 8.13   |
| Milford                   | .63   | .71   | 1.17  | 1.03  | .75   | .50   | .78   | .97   | .98   | .84   | .78   | .70   | 9.84   |
| Modena                    | .70   | .88   | .94   | .92   | .62   | .39   | 1.39  | 1.29  | 1.04  | .95   | .76   | .61   | 10.50  |
| Snowville                 | 1.02  | .87   | 1.08  | 1.21  | 1.73  | 1.11  | .86   | .74   | .91   | .96   | 1.23  | 1.06  | 12.79  |
| Wendover                  | .24   | .32   | .45   | .56   | .90   | .65   | .31   | .46   | .38   | .55   | .38   | .27   | 5.47   |
| <b>DIXIE</b>              |       |       |       |       |       |       |       |       |       |       |       |       |        |
| St. George                | 1.09  | .86   | 1.11  | .51   | .39   | .17   | .60   | .76   | .54   | .54   | .88   | .71   | 8.18   |
| Zion Nat'l Park           | 1.63  | 1.60  | 2.05  | 1.15  | .84   | .48   | 1.25  | 1.79  | 1.00  | .92   | 1.49  | 1.28  | 15.31  |
| <b>NORTH CENTRAL</b>      |       |       |       |       |       |       |       |       |       |       |       |       |        |
| Corinne                   | 1.66  | 1.70  | 1.66  | 1.77  | 1.80  | 1.50  | .79   | 1.02  | 1.60  | 1.88  | 1.49  | 1.76  | 18.63  |
| Elberta                   | .81   | .86   | 1.01  | 1.12  | 1.08  | .84   | .86   | .98   | .99   | 1.07  | .93   | .87   | 11.42  |
| Farmington USU            | 1.86  | 1.82  | 2.40  | 2.75  | 2.72  | 1.29  | .80   | .96   | 1.61  | 1.94  | 2.08  | 2.00  | 22.53  |
| Logan USU                 | 1.38  | 1.65  | 2.02  | 2.15  | 2.04  | 1.57  | .78   | .97   | 1.62  | 1.87  | 1.72  | 1.72  | 19.46  |
| Ogden Pioneer PH          | 1.99  | 1.92  | 2.32  | 2.63  | 2.51  | 1.56  | .83   | 1.01  | 1.73  | 1.93  | 2.06  | 2.13  | 22.62  |
| SLC Airport               | 1.11  | 1.23  | 1.91  | 2.12  | 1.80  | .93   | .81   | .86   | 1.28  | 1.44  | 1.29  | 1.40  | 16.20  |
| Tooele                    | 1.08  | 1.33  | 2.32  | 2.49  | 1.91  | 1.11  | .92   | .94   | 1.42  | 1.81  | 1.69  | 1.48  | 18.49  |
| Trenton                   | 1.35  | 1.47  | 1.66  | 1.96  | 2.04  | 1.46  | .76   | .87   | 1.39  | 1.63  | 1.56  | 1.40  | 17.85  |
| Utah Lake Lehi            | .93   | .88   | 1.19  | 1.27  | 1.13  | .74   | .69   | .94   | 1.06  | 1.18  | 1.13  | .82   | 11.96  |
| <b>SOUTH CENTRAL</b>      |       |       |       |       |       |       |       |       |       |       |       |       |        |
| Cedar City FAA            | .69   | .89   | 1.36  | 1.10  | .84   | .43   | 1.09  | 1.47  | .98   | .95   | 1.00  | .70   | 11.49  |
| Fillmore                  | 1.27  | 1.26  | 2.08  | 1.82  | 1.43  | .90   | .75   | .87   | 1.21  | 1.38  | 1.46  | 1.48  | 15.91  |
| Kanab PH                  | 1.50  | 1.32  | 1.59  | .92   | .72   | .32   | 1.01  | 1.49  | .93   | .98   | 1.27  | 1.24  | 13.27  |
| Levan                     | 1.21  | 1.23  | 1.65  | 1.52  | 1.45  | .87   | .82   | .97   | 1.38  | 1.36  | 1.29  | 1.39  | 15.15  |
| Loa                       | .42   | .26   | .44   | .44   | .73   | .51   | 1.11  | 1.52  | .99   | .63   | .35   | .35   | 7.75   |
| Manti                     | .98   | 1.02  | 1.53  | 1.41  | 1.28  | .81   | .82   | .98   | 1.40  | 1.29  | 1.14  | 1.06  | 13.74  |
| Nephi                     | 1.22  | 1.19  | 1.71  | 1.51  | 1.39  | .82   | .86   | 1.01  | 1.18  | 1.26  | 1.39  | 1.33  | 14.88  |
| Panguitch                 | .48   | .61   | .79   | .67   | .82   | .63   | 1.50  | 1.78  | 1.05  | .71   | .78   | .51   | 10.32  |
| Richfield                 | .56   | .58   | .73   | .77   | .84   | .60   | .79   | .70   | .93   | .84   | .68   | .59   | 8.62   |
| <b>NORTHERN MOUNTAINS</b> |       |       |       |       |       |       |       |       |       |       |       |       |        |
| Heber                     | 1.78  | 1.56  | 1.37  | 1.39  | 1.23  | .90   | .87   | .98   | 1.26  | 1.43  | 1.64  | 1.63  | 16.02  |
| Morgan                    | 1.77  | 1.86  | 1.92  | 2.33  | 1.94  | 1.32  | .68   | .98   | 1.53  | 1.74  | 1.91  | 1.92  | 19.90  |
| Olmstead PH               | 1.91  | 2.02  | 2.54  | 1.63  | 2.38  | .75   | .92   | 1.27  | 2.01  | 1.94  | 2.19  | 1.57  | 21.14  |
| Scofield Mine             | 1.67E | 2.69E | 2.95E | 1.61E | 1.68E | 1.14E | 1.61E | 1.45E | 1.91E | 1.91E | 2.78E | 1.85E | 22.86E |
| Silver Lk Brighton        | 4.95  | 4.76  | 5.42  | 4.58  | 3.05  | 1.79  | 1.69  | 1.95  | 2.58  | 3.51  | 4.87  | 5.07  | 44.21  |
| Woodruff                  | .43   | .45   | .57   | .92   | .89   | 1.05  | .72   | .69   | 1.16  | .93   | .65   | .58   | 9.02   |
| <b>UINTA BASIN</b>        |       |       |       |       |       |       |       |       |       |       |       |       |        |
| Duchesne AP               | .43   | .47   | .64   | .84   | .91   | .90   | .93   | 1.00  | 1.17  | .94   | .54   | .76   | 9.52   |
| Fort Duchesne             | .36   | .33   | .45   | .59   | .72   | .63   | .61   | .66   | .70   | .89   | .38   | .45   | 6.77   |
| Jensen                    | .46   | .52   | .59   | .70   | .77   | .64   | .66   | .57   | .90   | 1.02  | .59   | .63   | 8.07   |
| <b>SOUTHEAST</b>          |       |       |       |       |       |       |       |       |       |       |       |       |        |
| Blanding                  | 1.25  | .91   | .95   | .75   | .62   | .46   | 1.32  | 1.43  | 1.28  | 1.36  | 1.08  | 1.18  | 12.60  |
| Ferron                    | .62   | .55   | .68   | .49   | .72   | .49   | 1.03  | 1.09  | .87   | .79   | .53   | .56   | 8.42   |
| Hanksville                | .38   | .22   | .51   | .42   | .49   | .30   | .53   | .73   | .70   | .68   | .38   | .31   | 5.66   |
| Moab 4 NW                 | .56   | .43   | .85   | .98   | .72   | .50   | .83   | .86   | .75   | 1.16  | .73   | .65   | 9.02   |
| Price Warehouse           | .68   | .76   | .78   | .43   | .67   | .57   | 1.07  | .90   | 1.02  | 1.36  | .63   | .53   | 9.42   |

Source: Utah State Climatologist, Utah State University, Logan, Utah 84322-4825

## ACCUMULATED GROWING DEGREE DAYS Base 50, by Months, Utah, 1991

| Station                   | Jan | Feb | Mar | Apr  | May | Jun | Jul | Aug  | Sep  | Oct | Nov | Dec | Annual |
|---------------------------|-----|-----|-----|------|-----|-----|-----|------|------|-----|-----|-----|--------|
| <u>WESTERN</u>            |     |     |     |      |     |     |     |      |      |     |     |     |        |
| Delta                     | 0   | 38  | 81  | 189  | 281 | 495 | 675 | 672  | 455  | 315 | 54  | 1   | 3253   |
| Milford                   | 0   | 57  | 78  | 223  | 344 | 513 | 639 | 640E | 464E | 347 | 56E | 1E  | 3361E  |
| Modena                    | 0   | 60  | 34  | 174  | 290 | 455 | 611 | 593  | 483  | 356 | 73  | 3   | 3130   |
| Snowville                 | 0   | 6   | 51  | 102  | 182 | 367 | 720 | 685  | 453  | 303 | 8E  | 0E  | 2873E  |
| Wendover                  | 0   | 14  | 47  | 117  | 261 | 560 | 846 | 778  | 453  | 245 | 9   | 0   | 3328   |
| <u>DIXIE</u>              |     |     |     |      |     |     |     |      |      |     |     |     |        |
| St. George                | 60  | 249 | 178 | 371  | 500 | 694 | 863 | 868  | 696  | 193 | 79E | 32  | 4780E  |
| Zion Nat'l Park           | 58  | 224 | 126 | 329  | 495 | 647 | 847 | 836  | 710  | 535 | 197 | 72  | 5073   |
| <u>NORTH CENTRAL</u>      |     |     |     |      |     |     |     |      |      |     |     |     |        |
| Corinne                   | 0   | 16  | 46  | 141  | 240 | 450 | 639 | 640  | 423  | 296 | 11  | 0   | 2900   |
| Elberta                   | 0   | 27  | 81  | 181  | 302 | 528 | 689 | 685  | 450  | 332 | 38E | 0E  | 3311E  |
| Farmington USU            | 0   | 27  | 85  | 173  | 314 | 533 | 737 | 720  | 467  | 315 | 37  | 0   | 3408   |
| Logan USU                 | 0   | 3   | 23  | 97   | 195 | 430 | 692 | 718  | 383  | 254 | 7   | 0   | 2799   |
| Ogden Pioneer PH          | 0   | 26  | 66  | 162  | 278 | 558 | 788 | 794  | 476  | 285 | 22  | 0   | 3452   |
| SLC Airport               | 0   | 21  | 64  | 142  | 258 | 537 | 787 | 788  | 443  | 286 | 39  | 0   | 3362   |
| Tooele                    | 0   | 17  | 55  | 129  | 256 | 485 | 843 | 781  | 431  | 298 | 28  | 0   | 3321   |
| Trenton                   | 0   | 6   | 41  | 140  | 286 | 419 | 566 | 544  | 376  | 216 | 37  | 2   | 2639   |
| Utah Lake Lehi            | 0   | 4   | 23  | 116  | 274 | 470 | 639 | 652  | 413  | 286 | 28  | 0   | 2903   |
| <u>SOUTH CENTRAL</u>      |     |     |     |      |     |     |     |      |      |     |     |     |        |
| Cedar City FAA            | 0   | 41  | 31  | 156  | 273 | 484 | 679 | 666  | 466  | 319 | 63  | 4   | 3180   |
| Fillmore                  | 0   | 38  | 66  | 186  | 301 | 527 | 709 | 700  | 450  | 313 | 55  | 0   | 3342   |
| Kanab                     | 6   | 139 | 64  | 234  | 377 | 522 | 696 | 693  | 538  | 410 | 121 | 22  | 3819   |
| Levan                     | 0   | 25  | 61  | 166  | 277 | 496 | 679 | 659  | 447  | 355 | 62  | 0   | 3226   |
| Loa                       | 0   | 23  | M   | M    | M   | M   | 191 | 455  | 346  | 263 | 47  | 0   | M      |
| Manti                     | 0   | 15  | 33  | 115  | 231 | 432 | 628 | 587  | 385  | 271 | 43  | 2   | 2739   |
| Nephi                     | 0   | 50  | 83  | 185  | 302 | 509 | 662 | 653  | 467  | 353 | 73  | 7   | 3342   |
| Panguitch                 | 0   | 54  | 23  | 146  | 290 | 428 | 540 | 517  | 410  | 312 | 55  | 1   | 2774   |
| Richfield                 | 0   | 40  | 62  | 173  | 293 | 480 | 605 | 598  | 424  | 309 | 58  | 7   | 3046   |
| <u>NORTHERN MOUNTAINS</u> |     |     |     |      |     |     |     |      |      |     |     |     |        |
| Heber                     | 0   | 6   | 32  | 139  | 270 | 444 | 578 | 581  | 416  | 316 | 28  | 0   | 2809   |
| Morgan                    | 0   | 6   | 40  | 131  | 264 | 426 | 579 | 586  | 421  | 289 | 35  | 0   | 2774   |
| Olmstead PH               | 0   | 38  | 64  | 182E | 292 | 510 | 681 | 687  | 459  | 334 | 48  | 0   | 3295E  |
| Scotfield Mine            | 0   | 0   | 0   | 15   | 88  | 249 | 401 | 351  | 206  | 142 | 3   | 0   | 1454   |
| Silver Lk Brighton        | 0   | 1   | 0   | 5    | 32  | 183 | 340 | 306  | 169  | 110 | 0   | 0   | 1144   |
| Woodruff                  | 0   | 1   | 10  | 68   | 163 | 334 | 504 | 484  | 311  | 213 | 5   | 0   | 2089   |
| <u>UINTA BASIN</u>        |     |     |     |      |     |     |     |      |      |     |     |     |        |
| Duchesne                  | 0   | 8   | 35  | 160  | 313 | 443 | 618 | 574  | 388  | 267 | 22  | 0   | 2827   |
| Fort Duchesne             | 0   | 1   | 44  | 202  | 360 | 506 | 613 | 621  | 429  | 322 | 20  | 0   | 3117   |
| Jensen                    | 0   | 6   | 73  | 199  | 391 | 498 | 593 | 580  | 452  | 305 | 40  | 0   | 3136   |
| <u>SOUTHEAST</u>          |     |     |     |      |     |     |     |      |      |     |     |     |        |
| Blanding                  | 0   | 22  | 41  | 185  | 368 | 546 | 701 | 692  | 504  | 340 | 51  | 0   | 3449   |
| Ferron                    | 0   | 27  | 26  | 154  | 327 | 502 | 668 | 632  | 426  | 317 | 43  | 0   | 3121   |
| Hanksville                | 0   | 69  | 114 | 258  | 467 | 596 | 707 | 672  | 534  | 392 | 65  | 0   | 3872   |
| Moab 4 NW                 | 0   | 96  | 191 | 320  | 552 | 717 | 829 | 776  | 616  | 445 | 74E | 2E  | 4616E  |
| Price                     | 0   | 26  | 25  | 110  | 245 | 322 | 330 | 445  | 320  | 228 | 25  | 0E  | 2075   |

