

**2000 UTAH AGRICULTURAL STATISTICS
AND
UTAH DEPARTMENT OF AGRICULTURE AND FOOD
ANNUAL REPORT**



OUR INTERNET HOME PAGE WEB SITES

Utah Department of Agriculture and Food (<http://www.ag.state.ut.us>)

The screenshot shows a Netscape browser window displaying the website for the State of Utah Department of Agriculture and Food. The browser's address bar shows the URL <http://www.ag.state.ut.us/>. The website features a navigation menu with links for Services, News, Saving Farmland, Food Safety, Contact Us, and Search Home. A sidebar on the left contains a vertical list of links: Market Reports, Education, Water Quality, Soil Conservation, Weather Reports, Utah Statistics, Farm Facts, Annual Report, Ag Links, and State Home Page. The main content area is titled "Of Prime Interest" and features a circular logo for "BEE SMART! DON'T BUY BEES" next to a text block about Africanized Honey Bees (AHB). The text states that AHB has been found just 30 miles from the Utah border in Mesquite, Nevada, and mentions a public awareness campaign. To the right of the text are several small images showing bees, a tomato, and a field. Below the text, there are links to UDAF brochures on AHB: "Africanized Honey Bee and Your Pets and Livestock" and "They Are Called Africanized Honey Bees". The browser's status bar at the bottom indicates "Document Done".

USDA - Utah Agricultural Statistics Service (<http://www.nass.usda.gov/ut/>)

The screenshot shows a Netscape browser window displaying the website for the Utah Agricultural Statistics Service. The browser's address bar shows the URL <http://www.nass.usda.gov/ut/>. The website features a navigation menu with links for WELCOME, WEEKLY WEATHER, UTAH STATISTICS, ANNUAL REPORT, UDAF Home Page, National Statistics, USDA Home Page, and Agricultural Census. The main content area is titled "Utah Agricultural Statistics Service" and includes the text "a State Statistical Office of the National Agricultural Statistics Service - United States Department of Agriculture". Below this, there are contact details for DelRoy J. Gneiting, State Statistician, and Roland M. Albert, Deputy State Statistician. The contact information includes addresses, phone numbers, fax numbers, and an email address: nass-ut@nass.usda.gov. At the bottom of the page, there is a section titled "Other Links" and a counter that reads "This page has been accessed 101843 times since September 15, 1999". The browser's status bar at the bottom indicates "Print this page".

Michael O. Leavitt,
Governor,
State of Utah



Dear Friends,

Utah Agriculture remains one of our state's consistent economic producers. Utah farmers and ranchers generate almost \$1 billion a year in raw products. By the time those crops reach our dinner tables, they've added approximately \$3 billion to the state's economy. Agriculture also means jobs. More than 100,000 people are employed by agriculture and agribusiness.

Utah is the nation's second largest producer of tart cherries, the third largest producer of apricots and the fifth largest producer of sweet cherries. Utah's high quality alfalfa hay is world renowned and helps drive the dairy industries in Utah, California and other states.

Global marketing of Utah agricultural products continues to grow. More international companies are putting Utah food and agricultural products on their store shelves than in any time in the past. It is not uncommon to see Utah dairy, poultry, fruit and livestock products on sale around the world.

Credit for these strides must go to Commissioner of Agriculture and Food, Cary G. Peterson. During the past year, Cary served as President of the National Association of State Departments of Agriculture, where he worked to improve export trade between the U.S. and foreign countries such as Canada, Mexico, China, and Japan.

The world's population is growing, and Utah farmers and ranchers are taking the steps necessary to strengthen their industries and insure our quality of life as we feed the world.

Sincerely,

A handwritten signature in black ink that reads "Michael O. Leavitt". The signature is written in a cursive, flowing style.

Michael O. Leavitt, Governor
State of Utah

Introduction

This publication is provided to help inform farmers, ranchers, and the public about activities within the Utah Department of Agriculture and Food, and provide a detailed look at Utah's agricultural production. Weather data for 1999 and normal are included in the publication. Weather data for 1998 and normal are included in the publication. Also included are budgets for helping farmers and ranchers evaluate the potential profitability of various agricultural commodities produced in the State.

The Utah Agricultural Statistics Service of USDA's National Agricultural Statistics Service (NASS) and the Utah Department of Agriculture and Food have jointly prepared this publication for the past 30 years. Estimates presented in the publication are current for 1999 production, and January 1, 2000 inventories. Data users that need 2000 information or additional historic data should contact the Utah Agricultural Statistics Service, phone 524-5003 or 1-800-747-8522 if outside the Salt Lake calling area. Statistics for other States and the United States are also available at the office or on the NASS Web page at <http://www.usda.gov/nass/>. Try the On-Line Database selection on the home page to access historic data. You will find it quite an interesting way to gather data. This data can be downloaded as a ".CSV" file and

imported into a spreadsheet that you can use to process the data in any manner you would like.

The agricultural statistics in this publication are the result of farmers, ranchers, and agribusinesses responding to various survey questionnaires during the year. Information they provided about their individual operations is confidential and used only in combination with other reports. A special thanks for their voluntary contribution to help make the estimates possible. Our NASDA enumerators deserve a big "Thank You" for their hard work in collecting data from farmers and ranchers. They have told me many times how nice the farmers and ranchers in the state are to them when they call on them for data.

Prior year estimates are subject to revision and may have been revised in this publication. Data users should use this publication for previous years data and not go back to earlier publications for earlier years data.

Information and statistics are an important part of decision making for farmers and ranchers. The internet has provided a tool to disperse a variety of information in a easily accessible timely manner. The following agricultural Web page sources may be of interest to you.

Organization

Web Page Address

U. S. Department of Agriculture (Includes all USDA Agencies)	http://www.usda.gov/
USDA National Agricultural Statistics Service (Plus Census of Agriculture)	http://www.usda.gov/nass/
USDA Utah Agricultural Statistics Service	http://www.nass.usda.gov/ut/
USDA Market News	http://www.ams.usda.gov/
USDA-Natural Resources Conservation Service, NRCS (NRCS Utah Snow Surveys and Water Supply)	http://www.ut.nrcs.usdagov http://utdmp.utsnow.nrcs.usda.gov
USDA Economic Research Service	http://www.econ.ag.gov
Fedstats (Statistics from Federal Agencies)	http://www.fedstats.gov/
The Federal Register	http://www.nara.gov/fedreg/index.html
Agriculture Sources	http://www.agsource.com/
Utah Department of Agriculture and Food	http://www.ag.state.ut.us/
Utah Department of Agriculture and Food - Market Reports	http://www.ag.state.ut.us/mn_main.ssi/
National Association of State Departments of Agriculture (NASDA)	http://www.nasda-hq.org
Salt Lake City National Weather Service	http://nimbo.wrh.noaa.gov/saltlake/
Western Regional Climate Center	http://wrcc.sage.dri.edu/
Utah Climate Center	http://climate.usu.edu/
USU Extension Service	http://ext.usu.edu/
Utah Agriculture in the Classroom	http://ext.usu.edu/aitc/
National Farmers Union	http://www.nfu.org/
Utah Farm Bureau	http://www.fb.com/utfb/
National Cattlemen's Beef Association	http://www.beef.org/
American Sheep Industry Association, Inc.	http://www.sheepusa.org
National Dairy Council	http://www.familyfoodzone.com
National Dairy Database	http://www.inform.umd.edu/edres/topic/agrenv/ndd

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DelRoy J. Gneiting, State Statistician
Utah Agricultural Statistics Service

2000 UTAH AGRICULTURAL STATISTICS AND UTAH DEPARTMENT OF AGRICULTURE AND FOOD ANNUAL REPORT

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Ron Bosecker, Administrator

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On the cover: Utah State University scientists conduct research that helps increase crop and animal production. Without the recent advances made in biotechnology, American farmers and ranchers would need twice the amount of acres that are in production today to meet our current food demand. We would like to thank Gary Neuenswander, USU Experiment Station for providing this photograph.

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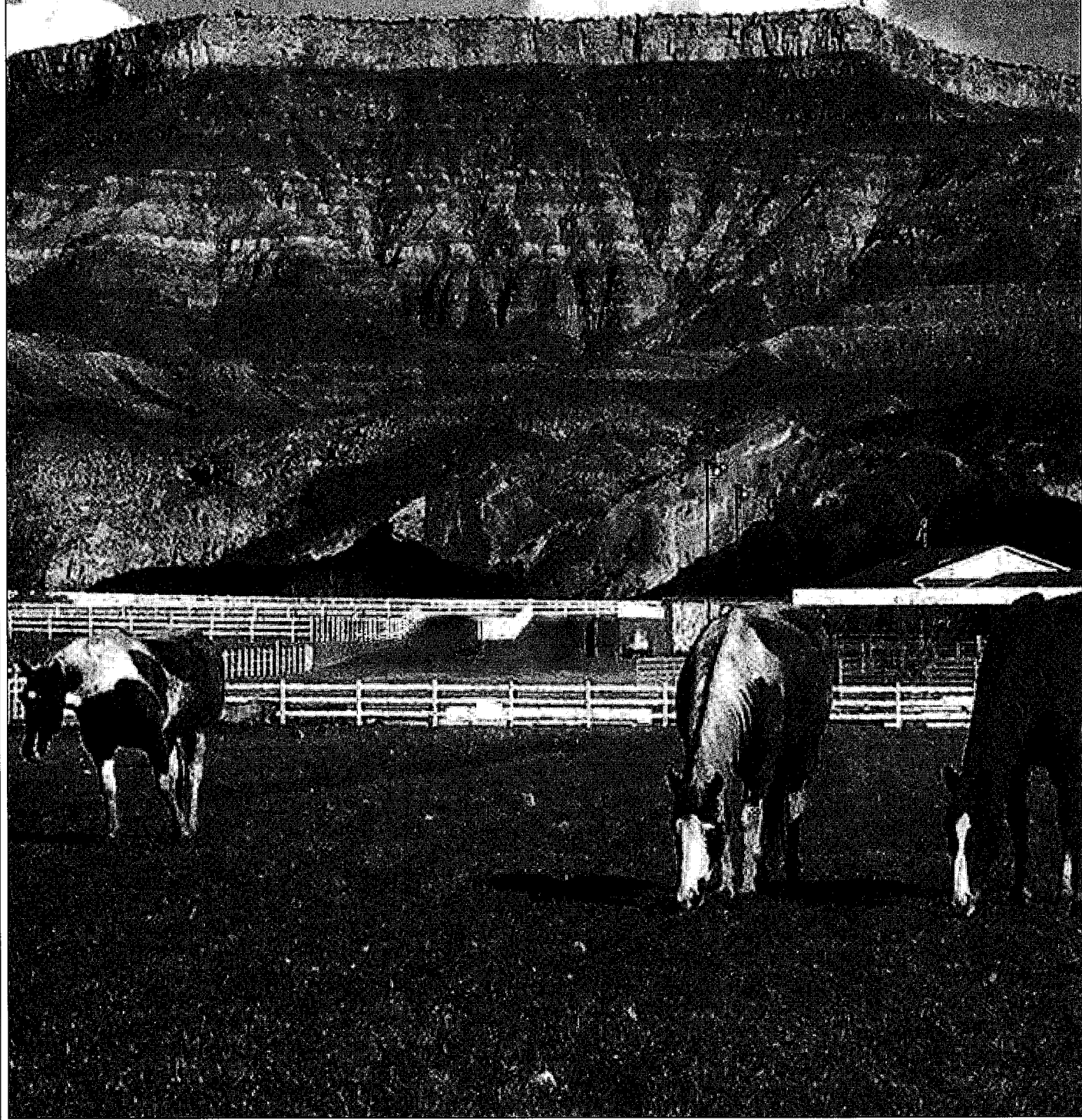
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Utah Counties and Districts Chart

**UTAH DEPARTMENT OF AGRICULTURE AND FOOD
2000 ANNUAL REPORT**



Utah Department of Agriculture and Food

Administration

Cary G. Peterson
Commissioner

Deputy Commissioner

Renee Matsuura
Director of Administrative Services

Randy Parker
Director of Agricultural Marketing and Conservation

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

Dr. David H. Clark
Director of Laboratory Services/State Chemist

G. Richard Wilson
Director of Plant Industry

Kyle R. Stephens
Director of Regulatory Services

Larry Lewis
Public Information Officer

Eileen Frisbey
Administrative Assistant

Joan Winger
Administrative Secretary

Agricultural Advisory Board

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Utah Farm Bureau Federation

Arthur Douglas Vice Chairman
Utah Farmers Union

Bob Bown Utah Dairymens Association

Tom Williams Utah Wool Growers Association

Richard V. Nielson Utah Cattlemens Association

George Dyches Food Processing Industry

vacant Food Supplement Manufacturers

Merl Thurgood Utah Horse Industry

Randy Greenhalgh Utah Assn. of Conservation Districts

Grant Tingey Utah Livestock Marketing Association

Carma Wadley Consumers' Representative

Dr. James Eaton Utah Veterinary Medical Association

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Compliance Specialist 538-7141

Public Information Officer 538-7104

Administrative Assistant 538-7105

Administrative Services

Director 538-7110

Budget and Accounting 538-7032

Data Processing Services 538-7113

GIS 538-9904

Personnel and Payroll 538-7112

Agricultural Marketing and Conservation

Director 538-7108

Ag Resource Development Loans 538-7176

Environmental Quality 538-7175

Livestock & Market News 538-7109

Environmental Quality Information Specialist 538-7098

Soil Conservation 538-7171

Agricultural Statistics (USDA) 524-5003

Animal Damage Control 975-3315

Animal Industry

Director 538-7160

Animal Health 538-7162

Animal Identification (Brands) 538-7166

Aquaculture 538-7029

Elk Farming 538-7137

Meat Inspection 538-7117

Serology Laboratory 538-7165

Chemistry Laboratory

Director 538-7128

Bacteriology Laboratory 538-7129

Feed & Fertilizer Laboratory 538-7134

Meat Laboratory 538-7132

Pesticide Residue Laboratory 538-7135

Plant Industry

Director 538-7180

Entomology 538-7184

Fresh Fruit & Vegetable Inspection 538-7183

Seed & Feed Inspection 538-7187

Grain Grading Lab (Ogden UT) 392-2292

Insect Infestation Emergency Control 538-7180

Noxious Weeds 538-7183

Pesticides/Fertilizers 538-7188

Seed Laboratory 538-7182

Regulatory Services

Director 538-7150

Bedding, Quilted Clothing, & Upholstered Furn. 538-7151

Dairy Compliance 538-7145

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Weights & Measures 538-7158

Commissioner of Agriculture
and Food
Cary G. Peterson



Dear friends of Utah agriculture,

It is with great pride that I write to you about Utah agriculture in this first year of the new millennium. The cover of this annual report depicts an important theme that will help agriculture prosper in the decades to come--biotechnology. Biotech and other scientific research will help farmers and ranchers meet the food needs of a growing worldwide population that is expected to double within 40 years.

Utah agriculture is playing an important part in assuring that our food supply will continue to be bountiful, safe and sustainable. Our university researchers are working with genetics to find safe ways to increase plant and animal production. Some new seed varieties can produce crops that fight off insects, thus reducing the need for pesticide use. And a growing number of new products are headed for USDA approval, such as boll weevil-protected cotton, biodegradable plastic polymers from oilseeds, and plant-based edible vaccines and industrial lubricants.

Utah's agricultural exports are already feeding the world. Utah wheat, alfalfa, livestock, dairy, and poultry products are on the shelves in many countries. The people we feed today will, tomorrow, be able to buy American goods and services in every other sector. And, of course, there is the added benefit that food-aid generates income for our struggling farmers.

But we can't feed the world without suitable farm and ranch land. Protecting that natural resource as our population increases is a significant challenge.

I'm reminded of the story of an elementary school class visit to a nuclear-powered submarine. One of the children asked the ship's commander a number of questions about how long the ship can stay under water. The commander replied that the ship has machines that can generate clean air, turn sea water into drinkable water and the submarine's nuclear power is virtually unlimited. But the commander admitted that the only time he **must** surface is when he runs out of food for his crew.

I'd like us to remember that while technology is a major contributor to our lives, it can't replace a sustainable supply of food and water, or fertile soil.

A handwritten signature in black ink that reads "Cary G. Peterson". The signature is written in a cursive style with a large, sweeping initial "C".

Cary G. Peterson, Utah
Commissioner of Agriculture and Food

Mission Statement

The mission of the Utah Department of Agriculture and food is to insure a high-quality, safe, readily available and sustained supply of food and fiber for the citizens of the state of Utah.

In doing this, we will promote the responsible stewardship of our state's land, water and other resources through the best management practices available. We will promote the economic well-being of Utah and her rural citizens by adding value to our agricultural products. We also aggressively seek new markets for our products. And we will inform the citizens and officials of our state of our work and progress.

In carrying out that mission, department personnel will take specific steps in various areas of the state's agricultural industry, such as the following:

Regulation

Department operations help 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 UDAF's animal industry, plant industry, weights and measures, and food and dairy inspectors, compliance officers and field representatives. It



Governor Leavitt and Commissioner Peterson conduct a news conference about emergency assistance for farmers following an irrigation water canal break in Weber County.

involves chemical analysis by the state laboratory, which is part of the department. 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.

Conservation

Through its variety of programs in this area, the department will work to protect, conserve and enhance Utah's agricultural and natural resources, including water and land, and to administer two low-interest revolving loan funds aimed at developing resources and financing new enterprises.

Marketing and Promotion

UDAF marketing section strengthens Utah's agriculture and allied industries financially by expanding present markets and developing new ones for Utah's agricultural products, locally, in the United States, and overseas as well. It also helps develop new products and production methods and promotes instate processing of Utah agricultural products for a stronger state economy.



European honey bees are attracted to a fire truck during an African bee safety demonstration in St. George. Emergency crews learned how to cope with African bees in anticipation of their migration to Utah in the future.

Commissioner's Office

Responding to an insect infestation, working to open new business opportunities for Utah meat processors, hosting multinational trade talks, and completing a reign as one of the nation's top agricultural leaders were a few of the accomplishments by Utah Commissioner of Agriculture and Food, Cary G. Peterson.

Commissioner Peterson completed his one-year term as President of the National Association of State Departments of Agriculture in September. As president, he worked to ease trade restrictions and open new markets for U.S. farmers and ranchers.

"It was an important year for agriculture and its leaders," said Commissioner Peterson. "From the challenges presented by natural disaster to the earth-shaking threats posed by worldwide economics, 1999 was a year that required state commissioners, secretaries and directors to accelerate our involvement," Peterson added. The following are highlights of recent actions taken by Commissioner Peterson:

With assistance from Plant Industry Division Director, Dick Wilson, declared an insect emergency to obtain legislative funding to fight the 18 county infestation that spread to nearly 1.5 million acres.

Worked with Utah's Congressional Delegation to draft legislation allowing state-inspected meat and poultry products to be shipped across state and international borders. Supported legislation that would give Utah processing plants access to new business markets.

As a primary member of the State's Quality Growth Commission assisted in the identification and preservation of open space and critical resource lands.

Earmarked more than \$200,000 of Critical Agricultural Land Conservation Fund for farmland protection projects. When the funds are used to purchase conservation easements, sometime in mid 2000, they will be some of the first public funds spent to protect critical agricultural lands.

Signed a request for federal disaster assistance following drought conditions in several Southern Utah counties. Also sought federal assistance following the collapse of a major irrigation canal in Weber County.

Assisted Utah Hay Growers in moving excess alfalfa and other hay to drought-stricken eastern states.

Under the direction of State Veterinarian, Dr. Michael R. Marshall, sponsored a first-of-its-kind symposium in the West on spongiform en-

cephalopathies. Information on diseases such as scrapie, bovine spongiform encephalopathy (BSE or mad cow disease), and chronic wasting disease (CWD), was offered to veterinarians, federal, state, and local agency representatives as well as others.

Transition completed in January of 2000, to the HACCP inspection program statewide. Nearly 50 meat and poultry processing plants under the new HACCP regulations. HACCP, or Hazard Analysis and Critical Control Point allows plant owners to customize their food safety/inspection programs while government monitor the process.

Retired: Deputy Commissioner of Agriculture and Food, Van Burgess retire in August of 1999, ending a 31 year career with the state of Utah. Burgess served as deputy commissioner since 1990.

Year 2000 Legislative Action

The FY 2001 General Fund appropriation of \$9,891,500 is an increase of 5.4 percent from revised appropriations for FY 2000.

The Legislature appropriated \$130,000 in one-time General Funds to combat an insect infestation in the spring of 2000. Funds were authorized as an FY 2000 Supplemental appropriation so that spraying and baiting could begin early in 2000. Last summer's infestation of crickets and grasshoppers is estimated to have cost Utah farmers about \$22.5 million.

The Legislature appropriated \$75,000 in one-time General Funds to implement a pest management program in which biological and chemical means would be used to control noxious weeds. The Legislature directed the Department to request additional funding in the 2001 General Session.

The Legislature appropriated \$90,000 in one-time General Funds to contract for services to improve private grazing lands in Utah.

Ag. in the Classroom: This program, operating in cooperation with Utah State University, provides youth a better understanding of the importance of food production from farms and ranches. The Legislature appropriated \$100,000 in one-time General Funds for increased participation through workshops and material for hands-on experiences.



(left) Outgoing President of the National Association of State Departments of Agriculture (NASDA), Utah Commissioner of Agriculture and Food, Cary G. Peterson, congratulates President-Elect, Fred Dailey from Ohio during NASDA's annual meeting in September.

The Legislature passed House Bill 234, "Trichomoniasis Prevention and Control", requiring the Department to make rules for prevention of the disease in cattle and bison. In order to fund the implementation costs of the bill, the Legislature appropriated \$50,000 in one-time General Funds.

The Legislature passed House Bill 15, which appropriated \$100,000 in General Funds for distribution to soil conservation districts, for developing conservation plans to keep farmland productive and waterways clean, and providing technical assistance to farmers and ranchers.

The Legislature appropriated \$80,000 from the General Fund Restricted- Brand Inspection Account to see that every person is given the opportunity to renew his/her brand or mark for an additional five years, and to publish a brand book in 2000.

The Legislature expanded the membership of the Agricultural Advisory Board from 11 to 12 members to include a representative of manufacturers of dietary supplements.

Public Information Office

The office of Public Information is an important link between the public, industry, employees, and the department. The office publishes various brochures, articles and newsletters as well as creates displays and computer presentations. The office also writes news releases and serves at times as spokesperson for the department. Public Information Officer, Larry Lewis completed a one year term as president of the Communications Officers of State Departments of Agriculture (COSDA). As president, he hosted the group's annual meeting and offered an information training seminar for COSDA members.

The Public Information Office achieved the following in the past year:

Created a computerized slide show presentation titled, "Reasons to Save Farmland." The presentation is available on the department's Internet web site: www.ag.state.ut.us.

Designed a children's worksheet on the importance of Utah farm and ranchland. The worksheet uses colorful Dr. Seuss characters and a storyline taken from the resource-conservation oriented story of The Lorax. The worksheet was distributed to 10,000 Utah elementary school students for National Agriculture Day in March. It is also available on the Internet.

Foundation for Agriculture in the Classroom

In 1981 John Block, the USDA Secretary of Agriculture, established the USDA/AITC program. Most Agriculture in the Classroom State Programs formed in the early 1980's. Agriculture in the Classroom (AITC) Programs encourage educators to integrate information about our food, fiber (clothes), soil, and our agricultural systems across the curriculum to assist students in understanding the pivotal role of agriculture in the U.S. and world economy. Students are also exposed to environmental and cultural issues impacting agriculture and to agricultural career op-

portunities. The long-range goal of the program is a citizenry that can make informed decisions on policies impacting the food and agricultural systems.

Agriculture in the Classroom

Over 700 pre-service teachers at four undergraduate institutions have been introduced to the Agriculture in the Classroom Program (AITC) again this year. Over the last five years 3,900 student teachers have attended AITC workshops. During these two or three hour presentations, prospective teachers (student teachers) learn about the AITC program and the resources and materials that are available to them. They are also given a "crash course" about the importance of agriculture. These presentations are made during regularly scheduled class times and scheduled each semester. Pre-service workshops were conducted on a semester basis at Westminster College, Brigham Young University, Utah State University, and Weber State University. Evaluations of these presentations were conducted this year.

Teacher In-Service Workshops

Four hundred and thirty teachers received in-service training this year directly from USU-AITC Staff. This is an increase of 17 percent over last year's 360 teachers. All the workshops were a minimum of two hours and some were 15-hour credit courses. Several districts have been contacted and have indicated an interest in holding workshops, staff time is the limiting factor.

Project Food, Land & People

This was our first full year offering Project Food, Land & People (FLP) as an in-service program. The "Resources for Learning" from FLP have found a niche with 4-7 grade teachers for social studies. In March, 17 facilitators were trained to provide teacher training in their local area.

New Social Studies Core Curriculum

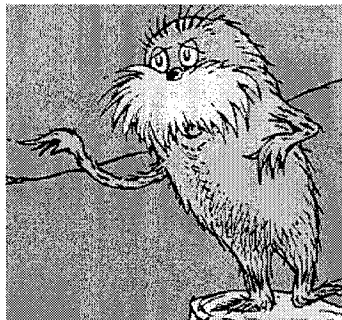
A new "Social Studies Core Curriculum" was developed this year; agriculture is part of the new state standards. Teachers will be required in the 2000-2001 school year to teach agriculture as it relates to social studies. AITC program materials had been seen by a number of individuals on the State Core Curriculum Committee. Because of our professional high quality program and materials, agriculture was included in the new core! This is most important event in the five-year history of AITC in Utah. This is a real opportunity for agriculture and the AITC program and hopefully will open the door to tight educational funding.

National Agriculture in the Classroom 2000 Conference

The National Conference was held in Salt Lake City June 14-17, 2000. Much time was spent this year securing a contract with the hotel, planning the conference agenda, theme, logo, and preparing to find sponsors for the various conference events.

State Fair 1999

Agriculture in the Classroom (AITC) provided over 5,000 children an educational ag-experience at the Utah State Fair. For a second year children, of all ages, could create an agricultural masterpiece. This hands-on agricultural experience allowed children to take home their creation. Activities included: living necklaces, potato stamp art, animal feed/seed activity page, seed collages, macaroni bracelets/necklaces, mobiles, and six coloring activity pages. Utah AITC Online: www.ext.usu.edu/aitc



The Lorax. A character in the Saving Farmland worksheet.

Administrative Services



Renee Matsuura
Director

The goal of Administrative Services is to provide continues, efficient and high-quality administrative support and services to the public and to agency users to assist the overall development of agriculture in Utah. Our motto is: Provide Exceptional Customer Service.

Financial Services

Accounts Payable - Purchase goods and services for the department, process, and audits and enter vendor payments, and insure accounting policies and procedures are utilized. Audit travels reimbursements to electronically provide repayment to employees within two days. Any fixed asset purchased must be tagged and physically audited annually for accountability.

Budget - The financial staff prepares budgets for review by the Governor's office and the Legislature. Monthly status reports and projections are generated for six divisions and 26 programs. These reports provide data to insure spending is within appropriate budgets.

Federal Grants - Administrative staff prepares and reviews grant requests, oversee and track expenditures for reimbursement. Reimbursement of expenditures are made bimonthly and funds are transferred electronically to the state within two days.

Enterprise and Internal Service Funds - Accounting staff prepare documents for internal service funds and enterprise funds. The department's trust funds are managed to include investing and investing funds with Utah Public Treasure's Investment Fund.

Licensing - Over 10,000 new or renewed licenses are processed annually in 36 categories for 10 regulatory programs, such as: livestock dealers, livestock markets, nurseries, beekeepers, upholsterers, weighman, and etc.

Other Services: Mail distribution, payroll, reception, and petty cash, receipt of cash, building security, building maintenance and motor pool services.