Source: Utah State Climatologist, Utah State University, Logan, Utah 84322-4825

E = Estimated

M = For monthly, 10 or more days of data missing; for Annual, at least one month with 10 or more days of missing data.

## NORMAL GROWING DEGREE DAYS Base 50, by Months, Utah, 1961-90

| Station                   | Jan | Feb | Mar | Apr | May  | Jun  | Jul  | Aug  | Sep  | Oct | Nov | Dec | Annual |
|---------------------------|-----|-----|-----|-----|------|------|------|------|------|-----|-----|-----|--------|
| <b>WESTERN</b>            |     |     |     |     |      |      |      |      |      |     |     |     |        |
| Delta                     | 4   | 30  | 97  | 198 | 317  | 490  | 612  | 584  | 416  | 254 | 70  | 8   | 3080   |
| Milford                   | 9   | 32  | 94  | 192 | 340  | 478  | 615  | 595  | 427  | 265 | 80  | 14  | 3141   |
| Modena                    | 15  | 35  | 94  | 199 | 339  | 462  | 606  | 564  | 397  | 271 | 82  | 21  | 3085   |
| Snowville                 | 0   | 6   | 45  | 146 | 271  | 424  | 521  | 482  | 372  | 220 | 36  | 1   | 2524   |
| Wendover                  | 3   | 12  | 42  | 112 | 250  | 383  | 520  | 464  | 344  | 200 | 48  | 9   | 2387   |
| <b>DIXIE</b>              |     |     |     |     |      |      |      |      |      |     |     |     |        |
| St. George                | 72  | 151 | 256 | 376 | 544  | 685  | 822  | 778  | 616  | 435 | 206 | 77  | 5018   |
| Zion Nat'l Park           | 67  | 120 | 204 | 338 | 539  | 705  | 845  | 818  | 665  | 460 | 190 | 77  | 5028   |
| <b>NORTH CENTRAL</b>      |     |     |     |     |      |      |      |      |      |     |     |     |        |
| Corinne                   | 0   | 8   | 35  | 111 | 210  | 333  | 453  | 411  | 269  | 136 | 22  | 1   | 1989   |
| Elberta                   | 4   | 23  | 93  | 206 | 372  | 509  | 694  | 638  | 449  | 259 | 70  | 8   | 3325   |
| Farmington USU            | 4   | 22  | 82  | 198 | 361  | 533  | 710  | 670  | 462  | 253 | 61  | 5   | 3356   |
| Logan USU                 | 0   | 4   | 35  | 125 | 279  | 457  | 687  | 628  | 383  | 189 | 30  | 1   | 2818   |
| Ogden Pioneer PH          | 2   | 16  | 67  | 173 | 348  | 534  | 713  | 695  | 453  | 242 | 52  | 4   | 3299   |
| SLC Airport               | 3   | 21  | 77  | 180 | 358  | 556  | 767  | 704  | 467  | 245 | 61  | 5   | 3444   |
| Tooele                    | 6   | 15  | 62  | 162 | 329  | 519  | 735  | 686  | 433  | 215 | 47  | 6   | 3215   |
| Trenton                   | 0   | 2   | 23  | 79  | 126  | 218  | 262  | 251  | 179  | 100 | 16  | 0   | 1256   |
| <b>SOUTH CENTRAL</b>      |     |     |     |     |      |      |      |      |      |     |     |     |        |
| Cedar City FAA            | 13  | 37  | 87  | 185 | 344  | 521  | 688  | 632  | 445  | 265 | 84  | 21  | 3322   |
| Fillmore                  | 8   | 31  | 95  | 199 | 364  | 535  | 705  | 649  | 464  | 266 | 78  | 10  | 3404   |
| Kanab                     | 38  | 80  | 144 | 255 | 407  | 543  | 694  | 649  | 497  | 345 | 142 | 50  | 3844   |
| Levan                     | 2   | 19  | 80  | 184 | 337  | 497  | 662  | 607  | 436  | 262 | 73  | 6   | 3165   |
| Loa                       | 5   | 15  | 47  | 119 | 255  | 391  | 499  | 454  | 334  | 193 | 49  | 9   | 2370   |
| Manti                     | 3   | 13  | 63  | 155 | 298  | 452  | 604  | 564  | 387  | 228 | 58  | 6   | 2831   |
| Nephi                     | 5   | 24  | 87  | 193 | 340  | 479  | 637  | 633  | 455  | 279 | 84  | 11  | 3227   |
| Panguitch                 | 7   | 19  | 65  | 159 | 292  | 432  | 531  | 494  | 380  | 245 | 72  | 12  | 2708   |
| Richfield                 | 12  | 35  | 101 | 197 | 345  | 478  | 580  | 572  | 437  | 282 | 90  | 18  | 3147   |
| <b>NORTHERN MOUNTAINS</b> |     |     |     |     |      |      |      |      |      |     |     |     |        |
| Heber                     | 1   | 7   | 43  | 137 | 281  | 419  | 560  | 522  | 368  | 215 | 51  | 4   | 2608   |
| Morgan                    | 1   | 8   | 49  | 150 | 306  | 439  | 568  | 548  | 401  | 242 | 50  | 3   | 2765   |
| Olmstead PH               | 1   | 8   | 35  | 98  | 154  | 247  | 318  | 304  | 213  | 121 | 30  | 4   | 1533   |
| Scofield Mine             | 0E  | 0E  | 4E  | 42E | 109E | 281E | 379E | 347E | 203E | 95E | 9E  | 0E  | 1492E  |
| Silver Lk Brighton        | 0   | 0   | 2   | 17  | 81   | 183  | 339  | 285  | 166  | 63  | 5   | 0   | 1141   |
| Woodruff                  | 0   | 2   | 18  | 94  | 220  | 342  | 492  | 466  | 317  | 174 | 27  | 1   | 2153   |
| <b>UINTA BASIN</b>        |     |     |     |     |      |      |      |      |      |     |     |     |        |
| Duchesne                  | 1   | 6   | 48  | 143 | 274  | 369  | 484  | 423  | 285  | 153 | 24  | 0   | 2210   |
| Fort Duchesne             | 0   | 5   | 57  | 180 | 346  | 481  | 586  | 535  | 391  | 216 | 40  | 2   | 2839   |
| Jensen                    | 0   | 9   | 74  | 204 | 378  | 497  | 621  | 548  | 414  | 243 | 46  | 1   | 3035   |
| <b>SOUTHEAST</b>          |     |     |     |     |      |      |      |      |      |     |     |     |        |
| Blanding                  | 3   | 18  | 71  | 177 | 344  | 514  | 655  | 591  | 423  | 239 | 57  | 5   | 3097   |
| Ferron                    | 2   | 12  | 57  | 163 | 313  | 493  | 652  | 590  | 395  | 232 | 50  | 2   | 2961   |
| Hanksville                | 10  | 48  | 164 | 305 | 482  | 607  | 709  | 677  | 511  | 323 | 96  | 9   | 3941   |
| Moab 4 NW                 | 14  | 63  | 187 | 320 | 490  | 614  | 743  | 715  | 562  | 368 | 127 | 17  | 4220   |
| Price                     | 2   | 10  | 45  | 134 | 248  | 383  | 472  | 441  | 336  | 168 | 43  | 2   | 2284   |