Information Technology Services

This year the Department's ITS group has worked to improve service, speed and dependability. In the spring of 1999, after being unable to get approval for an FTE, one of the divisions donated money from a vacant position so we could hire a temporary ITS technician to help speed up resolution of desktop and LAN problems. This spring we also acquired a temporary ITS intern from Salt Lake Community College to help with desktop support. The college allows us to use a certified intern for 125 hours at no cost. The department benefits while the intern gains real world experience.

Since April of 1999 our section has resolved over 1,141 problems requiring over 2,600 person hours. We have increased availability for emergencies by rotating an on-call cell phone among our ITS staff. This gives the department emergency technical support coverage on a daily basis from 7:00 a.m. to 5:00 p.m. on a request basis as needed.

Hardware - We have upgraded the production server to a 2x400 MHz. Pentium II (with a 50 GB. RAID 4 disk). We also converted to

a 10/100 MHz Ethernet. This gave most of the users in the building double the speed they did have and allowed us to boost our connection to our servers and to outside systems. This change also decreased the number of problems we were having with the WAN and allowed more work to be done.

Connections - This year Regulatory Services (in Ogden) became the second division to have a PC on the LAN outside of the Salt Lake office.

Software - This was the first year our web site hosted AVI video clips. These video clips allowed those interested to learn about the Africanized Bees. Our web server was later upgraded to Netscape's Enterprise server. We expanded Human Resource document imaging lookup to include division directors and updated our file server from NetWare 4.11 to 5.0. We also upgraded GroupWise email from 5.2 to version 5.5 which makes it easier for employees to coordinate lists with each other.

Considerable time was spent checking off Y2K milestones, had someone on call for 2 days before and after midnight on January 1st and working Saturday, January 1st to assure that all computer and phone systems were up and working as expected.

Human Resource Management Section

The Department of Agriculture & Food's Human Resource Management Office is an information office to service employees when first employed. They insure employees are given the proper orientation as a state employee. Employees are informed of the state benefit programs available to them. The following are a few of the state benefits provided: American Disability Act (ADA) in which employees may request an accommodation such as improving the work area ergonomically or change of work hours, and etc. Family Medial Leave Act (FMLA) is a benefit providing up to 12 weeks leave for the birth of a child, adoption of a child, placement of a foster child, a serious health condition of the employee or care of a spouse, dependent child or parent with a serious medical condition.

Agricultural Investigation and Compliance

The Agricultural Investigator major responsibility is to protect Utah producers and consumers by licensing and bonding all individuals who purchases agricultural products from the producer. There are seven livestock markets in the state that are bonded and licensed. Many livestock dealers, grain and hay dealers and produce dealers throughout the state that are required to be licensed and bonded to protect the producers in the state against loss of agricultural products to unscrupulous buyers. In conjunction with the attorney general's office, investigates violations of department statues and rules. The specialist works with division directors enforcing actions resulting from administrative hearings.

The Agriculture Investigator also work with the Wildlife Services program carrying out predator control on public and private rangeland. The program protects Utah Livestock and wildlife. The program is affected as regulatory challenge of federal agencies arises.

Wildlife Services



Mike Bodenchuk
Federal Program Director

To assist livestock producers and wildlife management activities, the U.S. Department of Agriculture and the Utah Department of Agriculture and Food conduct a cooperative program known as Wildlife Services (WS). The cooperative program, which includes 17 State wildlife specialists and 16 Federal employees is held up as a model for Wildlife Services programs throughout the nation. In 1998, Utah Governor, Mike Leavitt recognized the program with his Quality Service Award.

The WS program continues to address concerns of Utah citizens throughout the state. In addition to traditional livestock protection programs, the program offers protection of human health and safety, protection of wildlife resources including endangered species, crop protection from rodents and waterfowl and property protection. Environmental Assessments have been completed to analyze the impacts of the program and to aid in planning the most environmentally acceptable program. While there are no significant adverse impacts of the program on the human environment, the program is responsible for significant savings of livestock, increasing economic revenues in rural Utah and throughout the economy of the state.

The program is jointly financed with the federal government paying about half and the state and livestock cooperators providing the balance. Livestock producers pay a fee, nicknamed a "head tax" on classes of livestock protected. These fees are set by the legislature, which matches the funds and directs additional revenue to address wildlife protection. Significant money is added to the program by the Utah Division of Wildlife Resources at the direction of the legislature.

The objective of the predation management program is to minimize livestock and wildlife losses to predators on private, state and federal lands. WS carries out this objective by integrating methods such as non-lethal practices implemented by producers and limited lethal control of predators in response to losses. While predation is a significant cause of livestock loss, research conducted on losses in the absence of predation management indicate losses could be much higher. Based on these research loss rates and the number of livestock protected by the program, the WS program saved about 49,000 lambs, 9000 adult sheep and 2500 calves worth about \$3.75 million dollars. Based on standard economic multipliers for agriculture sector revenue, the value to the economy of the state from these savings exceeded \$15 million.

Protection of wildlife has been an increasing responsibility of the WS program. In 1999, the State of Utah and the Fish and Wildlife Service cooperated to return black-footed ferrets to the Uintah Basin. Black-footed ferrets are considered the rarest mammal in North America. Releases of ferrets in other states indicate

predation is a significant cause of mortality in the first 30 days following release. Without predation management, 30 day survival rates can only be expected to be 30 percent. WS protected the ferret release, removing coyotes and badgers not only to protect the ferrets but to monitor for diseases which would devastate the population. There were no known ferret losses to predators in the 30 day protection period.

Protection was also offered to Gunnison's sage grouse in San Juan County, Utah prairie dogs in Iron County, 12 separate mule deer units, seven pronghorn herds, three populations of re-introduced bighorn sheep and nesting waterfowl on critical wetlands throughout the state. In many cases, WS protection has reversed the declines of these populations, and continued protection will allow the wildlife to return to healthy numbers.

A mild fall in 1999 allowed the perfect environmental conditions for a population explosion of voles in the Cache Valley. Voles are field rodents which, in high numbers, cause significant losses to alfalfa plantings and pasture. Estimates of vole numbers were 10,000 voles per acre on the worst parts of the infestation. Because this was a highly unusual outbreak, requiring professional oversight, WS cooperated with landowners in coordinating grain bait purchases and cost-sharing toxicants. The program was very successful in reducing damage caused by the rodents.

Wildlife populations are hardly restricted to rural Utah. Heavily urbanized Salt Lake County has problems with raccoons and skunks requiring program attention. One urban wildlife specialist conducts a professional, accountable program to address damage and the threats to human health and safety from these species and other wildlife. In 1999, the WS Urban program addressed 680 calls for assistance from homeowners and agencies with otherwise unsolvable problems.

Additionally, WS assists airports throughout the state when wildlife threatens aviation safety. A recurring contract with the City of Salt Lake provides for management at Salt Lake International Airport. WS suggestions have been implemented at the airport and the threats to aviation safety have been significantly reduced. The importance of this program will increase with the increased air traffic associated with the 2002 Olympic games.

While the WS program has been highly successful in reducing losses to livestock and wildlife, increasing losses of habitat will continue to bring wildlife into conflict with human needs and desires. Society will continue to demand a professional approach to these problems, and the Utah WS program will continue to provide leadership in this area.

Ag. Marketing & Conservation



Randy Parker
Director

The goal of the Division of Agricultural Marketing and Conservation is two-fold: 1) To assist in the economic development of production agriculture; and 2) To protect and enhance the state's natural resources. The division works with agricultural producers and agribusiness's in expanding markets, adding value to locally grown commodities, developing new products and promoting within the state value added processing for local, national and international markets. In addition, the division works with food producers to protect and enhance the soil and water resources of the state through conservation and quality improvement programs.

Food and Agricultural Exports

Utah food and agriculture producers and processors continued the trend of the past decade in 1999-2000 by continuing to grow in the export market. As global companies continue to discover Utah, high quality food and agriculture products continue to find new customers worldwide. The Pacific Rim continues to be a growing destination for Utah's high value food products, the fastest growing agricultural export segment. Livestock and livestock products continue to be the foundation of export growth, with dairy products, alfalfa hay, poultry and fruit doing well.

Marketing

A major goal of the division is to assist Utah companies in developing markets locally, nationally and internationally to add value to Utah commodities. To assist in this effort, the division has expanded its ability to assist companies in developing marketing strategies and identifying resources. The division distributes various directories and brochures to help production agriculture as well as the fast-growing food processing sector develop new market opportunities. Both the Food and Livestock directories are being updated during 2000.

To capitalize on the E Commerce trend, the division has laid the foundation to expand their web site to include the Internet as a valuable marketing channel for Utah products.

In addition, the division is working closely with the Risk Management Agency (RMA) of the USDA to provide price risk management opportunities to Utah producers in addition to their traditional production risk management service.

International Market Development

The division has continued to help Utah food and agriculture entities in global market development. As a member of the 13-member state Western United States Agricultural Trade Association (WUSATA) and working closely with the U.S. Department of Agriculture's Foreign Agriculture Service (FAS), the division has assisted value-added food manufacturers in identifying opportunities and strategies for international market development.

Membership in WUSATA has helped the division in a number of export programs and initiatives. Utah consumer-ready foods

are eligible to participate in the Congressionally funded Market Access Program (MAP). MAP provides cost-sharing monies to eligible companies to assist them in their international market development. During fiscal year 1999-2000, the number of companies provided this assistance dropped from eight to five but the funding remained fairly constant at \$250,000 in matching funds. In addition, the division continues to manage promotional projects in Hong Kong and Japan that helps western regional and especially Utah companies into these markets.

The division hosted the annual two-day "Export Readiness" training session for Utah companies June 9-10, 1999. Seven Utah companies participated in the training. Some of the companies followed up their previous year's export activities with the professional export consultant sponsored by WUSATA with whom they had met the previous year. Other companies discussed their company marketing goals and agreed on strategies that they would develop and implement during the upcoming year.

The division also participates with U.S. Livestock Genetics Export, Inc. (USLGE) to assist Utah livestock producers develop export markets for sheep, beef and dairy genetics. The USLGE is a non-profit trade organization that facilitates coordinated efforts for international market development. Representing the interests of dairy, beef, sheep, horses, swine, semen, embryo and member state departments of agriculture, USLGE staff juggles varying organization interests to create a national strategy. This past year Randy Parker, Director of Marketing, was elected to the Board of Directors of the USLGE.

The UTAH LIVESTOCK EXPORT DIRECTORY continues to be distributed worldwide at a variety of exhibits and conventions such as Chihuahua and Sonora. The directory is being added to the division web site as well. As part of a MAP project funded through U.S. Livestock Genetics Export, Inc. (USLGE), the division coordinated a trade mission to Argentina and participation in the World Hereford Conference. The event is held every four years and is an opportunity for representatives from the U.S. and Utah to participate in discussions of marketing and breeding successes around the world. This year's event focused on "La Ganaderia del Nuevo Milenio" or "Cattle for the New Millennium". With Utah's historic foundation genetics being Hereford, global market opportunities and market forecasts shared by presenters at the conference will help define the department's role with the cattle industry.

Great American Food Shows

The division works with FAS to introduce Utah's high quality, consumer ready food and agriculture products to the world through Great American Food Shows. Utah companies interested in new international markets are able to participate in organized U.S. Pavilions that attract perspective consumers, importers, wholesalers and retailers.

Utah food products were some of the American consumer-oriented products featured during two major events in Hong Kong recently. Market Republic, the showplace in Hong Kong for American food and beverage products held a November-December "Great American Foods" promotion that included three Utah products, Bear Creek Country Kitchens soups, McFarland's Foods chicken bacon and sausage and Stephen's Gourmet Cocoa.

The U.S. Consulate General Agriculture Trade Office (ATO) in Hong Kong hosted the 7th annual "Great American Barbecue - Hawaiian Luau". Over 200 food and beverages products were prepared and presented to over 400 Hong Kong retailers, importers, restaurants and media representatives. The chicken bacon and sausage products of McFarland's Foods of Riverton, Utah were selected as one of the new products introduced during the Luau. The Western U.S. Agriculture Trade Association (WUSATA) co-sponsored each of the American food promotion events.

The division this year managed a Utah presence in three major international shows and assisted participants in other major shows. The division coordinated the Utah Pavilion at U.S. Food Export Showcase held in Chicago May 7-9, 2000. The show is sponsored by the National Association of State Departments of Agriculture and attracts over 6,000 international buyers annually. The Utah Pavilion included: Redmond Minerals, Kitchen Specialties, The Game of Work, EZ Foods, and UDA & F.

In addition, the division helped introduce three new products to European and global visitors attending ANUGA, the world's largest food show, held in Cologne, Germany October 9-14, 1999. The show attracted over 180,000 of the leading food industry representatives from throughout the world. Utah's representatives were part of a delegation of over 150 U.S. companies exhibiting in the American Foods Pavilion. Bear Creek Country Kitchens of Heber City, McFarland's Foods of Riverton and Brigham Young University of Provo displayed high quality products and cutting edge food technology. Two Utah products were selected for presentations and sampling to the nearly 100 NEW FOODS CONGRESS members, Bear Creek Country Kitchens and Brigham Young University. NEW FOODS headquartered in Hamburg, Germany holds its annual meeting in Cologne in conjunction with ANUGA to review new food technology from around the world. Bear Creek displayed their flagship high quality soup products, and BYU introduced "Sparkling Yogurt".

BYU's Sparkling Yogurt was judged the second best new technology of the year. The second place showing helped attract scores of potential partners in Europe and other countries around the world for BYU.

FOODEX 2000, held in Tokyo, Japan March 7 - 10, is the largest Asian food show attracting over 30,000 people. The division coordinates the Western U.S. Pavilion as part of a generic program funded through WUSATA. Over 25 companies from the 13 western states participated in the event. Bear Creek Country Kitchens was a success story at the show signing a contract with Mitsubishi to market their products in Japan.

Agribusiness Park Concept

The Marketing Division of the Utah Department of Agriculture and Food was instrumental in studying the feasibility of the development of an agriculture business park in Box Elder County.

The agribusiness park concept is being promoted to encourage agricultural based value-added production companies to locate in Utah. Companies locating in the park will be expected to provide financial benefit to growers through purchases of Utah grown agriculture products. The Agribusiness Park Concept enjoys broad support from the local community. The UDAF joined with several other organizations in supporting the feasibility study of the park concept.

Agribusiness Development Council

The Governor's Agribusiness Development Council continues to serve as a bridge between UDAF and the Department of Community and Economic Development. With leaders in Utah's food and agriculture industry serving on the Council, it is the catalyst for developing and implementing strategies for adding value to Utah's agricultural commodities and strengthening our rural economy. The Utah Food and Agriculture Directory, a database developed under the direction of the Council, continues to be distributed to a global audience to attract potential business opportunities to Utah. The Council continues to focus on new technology, innovation, niche market development and the finance problems facing food and agriculture.

Product of Utah Program

The Product of Utah program continues to be successful in identifying Utah grown and produced products to local consumers. A broad range of food and agricultural products are more recognizable to Utah consumer because of point of purchase materials, informational brochures, print and electronic media advertising. In recent years the program has broadened to include non-agricultural items especially in the sports and recreation areas. Utah has become known worldwide as a sports and recreation destination and marketing with an official Utah identification has helped open new markets.

There are currently over 200 companies that participate in the trademarked program. An area of recent success has been international recognition. The state and many companies at international trade shows have featured the Product of Utah logo.

Utah is fast becoming known for its high quality products and the exciting innovation. You will see the logo on products at the store, in various advertising and feature programs like "Shop Utah" hosted by Margo Watson on KJZZ television.

Groundwater and Rangeland

The Department's rural ground water, well testing and rangeland monitoring programs continue to grow. The Utah Ground Water Program monitors ground water quality throughout the state as requested by local soil conservation districts. The primary focus of the program is to check irrigation and livestock well water quality. Single family wells are also evaluated. The data help farmers and ranchers in their efforts to increased production and assess and improve water quality.

In 1999, sampling began in the Uintah Basin and continued in Box Elder County and the Pavant Valley, working with the Utah Division of Water Rights. For the first time water samples were tested for bacteria. Results from the approximately 400 wells tested show that about 40 percent were contaminated with coliform and 5 percent were found to have E-coli present.

In 2000 the geographic focus of the program will shift to Southern Utah including areas in Iron, Washington, Kane, Garfield, Wayne and San Juan counties. Program coordinators expect to collect and process about 600 samples this year.

The Rangeland Monitoring Program is a cooperative effort with the Utah Division of Wildlife Resources to study trends in range conditions throughout the state. Each summer a crew of range scientists, biologists and technicians study a different region of the state. For 2000 the rangeland-monitoring program will be in the Book Cliffs area and throughout Daggett, Duchesne and Uintah counties.

Non-point Source Pollution

Animal Feeding Operations (AFOs) is the biggest topic nationally and in Utah in the area of Non-point Source (NPS) pollution. In March 1999 the USDA and EPA released a national strategy to deal with CAFOs. During the past year a committee in Utah made up of agencies and groups interested in livestock issues and water quality has been working on a Utah-equivalent strategy. That strategy is now ready for release and work is beginning to assess and inventory livestock operations throughout the state. The Utah Non-point Sources Task Force has already started funding AFO demonstration projects in places throughout the state such as Rich, Sanpete and Beaver counties.

Work also continues in coordinated watershed efforts throughout the state. The Beaver River watershed in Beaver County has seen the largest funding increase, with more than \$400,000 committed this fiscal year. Efforts continue in other watersheds such as Chalk Creek in Summit County and the Little Bear River in Cache County.

Market News Reporting

The Market News Section provides a vital service to the state's agriculture and agribusiness community. Market information is critical to the decision making process. Critical information is provided through print media, broadcast media, call-in service, a weekly mail market summary and the most up-to-date information on the department's worldwide web site. The service provides an unbiased market report of market activity. The hay market report compiles both buyer and seller data to provide and accurate, unbiased report. There are currently over 400 subscribers to the weekly report and 2,000 hits per month on the web site. Division personnel or contract reporters monitor livestock auctions in Cedar City, Salina, Spanish Fork, Smithfield and Ogden.

Junior Livestock Shows

The division administers the legislative mandated and funded program to assist the state's junior livestock shows. Funds are allocated through a formula that promotes youth involvement and a quality educational experience. The Junior Livestock Show Association has developed rules with which shows and youth participants must comply to qualify for state assistance. The funding provided by the legislature must be used for awards to FFA and 4-H participants and not other show expenses. During the past year, 18 junior shows were awarded funds to assist in this youth development program.

Utah Horse Racing

The division administers the legislative mandated responsibility of monitoring the Utah horse racing industry and associated tracks. As provided by 1992 legislation, a regulatory process was established, with periodic changes to meet changing needs or based on industry input, to govern Utah horse racing. A five-member Commission appointed by the Governor and approved by the State Senate oversees the process. This authority is important in establishing recognized times and the associated values of Utah Quarter Horses. During the past year, nearly half of the horses running on sanctioned tracks received Rating of Merit (ROM), an indexes that establishes horse values and stud fees. Without this regulatory system and sanctioning body being in place, Utah quarter horse races and associated times would not be recognized resulting in the loss of millions of dollars of value to our horse industry.

Agricultural Resource Development Loans

Low-interest ARDL loans are available through the Utah Soil Conservation Commission in cooperation with the division's program. ARDL loans are made for a maximum term of 12 years at 3 percent interest with a one-time administrative fee of 4 percent. The objectives of the program are to: conserve soil and water resources; increase agricultural yields for croplands, orchards, pasture, range, and livestock; maintain and improve water quality; conserve and improve wildlife habitat; prevent flooding; conserve and/or develop on-farm energy; and reduce damages to agriculture as a result of flooding, drought, or other natural disasters.

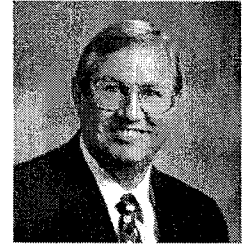
The Legislature appropriated \$555,000 in FY 1999-2000. The ARDL program currently has more than \$24.7 million in assets and more than \$16.8 million out in loans. More than \$40 million has been advanced for improvement projects by the ARDL program since its beginning. The program continues to grow from interest collected on revolving loan funds. There are approximately 900 individual loans outstanding in the program.

Rural Rehabilitation Loans

The Rural Rehabilitation Loan Program is another source of low-interest loans for farmers and ranchers. The purpose of this program is to help those who want to buy, begin or improve an agricultural operation but who have trouble getting conventional financing. The current interest rates for these loans are from 5 to 6 percent. This loan fund was augmented by an appropriation of \$1 million by the Utah Legislature to assist distressed farmers in 1992. Total assets for this fund are more than \$4.6 million with \$3.2 million out in 66 individual loans. Delinquencies in all loan programs are very low.

Both the ARDL and Rural Rehabilitation programs have successfully provided assistance to many farmers and ranchers in implementing conservation improvements and practices they otherwise could not afford.

Animal Industry



Dr. Michael R. Marshall
Director

The Animal Industry Division of the Utah Department of Agriculture and Food contains six main programs:

Animal Health — with special attention to animal diseases that can be transmitted to humans.

Serology Laboratory — testing of animal blood for disease detection and control.

Meat and Poultry Inspection — to assure wholesome products for consumers.

Livestock Inspection (brand registration and inspection) — to offer protection to the livestock industry through law enforcement.

Fish Health — protecting the fish health in the state and dealing with problems of fish food production and processing.

Elk Farming and Elk Hunting Parks.

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

Animal Health

Disease free status was maintained in the disease categories: Brucellosis, Tuberculosis, Scabies, Pseudorabies, and Salmonella pullorum.

Disease monitoring programs continued from prior years include those for heartworm, equine encephalitis, equine infectious anemia, rabies, brucellosis, tuberculosis, pseudorabies, salmonella sp., mycoplasma, etc.

Division veterinarians met with the various livestock enterprise groups, farm organizations, veterinary associations and other groups in the state to receive input concerning their needs. Disease concerns such as Trichomoniasis, Johne's Disease, and the new changes in the brucellosis vaccination and testing requirements were discussed. Veterinarians testing for Trichomoniasis in bulls reported 131 positive cases in the state during the 1999 breeding season. This was a sufficient number of cases to prompt livestock owners in the state to seek legislation and funding to require testing of all bulls in the state.

Voluntary disease control programs are at the forefront of the effort to improve the animal health of the nation. Programs such as the Utah Egg Quality Assurance Plan, and the National Poultry Improvement Plan were continued, with department monitoring of the quality assurance plan of each participating farm. Other voluntary control programs are being developed in the areas of a Johne's Disease Control Program in cattle, a premise identification system for dairy, poultry, and swine producers, TB and brucellosis herd accreditation for elk, as well as a mandatory monitoring program for Chronic Wasting Disease in Utah's private elk herds. A hunter harvest surveillance for Chronic Wasting Disease was conducted by the Utah Department of Agriculture and Food (UDAF) with cooperation from the Division of Wildlife

Resources and the USDA. The Surveillance was requested by the Centers for Disease Control and funded by USDA. More than 600 samples were collected and submitted to the National Veterinary Services Laboratory. All were negative, as were over 150 samples collected the previous year.

The department veterinarians monitored livestock imports into the state by reviewing 11,422 certificates of veterinary inspection and several hundred livestock movement reports. Approximately 308 violations of Utah import regulations were investigated, four quarantines were issued, and six citations were given with fines of \$807 collected.

A continued cooperative effort of the UDAF with the BLM, resulted in the round up and testing of 216 free-ranging horses on BLM lands in the same area where Equine Infectious Anemia was detected the previous year. Testing revealed 32 infected animals which were humanely euthanized. The elimination of these diseased carrier animals from a wild horse herds is a huge step in protecting Utah's horse population from the threat of EIA. A small outbreak of six cases of EIA also occurred in horses in the Promontory area where an outbreak was identified the previous year. The herd was quarantined for 45 days and retested. Horses on surrounding ranches were tested and no further positive animals were identified. All the positive animals were humanely euthanized.

The reported incidence of Heartworm in Utah remained level in 1999 with 120 cases. This may have been the result of division veterinarians re-emphasizing the reportable nature of the disease to veterinarians and their clients during the previous year. This effort resulted in a significant decrease in the number of diagnosed cases where the owner was electing to do nothing to prevent the animal from being an exposure risk to other animals. Other diseases of a reportable nature included Paratuberculosis - 3 cases, Rabies - 8 cases (all bats), Psittacosis - 4 sero-positive cases (0 clinical).

Division veterinarians are involved with certifying Utah agricultural products for export by issuing certificates of veterinary inspection. They performed 45 on-site inspections for brine shrimp being exported, and 487 export certificates were issued. The division is responsible for licensing hatcheries, qualified feedlot operators, and swine garbage feeders in the state. Fifteen such licenses were issued and on-site inspections were accomplished.

The number of hatcheries in the state is increasing in the ostrich and gamebird industries. The division also administers the National Poultry Improvement Plan in the state. This is a voluntary testing program wherein a flock may be certified disease free in several important disease categories. Participants in the program enjoy significant benefits when shipping birds, eggs, and products in commerce.

The Animal Health section has the responsibility of providing veterinary supervision and service to the livestock auction markets in Utah in furtherance of our disease control and monitoring programs. The program is administered by division veterinarians using private veterinarians on contract with the state. More than 500 weekly livestock sales conducted by nine licensed and bonded sale yards in the state were serviced under this program. Division veterinarians also provided oversight for veterinarians and technicians involved with brucellosis vaccinations and veterinarians issuing certificates of veterinary inspection for interstate movement of animals. Veterinary expertise is also provided for CSEPP, a statewide emergency response organization, as well as other emergency response programs in the state.

State-Federal Cooperative Laboratory

The primary mission of the State-Federal Laboratory is to conduct tests on blood and milk samples to help protect the health of animals and humans.

In 1999, the State-Federal Laboratory conducted the following tests:

Brucellosis serology tests	47,155
Brucellosis ring tests	3,724
Rivenol brucellosis confirmation tests	292
Equine infectious anemia tests (coggins)	934
Other miscellaneous tests	2

During 1999 the laboratory dispensed 47,010 doses of RB-51 brucellosis vaccine. In addition, 56 vials of tuberculin test reagent were dispensed. Other miscellaneous supplies were dispensed to private practitioners, government veterinarians and technicians.

The laboratory staff and other animal health personnel issued 2,516 import permits for livestock, poultry and other animals. The fish health program has begun using the laboratory facilities in a limited way for things such as media preparation and storage of other reagents, etc.

Meat and Poultry Inspection

The Utah Meat and Poultry Inspection Bureau has consistently grown in our responsibilities to the Utah consumer. The number of inspected meat processing facilities throughout the state has grown slightly this past year. We have added two new plants to our list of official inspected facilities. We routinely answer calls from individuals that are interested in pursuing an interest in the meat industry. We work to allow these individuals the opportunity to produce meat products in a clean, well built and sanitarily maintained facility that fits the minimal requirements established by United States Department of Agriculture.

The scheduling of daily plant inspection tasks has been addressed by the computerized scheduling by the Performance Based Inspection System (PBIS). Although the system is relatively new, we are currently undertaking an upgrade to make it even more efficient and more economical by using the new computer systems that are now in the hands of most of the inspection staff. This new system is called the Field Automation and Information Management system or FAIM. This system gives each inspector

access to either a laptop or desktop computer to accomplish their work and document the results. The computers are invaluable to the field inspectors by allowing them to report to the office in real time what is going on in the remote plants throughout the state. We have effectively used the electronic forms of communication to make the system become a valuable part of everyday life of our inspection program. An extensive electronic library is also included for reference and training for the inspector in the field.

The inspection procedure for meat has changed dramatically in the last few years. We have been supportive of the new safety procedures that are now in place throughout Utah. This new system, called HACCP, (Hazard Analysis and Critical Control Points) allows each plant to address their own operation and to create a plan that fits the specific production, products, techniques, and facility that they operate. Basically the plant management team looks at each production process within the plant and analyses each one for any potential of a physical, chemical, or biologic hazard to the consumer. They then address methods that their specific process will control or eliminate that hazard. Their actions are monitored and tracked on each production day at the various critical control points for each hazard that they identified. Meat inspection staff are tasked to review the plans for seven specific steps to ensure the plan meets minimum functioning status. The inspectors will then concentrate on the process each plant operates under rather than the old command and control techniques of watching and directing all actions within a plant. The inspectors will verify the plant's documents and observe the plants actions at the prescribed critical control points. The final validation of each lot of product at the pre-shipment review point is also reviewed by the inspector. The plant management is in total control of all product and the sanitary production of meat products. If an inspector notes anything that is not in keeping with the plant's plan or if anything is creating a product that may be harmful to a consumer, the inspector has the authority to take immediate control action. Our goal is the assurance to the consumer that the meat products they purchase are of the highest safety standards and quality.

As a coordinated effort for meat safety and the implementation of the new HACCP process of inspection, our office has been a key for the sampling and testing of meat products for biologic hazards. We have been instrumental in the development of several testing programs that include surveys for Salmonella, E. coli, and Listeria. These pathogens have been incriminated in human illness recently and are critical elements in the food safety efforts in our meat production facilities. We have completed hundreds of samples over the last few years and look forward to an increased frequency and variety of tests to verify the wholesomeness of Utah meat products and the functioning of the new and individual control methods used within each plant in the state. Our goal is to maintain the high quality and safety that the Utah meat consumer has been use to up to this point and validate that confidence level with the appropriate and timely testing.

We are looking forward to a new era inspected Utah meats. Senator Orin Hatch has introduced a bill to United States Congress that would allow state inspected product to cross all borders and become equal to federally inspected meats. This will open many new markets to our meat and poultry production fa-

cilities in Utah. The United States Department of Agriculture will review our state meat inspection program annually to validate that it equals the federal program. The state of Utah has adopted all the federal standards many years ago and strictly adheres to all the federal standards. This will be a welcome addition to the meat and poultry inspection program and also to all those plants that work so hard to produce wholesome meat products. We eagerly anticipate the passage of this bill later this spring.

Livestock Inspection

The Livestock (Brand) Inspection Bureau consists of 14 full-time special function officers and 50 part-time inspectors. Their job is to protect the Utah livestock industry from accidental straying or theft of livestock. In addition to inspecting all cattle and horses at the state's nine weekly auctions, field inspections are done on all livestock prior to changing ownership, leaving the state and going to slaughter. During 1999, 620,000 individual cattle and horses were inspected with \$1.3 million worth of livestock being returned to their proper owners.

Renewal of some 20,000 livestock brands and earmarks was accomplished in 1995. As mandated by law, the process occurs every five years in order to keep brands current. The renewal process will again take place during 2000, with a new brand book expected to be published in the summer of 2001. In addition to each brand owner being listed in the Centennial Brand Book, the department issued everyone a laminated wallet-size proof of ownership card. The ownership card is intended for use during travel and when selling animals at auctions. A supplemental brand book has been published showing all individuals who have recorded a brand since 1995. The Centennial book and supplement are available to the public at a cost of \$25.00. The bureau recorded 486 new brands during 1999 and is seeing more interest in the recording of brands for horses.

The brand department started collecting the cattlemen's part of predator control money in 1996. During 1999, livestock inspectors collected \$105,000 in predator control money. This money, like the beef promotion money, which has been collected by the brand inspectors for many years, will simply be forwarded to the Wildlife Services Program for its use. Sheepmen will continue to have their allotment collected by the wool houses and forwarded to the department. Monies collected for Beef Promotion equaled \$236,887.

In an effort to assist and give training to the state's port-of-entry personnel, a livestock inspector was assigned to work monthly in each port-of-entry. These inspectors are authorized and equipped to chase down those livestock transporters who ignore the signs requiring all livestock hauling vehicles to stop. This is an effort to help prevent diseased animals from entering and stolen animals from leaving the state. A new port-of-entry was added this last year at Loma, Colorado on I-70.

During the 1997 legislative session, the Domestic Elk Farming bill was passed allowing the farming of domestic elk on an individual's property. The brand bureau has been asked to regulate this new industry. In 1999, an amendment to the original law now allows the licensing of domestic elk hunting parks. Livestock inspectors are involved in the inspection of new facilities

and elk as they come and go from each licensed farm or park. They help verify identification, ownership, health and genetic purity of every animal. Within the first three years of the passage of this law 23 new farms and three hunting parks have been licensed. An eight-member elk advisory council was formed to make recommendations and give direction to this industry.

UDAF Fish Health Program

By the end of 1999, 122 commercial aquaculture and fee fishing facilities were registered with the UDAF, Fish Health Program. This is an increase of 50 percent over 1998. New applications, primarily for fee fishing sites, continue to be filed. This illustrates the continued interest in aquaculture in Utah.

Thirty-two aquaculture sites were tested for the presence of prohibited pathogens this year. The bacterial kidney disease pathogen was found in April 1999 at one of the sites. This site was placed on quarantine during the year, and final inspections have occurred anticipatory to removal of the quarantine. No prohibited pathogens were found this past year in Utah aquaculture facilities.

An issue of "Aquaculture in Utah" newsletter was published in 1999. Articles dealt with Utah's Fish Health Rule changes, keeping in touch with email, whirling disease issues and how to prevent the spread of whirling disease, the need of issuing receipts for fish sold dead or alive, our new Fish Health Specialist, and a list of our newly licensed facilities. In addition, we produced a new brochure on whirling disease to better inform the public of how to prevent the spread of whirling disease.

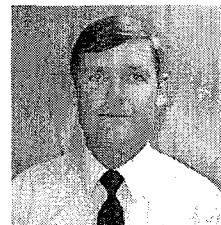
Services extended to clients and the public include: Consultations and distribution of information on aquaculture and fish diseases, on-site water quality tests conducted at 45 facilities, diagnostic services involving fish losses and laboratory work at the Smart Veterinary Diagnostic lab, issuing 34 and 88 COR's respectively to commercial aquaculture and fee fishing facilities, issuing 54 fish health approvals, issuing 68 entry permits, improving the registration process, review of proposals for research and project development, and preparing information for the news media. Work on a baculovirus infecting crayfish continued. This included presenting a paper in Nice, France at the World Aquaculture Society annual conference. Also, personnel contributed to Department-funded research on this crayfish disease.

The Fish Health Program completed development of revisions to the Aquaculture Rule through the Fish Health Policy Board. The new rule and policies on various topics such as Asian tapeworm, border crossings, whirling disease, fish brokering, biosecurity, brine shrimp diseases, registration procedures, and import regulations continue to be implemented.

Program personnel have taken additional training to enhance their knowledge and effectiveness to deal with fish health issues, to prepare the new fish health specialist for certification as American Fishery Society Fish Health Inspector, customer service, and state employment.

In addition to this information, the Department of Agriculture & Food maintains a current Internet web site where information concerning the Animal Industry Division can be obtained. You can access this information at www.ag.state.ut.us/divisions/animind.

Chemistry Laboratory



Dr. David H. Clark
Director

The Chemistry Laboratory operates as a service for various divisions within the Department of Agriculture and Food. The division laboratories provide chemical, physical and microbiological analyses.

The majority of the samples analyzed are collected and forwarded by various field inspection personnel from the Divisions of Plant Industry, Regulatory Services, Animal Health, and Marketing and Conservation Programs.

Feed, fertilizer, meat and meat products, pesticide formulation, and dairy products are tested for specific ingredients as stated by the associated label guarantee. Some products are also examined for the presence of undesirable materials, such as filth, insects, rodent contamination, adulterants, inferior products, and pesticide residues.

The Dairy Microbiology Laboratory tests in four major areas: Grade AA Raw Milk, Industry Laboratory Certification, Quality Milk, and Consumer Products. This laboratory is certified by FDA to test for standard plate count, coliform count, microscopic and electric somatic cell counting, antibiotic residues, proper pasteurization, fat, and water content. The laboratory is also certified as the FDA Central Milk Laboratory for the State of Utah, and our supervisor serves as the State Milk Laboratory Evaluation Officer (LEO) which has jurisdiction over the certified milk labs within the State. Currently, there are eight facilities with 28 analysts under the LEO's jurisdiction. The LEO sets up yearly proficiency testing on all analysts and is responsible for on-site evaluation and training of all certified analysts throughout the State.

The Meat Laboratory analyzes meat and meat product samples obtained during inspections of plant and processing facilities that conform to Federal and State standards. Tests for levels of fat, moisture, protein, sulfites, and added non-meat products to ensure label compliance of these products. Antibiotic residues and cross-contamination from other species are also monitored. We also analyze samples from Montana Department of Agriculture. Samples (meat and carcass swabs) from processing facilities are also tested for the presence of Salmonella.

The Pesticide Formulation Laboratory is primarily concerned with testing herbicides, insecticides, and fungicides to ensure that the listing of active ingredients and their concentrations are in compliance with state labeling laws.

The Pesticide Residue Laboratory tests for presence and subsequent levels of herbicide, insecticide, rodenticide, and fungicide residues in plants, fruits, vegetables soil, water, and milk products. These samples are submitted when inspectors suspect there may be a misuse of the application of the pesticide. Milk samples are tested once a year to ensure no pesticide contamination.

Commercial feed (agricultural and pet) samples are tested for

moisture, protein, fat, fiber, minerals, toxins, antibiotics, and vitamins in the Feed Laboratory. Seed moisture determinations are also performed for the seed laboratory. The Fertilizer Laboratory tests solid and liquid fertilizer samples for nitrogen, phosphorus, potassium, and trace elements. All feed and fertilizer results are compared to label guarantees to ensure compliance with state labeling laws.

Special consumer complaint samples are also examined for the presence of undesirable materials such as filth, insects, rodent contamination and adulterations. The samples are checked to see if the complaints are valid, and if they are, turn the matter over to departmental compliance officers for follow up action. Ground and surface waters are monitored for the presence of undesirable chemicals such as pesticides and nitrates. Information is combined with other water quality data to provide base line information on the quality of the state aquifers.

Accomplishments:

We purchased electronic pipettors for the dairy laboratory to minimize the chance of errors and reduce the strain of repetitive pipetting.

Purchased an inductive-coupled plasma spectrometer (ICP) to measure metals in feeds, fertilizers, and water. Developing the methods and calibrations so we can begin implementing it in the laboratory.

Assisted the Utah Tax Commission in determining the composition of cigar paper so that the product can be taxed properly. Replaced the outdated solvent cabinets so that we are compliant with OSHA and Risk Management.

The near infrared reflectance spectrophotometer (NIR) is being used routinely for the analysis of feed, fertilizers, and hamburger samples, thus reducing the turnaround time and amount of chemicals used. We are monitoring the use of NIR to measure moisture in seed samples submitted by the seed laboratory. Group meetings with chemists and supervisors from the different divisions are continuing to be held to discuss status of ongoing programs, problems, new test needs, etc.

We are working with USU Analytical Laboratory, a commercial laboratory in Idaho, and UDAF Grain Inspection on quality control for hay testing.

The laboratory continues to consistently ranks very high on the check sample programs administered for meat, feeds, fertilizers, and pesticide residue and formulation samples.

Plant Industry



G. Richard Wilson
Director

The Division of Plant Industry is responsible for ensuring consumers of disease free and pest free plants, grains, seeds, as well as properly labeled agricultural commodities, and the safe application of pesticides and farm chemicals.

Entomology

The Utah Department of Agriculture and Food (UDAF) currently administers nine insect and plant quarantines, which require inspection and enforcement by the state entomologist. Effective enforcement, demands cooperation with federal agencies and regulatory officials of other states and countries. Quarantines currently in effect are for European Corn Borer, Gypsy Moth, Apple Maggot, Plum Curculio, Cereal Leaf Beetle, Pine Shoot Beetle, Japanese Beetle, Mint Wilt and Karnal bunt.

During 1999, there was approximately 593 State and Federal Phytosanitary Certificates issued under the direction of the state entomologist. These certificates allow Utah agriculture to ship plants and plant products to other states and foreign countries. The state entomologist also responded to more than 300 public requests for professional advice and assistance. Such assistance includes insect identification, news releases, control recommendations and participation in various education meetings and workshops.

The state entomologist administers the Utah Bee Inspection Act (Title 4, Chapter 11), the Insect Infestation Emergency Control Act, and various entomological services under authority of Title 4, Chapter 2. Major functions performed during 1998 are summarized below:

Apple Maggot and Cherry Fruit fly

The Apple Maggot survey and detection program in Utah requires the efforts of the State Entomologist, one program supervisor, three field scouts and necessary secretarial help. The program was implemented to provide for our continued participation in export markets. In 1999 1,200 traps were used in the adult survey. Since the programs beginning in 1985 approximately 350 property owners are contacted annually on orchard spray management techniques and removal of uncared for and abandoned orchards.

Bee Inspection

The Utah Bee Inspection Act provides for inspection of all apiaries annually in order to detect and prevent the spread of infectious bee diseases. Without a thorough inspection program, highly contagious diseases could spread rapidly, resulting in serious losses to the bee industry in Utah with corresponding losses to fruit and seed crop producers who are dependant on bees for pollination. During 1999, 35,000 colonies of bees were inspected with the incidence of disease below 2.5 percent.

African Honey Bee

A survey and detection program for African Honey Bee has been in effect for the southern border areas of Utah since 1994. Early detection supported with information and education will be a major defense mechanism against this devastating and alarming insect. Considerable education and public awareness activity has occurred since the African Honey Bee was discovered in Misquite, Nevada in the summer of 1999.

Cereal Leaf Beetle

Cereal Leaf Beetle was discovered in Morgan County in 1984. It has since been found in fourteen counties of northern Utah. Because Cereal Leaf Beetle can cause a reduction in small grain production up to 75 percent, and domestic grain markets require insect free shipments, the UDAF in cooperation with Utah State University conducts an annual survey and detection program for this insect. A cooperative insectary program with USU has provided beneficial parasitic wasps that prey on Cereal Leaf Beetle. These beneficial parasites have now spread to all northern Utah counties helping to reduce populations significantly.

Gypsy Moth

Gypsy Moths were first found in Salt Lake City in the summer of 1988. Since that time the department has been the lead agency in the administration of a major biocontrol program that has had a 95 percent success rate. Moth catches have been reduced from 2,274 in 1989 to 7 in 1999. The major benefits of this program are:

1. Cost effectiveness
2. Public nuisance reduction
3. Forest and natural resource protection
4. Watershed protection.

Eradication efforts still show significant progress. A treatment program for Knudsens Corner and Wasatch Resort areas of Salt Lake County was completed in 1999. Trapping programs will remain vigorous.

Cricket/Grasshopper

The 1999 Fall Rangeland Insect Survey was completed the last week of August. Information from this survey indicates that we may have 490,500 acres infested with grasshoppers in 2000, and possibly 758,000 acres infested with Mormon Crickets. The indications from the fall 1998 survey taken by a limited survey crew failed to accurately indicate the huge population of both grasshoppers and Mormon Crickets which hatched and infested 1.5 million acres in 1999. Insect numbers in some localities were 177 per square yard. Insect damages ranging upwards of 22.5 million dollars prompted the Governors Declaration of Agricultural Di-

saster. Lack of Federal and limited State funds left private farmers, ranchers and homeowners to use their own resources to control the infestation.

Fertilizer Program

Administration of the Utah Commercial Fertilizer Act (Title 4, Chapter 13). The program regulates the registration, distribution, sale, use, and storage of fertilizer products. It regulates, and licenses fertilizer blenders and monitors the applicators that spray or apply fertilizer and take samples for analysis.

Unwanted Pesticide Disposal Program

Year	Participants	Disposal Amount/lbs.
1993	27	11,453
1994	36	17,487
1995	31	14,095
1996	27	12,334
1997	34	19,903
1998	31	26,244
1999	34	17,145
Total to date	155	118,661 lbs.

Pesticide Product Registration Program

Pesticide Activities for 1999

- 1. EMERGENCY USE PERMITS (Section 18).
 - 1997 -- 1
 - 1998 -- 1
 - 1999 -- 2
- 2. SPECIAL LOCAL NEEDS (SLN).
 - 5 SLN labels filed in 1999.
- 3. EXPERIMENTAL USE PERMIT (EUP)
 - 1999 -- 1

Pesticide Product Registration

Number of pesticide manufacturers or registrants:	799
Number of pesticide products registered:	9,633
Number of new products registered as a results of investigation:	944
Number of violations of the Pesticide Act (violation of old products not wanting to register for current year):	38
Number of product registration requests by field representatives:	78

Pesticide Program

The Utah Department of Agriculture and Food administers the Utah Pesticide Control Act, which regulates the registration and use of pesticides in Utah. This Act authorizes pesticide registration requirements and the pesticide applicator certification program. The UDAF is also the lead state agency for pesticide use enforcement under the Federal Insecticide, Fungicide, and Ro-

denticide Act (FIFRA). The UDAF administers sections of FIFRA under which programs are developed and implemented by cooperative grant agreements with the Environmental Protection Agency (EPA). These programs include the Worker Protection Program, Endangered Species Program, Ground Water/Pesticide Protection Program, Certification Program, and Pesticide Use Enforcement.

Worker Protection Program

This program provides general training, worker and handler pesticide safety training, "train the trainer" program, training verification, outreach and communication efforts, reporting and tracking, and performance review actions. The UDAF has adopted the national Worker Protection Standards (WPS) Verification Program and distributes WPS Worker and Handler Verification cards to qualified WPS trainers.

Endangered Species Pesticide Program

The EPA's Office of Pesticide Programs provides for individual states to develop an Endangered Species Pesticide Plan. Utah's Threatened and Endangered Species/Pesticide Plan allows the state to provide protection for federally listed species from pesticide exposure while tailoring program requirements to local conditions and the needs of pesticide users. Utah's plan focuses on the use of pesticides as they relate to the protection of threatened and endangered species on private agricultural land and lands owned and managed by state agencies. The UDAF is the lead state authority responsible for administering the plan. Through an interagency review committee, special use permits or landowner agreements can be established to allow for the continued use of certain restricted pesticides for those locations that contain threatened and endangered species.

Ground Water/Pesticide Protection Program

The EPA is working with the UDAF to establish a Ground Water State Management Plan as a new regulatory mechanism under FIFRA to prevent pesticide contamination of the nation's ground water resources. The Utah Ground Water/Pesticide State Management Plan is a state program that has been developed through cooperative efforts of the UDAF with various federal, state, and local resource agencies. The plan includes an assessment of risks posed to the state's ground water by a pesticide and a description of specific actions the state will take to protect ground water from potentially harmful effects of pesticides.

Certification Program

The UDAF has entered into a cooperative agreement with EPA to undertake the following as part of the department's pesticide certification program: maintaining state certification programs, state coordination with Utah State University Extension Service, state evaluation and participation in training programs, conduct certification activities, maintain records for certified pesticide applicators, and monitor certification program efforts. The department develops and prepares pesticide applicator certification manuals and examinations as part of the licensing requirements of the state.

Pesticide Use Enforcement

The UDAF enforcement activities include the following: cancellation and suspension of pesticide products, general compliance monitoring, tracking, sample collection and analysis, enforcement response policy, ground water and endangered species pesticide enforcement activities, and FIFRA section 19 (f) enforcement actions.

Pesticide Activity

No. of inspections of sales establishments:	120
No. of physical pesticide samples collected:	30
No. of investigations of pesticide uses:	150
No. of violations:	10
No. of pesticide applicator training sessions:	25
No. of applicators certified Commercial, Non-Commercial, Private:	4,107
No. of pesticide dealers licensed:	88

Seed Inspection and Testing

Administration of the Utah Seed Act (Title 4, Chapter 16) involves the inspection and testing of seeds offered for sale in Utah. Work performed in FY 1998-1999 is summarized below:

Number of seed samples tested:	1,601
Number of violations determined:	71

Seed Testing and Seed Law Enforcement

The seed analysts and seed laboratory technician conduct tests on seed samples submitted by agricultural inspectors, seed companies, and other interested parties. Most common tests include percent germination, purity, and presence of noxious weeds, although a number of other tests are performed upon request. Inspectors monitor the seed trade by collecting representative samples for testing and by checking for proper labeling of all seed offered for sale and for the presence of noxious weeds and other undesirable factors.

Noxious Weed Control Program

In administering the Utah Noxious Weed Control act (Title 4, Chapter 17), the State Weed Specialist coordinates and monitors Weed Control Programs throughout the State. The thirteen agricultural field representatives located throughout the state made approximately 1,246 visits and inspections. This includes visits and or direct contact with the agencies listed below:

- Retail Establishments
- Weed Supervisors and other County Officials
- State Agencies
- Federal Agencies
- Utility Companies
- Private Landowners
- Hay and Straw Certification

Control of Noxious Weeds

The Division Weed Specialist coordinates weed control activities among the county weed organizations and the agricultural field representatives. Surveys of serious weed infestations are conducted and control programs are developed through the county weed supervisors, county weed boards, and various landowning agencies. The weed specialist and the inspectors work continually with extension and research personnel in encouraging the use of the most effective methods to control the more serious weeds. Noxious Weed Free Hay Certificates

Activities in Hay and Straw Certification

Inspections in 26 counties.
Inspections for 117 producers.
Approximately 145,000+ bales inspected.
Number of Inspections: 153

Commercial Feed Program

Administration of the Utah Commercial Feed Act, (Title 4, Chapter 12) involves inspection, registration, and sampling of commercial feed products. Activities performed in this program in 1999 are summarized below:

Number of feed manufacturers or registrants contacted:	558
Number of feed products registered:	6,633
Number of analysis requested of chem. lab:	756
Number of feed samples collected and tested:	377
Number of violations:	33

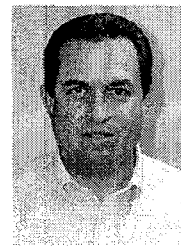
Grain Inspection

Grain inspection services are provided under authority of Title 4, Chapter 2, Section 2, and under designated authority by the Federal Grain Inspection Service. Following is a summary of work performed during the past fiscal year under dedicated credit provisions, with expenses paid by revenue received for grading services:

Number of samples:	14,438
Number of miscellaneous tests conducted:	26,429
Total number of activities performed:	40,867

NOTE: Volume of work is influenced each year by a number of factors, among which are weather conditions, governmental crop programs, and marketing situations.

Regulatory Services



Kyle R. Stephens
Director

Mission

The mission of the Division of Regulatory Services is to assure the following:

- Foods are safe, wholesome, and sanitary
- Food products are honestly, accurately, and informatively represented
- Products are in compliance with Utah's laws and regulations
- Noncompliance is identified and corrected
- Unsafe or unlawful products are removed from the market place

The increasing refinement of risk assessment techniques presents new opportunities for systematically evaluating challenges to food safety and developing targeted interventions for resolving them. Our Regulatory foundation focuses on four public health interventions:

- Demonstration of Knowledge
- Employee Health
- Hand as a vehicle of contamination
- Time/Temperature Relationship

Inspection Procedures focus on Good Manufacturing Practices (GMP) and HACCP when applicable. We are seek to control the contributing factors that lead to foodborne illnesses which are as follows:

- Improper Temperatures
- Inadequate Cooling
- Inadequate Cooking
- Contaminated Equipment
- Unsafe Source
- Poor Personal Hygiene

The Utah Department of Agriculture and Food is working to reduce the risk factors that lead to foodborne illness through conducting standardized inspections that focus on these interventions. We will continue to grow and change in response to the evolving world of food safety.

Food Program

Food safety will continue to be a major public health concern well into the next century. The demographics of the issues around food safety continue to evolve. In the United States we have an aging and growing population. Globalization of the food supply will bring in food products from foreign countries in increasing amounts. The industrialized nations continue to consume their farmlands as they become more urbanized. This will be a major factor contributing to the contamination of drinking water and soil. The risk of foodborne disease is substantially extended by biological and chemical contamination of areas where food is pro-

duced, processed and consumed. The Utah Department of Agriculture and Food (UDAF) is adapting to address the rapidly changing world of food protection.

There are many factors that lead to foodborne illnesses. Bacteria, viruses, and fungi mostly cause foodborne diseases. The new pathogens discovered in the last few decades include: campylobacter, cyclospora, and enterohemorrhagic E.coli and listeria. Public health officials are still trying to determine what level of these pathogens in a food constitute a food borne illness concern and are rethinking "zero tolerance levels". These complex factors create new challenges in reducing food borne illnesses and protecting public health.

The UDAF's control strategies are multifactorial. We have both long-range goals to look at the future of food safety and short-range goals to deal with the emerging issues.

Building relationships and cooperation between other government agencies, academia, industry, and food associations is the key to successfully meeting the challenges we face every day in working to assure the consumer a safe food product. This year, UDAF in conjunction with the Utah State Health Department, held the first annual Food Safety Summit. The Summit focused on Education & Communication, Foodborne Illness Investigations, Recalls and Public Notification and Surveillance. These are key issues for the future of food safety in Utah. The Summit brought industry, academia, the military, and state and local regulatory officials together to create a vision for the future of food safety in Utah. From this summit, Utah is proposing to create a steering committee to oversee work groups and committees assigned tasks to ensure the outcomes set forth in this meeting are achieved. The 2002 Winter Olympics are coming and the department has joined the Environmental and Public Health Alliance--a committee of health and safety representatives from Wasatch Front area counties hosting Olympic events. The department is represented with membership on the following workgroups: Alliance Steering Committee, Food Safety, Emergency Response, Drinking (bottled) Water, and Media Relations. These committees and workgroups are developing strategic plans that will ensure the protection of public health during the Olympics. These groups are composed of state, local and federal officials. Working together on these projects creates a greater awareness and appreciation for the roles and responsibilities of each agency. Building these networks of interdependence generates a synergistic effect that will provide the public with a unified effort in protecting the food supply and will have a long lasting effect.

At the national level, Utah is participating in the National Integrated Food Safety System as a part of the Coordinating Body for this group and by Co-Chairing the Communications Group. Participating in these functions allows Utah's voice to be heard and gives us input into the National Strategic Plan for Food Safety.

INSPECTIONS 1999

ESTABLISHMENT TYPE	NUMBER	INSPECTIONS
Bakeries	360	671
Grain Processors	10	16
Grocery Stores	1,109	1,658
Meat Departments	328	623
Food Processors	399	625
Warehouses	279	347
Water Facilities	22	34
TOTAL	2507	3974

Enforcement Activities

Product Control

In order to protect the consumer, food that is suspected of being misbranded or adulterated is prevented from moving in commerce. This is achieved through Voluntary Destruction's, Hold Orders and Releases. In 1999, 19 hold orders involving 186,949 pounds of food were issued. Seventeen hold order releases involving 183,589 pounds of food were issued. There were 22 voluntary destructions involving 69,997 pounds of food. This food was destroyed because it was suspected of being adulterated.

Warning Notices

When voluntary compliance cannot be achieved, we take additional regulatory action in the form of Warning Notices and Administrative Action. In 1999, we sent out 42 Warning Notices concerning non-compliance with the Utah Wholesome Food Act (WFA) and the Utah Food Protection Rule (FPR).

Citations

This year was the first year the Division of Regulatory Services had the ability to issue citations. Before issuing a citation the director reviews the violation to determine if the fine is warranted. This new tool was used to gain faster compliance regarding issues that weren't critical or repetitive.

Five citations were issued this year:

- A citation was issued to a grocery store for processing meat without a processing area. This store had been notified in writing several times that they were to sell only prepackaged food. They decided to package meat without notifying the Utah Department of Agriculture and Food.

- A citation was given to a store for not installing a hand sink. The store had received notification to correct the violation. Having a hand sink in a processing area is very important. For over a year the company resisted installing one. After receipt of the citation, the company corrected the violation.

- A citation was issued to a warehouse for shipping embargoed meat products back to the manufacturer without notifying UDAF. Food products under embargo can't be moved without permission. This allows UDAF to keep adulterated or misbranded products from moving in commerce. The citation was given because of the seriousness of the situation.