Source: Utah State Climatologist, Utah State University, Utah 84322-4825

## ACCUMULATED GROWING DEGREE DAYS Base 40, by Months, Utah, 1991

| Station                   | Jan | Feb | Mar | Apr  | May | Jun | Jul  | Aug  | Sep  | Oct | Nov  | Dec | Annual |
|---------------------------|-----|-----|-----|------|-----|-----|------|------|------|-----|------|-----|--------|
| <b>WESTERN</b>            |     |     |     |      |     |     |      |      |      |     |      |     |        |
| Delta                     | 0   | 124 | 219 | 327  | 447 | 673 | 846  | 847  | 628  | 433 | 154  | 32  | 4727   |
| Milford                   | 10  | 163 | 215 | 369  | 510 | 641 | 804  | 805E | 625E | 450 | 150E | 31E | 4771E  |
| Modena                    | 28  | 190 | 143 | 317  | 449 | 609 | 770  | 752  | 629  | 455 | 172  | 40  | 4552   |
| Snowville                 | 0   | 71  | 182 | 221  | 328 | 512 | 903  | 861  | 620  | 415 | 60E  | 3E  | 4174E  |
| Wendover                  | 15  | 96  | 179 | 280  | 523 | 806 | 1021 | 951  | 706  | 430 | 85   | 7   | 5096   |
| <b>DIXIE</b>              |     |     |     |      |     |     |      |      |      |     |      |     |        |
| St. George                | 207 | 395 | 348 | 578  | 691 | 869 | 1033 | 1039 | 866  | 284 | 174E | 120 | 6602E  |
| Zion Nat'l Park           | 204 | 379 | 273 | 514  | 662 | 814 | 1017 | 1006 | 878  | 715 | 375  | 212 | 7048   |
| <b>NORTH CENTRAL</b>      |     |     |     |      |     |     |      |      |      |     |      |     |        |
| Corinne                   | 2   | 81  | 182 | 282  | 423 | 667 | 815  | 810  | 586  | 420 | 82   | 4   | 4352   |
| Elberta                   | 2   | 105 | 223 | 320  | 469 | 680 | 857  | 855  | 636  | 455 | 136E | 15E | 4752E  |
| Farmington USU            | 10  | 130 | 231 | 332  | 518 | 738 | 909  | 893  | 676  | 466 | 140  | 17  | 5055   |
| Logan USU                 | 1   | 32  | 125 | 212  | 379 | 679 | 879  | 904  | 609  | 426 | 61   | 4   | 4308   |
| Ogden Pioneer PH          | 3   | 117 | 210 | 322  | 509 | 785 | 961  | 970  | 720  | 478 | 106  | 10  | 5187   |
| SLC Airport               | 8   | 109 | 204 | 297  | 485 | 766 | 960  | 963  | 688  | 458 | 139  | 15  | 5087   |
| Tooele                    | 10  | 122 | 176 | 271  | 435 | 758 | 1153 | 1091 | 674  | 461 | 107  | 14  | 5270   |
| Trenton                   | 12  | 37  | 131 | 274  | 448 | 583 | 723  | 694  | 516  | 362 | 118  | 21  | 3923   |
| Utah Lake Lehi            | 1   | 79  | 128 | 253  | 440 | 627 | 799  | 825  | 604  | 411 | 108  | 15  | 4286   |
| <b>SOUTH CENTRAL</b>      |     |     |     |      |     |     |      |      |      |     |      |     |        |
| Cedar City FAA            | 31  | 155 | 136 | 304  | 452 | 692 | 853  | 851  | 669  | 449 | 152  | 55  | 4798   |
| Fillmore                  | 6   | 132 | 193 | 330  | 496 | 725 | 884  | 882  | 675  | 484 | 155  | 20  | 4978   |
| Kanab                     | 97  | 277 | 190 | 388  | 551 | 679 | 872  | 871  | 736  | 527 | 243  | 120 | 5549   |
| Levan                     | 7   | 122 | 189 | 306  | 437 | 637 | 851  | 825  | 641  | 461 | 156  | 42  | 4670   |
| Loa                       | 0   | 19  | M   | M    | M   | M   | 309  | 723  | 524  | 398 | 128  | 14  | M      |
| Manti                     | 0   | 97  | 131 | 235  | 402 | 637 | 816  | 806  | 597  | 412 | 119  | 33  | 4283   |
| Nephi                     | 14  | 169 | 216 | 321  | 476 | 667 | 831  | 822  | 632  | 457 | 178  | 65  | 4845   |
| Panguitch                 | 16  | 180 | 122 | 278  | 453 | 545 | 656  | 659  | 547  | 431 | 148  | 18  | 4050   |
| Richfield                 | 5   | 141 | 188 | 315  | 463 | 629 | 771  | 772  | 595  | 435 | 161  | 68  | 4539   |
| <b>NORTHERN MOUNTAINS</b> |     |     |     |      |     |     |      |      |      |     |      |     |        |
| Heber                     | 6   | 54  | 144 | 264  | 433 | 585 | 723  | 743  | 570  | 422 | 104  | 12  | 4057   |
| Morgan                    | 4   | 75  | 165 | 271  | 426 | 570 | 719  | 745  | 568  | 404 | 124  | 5   | 4073   |
| Olmstead PH               | 15  | 150 | 203 | 318E | 479 | 701 | 848  | 860  | 660  | 469 | 143  | 39  | 4885E  |
| Scofield Mine             | 0   | 28  | 6   | 84   | 209 | 422 | 629  | 559  | 369  | 259 | 35   | 9   | 2607   |
| Silver Lk Brighton        | 0   | 30  | 1   | 48   | 129 | 347 | 580  | 542  | 331  | 227 | 25   | 6   | 2264   |
| Woodruff                  | 0   | 24  | 77  | 177  | 312 | 503 | 635  | 640  | 463  | 339 | 47   | 0   | 3214   |
| <b>UINTA BASIN</b>        |     |     |     |      |     |     |      |      |      |     |      |     |        |
| Duchesne                  | 0   | 64  | 157 | 302  | 485 | 694 | 923  | 882  | 613  | 408 | 88   | 5   | 4619   |
| Fort Duchesne             | 0   | 23  | 170 | 344  | 534 | 656 | 780  | 797  | 610  | 446 | 92   | 3   | 4452   |
| Jensen                    | 0   | 54  | 217 | 339  | 554 | 634 | 758  | 749  | 611  | 426 | 125  | 10  | 4474   |
| <b>SOUTHEAST</b>          |     |     |     |      |     |     |      |      |      |     |      |     |        |
| Blanding                  | 14  | 118 | 161 | 337  | 559 | 729 | 880  | 871  | 725  | 521 | 154  | 27  | 5093   |
| Ferron                    | 2   | 130 | 131 | 296  | 522 | 705 | 859  | 838  | 634  | 481 | 126  | 18  | 4740   |
| Hanksville                | 3   | 185 | 261 | 413  | 621 | 759 | 882  | 846  | 677  | 475 | 171  | 15  | 5305   |
| Moab 4 NW                 | 5   | 214 | 374 | 526  | 719 | 883 | 1000 | 936  | 782  | 562 | 165E | 29E | 6193E  |
| Price                     | 3   | 133 | 126 | 206  | 396 | 446 | 430  | 573  | 477  | 349 | 78   | 5E  | 3219E  |

Source: Utah State Climatologist, Utah State University, Logan, Utah 84322-4825

E = Estimated

M = For monthly, 10 or more days of data missing; for annual, at least one month with 10 or more days of missing data.

## NORMAL GROWING DEGREE DAYS Base 40, by Months, Utah, 1961-90

| Station                   | Jan | Feb | Mar | Apr  | May  | Jun  | Jul  | Aug  | Sep  | Oct  | Nov | Dec | Annual |
|---------------------------|-----|-----|-----|------|------|------|------|------|------|------|-----|-----|--------|
| <u>WESTERN</u>            |     |     |     |      |      |      |      |      |      |      |     |     |        |
| Delta                     | 34  | 98  | 215 | 336  | 464  | 651  | 772  | 743  | 563  | 395  | 167 | 46  | 4484   |
| Milford                   | 50  | 101 | 209 | 331  | 481  | 615  | 774  | 756  | 571  | 411  | 184 | 66  | 4549   |
| Modena                    | 69  | 114 | 211 | 332  | 471  | 585  | 761  | 718  | 521  | 402  | 185 | 87  | 4456   |
| Snowville                 | 8   | 41  | 136 | 281  | 405  | 555  | 654  | 608  | 489  | 351  | 114 | 20  | 3662   |
| Wendover                  | 33  | 62  | 121 | 219  | 389  | 521  | 667  | 603  | 479  | 330  | 127 | 49  | 3600   |
| <u>DIXIE</u>              |     |     |     |      |      |      |      |      |      |      |     |     |        |
| St. George                | 198 | 288 | 415 | 539  | 720  | 847  | 988  | 941  | 775  | 590  | 354 | 210 | 6865   |
| Zion Nat'l Park           | 192 | 258 | 378 | 528  | 734  | 875  | 1016 | 991  | 842  | 672  | 368 | 205 | 7059   |
| <u>NORTH CENTRAL</u>      |     |     |     |      |      |      |      |      |      |      |     |     |        |
| Corinne                   | 9   | 40  | 107 | 216  | 333  | 466  | 576  | 531  | 381  | 236  | 78  | 17  | 2990   |
| Elberta                   | 35  | 86  | 219 | 358  | 544  | 671  | 870  | 810  | 612  | 418  | 173 | 47  | 4843   |
| Farmington USU            | 35  | 87  | 209 | 362  | 556  | 726  | 885  | 846  | 653  | 428  | 166 | 39  | 4980   |
| Logan USU                 | 13  | 36  | 120 | 269  | 491  | 686  | 887  | 827  | 598  | 360  | 106 | 21  | 4414   |
| Ogden Pioneer PH          | 28  | 73  | 182 | 337  | 563  | 744  | 887  | 881  | 664  | 429  | 147 | 38  | 4973   |
| SLC Airport               | 30  | 85  | 202 | 347  | 570  | 765  | 950  | 886  | 667  | 429  | 165 | 38  | 5134   |
| Tooele                    | 40  | 73  | 173 | 321  | 547  | 736  | 921  | 882  | 654  | 398  | 142 | 42  | 4929   |
| Trenton                   | 4   | 18  | 73  | 143  | 200  | 293  | 333  | 320  | 243  | 169  | 53  | 10  | 1859   |
| <u>SOUTH CENTRAL</u>      |     |     |     |      |      |      |      |      |      |      |     |     |        |
| Cedar City FAA            | 70  | 119 | 208 | 336  | 530  | 702  | 873  | 820  | 631  | 426  | 196 | 88  | 4999   |
| Fillmore                  | 53  | 108 | 222 | 360  | 554  | 715  | 882  | 825  | 643  | 434  | 186 | 60  | 5042   |
| Kanab                     | 135 | 196 | 290 | 408  | 577  | 709  | 870  | 829  | 681  | 511  | 279 | 153 | 5638   |
| Levan                     | 34  | 81  | 195 | 329  | 511  | 669  | 842  | 782  | 602  | 412  | 175 | 45  | 4677   |
| Loa                       | 47  | 76  | 146 | 240  | 403  | 529  | 666  | 631  | 491  | 335  | 143 | 56  | 3763   |
| Manti                     | 31  | 64  | 167 | 297  | 471  | 631  | 791  | 757  | 572  | 382  | 155 | 43  | 4361   |
| Nephi                     | 45  | 90  | 203 | 335  | 507  | 639  | 803  | 803  | 619  | 431  | 188 | 61  | 4724   |
| Panguitch                 | 53  | 84  | 171 | 292  | 436  | 542  | 663  | 642  | 517  | 391  | 173 | 70  | 4034   |
| Richfield                 | 66  | 112 | 226 | 338  | 497  | 616  | 732  | 729  | 575  | 430  | 203 | 77  | 4601   |
| <u>NORTHERN MOUNTAINS</u> |     |     |     |      |      |      |      |      |      |      |     |     |        |
| Heber                     | 19  | 44  | 132 | 270  | 434  | 560  | 704  | 662  | 502  | 352  | 136 | 33  | 3848   |
| Morgan                    | 22  | 52  | 145 | 285  | 459  | 575  | 714  | 686  | 535  | 388  | 137 | 34  | 4032   |
| Olmstead PH               | 13  | 32  | 89  | 173  | 244  | 335  | 403  | 389  | 303  | 204  | 76  | 24  | 2285   |
| Scofield Mine             | 14E | 20E | 44E | 136E | 237E | 455E | 604E | 564E | 360E | 214E | 49E | 10E | 2734E  |
| Silver Lk Brighton        | 13  | 15  | 33  | 84   | 201  | 326  | 560  | 479  | 310  | 170  | 40  | 13  | 2244   |
| Woodruff                  | 8   | 19  | 73  | 209  | 371  | 491  | 638  | 603  | 460  | 310  | 86  | 16  | 3284   |
| <u>UINTA BASIN</u>        |     |     |     |      |      |      |      |      |      |      |     |     |        |
| Duchesne                  | 12  | 37  | 130 | 259  | 404  | 511  | 628  | 556  | 409  | 265  | 86  | 14  | 3311   |
| Fort Duchesne             | 8   | 34  | 158 | 323  | 507  | 644  | 746  | 686  | 525  | 354  | 123 | 17  | 4125   |
| Jensen                    | 12  | 47  | 189 | 349  | 533  | 649  | 789  | 689  | 543  | 389  | 137 | 22  | 4348   |
| <u>SOUTHEAST</u>          |     |     |     |      |      |      |      |      |      |      |     |     |        |
| Blanding                  | 35  | 87  | 184 | 323  | 527  | 695  | 837  | 779  | 630  | 409  | 163 | 52  | 4721   |
| Ferron                    | 22  | 63  | 158 | 310  | 505  | 695  | 843  | 789  | 588  | 387  | 146 | 34  | 4540   |
| Hanksville                | 60  | 144 | 311 | 459  | 640  | 770  | 878  | 845  | 659  | 466  | 218 | 71  | 5521   |
| Moab 4 NW                 | 75  | 172 | 347 | 491  | 670  | 779  | 907  | 878  | 721  | 523  | 265 | 93  | 5921   |
| Price                     | 19  | 46  | 126 | 242  | 385  | 514  | 596  | 568  | 480  | 282  | 112 | 34  | 3404   |

Source: Utah State Climatologist, Utah State University, Utah 84322-4825

E = Estimated data.

# Enterprise Budgets

Prepared by the Economics Department, Utah State University

The following crop and livestock enterprise budgets were prepared by the Economics Department at Utah State University. Although not guaranteed, these budgets are provided to help farmers and ranchers identify potential alternatives to maximize the profitability of their operation. Actual costs and income will vary from farm to farm; therefore, a column has been provided to adapt the budgets to your farm or ranch.

An Enterprise Budget workbook will be available later this year through the Utah Department of Agriculture. It will include the budget information on pages 127-141, plus additional profitability tips. Contact El Shaffer, phone 538-7104, in Salt Lake City for ordering individual or bulk supplies of the workbook. A nominal printing and postage fee will be charged.

Any questions or suggestions to these budgets should be referred to the appropriate contact person in the Economics Department at Utah State University, phone (801) 750-2310 in Logan.

The budgets presented this year are available as a Lotus 123 template, which also runs on Quattro, for IBM and compatible computers. A stand-alone version, for those who do not have Lotus or Quattro, is available, but requires 512K of memory and comes only on a High Density disk. To Order send \$2.00 to:

Budget92 Software  
 Dept. of Economics  
 Utah State University  
 Logan, Utah 84122-3530

Specify: Disk size (3.5" or 5.25") and whether stand-alone or for spreadsheet.