- A bargain store had a serious rodent infestation. Rodent contaminated products were found on the shelves. UDAF worked with the company for over a year trying to get the infestation under control. The store kept changing management and we couldn't get them to get the violation corrected. The store has shown great improvement.

- For more than four years UDAF inspections at the meat department of one of Utah's chain stores had a dirty meat grinder. In October an inspection was conducted and the meat grinder was dirtier than usual. The company was given time to wash and sanitize the grinder. A follow-up inspection found the grinder still very filthy. The ground meat products were voluntarily destroyed and the company was issued a citation.

It is the policy of UDAF to gain voluntary compliance through education. Citations worked very well for situations where repetitive violations exist that were not severe enough to bring administrative action against the company. In the past we had to go through a time consuming administrative process to get a critical or repetitive violation corrected. Citations are a vital enforcement tool.

Administrative Orders

The Utah Department of Agriculture and Food issued three Administrative Orders:

- A bakery started remodeling over two years ago. Numerous deadlines and inspections were given to allow this company to correct the construction violations. They had an exposed dirt floor in a section of the processing area and unpainted sheet rock walls. The owner had a number of excuses and we could not get the situation resolved. The bakery equipment was also very dirty. The owner was fined and given a probation period of one year.

- The millennium bug bit Utah hard. We experienced a large increase in the number of dry pack canneries because people were trying to increase their food storage. One company that was given the requirements for a food processing area decided to start canning in a dirty warehouse without having a proper processing area. The food was removed from sale to the public and the company built a proper food packaging area.

One morning a customer visited the produce section of a chain store. He noted that the produce employee was spraying a pesticide directly on to the fruits in the store. UDAF conducted an investigation to determine if this was an isolated incident or general practice. We discovered several of the stores in this chain used the same practice to eliminate the fruit-type flies that are present during the summer and fall. Employees were even using pesticide on produce with a sign, indicating product with no detectable level of pesticide present. The pesticide they were using was approved for use in a food processing area but not in the manner the produce employees were using it. They had not received proper instruction or training on the use of this pesticide. The quality assurance person for this store was concerned that employees were going to use a pesticide to control the insects. They wanted them to have a pesticide that did not leave a residual and had a low toxicity level. The quality assurance person

agreed to implement a training program for their personnel in the use of pesticides in the produce processing area. UDAF will continue to monitor the situation.

Dairy Program

The primary goal of the Dairy Compliance program is to provide effective public health control throughout the production, handling, processing and distribution of milk and milk products in order to facilitate the shipment and acceptance of high sanitary quality milk and milk products.

The number of permitted dairy producers continued to decline in 1999. The total number of producer permits declined by 5 percent, the same as in 1998. We are currently providing inspection to 385 Grade A producers compared to 388 at this time last year. The number of Manufacturing Grade producers dropped to 97 down from 98 in 1998. The number of processing facilities remains at 41.

It is the policy of the Dairy Compliance Program to seek voluntary compliance whenever possible. However, when voluntary compliance cannot be achieved, regulatory action is initiated. In all, 2098 inspections were conducted; 95 permits were suspended and approximately 1.9 million pounds of adulterated and misbranded product was removed from commerce by Utah compliance officers.

We are in the fourth year of our partnership agreement with FDA. This cooperative program is based on the inspection activities by our staff of non-IMS processors in Utah, (those processors not under the direction of the National Conference on Interstate Milk Shipments). As provided in the agreement FDA accepts our inspection in lieu of FDA performing the inspections, eliminating costly duplication. We conducted approximately 239 inspections during 1999 and provided the information to FDA for further review.

In 1999, the National Conference on Interstate Milk Shipments implemented a pilot HACCP program for the dairy industry. State regulatory programs, along with local dairy processing plants were invited to participate in the Dairy HACCP Pilot Study. Gossner Foods from Logan, Utah was one of seven facilities selected nationwide to participate in the project. Our dairy inspection program, along with personnel from the Gossner facility have been working on developing a HACCP plan for their production facility as a part of the Pilot Study. This pilot will be completed and a report filed for the NCIMS meetings scheduled for May 2001.

Continued focus is being placed on non-point source pollution, such as agricultural waste. Utah is moving quickly to develop watershed protection strategies for non-point source pollution. We expect to see continuing emphasis and involvement in this area.

Egg & Poultry Grading Program

The Egg & Poultry Grading Program provides services to the consumers and the egg and poultry industry of Utah. Eggs and poultry products are important foods, high in nutrition, and readily available. Egg and poultry enterprises range from the very large operations of over one million birds to small cottage farms.

The various program activities include:

- Shell Egg Grading
- Egg Products Inspection
- Poultry-Grading

Utah agricultural law provides authority to grade eggs and poultry products. Products are graded to meet uniform standards of quality and quantity. The accurate grading of agricultural product provides consumer with a consistent high quality, safe and wholesome product. In addition, it provides consistent standards throughout the nation and confidence to countries that imports our products. Grading services also provide large commercial buyers with second party verification for contractual purposes.

Employees of the Utah Department of Agriculture and Food take pride in their work. They are efficient and hard working, placing the USDA shield on products with confidence and pride. Each employee is licensed, well trained and current with new regulations and techniques. The State of Utah grading employees have the important and unique ability to balance the needs and expectations of the consumer with conscientious service to the egg and poultry industry. Graded product represents 100 percent of all poultry and poultry products in the state. Shell egg grading represents 28 percent of all egg production. All grading services are industry funded based upon quantity of products graded.

The egg and poultry industry in Utah is growing consistently with the consumer demand for their products. This growth is well measured, taking into account economical, environmental and food safety concerns. Each facet of the industry is committed to excellence in consumer service. The egg industry in Utah has embraced the Utah Egg Quality Assurance Program (UEQAP) as part of its commitment to food safety. This program's goal is the reduction of Salmonella Enteritidis in flocks, which is a primary concern of the industry.

However, there were several foodborne illness associated with Salmonella Enteritidis in shell eggs. As part of the governments "farm to table" food safety initiative, final rule making was completed concerning the storage, processing and transportation of shell eggs. The new rule requires shell egg to be stored, transported and held at an ambient temperature of 45 degrees or colder. This has long been the rule for retail and restaurants establishments. They had classified shell eggs as potentially hazardous almost ten years ago requiring the refrigeration of eggs below 41 degrees. The new rule applies to egg production and transportation. The responsibility for compliance is shared between USDA Agriculture Marketing Service and Food Safety and Inspection Service. FSIS will document and seek compliance based upon routine work done by AMS. The Meat compliance Program will enforce this rule.

Statistically 1999 showed: 131,654 (30 dozen cases) shell eggs were graded, a decrease of 19 percent over 1998; 77,508 (30 dozen cases) shell eggs were cleaned, sanitized, properly broken, and pasteurized; producing liquid (fresh), frozen whole egg and whole egg blend are for institutional use; egg products production was down three percent.

Utah Turkey industry presented 136,472,964 pounds of turkey and turkey products to be graded. This represented a twenty-one percent increase over 1998.

Meat Compliance Program

The Meat Compliance Program goal is to control and limit the movement in commerce, of adulterated or misbranded meats. An additional goal is to provide accurate information concerning complex meat laws to all who are involved in any way with meat and poultry products.

Currently all small plants in the state are operating under full implementation of the Pathogen Reduction & HACCP program. The UDAF has been proactive in the training and orientation of plant owners to the new regulations. Use of new technology has augmented the emphasis placed on pathogens. Currently the state agriculture laboratory is running salmonella samples, using the Mini-Vidis, from all meat and poultry processors to establish a baseline for evaluation of HACCP's effectiveness.

The change in focus from organoleptic evaluation of meat to food safety and pathogen reduction has caused extensive changes in the focus of compliance. Currently sampling and surveillance for adulteration has replaced typical functions of compliance officers. Officers in the past have written cases concerning economical fraud, labeling, and administrative mistakes. In addition, the agency is branching out into non-traditional venues including retail establishments, transportation, salvage, and restaurants. These areas were previously the domains of state agencies and the Food and Drug Administration.

Currently we are seeking clarification on several issues, including, the amenability of central kitchens to full time inspection, and the label definitions of ground beef and Internet sales of meat products. Utah is taking measured response to these matters. We are committed to food safety and will not allow dangerous practices to continue but we are holding judgement of non-food safety related matters. We are proud of our common sense approach to industry regulation.

During the year the compliance program encountered several unusual challenges. The hysteria associated with "The Y2K bug spawned an unusual increase in long-term home food storage. This resulted in several firms processing and packaging of meat products in homes or other non-inspected facilities.

HACCP is currently enforced in all fish processing plants in the state of Utah. Utah fish and seafood industry is in compliance with federal regulations involving the processing, storage, shipment and harvesting.

During the calendar year 1999 the Meat Compliance Program conducted 1,311 random reviews of state businesses and 64 planned compliance review of previous violators of meat laws. In addition 88,326 pounds of adulterated or misbranded meats were embargoed or destroyed. Compliance investigations resulted in 17 letters of warning being issued and one informal administrative hearing with fines of \$500.00. Compliance officers collected more than 400 ground beef samples. The state chemist tested the samples for fat, sulfites, other species and added water the results showed a high degree of compliance.

Weights & Measures Program

The Weights and Measures Program involves all weights and measures of every kind, and any instrument or device used in weighing or measuring together with any appliance or accessory associated with such instrument. The purpose of the program is

to ensure that equity prevails in the market place, and that commodities bought or sold are accurately weighed or measured and properly identified. These activities are enforced through the Utah Weights and Measures Act and five accompanying Administrative Rules.

During 1999, the Weights & Measures Program went high-tech with the addition of the WinWam Program. WinWam is a Windows based weights and measures software program designed to be used in field inspections and allows the inspectors to have more latitude and control over their inspection responsibilities. It enables them to manage their day to day work responsibilities more efficiently. Laptop computers, along with the software programs, were purchased for each inspector.

The department was also able to send three inspectors to Maryland to receive specialized training by the National Institute of Standards and Technology (NIST) for obtaining uniformity. Dale Kunze received training on Motor Fuel Dispensers. David Paice went on Retail Computing Scales and Mark Demings went to receive training on the National Type Evaluation Program (NTEP). The time and effort spent on these activities has been very beneficial. It enables us to improve our capabilities and implement the program with the most recent technology.

The Weights & Measures Program operates in the following areas:

General Inspections

Our inspectors checked 4,769 small capacity scales (0 to 999 lbs.) and 14,569 gasoline pumps. Every type of item is subject to either a scanning inspection, package checking, or label review. In 1999 there were 23,850 packages checked and 16,685 scanners checked.

Large Capacity Scales

Large-scale capacities include 1,000 lbs. and up. These devices may include scales used for weighing livestock, coal, gravel, vehicles, etc., within inspections conducted at auction yards, ranches, ports of entry, mine sites, construction sites, gravel pits and railroad yards, etc. A total of 1,113 large capacity scale inspections were conducted in 1999.

Liquified Petroleum Gas Meters

In 1999 there were 294 propane meters inspected throughout the state.

Large Capacity Petroleum and Water Meters

Inspections are conducted on airport fuel trucks, all fuel delivery trucks, cement batch plant water meters and other large meters. There were 270 inspections conducted in 1999.

Metrology Laboratory

The state maintains standards of mass, length, and volume. Valid National Institute of Standards and Technology (NIST) Test Numbers have been issued to Utah and are on file at NIST and at the Utah Laboratory. The state Primary Standards were re-calibrated and certified by NIST in 1997.

The Utah Laboratory is currently recognized under a Measurement Assurance Program provided by the NIST Office of Weights and Measures. During 1999 we sent our metrologist to The West-

ern Regional Assurance Program (WRAP) yearly training meeting held in Olympia, Washington. The state metrologist received and met all criteria for the Certificate of Measurement Traceability through NIST. Industry relies on the services of this facility to certify equipment used for weight, length or volumetric measurement in commercial business.

Motor Fuel Laboratory

Maintains a high standard of testing for motor fuel quality. Responded to multiple complaints and resolved them with satisfactory results.

As population and industry growth continues, so does the need for business and the associated industry. Along with that comes the increased need to provide weights and measures inspection service to those affected. Our goal is to be successful in increasing our productivity without adding additional personnel while at the same time meeting the demands of a growing program.

In 1999, we suffered a great loss with the passing of our program Supervisor, David McKay. Dave McKay was diagnosed with cancer and passed away on December 12, 1999.

Bedding, Upholstered Furniture, & Quilted Clothing Program

The purpose of the Bedding, Upholstered Furniture and Quilted Clothing Program is to protect consumers against fraud and product misrepresentation, to assure Utah's hygienically clean products and to provide allergy awareness when purchasing these articles. Utah law requires manufacturers, supply dealers, and wholesalers of these products, and components used to make or repair such products, to obtain an annual license from the Department of Agriculture and Food for their particular type of business before offering products for sale within the state.

Product labels are required to list the enclosed fibers and their percentages. This enables consumers to make price/value/performance-based buying decisions. It also encourages fair competition among manufacturers by establishing terminology uniformity and accurate component disclosure.

As of August 20, 1998, the Federal Trade Commission (FTC) rescinded its guides for the feather and down products industry. These guides addressed claims for the advertising, labeling, and sale of products wholly or partially filled with feathers or down and all bulk stocks of processed feathers or down intended for use in manufacturing bedding and clothing. The Federal Register dated August 20, 1998, lists several reasons for the rescission including: that the guides didn't seem to be working as intended to promote truth in labeling and advertising; the tolerances in the guides appear to have become the industry manufacturing standard, not a margin for error; and they provided unwarranted special treatment not given to other industries. Feather and down-filled products will now come under the Truth in Advertising requirements without additional tolerances. Manufacturers argue that the tolerances are necessary to the industry. The 1999 Conference of the Association of Bedding and Furniture Law Officials (ABFLO) will address this situation and try to establish a uniform state approach which will assist manufacturers in producing products that will meet the requirements of all the states.

The Department works with industry representatives and with regulatory officials from other states to establish uniformity in nomenclature, labeling, and standards for these products. Li-

cence fees fund an inspection program that allows products to be tested to ensure contents are accurately labeled. During 1998, 1,325 licenses generated \$69,000 in general revenue making the program self-sustaining.

Food Labeling Program

The state has adopted labeling regulations as set forth in the Code of Federal Regulations (CFR) and reviews labels to assist manufacturers to comply with these regulations. This avoids costly reprinting in the case of labeling violations, and helps assure that consumers get complete and accurate information in a uniform format on all products.

Proper labeling of food ingredients is an important issue to consumers who have food sensitivities or other dietary restrictions. Reports of allergic reactions to incorrectly labeled foods continue to increase. The U.S. Food and Drug Administration (FDA) has participated in many food product recalls during the year when foods were discovered to contain unlabeled ingredients which are known allergens. After label corrections have been made the foods may be returned to the marketplace.

Label laws and rules continue to change as new technology creates new products and as new food safety issues are identified. In July of 1998, FDA issued a rule requiring warning statements be labeled on juices that have not been specifically processed to prevent, reduce, or eliminate the presence of pathogens. FDA took that action to inform consumers, particularly those at greatest risk of the hazard posed by such products and hopefully reduce the incidence of foodborne illness and deaths caused by the consumption of unprocessed juices.

The rule on labeling of dietary supplements published on September 23, 1997 becomes effective on March 23, 1999. This rule establishes requirements for the identification of supplements and for their nutrition and ingredient labeling.

Correct and complete food labels help to protect consumers and contribute to a safe and healthful food source. However, consumers are still ultimately responsible to read and understand the label and make choices based on their personal needs.

Administrative Orders

The administrative hearing program of the department is assigned to this division. The overall approach of the department is to gain voluntary compliance to violations of the Utah Agricultural Code. When that is not accomplished, the department initiates notices of violation and provides opportunity for a hearing. During 1999, we conducted nine informal hearings and issued an administrative order or settlement agreement on all cases. This resulted in \$50,000 in civil penalties being levied against Utah businesses.

In March 1999, the department implemented administrative rules for the three divisions involved in regulatory enforcement of agricultural laws that allows for the issuance of administrative citations with fines. This has turned out to be a good enforcement tool and has minimized the number of administrative hearings needed to be held by the department.

Administrative procedures are an effective tool in gaining compliance without going through the legal system, but still affording individuals and companies their due process rights.

Utah Horse Industry



Horses have always played an important role in the economy of Utah and the United States. The following information is a summary of a 1994 report on Utah's horse populations compiled by E. Bruce Godfrey, professor of economics at Utah State University. The information was collected from a questionnaire distributed to 2,500 residents.

Early in the history of Utah horses and other equine were a major source of power and beasts of burden.

Horse populations on farms in the United States have steadily declined in the years from 1930 to 1960. Since then, horse ownership apparently has increased especially among non-farmers, although few data are available concerning horse ownership by non-farmers.

Most horse owners are located along the Wasatch Front where most of Utah's population is located. More than 60 percent of the horses are owned by people who live in Salt Lake, Utah, Weber, Davis, Cache, and Box Elder Counties. The large number of households in the urban counties resulted in a concentration of horse numbers in these counties, even though the number of horses owned per household was smaller in urban than rural counties.

Income and Profession

Households who own horses in Utah had relatively high incomes. The percentage of horse owners with low incomes (less than \$20,000) was smaller than the general population, and the percentage of people in the upper income groups (above \$50,000) was higher than the general population.

More than 40 percent of the respondents were college graduates. Seventeen percent have an advanced college degree.

Horse owners in Utah are apparently one family-or-urban-oriented. Nearly two-thirds of respondents to the survey indicated they were a "family pleasure horse" operation.

Most horse owners in Utah keep their animals on lands they own. Only 25 percent kept their animals on someone else's property. Most of the "farms and ranches" were not large.

While most owners were fairly young, 71 percent of respondents stated they owned horses for more than ten years.

While families own the largest portion of horses in Utah, commercial operations own a greater number per unit.

Economic Importance

Since most horses in Utah are kept for pleasure-use, their individual economic impact is quite small. Yet the revenue from associated services is measured in the millions of dollars.

Horse owners spend more than \$775 per year in feed, medical bills, boarding, and other needs in order to maintain their animals. This generates an estimated \$156 million on Utah's herd of 182,700 horses. Other capital costs for barns, corrals and tack are estimated at more than \$560 million dollars.

Owners placed an average value on their animals at \$1,600 each, for an aggregate value of nearly \$293 million statewide.

Numbers of Animals

Horses were located in every area and county of the state, but the number of animals has changed over time. There were about 133,000 head in 1975. Since then, the population in Utah has increased by about a half million people, and a larger portion of Utahns live in the urban counties along the Wasatch Front. This change in population may or may not have altered horse numbers in Utah.

Responses to the questionnaire indicated that 8.7 percent of the households had equine (horses, mules and donkeys), which would represent about 48,100 households (552,500 households times 8.7 percent) in the state. The average household owned an average of 3.80 equine on Jan. 1, 1992, which would mean that there were approximately 182,700 equine in Utah at the start of 1992.

Horse ownership in the United States probably peaked in the late 1980s. Data from the Utah Department of Agriculture and Food also suggest that the inspection of horses at auction yards peaked in FY 1989-90.

Breeds

Quarter horses dominated the horse population in Utah. Other popular breeds are listed below:

<u>Breed/Type</u>	<u>Grade</u>	<u>Registered</u>	<u>Total</u>	<u>Percent</u>
Quarter Horse	32,400	58,700	91,100	49.78
Arabian	4,800	20,800	25,600	13.99
Paint	7,050	6,350	13,400	7.32
Thoroughbred	900	12,400	13,300	7.27
Appaloosa	4,750	4,200	8,950	4.89
Mules	3,500	0	3,500	1.91

Uses/Interests

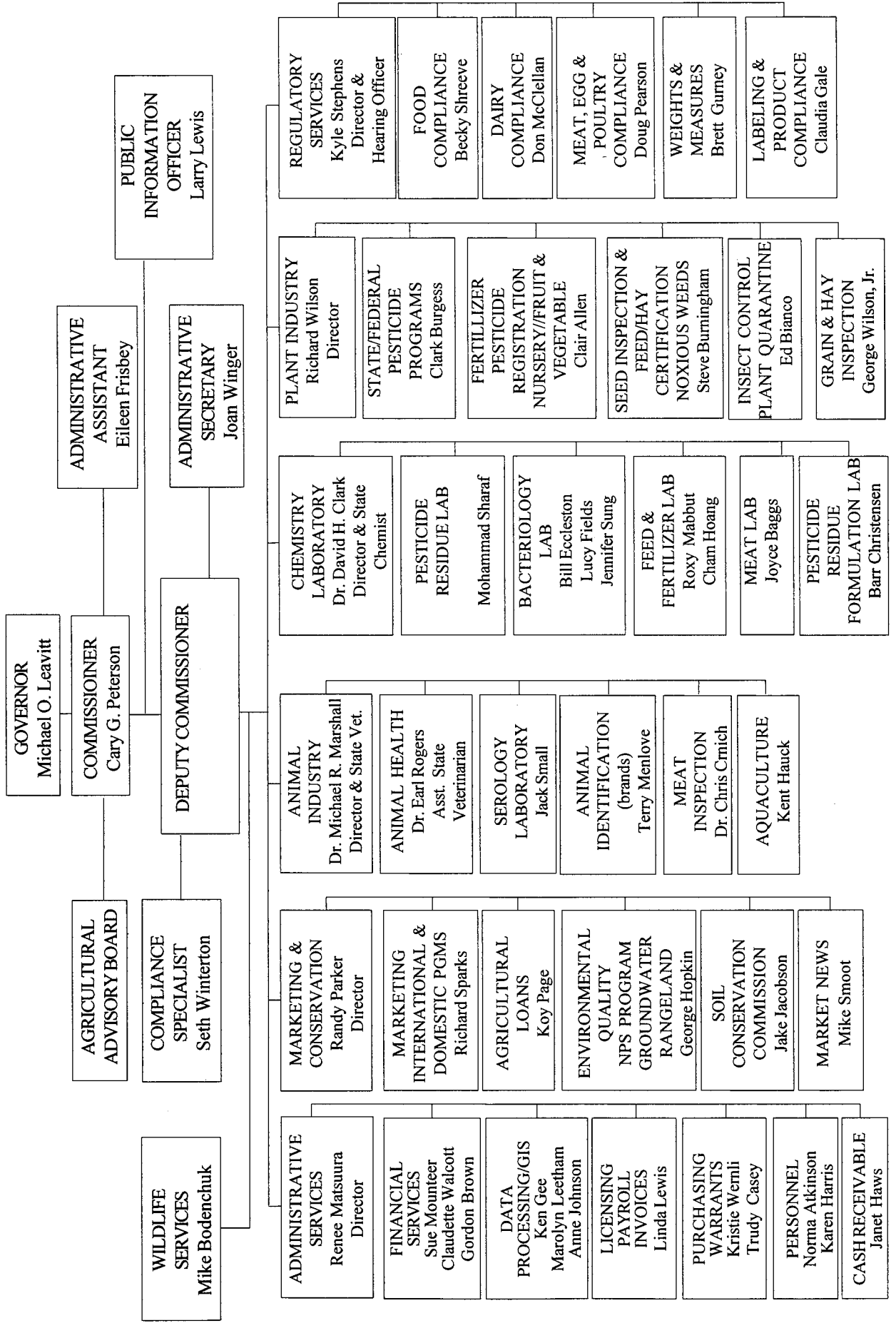
Pleasure riding was clearly the primary interest of horse owners. Pleasure riding, youth activities, and hunting activities that received the highest ranking, are activities that could be considered family related.

Income

Less than 5 percent of respondents indicated that they received any income from the horses they owned. Thus, horses apparently generated relatively little income, primarily because horses were largely used for pleasure-related activities. The primary group who earned any horse-related income did so from breeding, racing and show-related activities.

One activity that generated income and primarily involved Utah horses was breeding. About 90 percent of the stallions in the state were used for breeding and the average stud fee was just over \$400. This yielded an estimated total income of nearly \$5 million (for information on horse racing in Utah, see Marketing and Conservation in this annual report).

UTAH DEPARTMENT OF AGRICULTURE AND FOOD ORGANIZATIONAL CHART



notes

UTAH AGRICULTURAL STATISTICS - 2000

Area & Population of Counties, Utah

County	United States Census - 1990								July 1, 1999 Est. ^{1/}
	Total Land Sq Miles	Total Population	Urban		Rural				
			Total Urban	Percent of Total	Total Rural	Percent of Total	Total Farm	Percent of Total	
Beaver	2,590	4,765			4,765	100.0	87	1.8	5,881
Box Elder	5,724	36,485	19,852	54.4	16,633	45.6	1,328	3.6	41,732
Cache	1,165	70,183	55,232	78.7	14,951	21.3	1,429	2.0	87,440
Carbon	1,479	20,228	8,727	43.1	11,501	56.9	183	0.9	21,422
Daggett	698	690			690	100.0	119	17.2	737
Davis	305	187,941	186,544	99.3	1,397	0.7	154	0.1	235,438
Duchesne	3,238	12,645	3,915	31.0	8,730	69.0	1,239	9.8	14,381
Emery	4,452	10,332			10,332	100.0	414	4.0	10,862
Garfield	5,175	3,980			3,980	100.0	142	3.6	4,550
Grand	3,682	6,620	3,971	60.0	2,649	40.0	102	1.5	9,060
Iron	3,299	20,789	13,443	64.7	7,346	35.3	176	0.8	31,518
Juab	3,392	5,817	3,515	60.4	2,302	39.6	193	3.3	8,120
Kane	3,992	5,169	3,148	60.9	2,021	39.1	62	1.2	6,144
Millard	6,590	11,333	2,998	26.5	8,335	73.5	598	5.3	11,959
Morgan	609	5,528			5,528	100.0	214	3.9	7,262
Piute	758	1,277			1,277	100.0	84	6.6	1,644
Rich	1,029	1,725			1,725	100.0	87	5.0	1,835
Salt Lake	737	725,956	721,342	99.4	4,614	0.6	73	^{2/}	843,271
San Juan	7,821	12,621	3,162	25.1	9,459	74.9	45	0.4	13,561
Sanpete	1,588	16,259	3,363	20.7	12,896	79.3	380	2.3	21,408
Sevier	1,910	15,431	5,593	36.2	9,838	63.8	225	1.5	18,884
Summit	1,871	15,518	4,468	28.8	11,050	71.2	440	2.8	26,459
Tooele	6,946	26,601	18,174	68.3	8,427	31.7	254	1.0	35,847
Uintah	4,477	22,211	9,242	41.6	12,969	58.4	893	4.0	25,029
Utah	1,998	263,590	244,834	92.9	18,756	7.1	1,539	0.6	353,136
Wasatch	1,181	10,089	4,782	47.4	5,307	52.6	183	1.8	13,711
Washington	2,427	48,560	35,898	73.9	12,662	26.1	89	0.2	81,204
Wayne	2,461	2,177			2,177	100.0	146	6.7	2,538
Weber	576	158,330	147,172	93.0	11,158	7.0	807	0.5	186,020
State Total	82,168	1,722,850	1,499,375	87.0	223,475	13.0	11,685	0.7	2,121,053

^{1/} Preliminary, 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 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 ^{1/}	1,461	24	1.7
1980 ^{2/}	1,461	18	1.3
1990 ^{2/}	1,723	12	0.7

^{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: Top Six States, Utah's Rank, and United States Total, by Agricultural Category

Top Six States						Utah's Rank	United States Total
First	Second	Third	Fourth	Fifth	Sixth		
GENERAL							
Number of Farms & Ranches, 1999							
TX	MO	IA	KY	TN	CA	35	
227,000	110,000	96,000	91,000	91,000	89,000	15,500	2,194,070
Land in Farms & Ranches, 1999 (1,000 Acres)							
TX	MT	KS	NE	NM	SD	26	
130,500	57,000	47,500	46,400	44,700	44,000	11,600	947,340
Cash Receipts from Farm Marketings, 1998 (1,000 Dollars) ^{1/}							
CA	TX	IA	NE	KS	IL	37	
24,616,242	13,206,203	10,994,252	8,848,014	7,784,013	7,742,280	980,866	196,761,410
FIELD CROPS							
Harvested Acreage Principal Crops, 1999 (1,000 Acres) ^{2/}							
IA	IL	KS	TX	MN	NE	37	
24,727	23,356	21,710	20,189	19,778	18,889	1,031	312,370
Corn for Grain Production, 1999 (1,000 Bushels)							
IA	IL	NE	MN	IN	KS	38	
1,758,200	1,491,000	1,153,700	990,000	748,440	420,180	2,860	9,437,337
Corn for Silage Production, 1999 (1,000 Tons)							
WI	NY	CA	MN	PA	IA	26	
12,045	8,960	8,840	6,800	6,195	4,860	840	96,169
Barley Production, 1999 (1,000 Bushels)							
ND	MT	ID	WA	CO	MN	11	
59,520	57,500	53,820	28,910	9,030	8,460	6,806	281,853
Oats Production, 1999 (1,000 Bushels)							
WI	MN	ND	SD	IA	PA	30	
18,600	17,700	16,830	12,800	11,375	7,975	675	146,218
All Wheat Production, 1999 (1,000 Bushels)							
KS	ND	MT	OK	WA	TX	29	
432,400	242,109	154,310	150,500	124,140	122,400	8,940	2,302,443
Other Spring Wheat Production, 1999 (1,000 Bushels)							
ND	MT	MN	SD	ID	WA	9	
168,000	108,000	78,000	59,850	50,560	27,280	1,400	503,132
Winter Wheat Production, 1999 (1,000 Bushels)							
KS	OK	TX	CO	WA	NE	29	
432,400	150,500	122,400	103,200	96,860	86,400	7,540	1,699,989
All Hay Production, 1999 (1,000 Tons)							
TX	SD	CA	NE	WI	KS	24	
13,135	9,440	8,462	7,610	7,510	7,255	2,744	159,077
Alfalfa Hay Production, 1999 (1,000 Tons)							
CA	SD	WI	MN	NE	IA	13	
7,004	6,720	6,510	5,600	5,180	5,070	2,376	83,924
All Dry Edible Beans Production, 1999 (1,000 Cwt)							
ND	MI	NE	CO	CA	MN	16	
8,265	7,350	3,740	2,755	2,600	2,558	53	33,230
All Potato Production, 1999 (1,000 Cwt)							
ID	WA	WI	CO	OR	ND	32	
133,330	95,200	34,000	28,419	28,020	26,400	580	478,398

^{1/} In accordance with USDA, ERS Ranking of States and Commodities by Cash Receipts, 1995. ^{2/} Crop acreage included are corn, sorghum, oats, barley, wheat, rice, rye, soybeans, peanuts, sunflowers, cotton, all hay, dry edible beans, potatoes, tobacco, sugarcane, and sugar beets.

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

Top Six States						Utah's Rank	United States Total
First	Second	Third	Fourth	Fifth	Sixth		
FRUITS & VEGETABLES							
Apple Utilized Production, All Commercial, 1999 (Million Pounds)							
WA	NY	MI	CA	PA	VA	26	10,519.1
5,100.0	1,230.0	1,200.0	825.0	505.0	350.0	12.0	
Apricot Utilized Production, 1999 (Tons)							
CA	WA	UT	--	--	--		90,800.0
85,000	5,800	0	--	--	--		
Peach Utilized Production, Freestone, 1999 (Million Pounds)							
CA ^{1/}	SC	GA	PA	NJ	WA	22	2,425.6
755.0	130.0	105.0	73.0	60.0	52.0	6.2	
Pear Utilized Production, 1999 (Tons)							
WA	CA	OR	NY	MI	PA	9	979,435.0
410,000	322,000	225,500	11,300	4,900	4,000	295	
Sweet Cherry Utilized Production, 1999 (Tons)							
CA	WA	OR	MI	ID	UT	6	222,746.0
73,000	68,000	49,500	27,000	1,670	1,150	1,150	
Tart Cherry Utilized Production, 1999 (Million Pounds)							
MI	NY	UT	WA	WI	PA	3	253.1
185.0	17.5	14.5	14.5	8.5	7.2	14.5	
Onion Production, Summer Storage, 1999 (1,000 Cwt)							
CA ^{2/}	OR	WA	ID	CO	NY	7	53,986.0
15,225	12,243	8,820	5,530	5,365	3,528	1,256	
LIVESTOCK, MINK, & POULTRY							
All Cattle & Calves, January 1, 2000 (1,000 Head)							
TX	NE	KS	OK	CA	MO	35	98,048.0
13,900	6,650	6,550	5,200	5,100	4,350	910	
Beef Cows, January 1, 2000 (1,000 Head)							
TX	MO	NE	OK	SD	MT	28	33,546.0
5,430	2,062	1,974	1,898	1,728	1,582	355	
Breeding Hogs, December 1, 1999 (1,000 Head)							
IA	NC	MN	IL	MO	NE	17	6,244.0
1,160	1,000	560	420	410	390	70	
Honey Production, 1999 (1,000 Lbs)							
CA	ND	SD	FL	MN	TX	26	205,228.0
30,300	26,775	23,296	23,256	11,890	8,748	1,170	
Mink Pelt Production, 1998 (Pelts)							
WI	UT	MN	OR	ID	WA	2	2,938,200.0
800,500	675,000	268,300	263,000	185,500	142,600	675,000	
All Sheep, January 1, 2000 (1,000 Head)							
TX	CA	WY	CO	SD	UT	6	7,026.0
1,200	800	570	440	420	400	400	
Chickens, Layers Inventory, December 1, 1999 (1,000)							
OH	IA	CA	PA	IN	GA	33	322,322.0
30,730	25,623	25,523	22,634	22,035	21,039	1,913	
Milk Cow Inventory, January 1, 2000 (1,000 Head)							
CA	WI	NY	PA	MN	TX	23	9,187.8
1,490	1,360	700	619	540	350	95	
Trout Sold, 1999 (Value 000)							
ID	NC	PA	CA	CO	WA	9	76,922.0
37,646	6,355	5,385	5,083	2,642	2,466	1,697	

^{1/} freestone ^{2/} Includes fresh and processing onions.

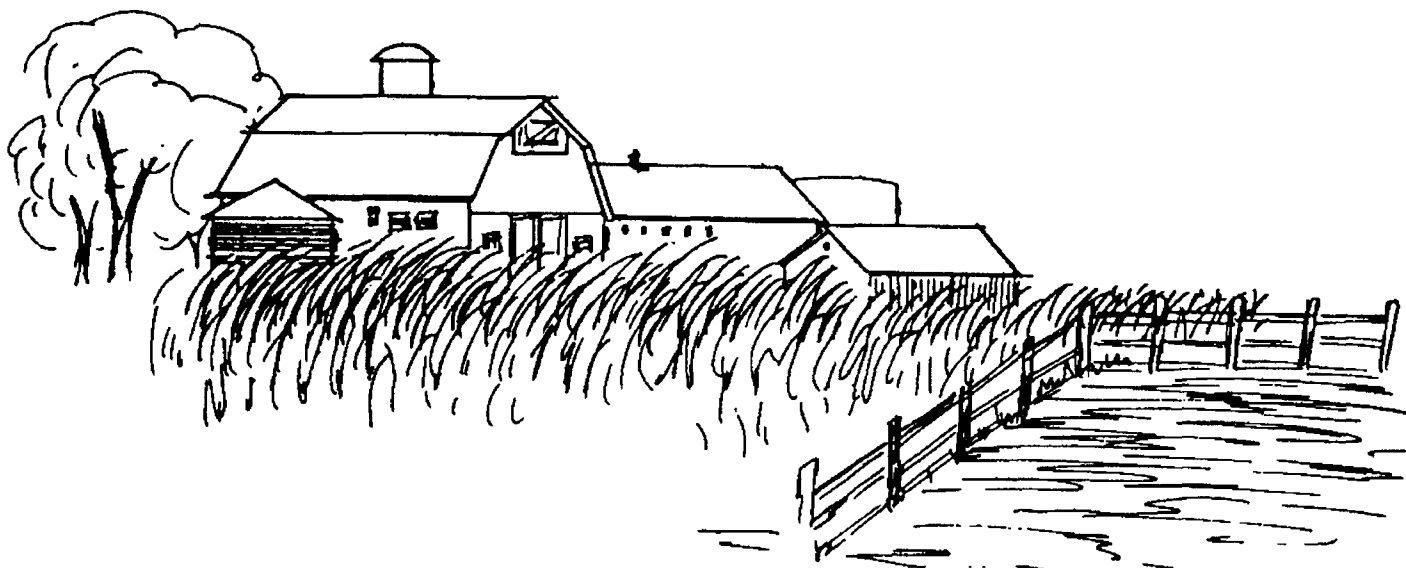
Record Highs and Lows: Acreage, Yield, and Production of Utah Crops

Item	Quantity Unit	Record High		Record Low		Year Record Started
		Quantity	Year	Quantity	Year	
Corn for Grain						
Acres Harvested	1,000 Acres	24	1918, 92, 98	2	1963, 66	1882
Yield	Bushels	147.0	1997	14.7	1889	
Production	1,000 Bushels	3,384	1998	85	1934	
Corn for Silage						
Acres Harvested	1,000 Acres	80	1975, 76	2	1920, 22	1919
Yield	Tons	23.0	1997	6.0	1934	
Production	1,000 Tons	1,501	1980	17	1921	
Barley						
Acres Harvested	1,000 Acres	190	1957	8	1898	1882
Yield	Bushels	88	1995	22.0	1882	
Production	1,000 Bushels	12,880	1982	242	1882	
Oats						
Acres Harvested	1,000 Acres	82	1910	8	1991, 94	1882
Yield	Bushels	77.0	1991	25.0	1882, 83	
Production	1,000 Bushels	3,338	1914	550	1977	
All Wheat						
Acres Harvested	1,000 Acres	444	1953	65	1880, 81	1879
Yield	Bushels	52.6	1999	15.4	1919	
Production	1,000 Bushels	9,750	1986	1,139	1882	
Other Spring Wheat						
Acres Harvested	1,000 Acres	160	1918	16	1972	1909
Yield	Bushels	65.0	1995	18.7	1919	
Production	1,000 Bushels	4,000	1918	704	1972	
Winter Wheat						
Acres Harvested	1,000 Acres	342	1953	120	1909	1909
Yield	Bushels	52.0	1999	12.7	1919	
Production	1,000 Bushels	8,100	1986	1,862	1924	
All Hay						
Acres Harvested	1,000 Acres	715	1997	402	1909	1909
Yield	Tons	3.92	1999	1.51	1934	
Production	1,000 Tons	2,778	1998	679	1934	
Alfalfa Hay						
Acres Harvested	1,000 Acres	562	1930	359	1934	1919
Yield	Tons	4.40	1993, 98, 99	1.67	1934	
Production	1,000 Tons	2,398	1998	600	1934	
All Other Hay						
Acres Harvested	1,000 Acres	180	1947	92	1934	1924
Yield	Tons	2.30	1998, 99	0.86	1934	
Production	1,000 Tons	380	1998	79	1934	
Dry Edible Beans						
Acres Harvested	1,000 Acres	20	1970	0.6	1996	1934
Yield	Pounds	1,600	1996	200	1956, 59, 62, 77	1954
Production	1,000 Cwt	91	1947	2	1977	1934
Fall Potatoes						
Acres Harvested	1,000 Acres	19.6	1943	2.0	1999	1882
Yield	Cwt	290	1997, 99	45	1886	
Production	1,000 Cwt	2,153	1946	405	1886	
Summer Storage Onions						
Acres Harvested	Acres	2,700	1999	550	1954, 66	1939
Yield	Cwt	525	1992	200	1940	
Production	1,000 Cwt	1,256	1999	150	1952	
Apples						
Utilized Production	Million Lbs	63.0	1987	2.7	1889	1889
Apricots						
Utilized Production	Tons	10,000	1957	0	1972, 95, 99	1929
Peaches (Freestone)						
Utilized Production	Million Lbs	44.2	1922	1.5	1972	1899
Pears						
Utilized Production	Tons	8,750	1954	200	1972	1909
Sweet Cherries						
Utilized Production	Tons	7,700	1968	0	1972	1938
Tart Cherries						
Utilized Production	Million Lbs	30.0	1992	1.3	1972	1938

Record Highs and Lows: Utah Livestock, Poultry, Honey, and Mink

Item	Unit	Record High		Record Low		Year Record Started
		Quantity	Year	Quantity	Year	
Cattle & Calves						
Inventory Jan. 1	Thou Hd	950	1983	95	1867	1867
Calf Crop	Thou Hd	395	1996	129	1935	1920
Beef Cows Jan. 1 ^{1/}	Thou Hd	374	1983	107	1939	1920
Milk Cows Jan. 1 ^{1/}	Thou Hd	126	1945	14	1867	1867
Milk Production	Mil Lbs	1,613	1999	412	1924	1924
Cattle on Feed Jan. 1	Thou Hd	81	1963, 66	33	1986	1959
Hogs and Pigs						
Inventory Dec. 1 ^{2/}	Thou Hd	520	1999	4	1867, 69	1867
Sheep and Lambs						
Stock Sheep Inventory Jan. 1	Thou Hd	2,775	1931	167	1867	1867
Lamb Crop	Thou Hd	1,736	1930	330	1999	1924
Market Sheep & Lambs Inv Jan.1	Thou Hd	70	1995	35	1994	1994
Chickens						
Hens & Pullets of Laying Age Dec. 1	Thou Hd	2,750	1944	1,166	1965	1925
Egg Production Total for Year	Mil Eggs	521	1999	142	1924	1924
Honey						
Production	Thou Lbs	4,368	1963	315	1997	1913
Mink						
Pelts Produced	Thou Pelts	780	1989	283	1973	1969

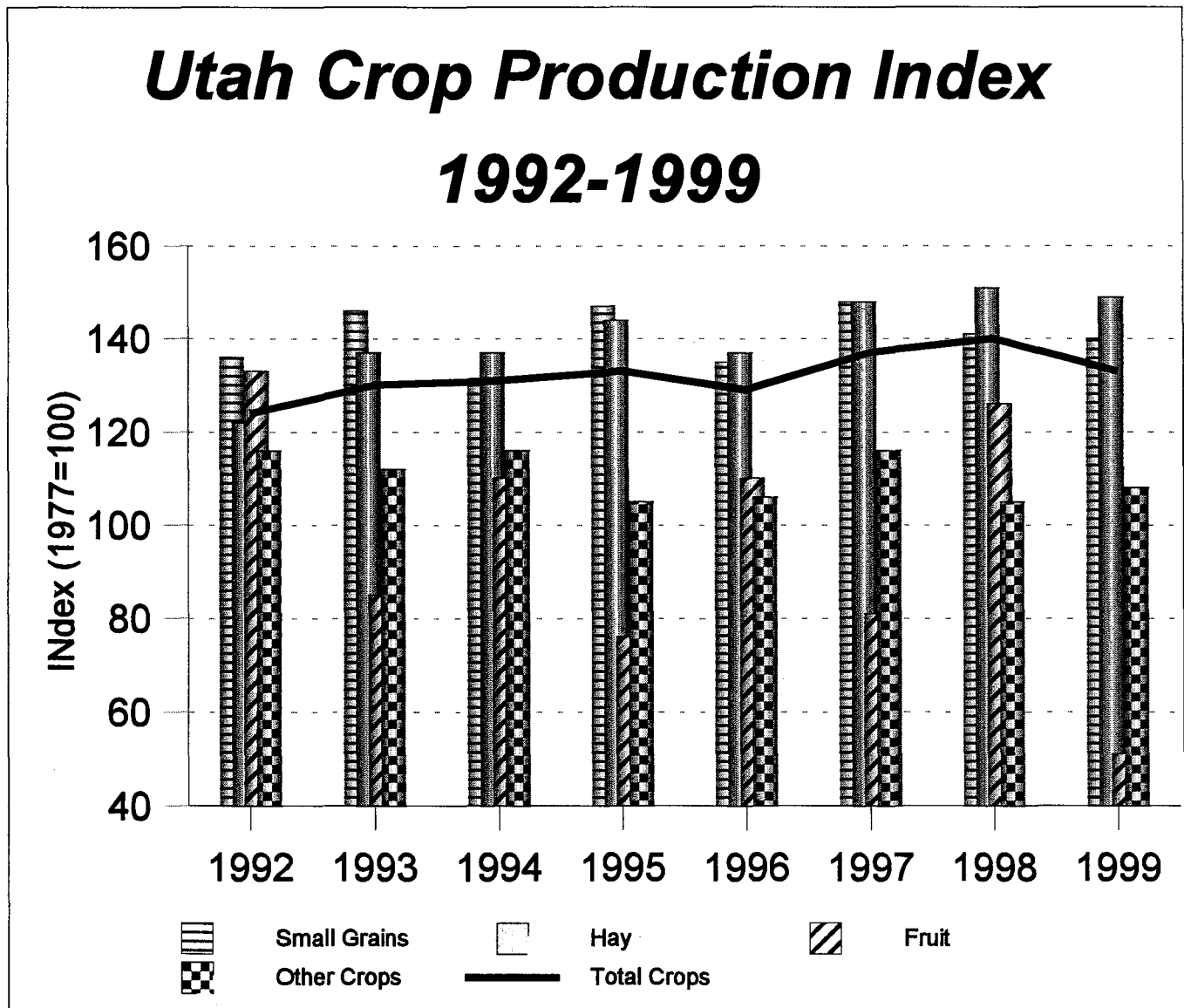
^{1/} Cows and heifers two years old and over prior to 1970, cows that have calved starting in 1970. ^{2/} January 1 estimates discontinued in 1969. December 1 estimates started 1969.



Crop Production Index (1977=100): Crops, by Commodity Grouping, Utah, 1992-99

Year	Small Grain	Hay	Fruit ^{1/}	Other Crops	Total Crops
	Percent				
1992	136	122	133	116	124
1993	146	137	85	112	130
1994	131	137	110	116	131
1995	147	144	76	105	133
1996	135	137	110	106	129
1997	148	148	81	116	137
1998	141	151	126	105	140
1999	140	149	51	108	133

^{1/} Fruit production index is derived from total production.



Number of Farms

UTAH: The number of farms in 1999 was estimated at 15,500, an increase of 500 farms from 1998. Total land in farms for 1999 was 11.6 million acres, the same as 1998 and 1997. The average farm size decreased 25 acres from 1998 to 748 acres,

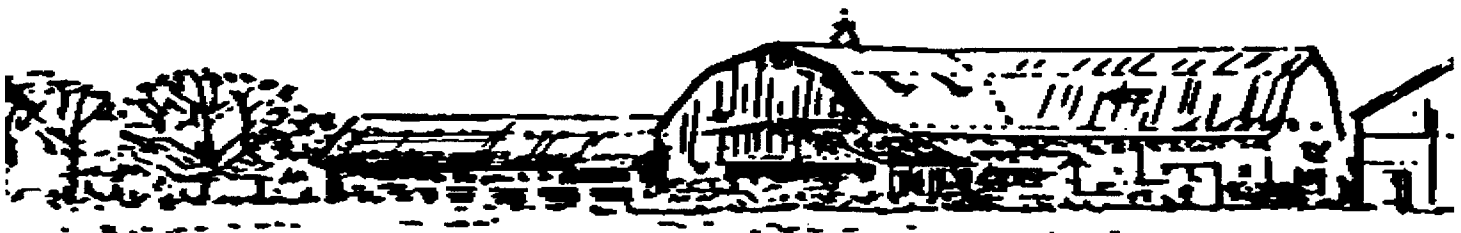
The increase in farm numbers can be attributed to the continued rise in the number of small farms. Total land in farms, at 947.3 million acres, was down 0.7 percent or 6.2 million acres from last year. This decline in land in farms continues the historical trend of less land in farms. The average farm size decreased 3 acres from 1998 to 432 acres.

UNITED STATES: The number of farms in 1999 is estimated at 2.19 million, up fractionally from 1998.

Farm Numbers and Acreage: Utah and United States, 1992-99 ^{1/}

Year	Utah			United States		
	Farms ^{2/}	Land in Farms		Farms ^{2/}	Land in Farms	
		Average Size	Total		Average Size	Total
	Number	Acres	1,000 Acres	Number	Acres	1,000 Acres
1992	13,200	856	11,300	2,107,840	464	978,503
1993	14,500	772	11,200	2,201,590	440	968,845
1994	14,500	772	11,200	2,197,690	440	965,935
1995	15,000	760	11,400	2,196,400	438	962,515
1996	15,000	760	11,400	2,190,500	438	958,675
1997	15,000	773	11,600	2,190,510	436	956,010
1998	15,000	773	11,600	2,191,360	435	953,500
1999	15,500	748	11,600	2,194,070	432	947,340

^{1/} A farm is defined as a place with annual sales of agricultural products of \$1,000 or more. ^{2/} Definition changed in 1995 to include operations with no sales but which have 5 or more horses not including operations that are either stables or racetracks only. All definition changes beginning in 1995 were carried back to 1993. Because of these changes a noticeable difference can be seen between 1992 and 1993.



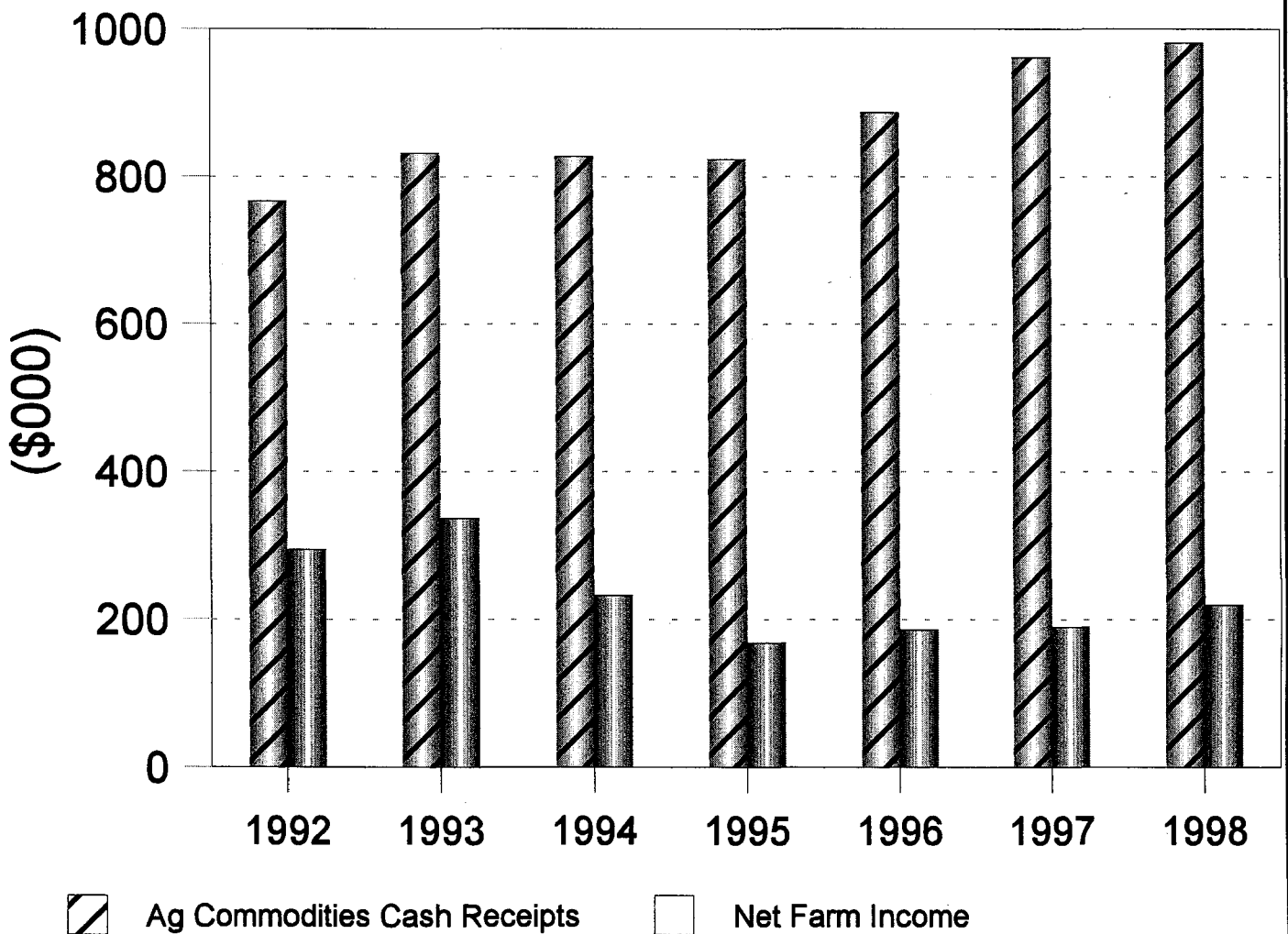
Farm Income

Marketing of Utah crops and livestock in 1998 produced cash receipts totaling \$980.9 million according to preliminary data by USDA'S Economic Research Service. This was 2.0 percent above 1997. The 1998 cash receipts from livestock, of \$736.1 million, were 4.3 percent above 1997. Cash receipts from crops, at

\$244.7 million, were down 4.4 percent from 1997.

Utah's net farm income for 1998 was \$218.8 million compared with \$189.5 million in 1997 and \$185.0 million in 1996.