## Index of Enterprise Budgets by Subject and Year Most Recently Published in *Utah Agricultural Statistics*

| <u>Enterprise Budget</u>                    | <u>Most Recent Report Year</u> | <u>Enterprise Budget</u>          | <u>Most Recent Report Year</u> |
|---|--------------------------------|-----------------------------------|--------------------------------|
| Alfalfa hay establishment . . . . .         | 1992                           | Dairy . . . . .                   | 1991                           |
| Alfalfa hay (large bales) . . . . .         | 1992                           | Hycrest wheatgrass seed . . . . . | 1990                           |
| Alfalfa hay (small bales) . . . . .         | 1992                           | Machinery data . . . . .          | 1992                           |
| Apples . . . . .                            | 1990                           | Mink (black mink) . . . . .       | 1991                           |
| Barley (flood irrigated) . . . . .          | 1992                           | Onions . . . . .                  | 1992                           |
| Barley (wheel-line irrigation) . . . . .    | 1991                           | Potatoes . . . . .                | 1991                           |
| Beef Cattle                                 |                                | Safflower (dryland) . . . . .     | 1992                           |
| Cow /calf (Rich County) . . . . .           | 1991                           | Sheep, range . . . . .            | 1990                           |
| Cow/calf/yearling (southern Utah) . . . . . | 1990                           | Sheep, farm flock . . . . .       | 1992                           |
| Cow/calf/yearling (Uintah Basin) . . . . .  | 1992                           | Swine, farrow to finish . . . . . | 1992                           |

**ALFALFA HAY ESTABLISHMENT BUDGET**  
**Estimated Costs and Returns for Alfalfa Hay Seeded after Barley Harvest (1991)**  
**50 Acres of Crop - Box Elder County - Per Acre Basis**

| Item   | Unit  | Quantity  | Price     |                 | Total  | Your Farm |
|--|-------|-----------|-----------|-----------------|--------|-----------|
| ----- Dollars -----  |       |           |           |                 |        |           |
| <b>Receipts</b>  |       |           |           |                 |        |           |
| Barley   | Bu    | 90        | 2.40      |                 | 216.00 | _____     |
| Straw  | Ton   | 1.25      | 35.00     |                 | 43.75  | _____     |
| Total Receipts   |       |           |           |                 | 259.75 | _____     |
| <b>Purchases</b>   |       |           |           |                 |        |           |
| Phosphate <u>1/</u>  | Unit  | 100       | 0.244     |                 | 24.40  | _____     |
| Nitrogen   | Unit  | 100       | 0.24      |                 | 24.00  | _____     |
| Barley Seed  | Lb    | 100       | 0.13      |                 | 13.00  | _____     |
| Alfalfa Seed   | Lb    | 10.0      | 2.50      |                 | 25.00  | _____     |
| 2-4-D  | Lb    | 1.0       | 3.25      |                 | 3.25   | _____     |
| Water  | Share | 0.50      | 13.00     |                 | 6.50   | _____     |
| Total Purchases  |       |           |           |                 | 96.15  | _____     |
| <b>Operations</b>  |       |           |           |                 |        |           |
|  | Times | Ownership | Operating | Labor <u>2/</u> |        |           |
| ----- Dollars -----  |       |           |           |                 |        |           |
| Plowing  | 1     | 15.98     | 4.57      | 3.37            | 23.92  | _____     |
| Disking  | 1     | 7.79      | 1.34      | 1.12            | 10.25  | _____     |
| Landplaning  | 2     | 5.80      | 1.09      | 0.84            | 9.66   | _____     |
| Fertilizer Application                                       | 1     | 3.95      | 0.42      | 0.36            | 4.73   | _____     |
| Triple K   | 2     | 2.94      | 0.89      | 0.73            | 6.18   | _____     |
| Planting Barley  | 1     | 11.38     | 1.30      | 1.80            | 14.48  | _____     |
| Herbicide Application  | 1     | 2.24      | 0.35      | 0.48            | 3.07   | _____     |
| Combining  | 1     | 14.17     | 10.26     | 3.02            | 27.45  | _____     |
| Trucking Barley  | 1     | 3.94      | 2.86      | 1.19            | 7.99   | _____     |
| Swathing   | 1     | 6.93      | 1.97      | 1.33            | 10.23  | _____     |
| Baling   | 1     | 8.32      | 1.96      | 1.49            | 11.77  | _____     |
| Hauling Straw  | 1     | 8.93      | 1.94      | 1.19            | 12.06  | _____     |
| Planting Alfalfa   | 1     | 11.38     | 1.30      | 1.80            | 14.48  | _____     |
| Irrigation, Flood  | 4     | 1.52      | 0.30      | 2.00            | 10.72  | _____     |
| Total Operations   |       |           |           |                 | 166.99 | _____     |
| Interest on Purchases & Operating Capital @ 11.00% <u>3/</u> |       |           |           |                 | 8.68   | _____     |
| Total Listed Costs   |       |           |           |                 | 271.82 | _____     |
| Return to Land and Management                                |       |           |           |                 | -12.07 | _____     |

1/ Phosphate applied before barley planted.

2/ Labor charged at \$6.00 per hour, including benefits.

3/ No interest charged against fixed costs.

In this budget the alfalfa was seeded after the straw was harvested. Millard county normally seeds alfalfa in the spring and harvests more than one crop the same year. All Establishment cost should be amortized over 5-7 years.

Budget prepared by Gilbert D. Miller and Larry Bond

**ALFALFA HAY BUDGET**  
**Estimated Costs and Returns for Alfalfa Production (1991)**  
**Center Pivot Irrigation, Large Square Bales**  
**640 Acres of Crop - East Millard County - Per Acre Basis**

| Item   | Unit  | Quantity       | Price     |       | Total         | Your Farm |
|--|-------|----------------|-----------|-------|---------------|-----------|
| ----- Dollars -----  |       |                |           |       |               |           |
| <b>Receipts</b>  |       |                |           |       |               |           |
| Alfalfa Hay  | Ton   | 6.0            | 65.00     |       | 390.00        | _____     |
| Residue  | AUM   | 0.5            | 12.00     |       | 6.00          | _____     |
| <b>Total Receipts</b>  |       |                |           |       | <b>396.00</b> | _____     |
| <b>Purchases</b>   |       |                |           |       |               |           |
| Phosphate  | Unit  | 126            | 0.21      |       | 26.46         | _____     |
| Metribuzin <u>1/</u>   | Gal   | 0.03           | 137.00    |       | 4.11          | _____     |
| Carbofuran <u>1/</u>   | Gal   | 0.03           | 62.00     |       | 1.86          | _____     |
| Twine  | Bag   | 0.24           | 18.75     |       | 4.50          | _____     |
| Soil Test <u>1/</u>  |       |                |           |       | 0.04          | _____     |
| <b>Total Purchases</b>   |       |                |           |       | <b>36.97</b>  | _____     |
| <b>Operations</b>  |       |                |           |       |               |           |
|  | Times | Ownership      | Operating | Labor |               |           |
| ----- Dollars -----  |       |                |           |       |               |           |
| Fertilizer Application <u>2/</u>                                     | 1     | 0.24           | 0.41      | 0.47  | 1.12          | _____     |
| Herbicide Application <u>1/</u>                                      | 1     | Custom         |           |       | 1.25          | _____     |
| Insecticide Application <u>1/</u>                                    | 1     | Custom(aerial) |           |       | 1.25          | _____     |
| Swathing (self propelled)  | 3     | 17.01          | 3.70      | 1.26  | 31.89         | _____     |
| Raking (turning)   | 3     | 2.33           | 0.63      | 0.47  | 5.63          | _____     |
| Baling (big bales)   | 3     | 13.05          | 6.48      | 0.52  | 34.05         | _____     |
| Hauling  | 3     | 12.00          | 2.88      | 1.88  | 26.28         | _____     |
| Irrigation <u>3/</u>   | 5     | 63.65          | 11.54     | 0.87  | 125.70        | _____     |
| Operating Interest for 6 months @ 11.00%                             |       |                |           |       | 8.57          | _____     |
| <b>Total Operation Costs</b>   |       |                |           |       | <b>235.74</b> | _____     |
| Establishment Costs/Acre of \$181.61 Amortized over 7 years @ 11.00% |       |                |           |       | 38.54         | _____     |
| <b>Total Listed Costs</b>  |       |                |           |       | <b>311.25</b> | _____     |
| <b>Return to Land and Management</b>                                 |       |                |           |       | <b>84.75</b>  | _____     |

1/ Represents 1/3 of cost. Spray for insects, weeds and test soil about every third year.

2/ Cost of tractor only. Free use of spreader.

3/ Irrigation costs are calculated assuming a center pivot watering 130 acres. An electric motor with a life of 10 years is used and costs are estimated for a 300 foot well that waters a total of 400 acres. The fixed costs for the well and sprinkling equipment were calculated assuming a 30 year amortization schedule.

| Breakeven Price Per Ton for Various Yields Per Acre |       |       |       |       |       |       |       |
|---|-------|-------|-------|-------|-------|-------|-------|
| Tons per Acre                                       | 4.0   | 4.5   | 5.0   | 5.5   | 6.0   | 6.5   | 7.0   |
| Dollars per Ton                                     | 74.57 | 67.01 | 60.95 | 56.00 | 51.88 | 48.38 | 45.68 |

Budget prepared by Dan Bates and DeeVon Bailey.



**ALFALFA HAY BUDGET**  
**Estimated Costs and Returns for Alfalfa Production (1991)**  
**Flood Irrigation, Small Square Bales**  
**320 Acres of Crop - West Millard County - Per Acre Basis**

| Item   | Unit    | Quantity        | Price     |       | Total         | Your Farm |
|--|---------|-----------------|-----------|-------|---------------|-----------|
| ----- Dollars -----  |         |                 |           |       |               |           |
| <b>Receipts</b>  |         |                 |           |       |               |           |
| Alfalfa Hay  | Tons    | 6.00            | 65.00     |       | 390.00        | _____     |
| <b>Purchases</b>   |         |                 |           |       |               |           |
| Phosphate  | Unit    | 126             | 0.21      |       | 26.46         | _____     |
| Metribuzin <u>1/</u>   | Gal     | 0.03            | 137.00    |       | 4.11          | _____     |
| Carbofuran <u>1/</u>   | Gal     | 0.03            | 62.00     |       | 1.86          | _____     |
| Twine  | Bale    | 0.28            | 19.95     |       | 5.59          | _____     |
| Ladybugs <u>1/</u>   | Bag     | 0.03            | 29.00     |       | 0.87          | _____     |
| Water  | Acre Ft | 3.0             | 35.00     |       | 105.00        | _____     |
| Soil Test <u>1/</u>  |         |                 |           |       | 0.04          | _____     |
| <b>Total Purchases</b>   |         |                 |           |       | <b>143.93</b> | _____     |
| <b>Operations</b>  |         |                 |           |       |               |           |
|  | Times   | Ownership       | Operating | Labor | Total         |           |
| ----- Dollars -----  |         |                 |           |       |               |           |
| Fertilizer Application <u>2/</u>   | 1       | 0.24            | 0.41      | 0.47  | 1.12          | _____     |
| Herbicide Application <u>1/</u>  | 1       | Custom          |           |       | 1.25          | _____     |
| Insecticide Application <u>1/</u>  | 1       | Custom (aerial) |           |       | 1.25          | _____     |
| Swathing (pull type)   | 3       | 10.49           | 2.19      | 1.70  | 22.16         | _____     |
| Baling (small bales)   | 3       | 10.52           | 2.25      | 1.61  | 22.10         | _____     |
| Hauling  | 3       | 9.31            | 4.23      | 2.36  | 29.08         | _____     |
| Irrigation <u>3/</u>   | 5       | 36.70           | 2.00      | 7.40  | 83.70         | _____     |
| Operating Interest for 6 months @ 11.00%   |         |                 |           |       | 13.05         | _____     |
| <b>Total Operating Costs:</b>  |         |                 |           |       | <b>173.71</b> | _____     |
| <b>Establishment Costs/Acre @ \$190.92 Amortized over 7 years @ 11.00 % interest</b> |         |                 |           |       | <b>40.52</b>  | _____     |
| <b>Total Listed Costs</b>  |         |                 |           |       | <b>358.16</b> | _____     |
| <b>Return to Land and Management</b>   |         |                 |           |       | <b>31.84</b>  | _____     |

1/ Represents 1/3 of cost. Spray for insects, weeds, and test soil about every third year.

2/ Cost of tractor only. Free use of spreader.

3/ Irrigation costs are calculated assuming cement ditches and dikes. The fixed cost of the cement ditches were estimated using a 15 year amortization schedule. The fields were assumed diked into 10 acre parcels.

Residue not grazed.

| Breakeven Price Per Ton for Various Yields Per Acre |       |       |       |       |       |       |       |
|---|-------|-------|-------|-------|-------|-------|-------|
| Tons per Acre                                       | 4.0   | 4.5   | 5.0   | 5.5   | 6.0   | 6.5   | 7.0   |
| Dollars per Ton                                     | 87.42 | 78.18 | 70.79 | 64.73 | 59.69 | 55.43 | 51.56 |

Budget prepared by Dan Bates and DeeVon Bailey.