Ag Commodities Cash Receipts & Net Farm Income Utah, 1992-98



Cash Receipts: by Commodity, Utah, 1995-98 1/ 2/

Commodity	1995		1996		1997		1998	
	Dollars	% of Total	Dollars	% of Total	Dollars	% of Total	Dollars	% of Total
	1,000	Percent	1,000	Percent	1,000	Percent	1,000	Percent
All Commodities								
All Commodities	823,412	100.0	886,889	100.0	961,633	100.0	980,866	100.0
Livestock & Products								
Livestock & products	592,955	72.0	648,091	73.1	705,638	73.4	736,138	75.0
Meat Animals	290,893	35.3	286,081	32.3	375,802	39.1	372,001	37.9
Cattle & Calves	261,437	31.8	244,193	27.5	319,899	33.3	303,112	30.9
Hogs	5,629	0.7	15,941	1.8	38,244	4.0	49,494	5.0
Sheep & Lambs	23,827	2.9	25,947	2.9	17,659	1.8	19,395	2.0
Dairy Products	181,837	22.1	219,476	24.7	195,825	20.4	228,511	23.3
Milk, Retail	12,074	1.5	13,396	1.5	14,646	1.5	17,395	1.8
Milk, Wholesale	169,763	20.6	206,080	23.2	181,179	18.8	211,116	21.5
Poultry/Eggs	69,126	8.4	72,630	8.2	73,786	7.7	70,645	7.2
Chicken Eggs	20,135	2.4	21,885	2.5	23,184	2.4	20,713	2.1
Other Poultry	7,897	1.0	9,492	1.1	9,749	1.0	10,249	1.0
Miscellaneous Livestock	51,099	6.2	69,904	7.9	60,225	6.3	64,981	6.6
Honey	686	*	1,329	*	1,248	*	1,131	*
Horses/mules	NA		NA		10,800	1.1	12,000	1.2
Wool	3,535	*	2,009	*	2,410	*	1,957	*
Aquaculture	3,596	*	2,489	*	2,326	*	2,326	*
Other Livestock	43,282	5.3	64,077	7.2	43,441	4.5	47,567	4.8
Mink pelts	17,490	2.1	30,267	3.4	20,651	2.1	22,177	2.3
All other livestock	25,792	3.1	33,810	3.8	22,790	2.4	25,390	2.6
Crops								
Crops	230,457	28.0	238,798	26.9	255,995	26.6	244,728	25.0
Food Grains	32,475	3.9	37,341	4.2	28,496	3.0	25,173	2.6
Wheat	32,475	3.9	37,341	4.2	28,496	3.0	25,173	2.6
Feed Crops	110,663	13.4	108,428	12.2	131,635	13.7	119,277	12.2
Barley	19,366	2.4	23,569	2.7	15,345	1.6	12,712	1.3
Corn	5,703	0.7	6,755	0.8	6,703	0.7	6,121	0.6
Hay	85,008	10.3	77,464	8.7	108,960	11.3	99,946	10.2
Oil Crops	1,581	*	1,224	*	1,528	*	1,730	*
Vegetables	23,089	2.8	22,266	2.5	24,718	2.6	27,492	2.8
Potatoes	6,933	0.8	5,423	0.6	4,508	0.5	4,711	0.5
Onions	5,634	0.7	6,150	0.7	9,782	1.0	12,276	1.3
Miscellaneous Vegetables	10,036	1.2	10,200	1.2	10,200	1.1	10,200	1.0
Fruits/Nuts	9,080	1.1	15,160	1.7	13,145	1.4	14,249	1.5
Apples	3,726	0.5	5,766	0.7	6,679	0.7	4,684	0.5
Fresh	3,016	*	5,212	0.6	6,152	0.6	4,581	0.5
Cherries	2,270	*	5,094	0.6	2,884	*	6,174	0.6
Sweet	1,646	*	2,490	*	644	*	1,854	*
Tart	624	*	2,604	*	2,240	*	4,320	*
Peaches	1,675	*	2,336	*	2,052	*	1,890	*
Other Berries	675	*	743	*	683	*	693	*
Miscellaneous Fruits/Nuts	389	*	392	*	402	*	410	*
All Other Crops	53,569	6.5	54,379	6.1	56,473	5.9	56,807	5.8
Other Seeds	1,277	*	1,630	*	1,730	*	1,730	*
Other Field Crops	4,565	0.6	4,510	0.5	4,510	0.5	4,524	0.5
Christmas trees	410	*	420	*	440	*	440	*
Greenhouse/Nursery	40,305	4.9	41,486	4.7	43,692	4.5	44,296	4.5
Floriculture	28,305	3.4	26,486	3.0	28,190	2.9	28,794	2.9
Other Greenhouses	12,000	1.5	15,000	1.7	15,502	1.6	15,502	1.6

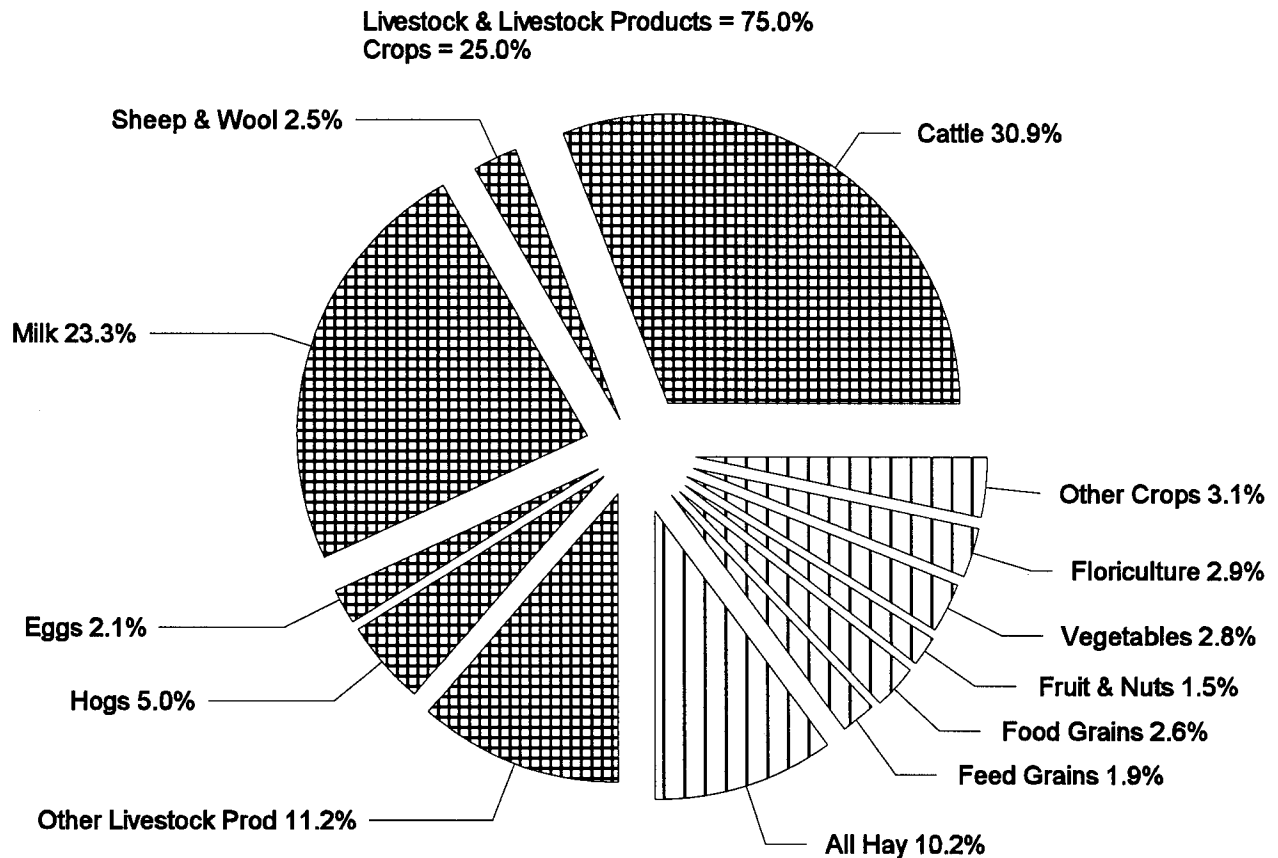
1/ Source: "Economic Indicators of the Farm Sector: State Financial Summary." Economic Research Service, USDA. Revised August 8, 1999. 2/ Individual dollar values and percents may not add to commodity grouping totals because some individual commodities with less than \$1,000,000 are not published separately, or included in "other" or "miscellaneous". Percents may not add to totals due to rounding. * Less than 0.5 percent.

The graph below shows the predominance of livestock in Utah's agricultural economy. Livestock and livestock products accounted for 75.0 percent of farm cash receipts in 1998, the same as 1997. In 1998, cattle remained the single largest contributing commodity

producing 30.9 percent of the total cash receipts. Milk cash receipts increased from 20.6 percent in 1997 to 23.3 percent in 1998. Hay, which continues to be the largest cash producing crop in Utah, decreased from 11.0 percent in 1997 to 10.2 percent in 1998.

Utah Cash Receipts by Commodities

1998



Net Farm Income: Value added to the U.S. economy by the agricultural sector via the production of goods and services, Utah, 1992-98 ^{1/2/}

Item	1992	1993	1994	1995	1996	1997	1998
	Thousand Dollars						
Final Agricultural Sector Output	887,608	963,498	981,981	964,884	1,033,733	1,103,572	1,125,536
Final crop output	193,236	226,652	233,016	237,644	237,660	261,347	245,254
Food Grains	20,596	21,585	25,249	32,475	37,341	28,496	25,173
Feed Crops	80,691	104,516	112,784	110,663	108,428	131,635	119,277
Oil crops	714	1,108	1,421	1,581	1,224	1,528	1,730
Fruits and tree nuts	15,854	11,020	12,334	9,080	15,160	13,145	14,249
Vegetables	35,263	35,338	29,962	23,089	22,266	24,718	27,492
All other crops	40,415	48,271	50,463	53,569	54,379	56,473	56,807
Home consumption	901	990	990	1,024	1,024	1,024	1,024
Value of inventory adjustment ^{3/}	(1,198)	3,824	(187)	6,163	(2,162)	4,328	(498)
Final animal output	613,208	635,180	634,249	607,448	671,918	718,846	734,350
Meat animals	288,294	328,089	303,688	290,893	286,081	375,802	372,001
Dairy products	169,532	165,065	181,930	181,837	219,476	195,825	228,511
Poultry and eggs	63,824	77,263	66,230	69,126	72,630	73,786	70,645
Miscellaneous livestock	50,954	53,872	54,397	51,099	69,904	60,225	64,981
Home consumption	7,607	8,098	7,260	6,673	6,157	7,033	6,611
Value of inventory adjustment ^{3/}	32,997	2,793	20,744	7,820	17,670	6,175	(8,399)
Services and forestry	81,164	101,666	114,715	119,792	124,155	123,379	145,932
Machine hire and custom work	10,924	11,070	11,935	10,787	11,701	13,720	11,789
Forest products sold	290	94	94	95	94	95	97
Other farm income	21,810	26,205	21,964	28,873	34,021	27,648	45,412
Gross imputed rental value of farm dwelling ..	48,139	64,297	80,722	80,037	78,338	81,916	88,634
Intermediate Consumption Outlays	386,064	413,475	493,024	508,585	560,416	607,202	597,951
Farm origin	154,105	159,672	184,996	197,766	222,856	257,817	238,947
Feed purchased	87,174	87,386	109,579	129,543	147,218	172,981	158,289
Livestock and poultry purchased	56,044	59,947	60,109	52,788	57,762	64,246	61,181
Seed purchased	10,887	12,339	15,308	15,435	17,876	20,590	19,477
Manufactured inputs	66,002	66,989	79,948	83,230	94,567	91,028	85,263
Fertilizers and lime	14,038	16,021	20,774	22,065	24,319	25,656	22,097
Pesticides	7,123	7,660	8,740	8,964	9,535	10,330	11,314
Petroleum fuel and oils	28,473	27,929	31,156	31,333	36,636	38,459	34,538
Electricity	16,368	15,379	19,278	20,868	24,077	16,583	17,314
Other intermediate expenses	165,957	186,814	228,080	227,589	242,993	258,357	273,741
Repair and maintenance of capital items	56,282	56,363	66,433	68,342	74,395	70,568	79,328
Machine hire and custom work	12,114	12,802	13,010	15,896	10,929	12,074	14,196
Marketing, storage, and transportation	12,776	22,962	24,612	24,525	23,753	35,113	32,597
Contract labor	3,383	3,628	3,475	5,408	6,811	7,765	7,022
Miscellaneous expenses	81,402	91,059	120,550	113,418	127,105	132,837	140,598
Net Government Transactions	11,557	10,105	1,832	(7,134)	(11,286)	(13,498)	(10,813)
+Direct Government payments	35,972	36,614	32,055	24,495	21,478	20,094	24,981
- Motor vehicle registration and licensing fee ..	3,246	3,867	4,943	4,225	4,556	4,744	5,408
- Property taxes	21,169	22,642	25,280	27,404	28,208	28,848	30,386
Gross Value Added	513,101	560,128	490,789	449,165	462,031	482,872	516,771
Capital consumption	104,236	108,371	116,514	126,051	128,125	129,550	132,715
Net Value Added	408,865	451,757	374,275	323,114	333,906	353,322	384,056
Factor payments	114,885	115,517	142,646	155,288	148,935	163,787	165,299
Employee compensation (total hired labor) ..	54,572	66,340	85,618	88,383	86,897	94,058	95,114
Net rent received by non operator landlord ..	6,699	3,302	5,019	10,485	10,614	15,405	13,128
Real estate and non real estate interest	53,614	45,875	52,009	56,420	51,424	54,324	57,057
Net Farm Income ^{4/}	293,980	336,240	231,629	167,826	184,971	189,535	218,757

^{1/} Source: Economic Research Service, USDA. ^{2/} Final sector output is the gross value of the commodities and services produced within a year. Net value-added is the sector's contribution to the National economy and is the sum of the income from production earned by all factors-of-production. Net farm income is the farm operator's share of income from the sector's production activities. The concept presented is consistent with that employed by the Organization for Economic Cooperation and Development. ^{3/} A positive value of inventory change represents current-year production not sold by December 1. A negative value is an offset to production from prior years included in current-year sales. ^{4/} Net Farm income = final agricultural sector output minus intermediate consumption outlays plus net government transactions minus capital consumption minus factor payments.

Farm Balance Sheet: (Excluding Operator Households), Utah, December 31, 1990-98 ^{1/2/}

Item	1990	1991	1992	1993	1994	1995	1996	1997	1998
Farms (numbers)									
Farms	13,200	13,300	13,200	14,500	14,500	15,000	15,000	15,000	15,000
Assets (\$1,000)									
Total Farm Assets	5,406,374	5,585,436	6,039,180	7,943,853	8,162,654	8,635,664	9,206,512	9,627,816	9,956,083
Real Estate	4,160,133	4,433,617	4,841,193	6,706,488	6,956,268	7,250,194	7,776,169	8,045,344	8,125,099
Livestock & Poultry ^{3/}	582,727	566,315	637,914	626,929	626,445	510,964	553,353	625,347	583,720
Machinery & motor vehicles ^{4/}	440,493	440,976	431,322	436,134	469,782	491,766	495,573	544,747	542,360
Crops ^{5/}	114,633	95,173	90,334	117,657	114,672	101,191	120,993	150,943	147,844
Purchased Inputs	15,458	17,536	27,209	29,321	36,362	22,694	24,478	28,690	29,510
Financial	92,930	31,819	11,208	324	(40,875)	258,855	235,946	232,745	527,550
Claims (\$1,000)									
Farm Debt ^{6/}	661,906	660,821	653,698	650,400	668,573	688,266	709,522	766,897	786,619
Real estate	372,658	355,817	352,883	340,390	339,394	348,133	350,892	372,674	375,675
Farm Credit System	141,215	126,074	110,940	102,769	92,910	98,112	98,185	107,940	106,827
Farm Service Agency ^{7/}	56,874	53,449	50,318	47,492	45,366	42,569	39,730	37,849	37,182
Commercial banks	36,666	36,600	48,362	42,121	43,648	46,160	48,792	52,908	56,951
Life insurance companies	10,921	8,938	8,650	8,431	11,041	10,948	9,928	15,802	18,107
Individuals and others	126,863	130,748	134,613	139,576	146,428	150,343	154,258	158,174	156,607
CCC storage & drying loans	120	9	0	0	0	0	0	0	0
Non-Real Estate	289,248	305,004	300,815	310,010	329,179	340,133	358,630	394,223	410,944
Farm Credit System	62,400	57,600	56,171	58,471	55,570	56,527	69,904	81,859	87,485
Farm Service Agency ^{7/}	34,447	33,913	35,764	35,966	36,867	35,039	36,513	38,728	41,155
Commercial banks	134,000	153,967	148,233	150,433	167,111	174,443	172,247	187,382	192,456
Individuals and others	58,401	59,524	60,647	65,140	69,632	74,124	79,965	86,254	89,848
Equity (\$1,000)									
Equity	4,744,468	4,924,615	5,385,482	7,293,453	7,494,081	7,947,398	8,496,990	8,860,919	9,169,464
Ratios (percent)									
Debt/Equity	14.0	13.4	12.1	8.9	8.9	8.7	8.4	8.7	8.6
Debt/Assets	12.2	11.8	10.8	8.2	8.2	8.0	7.7	8.0	7.9

^{1/} Source: Economic Research Service/USDA.

^{2/} Data are for farms with sales of \$1,000 or more annually.

^{3/} Excludes horses, mules, and broilers.

^{4/} Includes only farm share value for trucks and autos.

^{5/} All non-CCC crops held on farms plus the value above loan rate for crops held under CCC.

^{6/} Excludes debt for non-farm purposes.

^{7/} Farmers Home Administration prior to 1994.

Field Crops

PRECIPITATION

Water year (October 1, 1998 to September 30, 1999) for the Utah growing season was 109 percent of normal for the state with the districts ranging from 94 percent of normal to 156 percent of normal.

PRINCIPAL CROPS

Utah farmers planted 1.1 million acres to principal crops in 1999, down 2.2 percent from 1998. Harvested acres were 1.0 million acres, 1.5 percent less than 1998. Preliminary total value of principal crops was \$252.4 million compared with \$287.4 million in 1998.

SMALL GRAINS

All wheat production, at 8.9 million bushels, was up 1.2 percent from 1998. Average price received by producers was \$2.55 per bushel, 39 cents lower than 1998 and 77 cents below 1997. The value of the crop, at \$23.2 million, was 9.9 percent below 1998 and 20 percent below 1997. Average yield of 52.6 bushels per acre was 1.5 bushels above 1998's yield. Acres harvested was 170,000, down 3,000 acres from 1998. **Winter wheat** production of 7.5 million bushels was up slightly from the 1998 level. The average price of \$2.50 per bushel was 45 cents below 1998. Value of production fell 15 percent to \$18.9 million. Winter wheat yield, at 52 bushels per acre, was 2 bushels above 1998. Harvested acreage of 145,000 acres was 5,000 acres less than 1998. **Acreage seeded** for 2000 harvest is forecast at 150,000 acres, the same as last year. **Other spring wheat** production of 1.4 million bushels was 4.9 percent above the previous year. The average price of \$3.10 per bushel was up 40 cents from 1998. Value of production, at \$4.3 million, was up 20 percent from the 1998 level. Yield of 56 bushels per acre was 2 bushels below last year. Harvested acreage of 25,000 acres was up 8.7 percent from 1998.

Barley production, at 6.8 million bushels, was 249,000 bushels below 1998. The average price of \$1.70 per bushel was down 16 cents. The value of the crop, at \$11.6 million, was down 12 percent. Yield of 82.0 bushels per acre was one bushel below last year. Harvested acres, at 83,000, was 2.4 percent below 1998.

Oat production, at 675,000 bushels, was 7.1 percent above the previous year. Average price of \$1.50 per bushel was 5 cents above 1998. The value of production was up 11 percent to \$1.0 million. Oat yield was 75 bushels per acre, up 5 bushels from 1998. Harvested acreage for grain was 9,000 acres, the same as the previous year.

CORN

Corn for grain production at 2.9 million bushels was down 16 percent from the 1998 level. Average price was \$2.35 per bushel, down 10 cents from the previous year. Total value of the crop, at \$6.7 million, was 19 percent below 1998. Corn for grain yield, at 143 bushels, was up 2 bushels from the 1998 level. Harvested acreage for grain was 20,000, down 17 percent from 1998. Total **corn silage** production was 840,000 tons compared with 777,000 tons in 1998. Yield of 21.0 tons per acre was the same as 1998. Harvested acreage of 40,000 was 8.1 percent above the previous year. The value of the crop was \$21.0 million compared with \$20.2 million the previous year. Silage price of \$25 per ton was \$1.00 less than 1998.

HAY

Alfalfa hay production of 2.4 million tons was down slightly from the 1998 level. Yield of 4.40 tons per acre was the same as 1998, and harvested acres, at 540,000 acres, was 5,000 acres less than 1998. **All other hay** yielded 2.3 tons per acre for a production of 368,000 tons, down 3.2 percent from 1998. Harvested acres of 160,000 acres compared with 165,000 acres harvested in 1998. The 1999 **all hay** crop was valued at \$183.0 million, down 10 percent from 1998. The price per ton, at \$70.50, was down \$5.50 from the previous year.

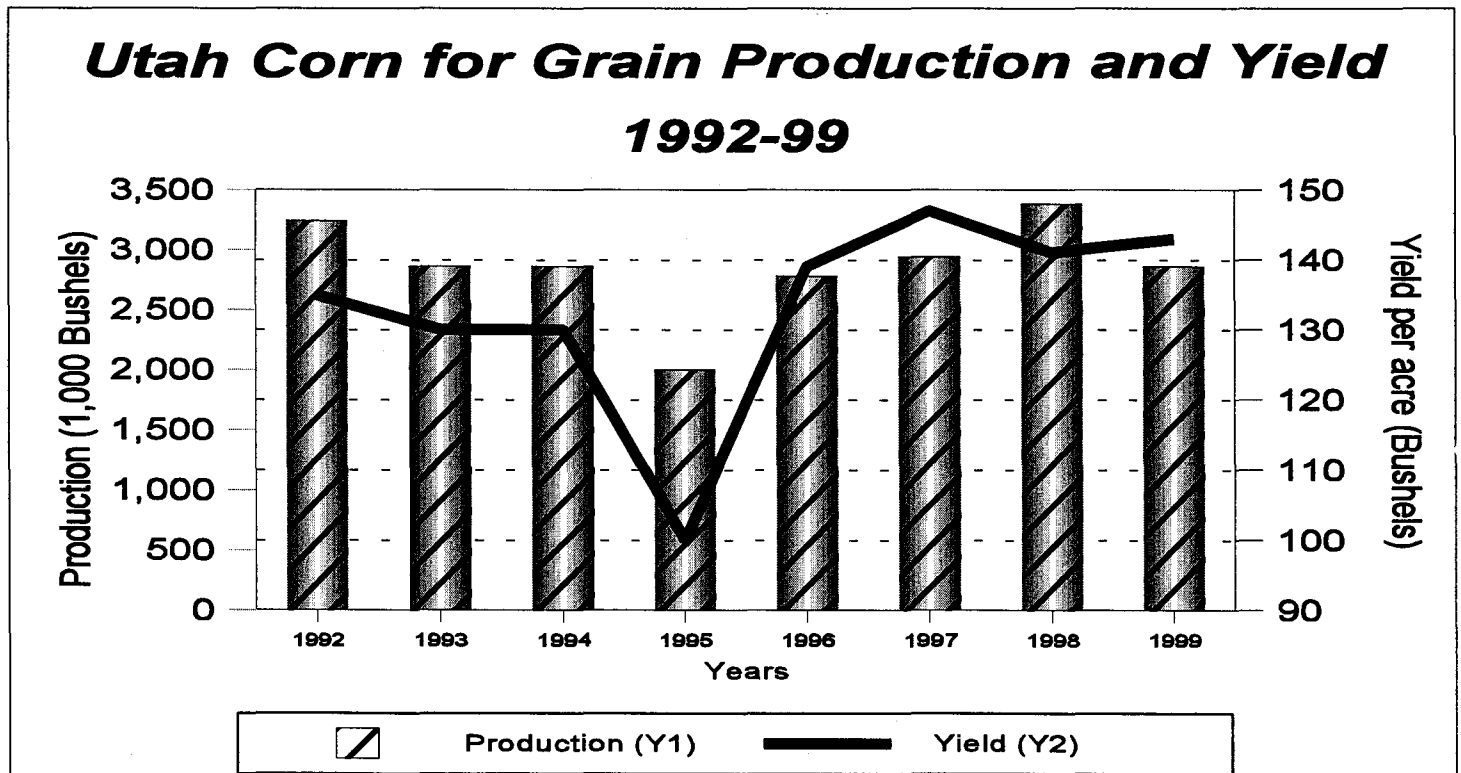
DRY EDIBLE BEANS

Dry edible bean production for 1999, at 5.3 million pounds, was 77 percent above the 1998 level. Growers harvested 6,600 acres compared with 5,900 acres during 1998. Yields averaged 800 pounds per acre. Value of production at \$991,000 compared with \$525,000 in 1998. Price per hundredweight (cwt) was \$18.70, up \$1.20 from 1998.

Corn Planted and Harvested for Silage and Grain: Acreage, Yield, Production, and Value, Utah, 1992-99

Year	Planted for All Purposes	Acres Harvested	Yield Per Acre	Production	Marketing Year Average Price	Value of Production
Silage						
	..... 1,000 Acres		Tons	1,000 Tons	Dollars per Ton ^{1/}	1,000 Dollars
1992	68	42	19.0	798	24.00	19,152
1993	68	44	20.0	880	24.00	21,120
1994	67	43	22.0	946	26.00	24,596
1995	66	45	20.0	900	25.00	22,500
1996	62	40	21.0	840	28.00	23,520
1997	62	41	23.0	943	28.00	26,404
1998	62	37	21.0	777	26.00	20,202
1999	61	40	21.0	840	25.00	21,000
Grain						
	..... 1,000 Acres		Bushels	1,000 Bushels	Dollars per Bushel	1,000 Dollars
1992	68	24	135.0	3,240	2.74	8,878
1993	68	22	130.0	2,860	3.12	8,923
1994	67	22	130.0	2,860	2.92	8,351
1995	66	20	100.0	2,000	3.88	7,760
1996	62	20	139.0	2,780	3.80	10,564
1997	62	20	147.0	2,940	3.05	8,967
1998	62	24	141.0	3,384	2.45	8,291
1999	61	20	143.0	2,860	2.35	6,721

^{1/} Price or value per ton in silo or pit.



Small Grains: Acreage, Yield, Production, and Value, Utah, 1992-99

Crop & Year	Acres		Yield per Acre	Production	Marketing Year Average Price	Value of Production
	Planted ^{1/}	Harvested				
	..... 1,000 Acres		Bushels	1,000 Bushels	Dollars per Bushel	1,000 Dollars
Winter Wheat ^{1/}						
1992	145	135	40.0	5,400	3.27	17,658
1993	160	155	39.0	6,045	3.40	20,553
1994	170	150	40.0	6,000	3.66	21,960
1995	150	145	48.0	6,960	4.75	33,250
1996	175	160	38.0	6,080	4.45	27,056
1997	170	165	46.0	7,590	3.29	24,971
1998	155	150	50.0	7,500	2.95	22,125
1999	150	145	52.0	7,540	2.50	18,850
Other Spring Wheat						
1992	25	22	48.0	1,056	3.30	3,485
1993	27	25	49.0	1,225	3.30	4,043
1994	24	22	46.0	1,012	3.60	3,643
1995	27	25	65.0	1,625	4.70	9,165
1996	27	25	55.0	1,375	4.40	6,050
1997	25	24	48.0	1,152	3.51	4,044
1998	24	23	58.0	1,334	2.70	3,602
1999	26	25	56.0	1,400	3.10	4,340
All Wheat						
1992	170	157	41.1	6,456	3.28	21,143
1993	187	180	40.4	7,270	3.40	24,596
1994	194	172	40.8	7,012	3.65	25,603
1995	177	170	50.5	8,585	4.74	42,415
1996	202	185	40.3	7,455	4.40	33,106
1997	195	189	46.3	8,742	3.32	29,015
1998	179	173	51.1	8,834	2.94	25,727
1999	176	170	52.6	8,940	2.55	23,190
Barley						
1992	125	115	78.0	8,970	2.23	20,003
1993	115	110	85.0	9,350	2.22	20,757
1994	115	107	75.0	8,025	2.32	18,618
1995	100	93	88.0	8,184	3.08	25,780
1996	110	100	80.0	8,000	2.93	23,440
1997	100	95	84.0	7,980	2.29	18,274
1998	95	85	83.0	7,055	1.86	13,122
1999	90	83	82.0	6,806	1.70	11,570
Oats						
1992	45	15	70.0	1,050	1.63	1,712
1993	50	13	75.0	975	1.69	1,714
1994	40	8	72.0	576	1.65	990
1995	50	9	68.0	612	2.05	1,292
1996	45	9	70.0	630	2.10	1,323
1997	50	10	72.0	720	1.97	1,418
1998	50	9	70.0	630	1.45	914
1999	45	9	75.0	675	1.50	1,013

^{1/} Planted in preceding fall.

Field Crops: Acreage, Yield, Production, and Value, Utah, 1992-99

Crop & Year	Acres		Yield per Acre	Production	Marketing Year Average Price	Value of Production
	Planted	Harvested				

Dry Beans ^{1/}

	..... 1,000 Acres		Pounds	1,000 Cwt	Dollars per Cwt	1,000 Dollars
1992	6.0	5.7	700	40	19.90	796
1993	6.4	6.1	390	24	28.00	672
1994	6.5	6.3	380	24	18.00	432
1995	7.3	7.0	460	32	19.00	608
1996	5.0	0.6	1,600	10	24.00	240
1997	5.8	5.2	800	42	20.00	840
1998	6.0	5.9	510	30	17.50	525
1999	6.7	6.6	800	53	18.70	991

Potatoes

	..... 1,000 Acres		Cwt	1,000 Cwt	Dollars per Cwt	1,000 Dollars
1992	6.1	6.0	275	1,650	5.40	8,910
1993	6.3	6.2	265	1,643	5.70	9,365
1994	6.1	6.0	265	1,590	5.80	9,222
1995	5.2	5.1	240	1,224	5.10	6,242
1996	4.3	4.2	280	1,176	4.90	5,762
1997	3.3	3.3	290	957	4.35	4,163
1998	2.7	2.6	280	728	4.85	3,531
1999	2.0	2.0	290	580	5.30	3,074

^{1/} Excludes beans grown for garden seed.