## WINTER WHEAT BUDGET

Estimated Costs and Returns for Winter Wheat Production (1991)  
Flood Irrigated - 50 Acres of Crop - Box Elder County - Per Acre Basis

| Item   | Unit   | Quantity  | Price     |                 | Total  | Your Farm |
|--|--------|-----------|-----------|-----------------|--------|-----------|
| ----- Dollars -----  |        |           |           |                 |        |           |
| <b>Receipts</b>  |        |           |           |                 |        |           |
| Wheat  | Bu     | 84        | 3.10      |                 | 260.40 | _____     |
| <b>Purchases</b>   |        |           |           |                 |        |           |
| Nitrogen   | Unit   | 100       | 0.24      |                 | 24.00  | _____     |
| Phosphate  | Unit   | 25        | 0.244     |                 | 6.10   | _____     |
| Wheat Seed   | Lb     | 100       | 0.13      |                 | 13.00  | _____     |
| Assert   | Gal    | 0.1875    | 110.00    |                 | 20.63  | _____     |
| 2-4-D  | Lb     | 1.0       | 3.25      |                 | 3.25   | _____     |
| Water  | Shares | .50       | 13.00     |                 | 6.50   | _____     |
| Total Purchases  |        |           |           |                 | 73.48  | _____     |
| <b>Operations</b>  |        |           |           |                 |        |           |
|  | Times  | Ownership | Operating | Labor <u>1/</u> |        |           |
| ----- Dollars -----  |        |           |           |                 |        |           |
| Landplaning  | 2      | 5.80      | 1.09      | 0.84            | 9.66   | _____     |
| Fertilizer Application                                       | 1      | 3.95      | 0.42      | 0.36            | 4.73   | _____     |
| Triple K   | 2      | 2.94      | 0.89      | 0.73            | 6.18   | _____     |
| Planting   | 1      | 11.38     | 1.30      | 1.80            | 14.48  | _____     |
| Herbicide Application  | 2      | 2.24      | 0.35      | 0.48            | 3.90   | _____     |
| Combining  | 1      | 14.17     | 10.26     | 3.02            | 27.45  | _____     |
| Trucking   | 1      | 3.94      | 2.86      | 1.19            | 7.99   | _____     |
| Disking  | 2      | 7.79      | 1.34      | 1.12            | 12.71  | _____     |
| Plowing  | 1      | 15.98     | 4.57      | 3.37            | 23.92  | _____     |
| Irrigation, Flood  | 2      | 1.52      | .30       | 2.00            | 6.12   | _____     |
| Total Operations   |        |           |           |                 | 117.14 | _____     |
| Interest on Purchases & Operating Capital @ 11.00% <u>2/</u> |        |           |           |                 | 6.65   | _____     |
| Total Listed Costs   |        |           |           |                 | 197.26 | _____     |
| Return to Land and Management                                |        |           |           |                 | 63.14  | _____     |

1/ Labor charged @ \$6.00 per hour, including benefits.

2/ No interest charged against fixed costs.

| Breakeven Price Per Bushel for Various Yields Per Acre |      |      |      |      |      |      |      |
|--|------|------|------|------|------|------|------|
| Bushels per Acre                                       | 69   | 74   | 79   | 84   | 89   | 94   | 99   |
| Dollars per Bushel                                     | 2.86 | 2.67 | 2.50 | 2.35 | 2.22 | 2.10 | 1.99 |

Prepared by Gilbert D. Miller and Larry Bond

**BARLEY BUDGET**  
**Estimated Costs and Returns for Barley Production (1991)**  
**Flood Irrigated - 50 Acres of Crop - Box Elder County - Per Acre Basis.**

| Item   | Unit  | Quantity  | Price     |                 | Total         | Your Farm |
|--|-------|-----------|-----------|-----------------|---------------|-----------|
| ----- Dollars -----  |       |           |           |                 |               |           |
| <b>Receipts</b>  |       |           |           |                 |               |           |
| Barley   | Bu    | 90        | 2.40      |                 | 216.00        | _____     |
| Straw  | Ton   | 1.25      | 35.00     |                 | 43.75         | _____     |
| <b>Total Receipts</b>  |       |           |           |                 | <b>259.75</b> | _____     |
| <b>Purchases</b>   |       |           |           |                 |               |           |
| Nitrogen   | Unit  | 100       | 0.24      |                 | 24.00         | _____     |
| Barley Seed  | Unit  | 100       | 0.13      |                 | 13.00         | _____     |
| 2-4-D  | Lb    | 1.0       | 3.25      |                 | 3.25          | _____     |
| Water  | Share | 0.50      | 13.00     |                 | 6.50          | _____     |
| <b>Total Purchases</b>                                       |       |           |           |                 | <b>46.75</b>  | _____     |
| <b>Operations</b>  |       |           |           |                 |               |           |
|  | Times | Ownership | Operating | Labor <u>1/</u> |               |           |
| ----- Dollars -----  |       |           |           |                 |               |           |
| Landplaning  | 2     | 5.80      | 1.09      | 0.84            | 9.66          | _____     |
| Fertilizer Application                                       | 1     | 3.95      | 0.42      | 0.36            | 4.73          | _____     |
| Triple K   | 2     | 2.94      | 0.89      | 0.73            | 6.18          | _____     |
| Planting Barley  | 1     | 11.38     | 1.30      | 1.80            | 14.48         | _____     |
| Herbicide Application  | 1     | 2.24      | 0.35      | 0.48            | 3.07          | _____     |
| Combining  | 1     | 14.17     | 10.26     | 3.02            | 27.45         | _____     |
| Trucking Barley  | 1     | 3.94      | 2.86      | 1.19            | 7.99          | _____     |
| Swathing (pull type)   | 1     | 6.93      | 1.97      | 1.33            | 10.23         | _____     |
| Baling   | 1     | 8.32      | 1.96      | 1.49            | 11.77         | _____     |
| Hauling Straw  | 1     | 8.93      | 1.94      | 1.19            | 12.06         | _____     |
| Disking  | 1     | 7.79      | 1.34      | 1.12            | 10.25         | _____     |
| Plowing  | 1     | 15.98     | 4.57      | 3.37            | 23.92         | _____     |
| Irrigation, Flood  | 2     | 1.52      | .30       | 2.00            | 6.12          | _____     |
| <b>Total Operations</b>                                      |       |           |           |                 | <b>147.91</b> | _____     |
| Interest on Purchases & Operating Capital @ 11.00% <u>2/</u> |       |           |           |                 | 5.54          | _____     |
| <b>Total Listed Costs</b>                                    |       |           |           |                 | <b>200.20</b> | _____     |
| <b>Return to Land &amp; Management</b>                       |       |           |           |                 | <b>59.55</b>  | _____     |

1/ Labor charged @ \$6.00 per hour, including benefits.

2/ No interest charged against fixed costs.

| Breakeven Price Per Bushel for Various Yields Per Acre |      |      |      |      |      |      |      |
|--|------|------|------|------|------|------|------|
| Bushel per Acre  | 75   | 80   | 85   | 90   | 95   | 100  | 105  |
| Dollars per Bushel                                     | 2.67 | 2.50 | 2.36 | 2.22 | 2.11 | 2.00 | 1.91 |

Budget prepared by Gilbert D. Miller and Larry K. Bond.

**CORN SILAGE**  
**Estimated Costs and Returns for Corn Silage Production (1991)**  
**50 Acres of Crop - Box Elder County - Per Acre Basis**

| Item  | Unit  | Quantity  | Price               |                 | Total  | Your Farm |
|---|-------|-----------|---------------------|-----------------|--------|-----------|
| ----- Dollars -----   |       |           |                     |                 |        |           |
| Receipts  |       |           |                     |                 |        |           |
| Corn Silage <u>1/</u>   | Ton   | 23.00     | 22.00               |                 | 506.00 | _____     |
| Purchases   |       |           |                     |                 |        |           |
| Nitrogen  | Unit  | 200       | 0.240               |                 | 48.00  | _____     |
| Phosphate   | Unit  | 100       | 0.244               |                 | 24.40  | _____     |
| Corn Seed   | Lb    | 16.0      | 1.50                |                 | 24.00  | _____     |
| Phorate   | Lb    | 6.75      | 1.70                |                 | 11.48  | _____     |
| 2-4-D   | Lb    | 0.5       | 3.25                |                 | 1.63   | _____     |
| Water   | Share | 0.5       | 13.00               |                 | 6.50   | _____     |
| Total Purchases   |       |           |                     |                 | 116.00 | _____     |
| Operations  | Times | Ownership | Operating           | Labor <u>2/</u> |        |           |
|   |       |           | ----- Dollars ----- |                 |        |           |
| Landplaning   | 2     | 5.80      | 1.09                | 0.84            | 9.66   | _____     |
| Fertilizer Application  | 1     | 3.95      | 0.42                | 0.36            | 4.73   | _____     |
| Triple K  | 2     | 2.94      | 0.89                | 0.73            | 6.18   | _____     |
| Planting  | 1     | 30.13     | 0.86                | 1.29            | 32.28  | _____     |
| Herbicide Application   | 1     | 2.24      | 0.35                | 0.48            | 3.07   | _____     |
| Cultivating   | 2     | 13.01     | 0.96                | 1.36            | 17.65  | _____     |
| Chopping <u>2/</u>  | 1     | 56.60     | 14.90               | 7.90            | 79.41  | _____     |
| Hauling   | 1     | 25.62     | 15.50               | 6.44            | 47.55  | _____     |
| Packing   | 1     | 14.92     | 4.53                | 6.24            | 25.68  | _____     |
| Disking   | 1     | 7.79      | 1.34                | 1.12            | 10.25  | _____     |
| Plowing   | 1     | 15.98     | 4.57                | 3.37            | 23.92  | _____     |
| Irrigation, Flood   | 5     | 1.52      | 0.30                | 2.50            | 15.52  | _____     |
| Total Operations  |       |           |                     |                 | 275.90 | _____     |
| Interest on Operating Capital for 6 months @ 11.00% <u>3/</u> |       |           |                     |                 | 11.63  | _____     |
| Total Listed Costs  |       |           |                     |                 | 391.90 | _____     |
| Return to Land, Labor, and Management                         |       |           |                     |                 | 114.10 | _____     |

Assume 30% dry matter (DM) and 5 % spoilage loss.

1/ 30 percent of average price of hay (\$65). Silage with above average grain content would be priced higher.

2/ Labor charged @ 6.00 per hour, including benefits.

2/ No interest charged against fixed costs.

3/ High cost because of low use of equipment. Assumes tractor used 400 hours per year, chopper and dump wagon used 89 hours per year and 65 % field efficiency. Doubling acreage harvested would decrease per acre cost of chopping by 20-30%. Tripling acreage might decrease per acre cost of chopping by 30-40%.

| Breakeven Price Per Ton for Various Levels of Yield Per Acre |       |       |       |       |       |       |
|--|-------|-------|-------|-------|-------|-------|
| Tons per Acre  | 13    | 18    | 23    | 28    | 33    | 38    |
| Dollars per Ton  | 29.99 | 21.72 | 17.04 | 14.03 | 11.94 | 10.37 |

| Equivalent Yields and Prices at Varying Percentages of Dry Matter |              |              |         |                  |
|---|--------------|--------------|---------|------------------|
|   | % Dry Matter | Yield/A Tons | DM Tons | Equiv. Price/Ton |
| Mature  | 34.00%       | 20.29        | 6.9     | 24.93            |
| Mature  | 32.00%       | 21.56        | 6.9     | 23.47            |
| Mature  | 30.00%       | 23.00        | 6.9     | 22.00            |
| Green Chop  | 20.00%       | 34.50        | 6.9     | 14.67            |

Conversion Formulas:

Convert 30% dry matter to equivalent yield for 20% dry matter (.30 X \$22.00 per ton / .20 = 33 tons).

Convert price for 30 % DM to equivalent price for 20% green chop ( 23 tons X \$22.00 per ton / 33 tons = \$15.33).