Potatoes: Production, Farm Use, Sales, and Value, Utah, 1992-99

Year	Production	Total Used for Seed ^{1/}	Farm Disposition			Price per Cwt	Value of	
			Where Grown		Sold		Production	Sales
			Seed, Feed, Home	Shrink and Loss				

	..... 1,000 Cwt				Dollars	..... 1,000 Dollars	
1992	1,650	158	20	105	1,525	5.40	8,910 8,235
1993	1,643	165	23	168	1,452	5.70	9,365 8,276
1994	1,590	130	5	185	1,400	5.80	9,222 8,120
1995	1,224	103	2	125	1,097	5.10	6,242 5,595
1996	1,176	83	1	108	1,067	4.90	5,762 5,228
1997	957	68	1	68	888	4.35	4,163 3,863
1998	728	48		73	655	4.85	3,531 3,177
1999 ^{2/}	580	^{3/}	^{3/}	^{3/}	^{3/}	5.30	3,074 ^{3/}

^{1/} Includes seed purchased and seed used on farms where grown. ^{2/} Preliminary. ^{3/} Available September 21, 2000.

Hay: Acreage, Yield, Production, and Value, Utah, 1992-99

Year	Acres Harvested	Yield per Acre	Production	Marketing Year Average Price ^{1/}	Value of Production
	1,000 Acres	Tons	1,000 Tons	Dollars per Ton	1,000 Dollars
Alfalfa & Alfalfa Mixtures					
1992	490	4.00	1,960	62.00	121,520
1993	500	4.40	2,200	65.50	144,100
1994	525	4.20	2,205	80.00	176,400
1995	545	4.30	2,344	66.00	154,704
1996	545	4.00	2,180	72.50	158,050
1997	545	4.30	2,344	85.00	199,240
1998	545	4.40	2,398	77.00	184,646
1999	540	4.40	2,376	71.50	169,884
All Other Hay					
1992	140	2.00	280	43.00	12,040
1993	150	2.20	330	50.50	16,665
1994	160	2.00	320	64.00	20,480
1995	150	2.00	300	49.50	14,850
1996	160	2.10	336	46.50	15,624
1997	170	2.20	374	64.00	23,936
1998	165	2.30	380	51.50	19,570
1999	160	2.30	368	35.50	13,064
All Hay					
1992	630	3.56	2,240	61.00	133,560
1993	650	3.89	2,530	65.00	160,765
1994	685	3.69	2,525	79.50	196,880
1995	695	3.80	2,644	66.00	169,554
1996	705	3.57	2,516	72.00	173,674
1997	715	3.80	2,718	84.00	223,176
1998	710	3.91	2,778	76.00	204,216
1999	700	3.92	2,744	70.50	182,948

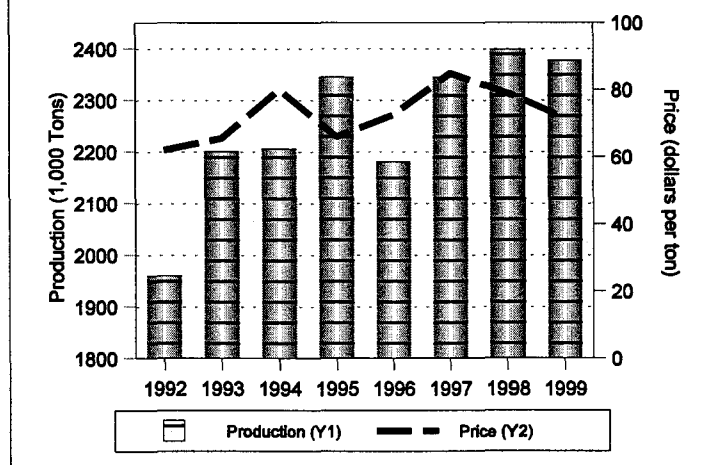
^{1/} Baled hay.

Hay: Stocks on Farms, May 1 and December 1, Utah, 1992-2000

Year	May 1	December 1
	1,000 Tons	
1992	319	1,344
1993	246	1,518
1994	323	1,452
1995	245	1,481
1996	349	1,327
1997	302	1,658
1998	435	1,695
1999	485	1,540
2000	320	^{1/}

^{1/} Available January 2001

Alfalfa Hay Production and Price 1992-99

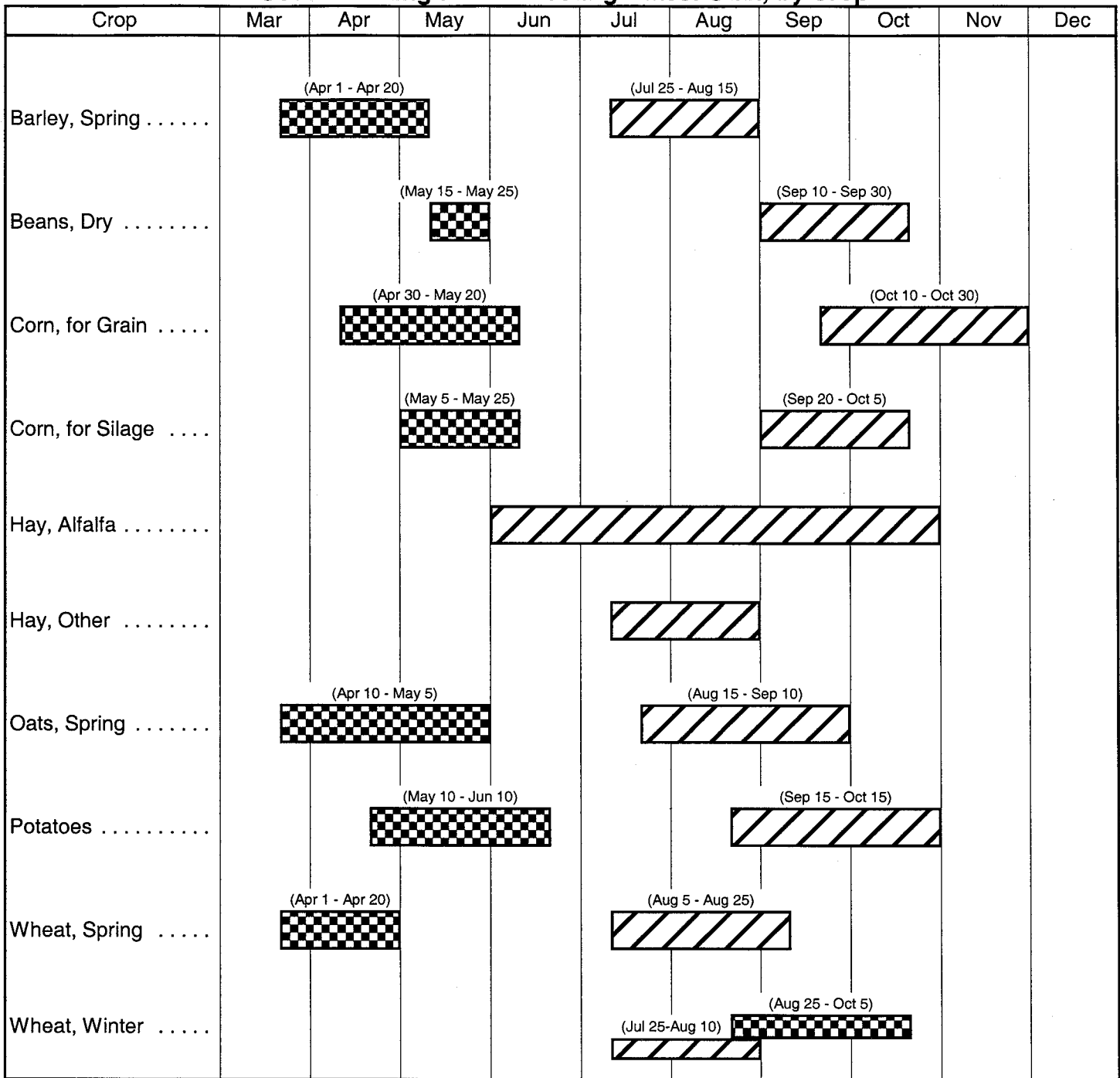


**Grain Stocks Stored Off Farm : Wheat, Barley, Oats, and Corn,
Utah, by Quarters, 1992-2000 ^{1/}**

Year	March 1	June 1	September 1	December 1
1,000 Bushels				
All Wheat				
1992	6,504	3,429	6,711	6,808
1993	5,881	4,404	4,765	5,908
1994	6,542	4,369	5,856	3,264
1995	5,106	3,625	5,165	5,807
1996	5,143	3,684	2,998	3,248
1997	3,775	3,398	4,401	6,410
1998	5,557	4,894	5,472	5,538
1999	5,266	4,261	4,685	4,587
2000	5,737	^{2/}		
Barley				
1992	1,427	605	2,872	2,538
1993	1,694	973	2,799	3,284
1994	2,356	1,106	3,172	1,757
1995	1,063	512	1,823	1,937
1996	1,129	557	1,915	1,499
1997	1,295	440	2,058	1,601
1998	1,367	679	1,523	1,417
1999	903	713	1,698	1,678
2000	1,244	^{2/}		
Oats				
1992	193	174	232	278
1993	151	119	88	143
1994	191	72	^{3/}	^{3/}
1995	^{3/}	52	142	115
1996	71	136	76	^{3/}
1997	119	37	^{3/}	95
1998	96	32	68	^{3/}
1999	^{3/}	46	197	97
2000	97	^{2/}		
Corn				
1992	775	432	384	675
1993	543	519	306	581
1994	646	519	255	573
1995	564	432	475	543
1996	609	377	476	865
1997	697	261	^{3/}	632
1998	727	560	630	687
1999	763	^{3/}	^{3/}	763
2000	537	^{2/}		

^{1/} Includes stocks at mills, elevators, warehouses, terminals, and processors. ^{2/} Estimates available June 30, 2000. ^{3/} Not published to avoid disclosure of individual operations.

Usual Planting and Harvesting Dates: Utah, by Crop



Usual Planting Dates



Usual Harvesting Dates

() Most Active Dates

Source: USDA publication "Usual Planting and Harvesting Dates for U.S. Field Crops", December 1997

Fruits

Utah's 1999 preliminary estimates of fruit production were lower than the previous year for peaches, apples, apricots, tart cherries, sweet cherries, and pears. Prices were higher for apples, peaches, sweet cherries and pears. Estimates are subject to revision July 7, 2000.

Apple production during 1999, at 12 million pounds, was 76 percent lower than the 1998 crop, and utilized production, also at 12 million pounds, was down 61 percent from last year. Producers received an average price of 25 cents per pound, 10.5 cents more than the previous year. The 1999 total value of utilized production, at \$3.0 million, was 33 percent lower than the previous year.

During 1999, there was no significant commercial production of **apricots** due to frost damage.

Peach production, at 6.5 million pounds, was 16 percent lower than 1998. Utilized production was 6.2 million pounds compared with 7.0 million pounds in

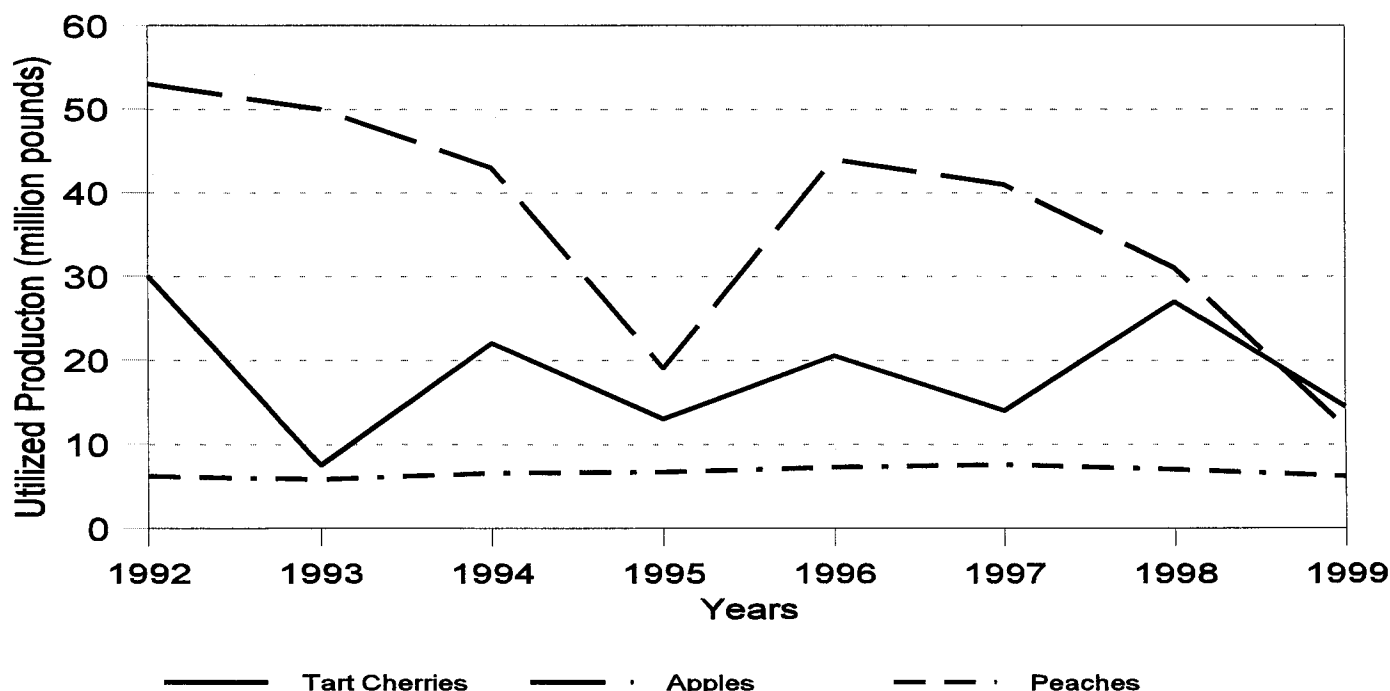
1998. Average price per pound was 32.8 cents bringing total value of the crop to \$2.0 million, 7.6 percent higher than 1998.

Pear production, at 300 tons, was 67 percent higher than the year before. The average price received by growers was \$458 per ton, \$151 per ton more than 1998. Total value of the crop was \$135,000, down 49 percent from the year earlier.

Sweet cherry producers harvested 1,200 tons, 1,600 tons less than 1998. Utilized production was 1,150 tons. Average price received by growers was \$999 per ton, up \$312 from the previous year. The total value of the crop was \$1.1 million, down 38 percent from 1998.

Tart cherry production during 1999 was 15.0 million pounds, 55 percent lower than 1998. Utilized production was 14.5 million pounds. Tart cherry prices for the 1999 crop will not be published until July 7, 2000.

Utah Tart Cherry, Apple, & Peach Utilized Production, 1992-99



Fruit: Acreage, Yield, Production, Use, and Value, Utah, 1992-99

Fruit & Year	Bearing Acreage	Yield per Acre ^{1/}	Production				Utilization		Price per Pound	Value of Utilized Production
			Total	Unutilized		Utilized	Fresh	Processed		
				Un-harvested	Harvested not sold					
	Acres	Pounds	Million Pounds					Dollars	1,000 Dollars	
Commercial Apples										
1992	3,100	18,100	56.0	3.0		53.0	38.0	15.0	0.129	6,830
1993	3,000	17,700	53.0	3.0		50.0	39.0	11.0	0.121	6,043
1994	3,000	16,000	48.0	5.0		43.0	32.0	11.0	0.121	5,192
1995	3,000	6,670	20.0	1.0		19.0	13.0	6.0	0.188	3,580
1996	2,800	17,100	48.0	1.0	3.0	44.0	33.0	11.0	0.136	5,984
1997	2,800	15,000	42.0	1.0		41.0	34.0	7.0	0.165	6,747
1998	2,800	17,500	49.0	17.0	1.0	31.0	26.0	5.0	0.145	4,480
1999	2,800	4,290	12.0			12.0	^{2/}	^{2/}	0.250	3,000
Tart Cherries										
1992			33.0	1.0	2.0	30.0	0.3	29.7	0.140	4,200
1993			15.0	6.5	1.0	7.5	0.1	7.4	0.128	960
1994	3,500	7,570	26.5	1.5	3.0	22.0		22.0	0.103	2,266
1995	3,200	6,880	22.0	5.0	4.0	13.0		13.0	0.048	624
1996	3,000	8,830	26.5	3.5	2.5	20.5		20.5	0.127	2,604
1997	2,800	6,250	17.5	2.0	1.5	14.0		14.0	0.160	2,240
1998	2,800	11,800	33.0	6.0		27.0		27.0	0.160	4,320
1999	2,800	5,360	15.0	0.5		14.5		14.5	^{2/}	^{2/}
Peaches										
1992	1,200	6,080	7.3	1.1		6.2	^{3/}	^{3/}	0.220	1,364
1993	1,000	6,000	6.0	0.2		5.8	5.8		0.240	1,392
1994	1,000	7,400	7.4	0.8		6.6	6.6		0.230	1,518
1995	1,100	6,270	6.9	0.2		6.7	6.7		0.250	1,675
1996	1,200	6,250	7.5	0.1	0.1	7.3	7.3		0.320	2,336
1997	1,300	6,230	8.1	0.2	0.3	7.6	7.6		0.270	2,052
1998	1,300	5,920	7.7	0.4	0.3	7.0	7.0		0.270	1,890
1999	1,300	5,000	6.5		0.3	6.2	^{3/}	^{3/}	0.328	2,034

^{1/} Yield is based on total production. ^{2/} Estimates available July 7, 2000. ^{3/} Not published to avoid disclosure of individual operations.

Fruit: Acreage, Yield, Production, Use, and Value, Utah, 1992-99

Fruit & Year	Bearing Acreage	Yield per Acre ^{1/}	Production				Utilization		Price per Ton	Value of Utilized Production
			Total	Unutilized		Utilized	Fresh	Processed		
				Un-harvested	Harvested not sold					
	Acres		Tons					Dollars	1,000 Dollars	
Apricots										
1992			600	100		500		620	310	
1993			250	10		240		525	126	
1994			400	20		380		511	194	
1995 ^{2/}										
1996			300	10		290		859	249	
1997			130			130		492	64	
1998			200	20		180		728	131	
1999 ^{2/}										
Sweet Cherries										
1992	660	4.24	2,800	50		2,750	650	2,100	621	1,709
1993	630	1.98	1,250	50		1,200	650	550	958	1,149
1994	630	3.65	2,300	50		2,250	1,400	850	902	2,030
1995	630	3.17	2,000	100		1,900	1,200	700	866	1,646
1996	630	3.65	2,300	100		2,200	1,300	900	1,130	2,490
1997	600	1.20	720	20		700	420	280	920	644
1998	600	4.67	2,800	100		2,700	800	1,900	687	1,854
1999	600	2.00	1,200	50		1,150	800	350	999	1,149
Pears										
1992	220	5.45	1,200			1,200	1,200		400	480
1993	190	5.79	1,100	100		1,000	1,000		400	400
1994	190	5.26	1,000	100		900	900		360	324
1995	190	4.21	800	50		750	750		460	345
1996	190	6.84	1,300	50	50	1,200	1,200		483	580
1997	180	3.89	700	25	25	650	650		586	381
1998	180	5.00	900	28	2	870	870		307	267
1999	180	1.67	300	3	2	295			458	135

^{1/} Yield is based on total production. ^{2/} No significant commercial production due to frost damage.

Onions

Utah onion growers produced 1.3 million cwt of onions in 1999. This was 19 percent above the previous year's estimate. Growers planted 2,800 acres, up 300 acres from 1998. They harvested 2,700 acres during the year, an increase of 300 acres from 1998. The yield per

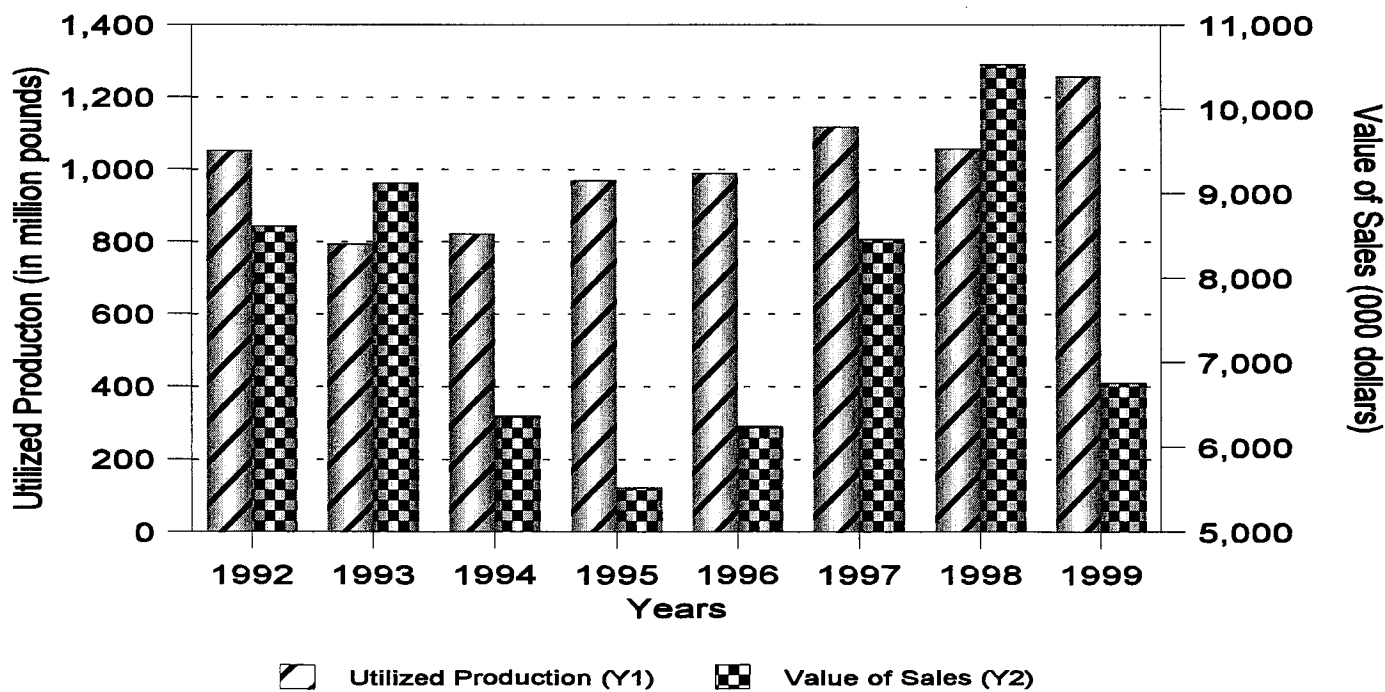
acre was 465 cwt, 25 cwt above the previous year. Farmers received an average of \$6.00 per cwt for their onions, down \$5.00 per cwt from 1998. Total value of the crop was \$6.8 million, down 36 percent from 1998.

Onions: Summer Storage (Fresh Market), Acreage, Yield, Production, and Value, Utah, 1992-99

Year	Acreage		Yield per Acre	Production	Quantity Not Sold ^{1/}	Sales	Value of Sales	
	Planted	Harvested					Per Cwt	Total
	Acres		Cwt	1,000		Dollars	1,000 Dollars	
1992	2,100	2,000	525	1,050	158	892	9.65	8,608
1993	2,100	1,800	440	792	277	515	17.70	9,116
1994	2,200	2,000	410	820	120	700	9.10	6,363
1995	2,300	2,200	440	968	106	862	6.40	5,517
1996	2,200	2,100	470	987	207	780	8.00	6,240
1997	2,400	2,300	485	1,116	160	956	8.84	8,451
1998	2,500	2,400	440	1,056	99	957	11.00	10,527
1999 ^{2/}	2,800	2,700	465	1,256	130	1,126	6.00	6,756

^{1/} Includes shrinkage, waste, and cullage. ^{2/} Preliminary estimates. Estimates subject to revision in the Vegetable Report July 10, 2000.

Utah Onion Production and Value 1992-99



Floriculture

In 1999 there were 87 growers of floriculture in Utah with wholesale values of sales of \$10,000 or more. They had 5.4 million square feet of covered growing area. The total wholesale value of all reported crops for growers with more than \$100,000 in sales was \$32.6

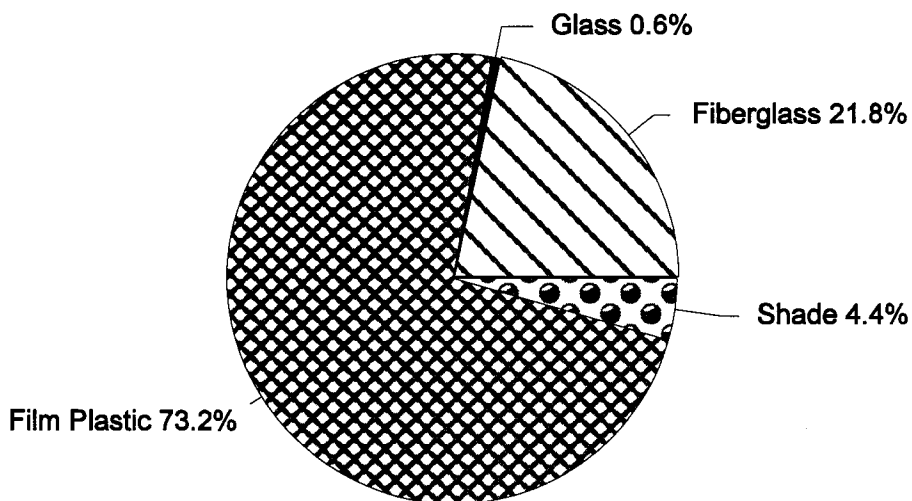
million. Of the \$32.6 million, the value of sales for cut flowers was \$135,000, potted flowering plants \$8.6 million, foliage for indoor or patio use \$1.7 million, and total bedding/garden plants \$22.1 million.

Floriculture Crops: Wholesale Value of Sales, Utah, Selected Types, 1992-99 ^{1/}

Year	Total Cut Flowers	Total Potted Flowering Plants	Total Foliage for Indoor or Patio Use	Total Bedding/Garden Plants	Total Wholesale Value of Reported Crops
1,000 Dollars					
1992	3,641	4,689	1,206	8,547	18,083
1993	3,479	4,963	2,661	9,666	20,769
1994	3,036	7,468	1,707	10,049	22,260
1995	2,811	8,581	2,033	12,780	26,205
1996	1,865	7,326	2,386	12,532	24,146
1997	708	10,121	1,512	13,644	25,985
1998	153	9,641	845	19,054	29,693
1999	135	8,614	1,704	22,106	32,559

^{1/} Based only on reported numbers from growers with \$100,000 or more in sales of floriculture crops.