Budget prepared by Gilbert D. Miller and Larry Bond

**CORN FOR GRAIN BUDGET**  
**Estimated Costs and Returns for Grain Corn Production (1991)**  
**50 Acres of Crop - Box Elder County - Per Acre Basis**

| Item  | Unit  | Quantity  | Price     |                 | Total  | Your Farm |
|---|-------|-----------|-----------|-----------------|--------|-----------|
| ----- Dollars -----   |       |           |           |                 |        |           |
| <b>Receipts</b>   |       |           |           |                 |        |           |
| Corn  | Bu    | 138       | 3.20      |                 | 441.60 | _____     |
| <b>Purchases</b>  |       |           |           |                 |        |           |
| Nitrogen  | Unit  | 200       | 0.240     |                 | 48.00  | _____     |
| Phosphate   | Unit  | 100       | 0.244     |                 | 24.40  | _____     |
| Corn Seed   | Lb    | 16.0      | 1.50      |                 | 24.00  | _____     |
| Phorate   | Lb    | 6.75      | 1.70      |                 | 11.48  | _____     |
| 2-4-D   | Lb    | 0.5       | 3.25      |                 | 1.63   | _____     |
| Water   | Share | 0.5       | 13.00     |                 | 6.50   | _____     |
| Total purchases   |       |           |           |                 | 116.01 | _____     |
| <b>Operations</b>   |       |           |           |                 |        |           |
|   | Times | Ownership | Operating | Labor <u>1/</u> |        |           |
| ----- Dollars -----   |       |           |           |                 |        |           |
| Landplaning   | 2     | 5.80      | 1.09      | 0.84            | 9.66   | _____     |
| Fertilizer Application  | 1     | 3.95      | 0.42      | 0.36            | 4.73   | _____     |
| Triple K  | 2     | 2.94      | 0.89      | 0.73            | 6.18   | _____     |
| Planting  | 1     | 30.13     | 0.86      | 1.29            | 32.28  | _____     |
| Herbicide Application   | 1     | 2.24      | 0.35      | 0.48            | 3.07   | _____     |
| Cultivating   | 2     | 13.01     | 0.96      | 1.36            | 17.65  | _____     |
| Combining   | 1     | 16.73     | 10.93     | 3.10            | 30.76  | _____     |
| Hauling   | 1     | 3.94      | 2.86      | 1.19            | 7.99   | _____     |
| Drying, Custom @ \$0.18 Per Bu.                               |       |           |           |                 | 24.84  | _____     |
| Disking   | 2     | 7.79      | 1.34      | 1.12            | 12.71  | _____     |
| Plowing   | 1     | 15.98     | 4.57      | 3.37            | 23.92  | _____     |
| Irrigation, Flood   | 5     | 1.52      | 0.30      | 2.50            | 15.52  | _____     |
| Total Operations  |       |           |           |                 | 189.31 | _____     |
| Interest on Operating Capital for 6 months @ 11.00% <u>2/</u> |       |           |           |                 | 11.07  | _____     |
| Total Listed Costs  |       |           |           |                 | 316.39 | _____     |
| Return to Land, Labor, and Management                         |       |           |           |                 | 125.21 | _____     |

1/ Labor charged @ \$6.00 per hour, including benefits.

2/ No interest charged against fixed costs.

| Breakeven Price Per Bushel for Various Yields Per Acre |      |      |      |      |      |      |      |
|--|------|------|------|------|------|------|------|
| Bushels per Acre                                       | 123  | 128  | 133  | 138  | 143  | 148  | 153  |
| Dollars per Bushel                                     | 2.55 | 2.46 | 2.37 | 2.29 | 2.22 | 2.15 | 2.09 |

Prepared by Gilbert D. Miller and Larry K. Bond

**DRY ONION BUDGET**  
**Estimated Costs and Returns for Dry Onion Production (1991)**  
**50 Acres of Crop - Box Elder County - Per Acre Basis**

| Item   | Unit      | Quantity  | Price     |                 | Total    | Your Farm |
|--|-----------|-----------|-----------|-----------------|----------|-----------|
| ----- Dollars -----                              |           |           |           |                 |          |           |
| <b>Receipts</b>                                  |           |           |           |                 |          |           |
| Jumbos   | 50 Lb Bag | 560       | 3.80      |                 | 2,128.00 | _____     |
| Mediums  | 50 Lb Bag | 240       | 2.80      |                 | 672.00   | _____     |
| <b>Total Receipts</b>                            | 50 Lb Bag | 800       |           |                 | 2,800.00 | _____     |
| <b>Purchases</b>                                 |           |           |           |                 |          |           |
| Raw Seed   | Pound     | 2.0       | 67.50     |                 | 135.00   | _____     |
| Nitrogen   | Unit      | 110       | 0.24      |                 | 26.40    | _____     |
| Phosphate  | Unit      | 80        | 0.244     |                 | 19.52    | _____     |
| Micro Nutrients                                  | Acre      | 1.0       | 5.00      |                 | 5.00     | _____     |
| Roundup  | Quart     | 1.0       | 10.75     |                 | 10.75    | _____     |
| Goal   | Pint      | 1.0       | 4.28      |                 | 4.28     | _____     |
| Buctril  | Pint      | 1.37      | 6.60      |                 | 9.04     | _____     |
| Ammo   | Ounce     | 20.0      | 1.96      |                 | 39.20    | _____     |
| Penncap  | Quart     | 5.0       | 5.60      |                 | 28.00    | _____     |
| Bravo 720  | Pint      | 3.0       | 6.98      |                 | 20.94    | _____     |
| Hand Weeding                                     | Acre      | 1.0       | 67.00     |                 | 67.00    | _____     |
| Water  | Acre      | 1.0       | 6.50      |                 | 6.50     | _____     |
| Grading  | 50 Lb Bag | 800       | 1.25      |                 | 1,000.00 | _____     |
| Storage  | 50 Lb Bag | 800       | 0.50      |                 | 400.00   | _____     |
| <b>Total Purchases</b>                           |           |           |           |                 | 1,771.63 | _____     |
| <b>Operations</b>                                |           |           |           |                 |          |           |
|  | Times     | Ownership | Operating | Labor <u>1/</u> |          |           |
| ----- Dollars -----                              |           |           |           |                 |          |           |
| Plowing  | 1         | 15.98     | 4.57      | 3.37            | 23.92    | _____     |
| Disking  | 2         | 7.79      | 1.34      | 1.12            | 12.71    | _____     |
| Landplaning                                      | 1         | 5.80      | 1.09      | 0.84            | 7.73     | _____     |
| Bedding  | 1         | 5.94      | 1.05      | 0.89            | 7.88     | _____     |
| Harrowing  | 1         | 1.11      | 1.22      | 0.76            | 3.09     | _____     |
| Planting   | 1         | 8.90      | 0.63      | 0.96            | 10.49    | _____     |
| Fertilizer Application                           | 1         | 3.95      | 0.42      | 0.36            | 4.73     | _____     |
| Cultivation                                      | 3         | 16.12     | 1.73      | 2.68            | 29.35    | _____     |
| Spraying   | 8         | 2.24      | 0.35      | 0.48            | 8.88     | _____     |
| Irrigation                                       | 14        | 1.52      | 0.30      | 2.00            | 33.72    | _____     |
| Undercutting                                     | 1         | 16.11     | 2.10      | 1.79            | 20.00    | _____     |
| Mechanical Topping                               | 1         | 75.00     | 8.38      | 5.37            | 88.75    | _____     |
| Loading and Hauling, Custom                      |           |           |           |                 | 150.00   | _____     |
| <b>Total Operations</b>                          |           |           |           |                 | 401.25   | _____     |
| Interest on Operating Loan for 6 months @ 11.00% |           |           |           |                 | 119.51   | _____     |
| <b>Total Listed Costs</b>                        |           |           |           |                 | 2,292.39 | _____     |
| Return to Land and Management                    |           |           |           |                 | 507.61   | _____     |
| <b>Breakeven Price Per 50-lb Bag</b>             |           |           |           |                 | 2.87     | _____     |

1/ Labor charged @ \$6.00 per hour, including benefits.

Budget prepared by Lyle Holmgren with input from producers

**SAFFLOWER BUDGET**  
**Estimated Costs and Returns for Safflower Production (1991)**  
**Nonirrigated - 75 Acres of Crop - Box Elder County - Per Acre Basis**

| Item                                      | Unit  | Quantity  | Price     |                     | Total               | Your Farm |
|---|-------|-----------|-----------|---------------------|---------------------|-----------|
| Receipts                                  |       |           |           |                     | ----- Dollars ----- |           |
| Safflower                                 | Lb    | 900       | 0.10      |                     | 90.00               | _____     |
| Purchases                                 |       |           |           |                     |                     |           |
| Seed                                      | Lb    | 15        | 0.40      |                     | 6.00                | _____     |
| Nitrogen                                  | Unit  | 50        | 0.26      |                     | 13.00               | _____     |
| Treflan                                   | Pint  | 1         | 4.28      |                     | 4.28                | _____     |
| Total Purchases                           |       |           |           |                     | 23.28               | _____     |
| Operations                                |       |           |           |                     |                     |           |
|   | Times | Ownership | Operating | Labor <sup>1/</sup> |                     |           |
|   |       |           |           |                     | ----- Dollars ----- |           |
| Spring Plow with Chisels                  | 1     | 1.86      | 2.58      | 0.40                | 4.84                | _____     |
| Spring Plow with Sweeps                   | 1     | 1.66      | 2.30      | 0.36                | 4.32                | _____     |
| Cultaweeding                              | 2     | 1.43      | 2.05      | 0.30                | 6.13                | _____     |
| Weeding, Fert. & Chem. Application        | 1     | 1.91      | 2.03      | 0.30                | 4.24                | _____     |
| Planting                                  | 1     | 2.43      | 3.25      | 0.49                | 6.17                | _____     |
| Combining                                 | 1     | 11.35     | 7.32      | 0.92                | 19.59               | _____     |
| Hauling, Custom @ \$0.25 Per Cwt          |       |           |           |                     | 2.25                | _____     |
| Total Operations                          |       |           |           |                     | 47.54               | _____     |
| Interest on Operating Loan for 6 months @ |       | 11.00%    |           |                     | 2.76                | _____     |
| Total Listed Costs                        |       |           |           |                     | 73.58               | _____     |
| Return to Land and Management             |       |           |           |                     | 16.42               | _____     |

<sup>1/</sup> Labor charged @ \$6.00 per hour, including benefits.

| Breakeven Price Per Pound for Various Yields Per Acre |       |       |       |       |       |       |       |
|---|-------|-------|-------|-------|-------|-------|-------|
| Pounds per Acre                                       | 600   | 700   | 800   | 900   | 1000  | 1100  | 1200  |
| Dollars per Pound                                     | 0.121 | 0.104 | 0.092 | 0.082 | 0.074 | 0.067 | 0.062 |

Possible Management Strategy: Raising safflower on nonirrigated farmland may be an excellent crop in rotation with dryland wheat. Many tough to control weeds like jointed goat grass may be controlled with this rotation.

Budget prepared by Lyle Holmgren with input from producers

## MACHINERY DATA FOR BUDGETS INCLUDED IN THIS PUBLICATION

| Machine                        | New Price <sup>1/</sup> | Useful Life       | Annual Use |
|--------------------------------|-------------------------|-------------------|------------|
|                                | Dollars                 | ----- Hours ----- |            |
| Tractor 124 HP                 | 55,600                  | 10,000            | 400        |
| Tractor 77 HP                  | 27,200                  | 10,000            | 300        |
| Bale Wagon pull type           | 25,000                  | 2,000             | 80         |
| Forage Harvester               | 17,800                  | 2,000             | 89         |
| Combine                        | 69,000                  | 4,000             | 400        |
| Cutting Platform 15'           | 10,400                  | 4,000             | 200        |
| Corn Head 6 Row                | 18,500                  | 4,000             | 200        |
| Corn Planter 6 row             | 13,000                  | 1,200             | 9          |
| Cultivator 6 row               | 4,000                   | 2,000             | 19         |
| Disk, Tandem 16'               | 9,500                   | 2,000             | 32         |
| Dump Wagon                     | 8,000                   | 2,000             | 89         |
| Fertilizer Spreader            | 8,000                   | 1,200             | 39         |
| Front Dozer                    | 4,000                   | 2,000             | 89         |
| Grain Drill 12'                | 8,500                   | 1,200             | 27         |
| Baler, Standard                | 12,000                  | 1,200             | 64         |
| Swather, pull type             | 14,200                  | 2,000             | 80         |
| Land Plane 24'                 | 12,000                  | 2,000             | 40         |
| Plow 4 Bottom 2 Way            | 8,500                   | 2,000             | 55         |
| Sprayer pull type 30'          | 3,400                   | 1,200             | 17         |
| Triple K 20'                   | 4,000                   | 2,000             | 36         |
| Truck 2 ton 350 Bu bed         | 40,000                  | 3,000             | 250        |
| Truck 3/4 ton Pickup           | 15,000                  | 3,000             | 250        |
| Onion Bedder 15 ft             | 3,235                   | 2,000             | 12         |
| Onion Cultivator               | 3,500                   | 2,000             | 36         |
| Onion Lifter                   | 5,000                   | 2,000             | 12         |
| Onion Planter 6 row            | 6,500                   | 2,000             | 13         |
| Onion Topper 3 row             | 28,000                  | 2,000             | 37         |
| Safflower                      |                         |                   |            |
| Tractor, 180 HP, 2WD           | 85,000                  | 10,000            | 850        |
| Chisel Plow                    | 15,000                  | 2,000             | 250        |
| Cultaweeder                    | 15,000                  | 2,000             | 350        |
| Cultaweeder attachment         | 20,000                  | 2,000             | 150        |
| Deep Furrow Drill              | 18,000                  | 1,200             | 150        |
| Combine, 20 Foot               | 115,200                 | 4,000             | 350        |
| East Millard County:           |                         |                   |            |
| Swather, 16 ft. Self Propelled | 48,000                  | 2,000             | 200        |
| Rake, 32 ft. D/S               | 9,500                   | 2,000             | 100        |
| Baler, Large Square            | 65,000                  | 2,000             | 120        |
| Front-end Loader               | 7,800                   | 2,000             | 200        |
| Truck, 2-ton                   | 40,000                  | 3,000             | 300        |
| West Millard County:           |                         |                   |            |
| Swather, 14 ft Hyd/S           | 19,500                  | 2,000             | 200        |
| Baler, standard                | 15,000                  | 1,200             | 250        |
| Bale Wagon                     | 10,000                  | 200               | 200        |

<sup>1/</sup> New price reflects 10-15 percent off from full list price.

All machines fairly new. Operating costs would be higher for older machines due to higher repair costs.



## STOCKER FEEDER OPERATING BUDGET

### Estimated Costs and Returns 100 Head on Feed for 150 Days

| Item   | Number | Weight  | Price   | Unit | Per Steer           | Total  | Your Farm |
|--|--------|---------|---------|------|---------------------|--------|-----------|
|  |        |         | Dollars |      | ----- Dollars ----- |        |           |
| Receipts   |        |         |         |      |                     |        |           |
| Steers   |        | 713     | 82.00   | Cwt  | 584.66              | 58,466 |           |
| Expenses   |        |         |         |      |                     |        |           |
| Calf Purchase  |        | 450     | 97.00   | Cwt  | 436.50              | 43,650 |           |
| Feed <u>1/</u>                                       |        |         |         |      |                     |        |           |
| Corn Silage  | 27.4   | Lbs/Day | 21.67   | Ton  | 44.53               | 4,453  |           |
| Alfalfa Hay  | 6.7    | Lbs/Day | 65      | Ton  | 32.66               | 3,266  |           |
| Salt   | 0.07   | Lbs/Day | 80      | Ton  | 0.42                | 42     |           |
| Feeding Costs <u>2/</u>                              | 150    | Days @  | 0.14    | Day  | 21.00               | 2,100  |           |
| Total Feed & Feeding                                 |        |         |         |      | 98.61               | 9,861  |           |
| Other  |        |         |         |      |                     |        |           |
| Vet and Medicine                                     |        |         |         |      | 5.00                | 500    |           |
| Interest @ 11.00% <u>3/</u>                          |        |         |         |      | 23.47               | 2,347  |           |
| Death Loss @ 1.50% <u>4/</u>                         |        |         |         |      | 7.66                | 766    |           |
| Shrinkage 3.00%                                      |        |         |         |      | 17.54               | 1,754  |           |
| Marketing @ 2.00% Commission                         |        |         |         |      | 11.69               | 1,169  |           |
| Yardage @ \$0.07 /Day                                |        |         |         |      | 10.50               | 1,050  |           |
| Trucking   |        |         |         |      | 5.00                | 500    |           |
| Total Other  |        |         |         |      | 80.86               | 8,086  |           |
| Total Expenses                                       |        |         |         |      | 615.97              | 61,597 |           |
| Return to Land and Management                        |        |         |         |      | -31.31              | -3,131 |           |
| Breakeven Price to recover listed expenses (per Cwt) |        |         |         |      | 86.39               |        |           |
| Cost per Pound of Gain = \$.53 <u>5/</u>             |        |         |         |      |                     |        |           |

- 1/ Gain 1.75 pounds per day for 150 days = 263 pounds total gain.  
2/ Feeding costs include feed preparation and delivery to the manger.  
3/ Interest on the steer and feed for 150 days.  
4/ Average value of the steer times percent death loss.  
5/ Includes expenses for feed, feeding, medicine, death loss, and interest.

| Breakeven Selling Price for Various Death Loss and Interest Rates |               |        |        |        |        |        |        |
|---|---------------|--------|--------|--------|--------|--------|--------|
| Death Loss  | Interest Rate |        |        |        |        |        |        |
|   | 9.50%         | 10.00% | 10.50% | 11.00% | 11.50% | 12.00% | 12.50% |
| ----- Breakeven Price per CWT -----                               |               |        |        |        |        |        |        |
| 0.50%   | 85.23         | 85.38  | 85.53  | 85.68  | 85.82  | 85.97  | 86.12  |
| 1.00%   | 85.59         | 85.74  | 85.89  | 86.03  | 86.18  | 86.33  | 86.48  |
| 1.50%   | 85.95         | 86.10  | 86.24  | 86.39  | 86.54  | 86.69  | 86.84  |
| 2.00%   | 86.31         | 86.45  | 86.60  | 86.75  | 86.90  | 87.05  | 87.19  |
| 2.50%   | 86.66         | 86.81  | 86.96  | 87.11  | 87.26  | 87.40  | 87.55  |
| 3.00%   | 87.02         | 87.17  | 87.32  | 87.47  | 87.61  | 87.76  | 87.91  |

Possible management strategy: Reduce death losses to 0.5 percent by spending additional time each day checking and "doctoring" animals.

Budget prepared by DR. Norris J. Stenquist

**COW-CALF-YEARLING BUDGET**  
**Estimated Costs and Returns, Uintah Basin (1991)**  
**200 Brood Cow Operation**

| Item  | Number        | Pounds       | Price/cwt       | Total         | Per Cow       | Your Farm |
|---|---------------|--------------|-----------------|---------------|---------------|-----------|
| ----- Dollars -----                               |               |              |                 |               |               |           |
| <b>Receipts</b>                                   |               |              |                 |               |               |           |
| Steer Calves                                      | 65            | 525          | 90.00           | 30,713        | 153.56        | _____     |
| Heifer Calves                                     | 42            | 475          | 86.00           | 17,157        | 85.79         | _____     |
| Yearling Steers                                   | 22            | 700          | 78.00           | 12,012        | 60.06         | _____     |
| Yearling Heifers                                  | 14            | 650          | 74.00           | 6,734         | 33.67         | _____     |
| Cull Cows   | 24            | 900          | 52.00           | 11,232        | 56.16         | _____     |
| Cull Bulls  | 2             | 1500         | 48.00           | 1,440         | 7.20          | _____     |
| <b>Total Receipts</b>                             |               |              |                 | <b>79,288</b> | <b>396.44</b> | _____     |
| <b>Expenses</b>                                   |               |              |                 |               |               |           |
| <b>Feed</b>                                       | <b>Number</b> | <b>Units</b> | <b>Per Unit</b> |               |               |           |
| Forest Service                                    | 848           | AUMs         | 1.97            | 1,671         | 8.35          | _____     |
| Deeded Range                                      | 233           | AUMs         | 10.00           | 2,330         | 11.65         | _____     |
| Private Pasture                                   | 105           | AUMs         | 14.00           | 1,470         | 7.35          | _____     |
| Hay Produced                                      | 244           | Tons         | 60.00           | 14,640        | 73.20         | _____     |
| Aftermath & Fall Pasture                          | 654           | AUMs         | 7.50            | 4,905         | 24.53         | _____     |
| Supplements                                       | 3             | Tons         | 165.00          | 495           | 2.48          | _____     |
| Salt/Mineral                                      | 1.2           | Tons         | 45.00           | 54            | 0.27          | _____     |
| <b>Total Feed</b>                                 |               |              |                 | <b>25,565</b> | <b>127.83</b> | _____     |
| <b>Other</b>                                      |               |              |                 |               |               |           |
| Vet & Medicine                                    |               |              |                 | 1,200         | 6.00          | _____     |
| Trucking/Driving                                  |               |              |                 | 1,000         | 5.00          | _____     |
| Commissions, etc.                                 | 169           | head         | 9.00            | 1,521         | 7.61          | _____     |
| Hauling to Market                                 |               |              |                 | 1,857         | 9.29          | _____     |
| Supplies  |               |              |                 | 300           | 1.50          | _____     |
| Fuel & Lube (feeding, livestock care, etc)        |               |              |                 | 2,500         | 12.50         | _____     |
| Hired labor (includes benefits)                   | 300           | hours        | 6.00            | 1,800         | 9.00          | _____     |
| Repairs (fences and livestock equipment)          |               |              |                 | 3,500         | 17.50         | _____     |
| Property Taxes                                    |               |              |                 | 800           | 4.00          | _____     |
| Insurance   |               |              |                 | 300           | 1.50          | _____     |
| Replacement Bulls                                 | 2             | each         | 1,000           | 2,000         | 10.00         | _____     |
| Interest on Operating Capital @ 11 % for 6 months |               |              |                 | 832           | 4.16          | _____     |
| <b>Total Other</b>                                |               |              |                 | <b>17,610</b> | <b>88.05</b>  | _____     |
| <b>Total Expenses</b>                             |               |              |                 | <b>43,175</b> | <b>215.87</b> | _____     |
| <b>Non Cash Costs (depreciation)</b>              |               |              |                 |               |               |           |
| Fences and Corrals                                |               |              |                 | 1,250         | 6.25          | _____     |
| Livestock Equipment                               |               |              |                 | 600           | 3.00          | _____     |
| Horses  |               |              |                 | 250           | 1.25          | _____     |
| Buildings   |               |              |                 | 600           | 3.00          | _____     |
| <b>Total Noncash Costs</b>                        |               |              |                 | <b>2,700</b>  | <b>13.50</b>  | _____     |
| <b>Total Expenses and Noncash Costs</b>           |               |              |                 | <b>45,875</b> | <b>229.38</b> | _____     |
| <b>Return to Land &amp; Management</b>            |               |              |                 | <b>33,413</b> | <b>167.06</b> | _____     |

**Assumptions:** 200 cows in herd, 15 percent of cows replaced, 3 percent cow death loss, 25 percent bull replacement rate, 86 percent of cows raising a sellable calf, 25 percent of calves sold as yearlings, 25 cows per bull, cull bulls and cows sold in October, calves sold in October, yearlings sold in March, and heifers calve as 2 year olds.

**Feed Consumption:** 848 AUMs Jun 15- October 15, Forest Service; 105 AUMs May-October, Private pasture; 244 tons hay January 15-May 15; 654 AUMs aftermath & fall pasture October 15-January 15.

**Improving Returns:** One way to improve your income is to increase your calf crop as indicated by the table below.

|                           |        |        |        |        |        |        |        |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|
| Calving Percentage (%)    | 92     | 90     | 88     | 86     | 84     | 82     | 80     |
| Returns per Cow (dollars) | 192.24 | 184.18 | 175.12 | 167.06 | 158.00 | 149.58 | 140.82 |
| Total Returns (dollars)   | 38,447 | 36,836 | 35,024 | 33,413 | 31,601 | 29,916 | 28,164 |

Budget prepared by Bruce Godfrey

## MANAGING CALVES for HEALTH at WEANING

Clell V. Bagley, DVM, Extension Veterinarian

The process of weaning, shipping, and combining of calves often results in high rates of illness and some death loss. This causes an inefficiency in the beef production cycle that is unacceptable. Neither vaccination, drug use, nor management techniques will prevent all illnesses and death but they can reduce and control the problem.

The main diseases encountered at weaning are bovine respiratory disease (BRD) and coccidiosis, although other problems can also occur. The efforts at prevention and control should be directed as listed below.

### ***Coccidiosis***

Place feed in mangers and troughs to avoid fecal contamination. Provide drainage and fill to prevent accumulation of puddles from which the calves might drink. Begin feeding one of the coccidiostats within a few days of weaning and continue it for 3 to 8 weeks (depending on the product chosen).

If calves are placed on pasture or crop aftermath, give them enough room so they are not too concentrated. The coccidiostat is probably even more important and could be mixed and fed in a supplement or decoquinate can be mixed with salt.

### ***Bovine Respiratory Disease (BRD)***

The most critical period is the first 3 to 4 weeks. Observe the calves at least 2 to 3 times a day and watch for early evidence of BRD. Treat and isolate any calves which become ill until they have recovered. Keep stress at a minimum at weaning and for the next 3 to 4 weeks. Provide windbreaks, spray water in the corrals to reduce dust, etc.

Vaccination three weeks prior to weaning is best and allows use of a wider variety of products. Needed boosters can be given again at weaning. If that is not possible and the calves are first vaccinated at weaning, one should not count on a protective level of immunity from those vaccines for at least two weeks and really more like three weeks. By that time, the calves are past the greatest danger period. One exception is the use of intranasal IBR-PI3. It will stimulate the development of some nonspecific immunity in three days (via interferon) and fairly good protection by two weeks. Specific vaccines to consider include IBR, PI3, BRSV, BVD, Pasteurella, and Hemophilus as well as the Clostridial products.

A number of other management techniques can be used to reduce illness at weaning. These include confining the calves in a small pen to reduce their walking distance; letting the water trough run over to attract their attention and help wash out mucus and infection deposited from calves in early illness; stir feed several times a day so they will eat more; and feed a high energy feed, but unlimited amounts of fine alfalfa to prevent bloat. Prevention of disease is not just a matter of giving one shot and forgetting it; it involves doing all of these "little" things that seem so unimportant and yet make all the difference.

Economic factors must be considered as a producer decides whether to wean and ship the calves the same day or whether to wean and keep them for a period of time. Unless a premium is being received for preconditioning or the calves will be kept for at least 30 to 60 days, it is usually best to wean and ship immediately. Usually by 30 days the calves will have gained back their initial weight loss and enough extra to pay for some of the feed and labor involved.

**FARM FLOCK SHEEP OPERATION BUDGET**  
**Estimated Costs and Returns Based on a 100 Ewe Flock**

| Item   | Number | Weight | Price   | Unit | Total               | Per Ewe       | Your Farm |
|--|--------|--------|---------|------|---------------------|---------------|-----------|
|  |        |        | Dollars |      | ----- Dollars ----- |               |           |
| <b>Receipts</b>  |        |        |         |      |                     |               |           |
| Sheep and Lambs  |        |        |         |      |                     |               |           |
| Lambs  | 155    | 110    | 43.20   | Cwt  | 7,366               | 73.66         |           |
| Cull Ewes  | 20     | 150    | 20.40   | Cwt  | 612                 | 6.12          |           |
| Cull Rams  | 1      |        | 50.00   | Head | 50                  | 0.50          |           |
| Wool   |        |        |         |      |                     |               |           |
| Sold   | 102    | 10     | 0.51    | Lb   | 520                 | 5.20          |           |
| Incentive Payment  | 102    | 10     | 1.16    | Lb   | 1,183               | 11.83         |           |
| Unshorn Lamb Payment   | 155    | 110    | 4.97    | Cwt  | 847                 | 8.47          |           |
| <b>Total Receipts</b>  |        |        |         |      | <b>10,578</b>       | <b>105.78</b> |           |
| <b>Expenses</b>  |        |        |         |      |                     |               |           |
| Feed   |        |        |         |      |                     |               |           |
| Purchased Grain  | 11     |        | 160.00  | Ton  | 1,760               | 35.20         |           |
| Purchased Hay  | 61     |        | 65.00   | Ton  | 3,965               | 39.65         |           |
| Minerals   |        |        |         |      | 572                 | 5.72          |           |
| <b>Total Feed</b>  |        |        |         |      | <b>6,297</b>        | <b>62.97</b>  |           |
| Other  |        |        |         |      |                     |               |           |
| Replacement Rams   | 1      |        | 300.00  | Head | 300                 | 3.00          |           |
| Vet & Medicine   |        |        |         |      | 540                 | 5.40          |           |
| Supplies   |        |        |         |      | 200                 | 2.00          |           |
| Fertilizer   |        |        |         |      | 150                 | 1.50          |           |
| Marketing  | 176    |        | 2.27    | Head | 400                 | 4.00          |           |
| Machine Hire   | 8      |        | 45.00   | Hour | 360                 | 3.60          |           |
| Repairs  |        |        |         |      | 250                 | 2.50          |           |
| Pickup   | 2,000  |        | 0.32    | Mile | 640                 | 6.40          |           |
| Insurance  |        |        |         |      | 277                 | 2.77          |           |
| Utilities  |        |        |         |      | 390                 | 3.90          |           |
| Predator & Promotion Tax <sup>1/</sup> (100 head @ \$.75 per head) |        |        |         |      | 75                  | .75           |           |
| Property Tax   |        |        |         |      | 260                 | 2.60          |           |
| Interest   | 11,824 |        | 11.00%  | 6 Mo | 558                 | 5.58          |           |
| <b>Total Other</b>   |        |        |         |      | <b>4,400</b>        | <b>44.00</b>  |           |
| <b>Total Expenses</b>  |        |        |         |      | <b>10,697</b>       | <b>106.97</b> |           |
| <b>Noncash Costs</b>   |        |        |         |      |                     |               |           |
| Depreciation   |        |        |         |      | 917                 | 9.17          |           |
| <b>Total Expenses and Noncash Costs</b>                            |        |        |         |      | <b>11,614</b>       | <b>116.14</b> |           |
| <b>Return to Land and Management</b>                               |        |        |         |      | <b>-1,036</b>       | <b>-10.36</b> |           |

<sup>1/</sup> Predator and promotion tax could be exempt if the flock is within the city limits, however, an exemption would need to be requested from the Utah Department of Agriculture.

**Assumptions:**

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| Percent of ewes replaced . . . . 20 | Days on Pasture . . . . . 168     |
| Percent of rams replaced . . . . 50 | percent of lambs weaned . . . 175 |
| Number of ewes per ram . . . . 50   |                                   |

The cost of replacement ewes is included in the feed & other noncash costs.

Prepared by Ruby Ward and DeeVon Bailey

**SWINE BUDGET**  
**Farrow to Finish Operation, Southwestern Utah (1991)**  
**180 Sow Operation**

| Item   | Number | Weight | Price    | Unit  | Total          | Per Sow                 | Your Farm |
|--|--------|--------|----------|-------|----------------|-------------------------|-----------|
|  |        |        | Dollars  |       |                | - - - - Dollars - - - - |           |
| <b>Receipts</b>  |        |        |          |       |                |                         |           |
| Market Hogs  | 2,390  | 244    | 45.00    | Cwt.  | 262,422        | 1,457.90                | _____     |
| Cull Sows  | 35     | 450    | 33.75    | Cwt.  | 5,316          | 29.53                   | _____     |
| Cull Boars   | 3      | 450    | 22.61    | Cwt.  | 305            | 1.70                    | _____     |
| <b>Total Receipts</b>                                      |        |        |          |       | <b>268,043</b> | <b>1,489.13</b>         | _____     |
| <b>Expenses</b>  |        |        |          |       |                |                         |           |
| <b>Feed</b>  |        |        |          |       |                |                         |           |
| Sows and Boars   |        |        |          |       | 19,120         | 106.22                  | _____     |
| Market Hogs  |        |        |          |       | 143,400        | 796.67                  | _____     |
| <b>Total Feed</b>  |        |        |          |       | <b>162,520</b> | <b>902.89</b>           | _____     |
| Vet and Medicine   | 12     |        | 700.00   | Month | 8,400          | 46.67                   | _____     |
| Marketing <u>1/</u>  |        |        |          |       | 18,857         | 104.76                  | _____     |
| Hired Labor  | 12     |        | 1,800.00 | Month | 21,600         | 120.00                  | _____     |
| Death Loss <u>2/</u>                                       |        |        |          |       | 15,607         | 86.70                   | _____     |
| Insurance  | 12     |        | 250.00   | Month | 3,000          | 16.67                   | _____     |
| Property Taxes   |        |        |          |       | 1,200          | 6.67                    | _____     |
| Utilities  | 12     |        | 700.00   | Month | 8,400          | 46.67                   | _____     |
| Repairs  |        |        |          |       | 4,243          | 23.57                   | _____     |
| Breeding   | 12     |        | 510.00   | Month | 6,120          | 34.00                   | _____     |
| Fuel and Lube  |        |        |          |       | 2,400          | 13.33                   | _____     |
| Operation Interest on Operating Loan for 6 months @ 11.00% |        |        |          |       | 13,879         | 77.11                   | _____     |
| <b>Total Expenses</b>                                      |        |        |          |       | <b>266,226</b> | <b>1,479.03</b>         | _____     |
| <b>Noncash Costs (Depreciation)</b>                        |        |        |          |       |                |                         |           |
| Buildings  |        |        |          |       | 6,200          | 34.44                   | _____     |
| Breeding Livestock   |        |        |          |       | 6,325          | 35.14                   | _____     |
| Equipment  |        |        |          |       | 4,290          | 23.83                   | _____     |
| <b>Total Noncash Costs</b>                                 |        |        |          |       | <b>16,815</b>  | <b>93.42</b>            | _____     |
| <b>Total Expenses and Noncash Costs</b>                    |        |        |          |       | <b>283,041</b> | <b>1,572.45</b>         | _____     |
| <b>Return to Capital and Management</b>                    |        |        |          |       | <b>-14,998</b> | <b>-83.32</b>           | _____     |

1/ Includes trucking costs and a 4 % shrink.

2/ Includes 18 percent death loss of pigs from birth to market and an allowance for sow deaths.

A 21 day weaning period is used, but is not recommended unless a heated prenursery is available.

Budget prepared by Mike R. Thomsen and DeeVon Bailey

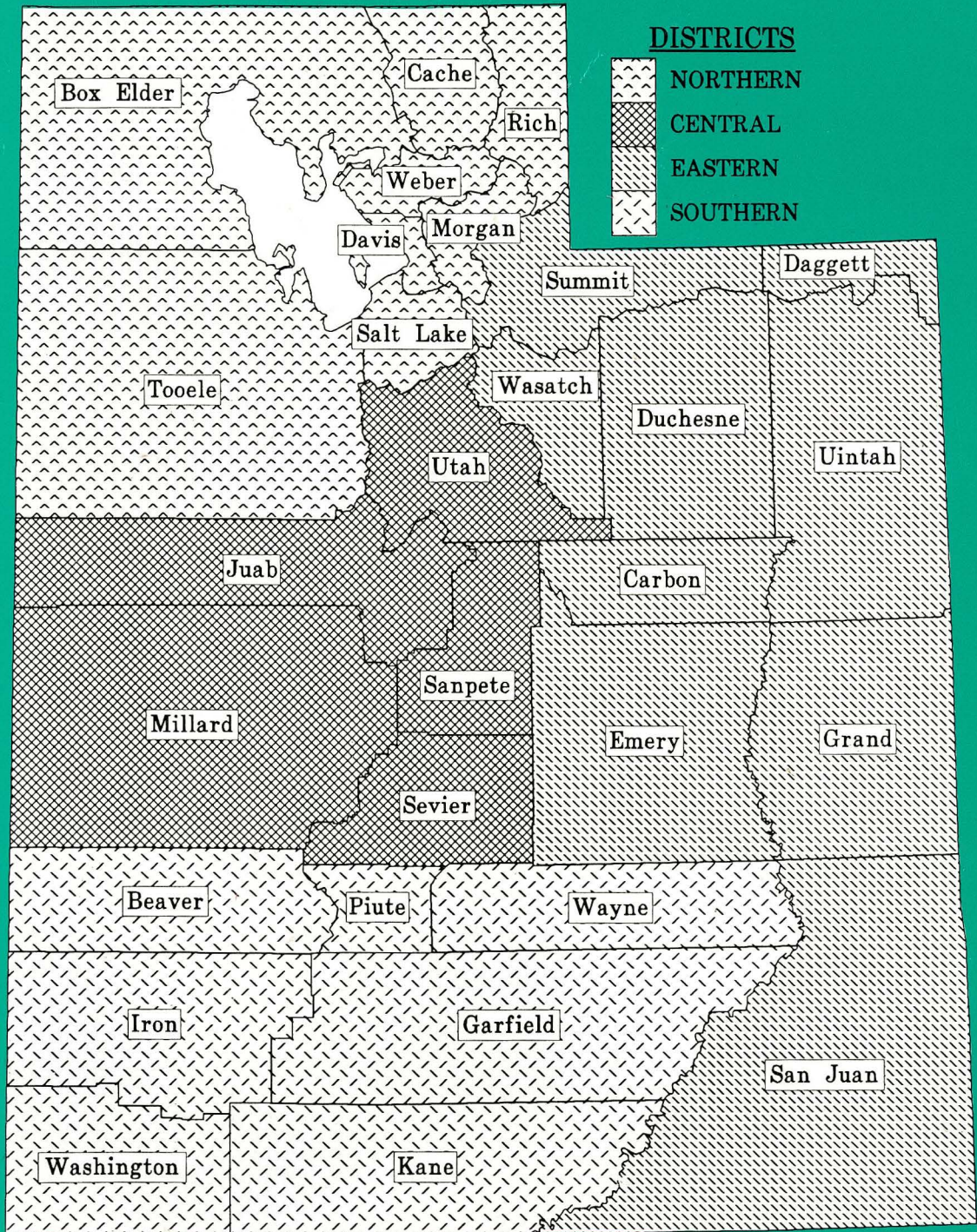


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