1999 Utah Nursery Growing Area by Type of Cover (1,000 Square Feet)



Potted Flowers: Quantity Sold Wholesale, Utah, Selected Types, 1993-2000 ^{1/}

Year	Easter Lilies	Poinsettias	New Guinea Impatiens ^{2/}	Other Flowering and Foliar bedding plants	Hardy Garden Chrysanthemums
1,000 Pots					
1993	102	701		^{3/}	246
1994	191	843	18	877	296
1995	169	709	52	676	170
1996	175	467	47	1,368	242
1997	171	851	43	1,444	204
1998	239	930	49	2,198	198
1999	277	634	60	1,967	217
2000 ^{4/}	228	849	58	2,056	244

See footnotes at bottom of page

Bedding Plants (Flats): Quantity Sold Wholesale, Utah, Selected Types, 1993-2000 ^{1/}

Year	Geraniums	Impatiens ^{2/}	Petunias ^{2/}	Other Flowering and Foliar Type Bedding Plants ^{5/}	Vegetable Bedding Plants
1,000 Flats					
1993	19			764	102
1994	77	54	120	559	98
1995	46	76	151	676	130
1996	62	80	163	656	124
1997	58	68	210	592	101
1998	56	80	192	861	158
1999	82	93	211	1,031	147
2000 ^{4/}	63	91	221	959	101

See footnotes at bottom of page

Hanging Baskets: Quantity Sold Wholesale, Utah, Selected Types, 1994-2000 ^{1/2/}

Year	Geraniums	Impatiens	Petunias ^{6/}	New Guinea Impatiens ^{7/}	Other Flowering
1,000 Baskets					
1994	18	11			50
1995	17	10			40
1996	14	8			49
1997	23	8		10	63
1998	33	11	13	10	65
1999	29	10	10	7	108
2000 ^{4/}	20	7	5	7	115

See footnotes at bottom of page

^{1/} Based only on reported numbers from growers with \$100,000 or more in sales of floriculture crops. ^{2/} Estimates began in 1994. ^{3/} Not published to avoid disclosure of individual operations. ^{4/} Intentions for 2000. ^{5/} Other flowering and foliage type bedding plants. Excludes Geraniums, Impatiens, New Guinea Impatiens, Petunias, and Vegetable type bedding plants. ^{6/} Estimates began in 1998. ^{7/} Estimates began in 1996.

Cattle and Calves

Utah cattlemen had a total of 910,000 cattle and calves on farms and ranches January 1, 2000, an increase of 20,000 head from January 1, 1999. Beef cows, at 355,000 head, were up 20,000 head from 1999. Milk cows, at 95,000 head, remained the same as January 1, 1999. Beef cow replacement heifers weighing 500 pounds or more were estimated at 70,000 head, 2,000 less than the January 1, 1999 number. Milk cow replacements totaled 46,000 head compared with 43,000 head in 1999. Other heifers, at 74,000 head, increased 4,000 head from the previous year's level. Steers 500 pounds and over totaled 112,000 head, 8,000 less than January 1, 1999. Bulls, at 23,000 head, increased 1,000 head from the 1999 level. Calves weighing less than 500 pounds were estimated at 135,000 head, 2,000 head more than the January 1, 1999 level.

Utah's 1999 calf crop totaled 390,000 head, up 2.6 percent from the 1998 level.

Cattle and calves on full feed for slaughter totaled 35,000 head January 1, 2000, a decrease of 5,000 head from January 1, 1999.

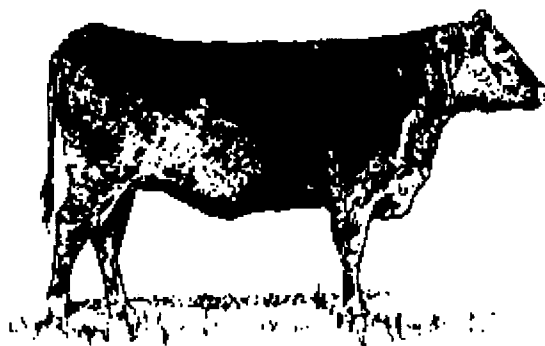
Value per head of all cattle and calves averaged

\$660.00 January 1, 2000 compared with \$590.00 per head on January 1, 1999. Total inventory was valued at \$600.6 million, up 14 percent from 1999.

Utah operations with cattle and calves in 1999 totaled 7,900, a decrease of 100 farms from 1998. The breakdown by size group was as follows: 4,500 operations with 1 to 49 head; 1,200 with 50 to 99 head; 1,800 with 100 to 499 head; 270 with 500 to 999 head; and 130 with 1,000 head or more. Operations with more than 500 head accounted for 42 percent of the Utah cattle inventory as did those with 100 to 499 head.

Beef production during 1999 totaled 390.1 million pounds, up 4.7 percent from the previous year. Marketings during the year totaled 464 million pounds, down 1.7 percent from 1998.

Cash receipts for 1999 totaled \$314.2 million, up 3.2 percent from the previous year. Price of cattle averaged \$66.10 per hundredweight (cwt), up \$3.10 from 1998. The 1999 average slaughter cow price, at \$36.80 per cwt compares with \$34.00 in 1998. The 1999 steer and heifer price at \$68.30 per cwt was \$3.30 above 1998. The average price for calves less than 500 pounds during 1999 was \$86.40 per cwt, up \$5.40 from 1998.

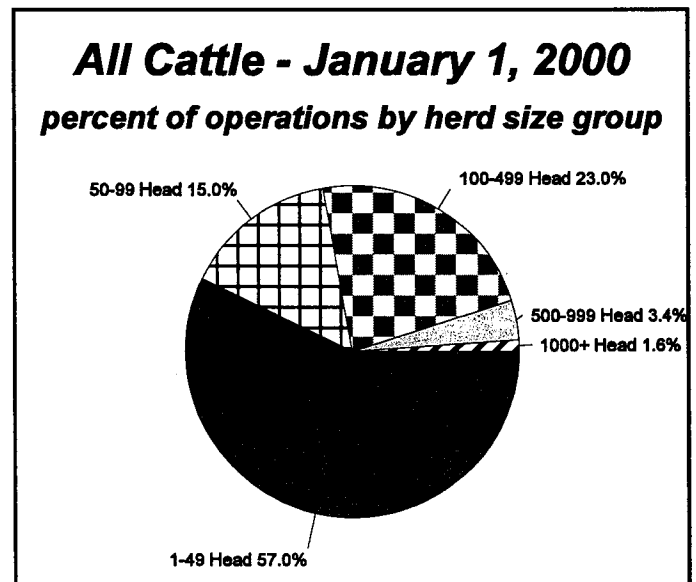
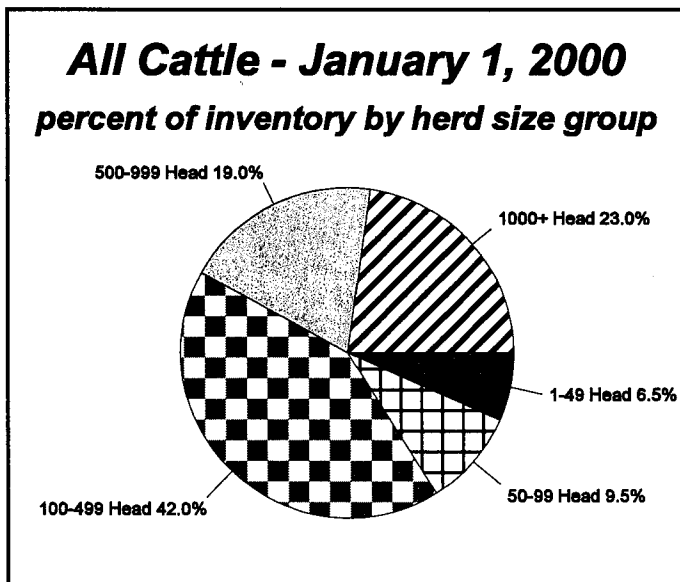


**All Cattle & Calves: Number of Operations & Percent of Total Inventory
by Size Groups, 1994-1999**

Year	1-49 Head		50-99 Head		100-499 Head		500-999 Head		1,000 Head & Over	
	Operations	Inventory	Operations	Inventory	Operations	Inventory	Operations	Inventory	Operations	Inventory
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
1994	4,300	7.0	1,100	9.0	1,900	42.0	270	19.0	130	23.0
1995	4,300	7.3	1,100	8.7	1,900	42.0	270	19.0	130	23.0
1996	4,300	7.4	1,100	8.6	2,000	44.0	280	18.0	120	22.0
1997	4,200	6.7	1,000	7.3	2,200	46.0	260	17.0	140	23.0
1998	4,500	7.5	1,220	9.5	1,900	43.0	250	18.0	130	22.0
1999	4,500	6.5	1,200	9.5	1,800	42.0	270	19.0	130	23.0

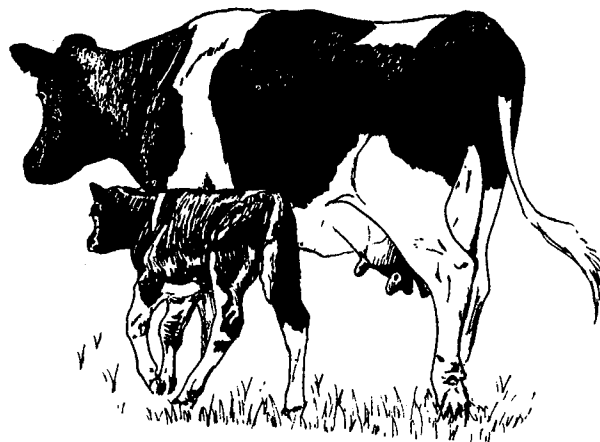
**Beef Cows: Number of Operations & Percent of Total Inventory
by Size Groups, 1994-1999**

Year	1-49 Head		50-99 Head		100-499 Head		500 Head & Over	
	Operations	Inventory	Operations	Inventory	Operations	Inventory	Operations	Inventory
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
1994	3,300	13.0	750	14.0	850	46.0	100	27.0
1995	3,300	13.0	790	13.0	900	46.0	110	28.0
1996	3,700	13.0	840	14.0	940	45.0	120	28.0
1997	3,600	12.0	870	15.0	910	45.0	120	28.0
1998	3,700	15.0	900	17.0	900	45.0	100	23.0
1999	3,700	13.0	900	17.0	910	46.0	90	24.0



Calf Crop: Utah, 1992-2000

Year	Cows That Have Calved January 1	Calf Crop	
		Total	Percent of Cows Calved January 1 ^{1/}
..... 1,000 Head		Percent	
1992	400	370	93
1993	425	355	84
1994	425	380	89
1995	430	390	91
1996	440	395	90
1997	445	390	88
1998	430	380	88
1999	430	390	91
2000	450	--	--



^{1/} Not strictly a calving rate. Figure represents calf crop expressed as percentage of number of cows that have calved on hand January 1 beginning of year.

Cattle and Calves: Balance Sheet, Utah, 1992-99

Year	Inventory Beginning of Year	Calf Crop	Inshipments	Marketings ^{1/}		Farm Slaughter Cattle & Calves ^{2/}	Deaths		Inventory End of Year
				Cattle	Calves		Cattle	Calves	
..... 1,000 Head									
1992	800	370	90	296	68	4	12	30	850
1993	850	355	90	302	84	4	15	30	860
1994	860	380	99	314	87	4	14	30	890
1995	890	390	97	332	91	4	14	26	910
1996	910	395	120	349	96	4	15	31	930
1997	930	390	115	385	98	4	13	25	910
1998	910	380	113	375	95	4	12	27	890
1999	890	390	135	370	90	4	14	27	910

^{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, 1992-99

Year	Production ^{1/}	Marketings ^{2/}	Average Price per 100 Lbs		Value of Production	Cash Receipts ^{3/}	Value of Home Consumption	Gross Income
			Cattle	Calves				
..... 1,000 Pounds .....	..... Dollars .....		..... Dollars .....		..... 1,000 Dollars			
1992	352,920	367,960	71.60	90.40	258,497	268,701	7,446	276,147
1993	354,810	381,930	78.10	98.00	284,028	305,141	7,310	312,451
1994	362,280	397,200	69.00	88.00	256,237	280,845	6,458	287,303
1995	375,125	419,900	61.40	71.10	233,546	261,438	5,747	267,185
1996	380,400	441,840	55.00	58.00	210,401	244,193	5,148	249,341
1997	392,665	482,880	65.00	80.00	260,681	319,899	6,084	325,983
1998	372,580	471,850	63.00	81.00	242,276	304,277	5,897	310,174
1999	390,090	463,950	66.10	86.40	265,492	314,162	6,187	320,349

^{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/} Receipts from marketings and sale of farm slaughter.

Dairy: Farms, Milk Production and Milkfat, Utah, 1992-99

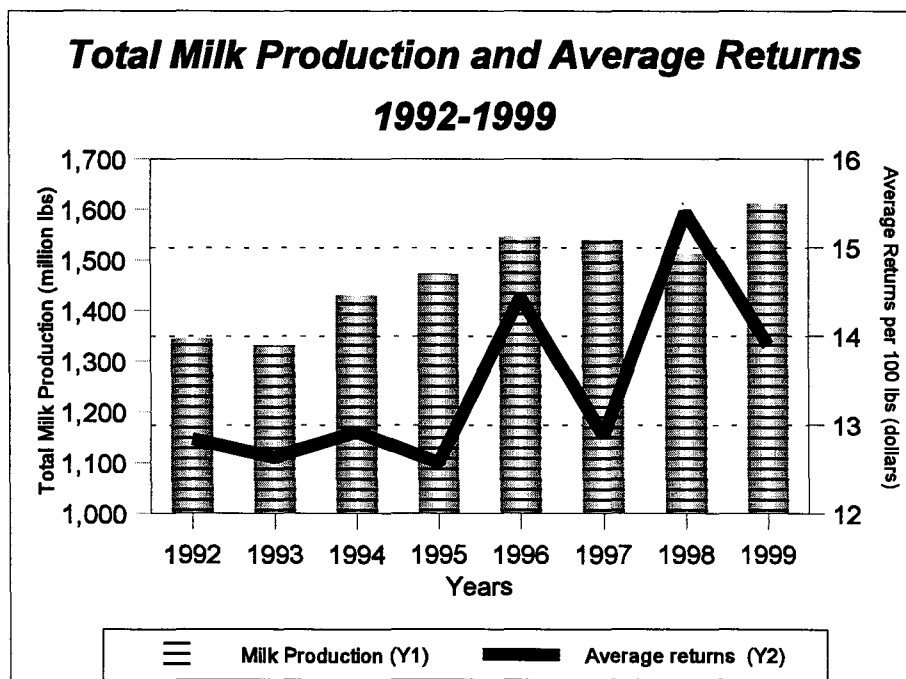
Year	Farms with Milk Cows	Number of Milk Cows on Farms ^{1/}	Production of Milk & Milkfat ^{2/}				
			Milk Per Cow		Total		
			Milk	Milkfat	Percentage Milkfat	Milkfat	Milk
	Number	1,000 Head	..... Pounds .....	.....	Percent	..... Million Pounds	
1992	1,500	82	16,402	592	3.61	48.6	1,345
1993	1,400	81	16,444	592	3.60	48.0	1,332
1994	1,200	86	16,640	601	3.61	51.7	1,431
1995	1,000	88	16,739	604	3.61	53.2	1,473
1996	900	91	17,000	617	3.63	56.2	1,547
1997	900	91	16,923	609	3.60	55.4	1,540
1998	900	90	16,811	609	3.62	54.8	1,513
1999	820	92	17,533	635	3.62	58.4	1,613

^{1/} Average number on farms during year, excluding heifers not yet freshened. ^{2/} Excludes milk sucked by calves.

Milk Disposition: Milk Used and Marketed by Producers, Utah, 1992-99

Year	Milk Used Where Produced			Milk Marketed by Producers	
	Fed to Calves ^{1/}	Used for Milk, Cream, and Butter	Total	Total	Fluid Grade ^{3/}
	Million Pounds				
1992	22	3	25	1,320	85
1993	22	3	25	1,307	88
1994	20	3	23	1,408	90
1995	24	2	26	1,447	90
1996	24	3	27	1,520	91
1997	18	2	20	1,520	91
1998	10	2	12	1,501	91
1999	18	2	20	1,593	92

^{1/} Excludes milk sucked by calves. ^{2/} Milk sold to plants and dealers as whole milk and equivalent amounts of milk for cream. Includes milk produced by dealers' own herds and small amounts sold directly to consumers. Also includes milk produced by institutional herds. ^{3/} Percentage of milk sold that is eligible for fluid use (grade A for fluid use). Includes fluid-grade milk used in manufacturing dairy products.

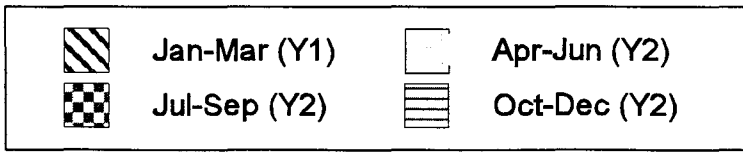
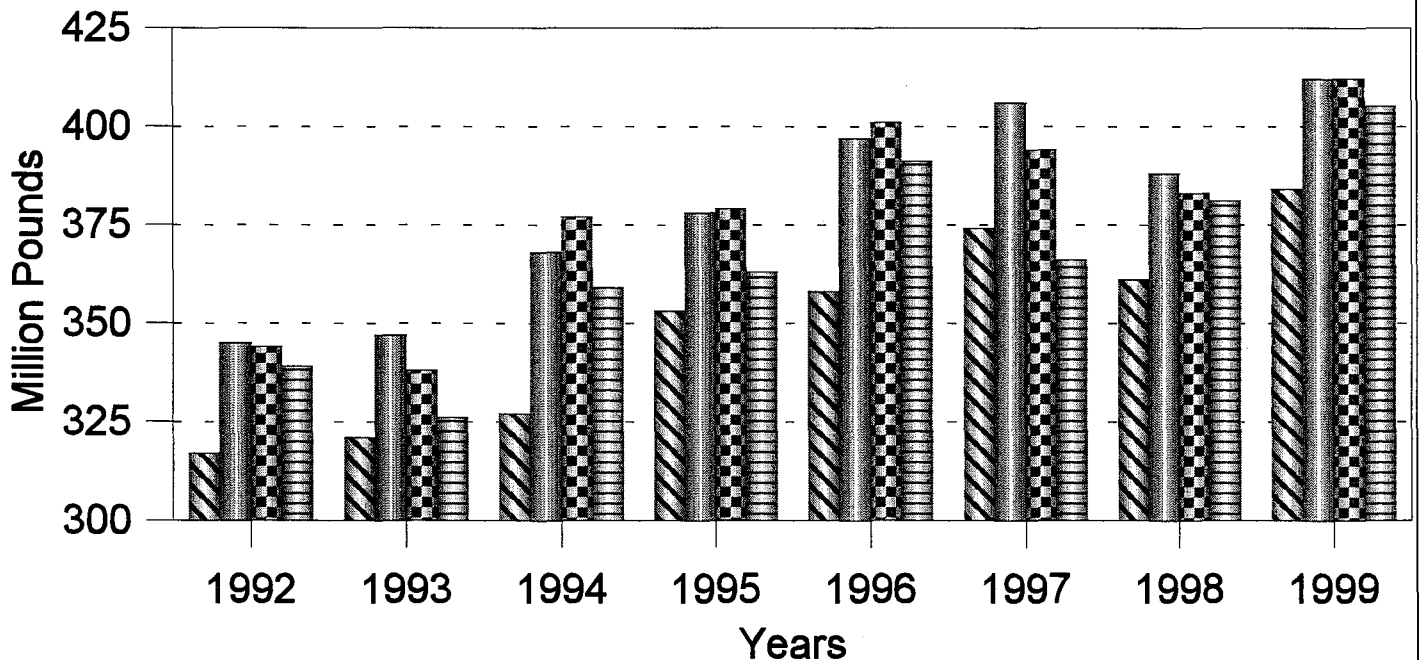


Milk & Cream: Marketings, Used on Farm, Income, and Value, Utah, 1992-99

Year	Combined Marketings of Milk & Cream				Used for Milk, Cream, & Butter by Producers		Gross Producer Income ^{1/}	Value of Milk Produced ^{2/}
	Milk Utilized	Average Returns		Cash Receipts from Marketings	Milk Utilized	Value		
		Per 100 Pounds Milk	Per Pound Milkfat					
	Million Pounds	Dollars		1,000 Dollars	Million Pounds		1,000 Dollars	
1992	1,320	12.84	3.56	169,532	3	385	169,917	172,743
1993	1,307	12.63	3.51	165,065	3	379	165,444	168,222
1994	1,408	12.92	3.58	181,930	3	388	182,318	184,902
1995	1,447	12.57	3.48	181,837	2	251	182,088	185,104
1996	1,520	14.44	3.98	219,476	3	433	219,909	223,375
1997	1,520	12.88	3.58	195,825	2	258	196,083	198,402
1998	1,501	15.40	4.25	231,154	2	308	231,462	233,002
1999	1,593	13.90	3.84	221,427	2	278	221,705	224,207

^{1/} Cash receipts from marketings of milk and cream, plus value of milk used for home consumption. ^{2/} Includes value of milk fed to calves.

**Milk Production by Quarter
1992-99**



Cheese: Production, Utah, 1992-99

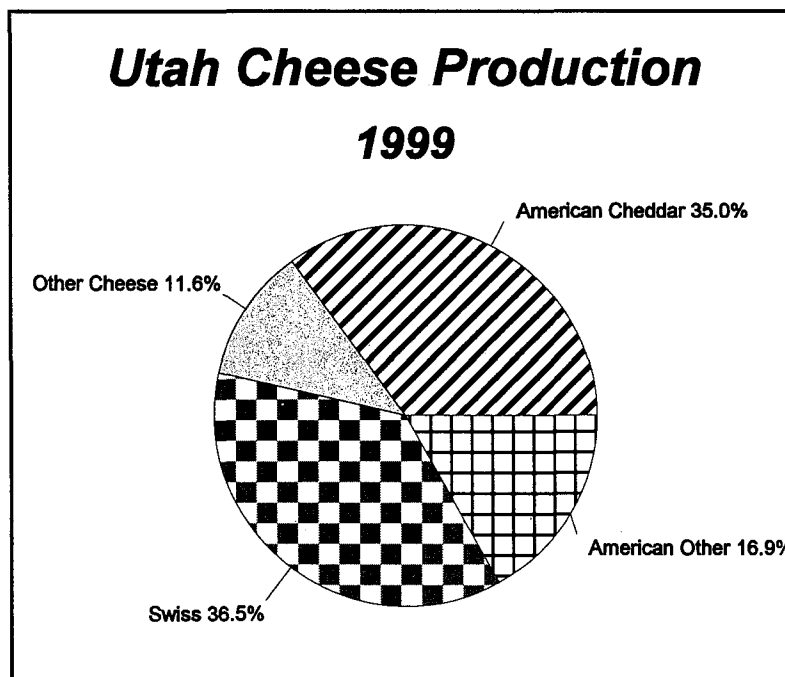
Year	American			Swiss ^{1/}	Total Other Cheese ^{2/}	Total Cheese ^{3/}
	Cheddar	Other	Total			
1,000 Pounds						
1992	38,447	14,281	52,728	24,227	10,500	87,455
1993	24,539	9,858	34,397	27,134	16,822	78,353
1994	32,093	10,429	42,522	26,501	17,144	86,167
1995	28,756	10,174	38,930	29,032	12,931	80,893
1996	24,029	12,625	36,654	35,645	12,403	84,702
1997	18,587	11,092	29,679	23,239	10,613	63,531
1998	18,793	11,259	30,052	24,963	8,267	63,282
1999	26,492	12,747	39,239	27,635	8,754	75,628

^{1/} Data for years with less than 3 plants published by permission of the firms involved. ^{2/} Includes cheese other than American and Swiss. ^{3/} Excludes cottage cheese.

Frozen Products and Dry Whey: Production, Utah, 1992-99

Year	Hard Ice Cream	Sherbet	Dry Whey		
			Human Food	Animal Feed	Total
..... 1,000 Gallons .....			..... 1,000 Pounds		
1992	9,243	598	22,087	2,683	24,770
1993	9,370	479	25,283	1,459	26,742
1994	10,055	490	26,038	1,589	27,627
1995	12,035	638	24,948	2,333	27,281
1996	11,323	751	17,310	1,939	19,249
1997	10,423	1,096	21,471	2,278	23,749
1998	10,869	1,265	19,021	5,982	25,003
1999	11,369	1,408	23,196	3,119	26,315

^{1/} Not published to avoid disclosure of individual operations.



Sheep and Wool

Utah sheep and lamb inventory on January 1, 2000 totaled 400,000 head, the same as 1999. Inventory of breeding sheep and lambs at the beginning of 2000 was 360,000 head, the same as 1999. Ewes one year old and older totaled 310,000 head, up 5,000 head from a year earlier. Rams over one year of age totaled 11,000 head, up 1,000 head from January 1, 1999. Breeding replacement lambs, at 39,000 head, was 6,000 head less than the 1999 inventory. Market sheep and lambs for slaughter totaled 40,000 head. The 1999 lamb crop was estimated at 330,000 head, 20,000 head less than the previous year.

Sheep and lamb operations totaled 1,500 in 1999, the same as 1998. January 1, 2000 sheep and lamb inventory had an average value per head of \$99.00, down \$1.00 from the 1999 level. Utah's sheep inventory value totaled \$39.6 million, fractionally lower than January 1, 1999.

Cash receipts during 1999 totaled \$18.4 million, 5.1 percent lower than the 1998 level. Marketings of sheep and lambs totaled 27.4 million pounds, down 18 percent

from the previous year. The average 1999 sheep price was \$24.70 per hundredweight (cwt), \$2.30 below the 1998 average. Lambs averaged \$73.80 per cwt during 1999 which was \$6.00 above the previous year.

Wool production totaled 3.0 million pounds during 1999, down 4.7 percent from the 1998 production level. Average fleece weight was 9.4 pounds, the same as the 1998 level.

NOTE: Sheep and lamb classifications for the inventory estimates were changed starting January 1, 1995. "Breeding sheep and lambs" replaced the old "stock sheep and lambs" estimates. Replacement lambs now include both ewe and ram lambs. "Market sheep and lambs" has replaced the old "sheep and lambs on feed" estimates. Market lamb estimates are by weight group. Both "breeding sheep and lambs" and "market sheep and lambs" include new crop lambs. New crop lambs are lambs born after September 30 the previous year on hand January 1. Prior to 1995, January estimates excluded the new crop lambs.

Sheep and Lambs: Farms, Inventory, and Value, Utah, January 1, 1993-2000

Year	Operations With Sheep	All Sheep and Lambs on Farms January 1				
		Number ^{1/}	Value		Total Breeding ^{2/}	Total Market ^{3/}
			Per Head	Total		
	Number	1,000 Head	Dollars	1,000 Dollars	..... 1,000	
1993	2,100	490	81.00	39,690	450	40
1994	2,000	480	77.00	36,960	445	35
1995	2,000	470	84.00	39,480	400	70
1996	1,900	460	100.00	46,000	400	60
1997	1,700	440	110.00	48,400	395	45
1998	1,500	420	120.00	50,400	380	40
1999	1,500	400	100.00	40,000	360	40
2000	^{4/}	400	99.00	39,600	360	40

^{1/} All sheep beginning January 1, 1995 includes new crop lambs. Previous published data did not. New crop lambs are lambs born after September 30 the previous year on hand January 1. ^{2/} Breeding sheep and lambs beginning January 1, 1995. ^{3/} Market sheep and lambs beginning January 1, 1995. ^{4/} Estimate published with January 1, 2001 sheep inventory.

Stock Sheep and Lambs and Lamb Crop: Inventory by Class, Utah, January 1, 1989-93 ^{1/}

Year	Stock Sheep and lambs on Farms January 1					Lamb Crop ^{2/}	
	Total	Lambs		Sheep One Year & Over		Number	As Percent of Ewes One year and Older ^{3/}
		Rams & Wethers	Ewes	Rams & Wethers	Ewes		
..... 1,000 Head							Percent
1989	480	6	57	12	405	430	106
1990	485	7	58	13	407	430	106
1991	480	7	58	12	403	400	99
1992	460	7	53	12	388	400	103
1993	450	7	53	12	378	380	101

^{1/} Beginning January 1, 1994 sheep inventory estimates were changed to breeding sheep and lambs and market sheep and lambs. ^{2/} Lamb crop defined as lambs marked, docked or branded. ^{3/} 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. See table below for estimates.

Breeding Sheep and Lambs and Lamb Crop: Inventory by Class, Utah, January 1, 1994-2000

Year	Breeding Sheep and Lambs				Lamb Crop ^{1/}		
	Total	Sheep 1 yr old and older		Replacement Lambs	Number	As Percent of Ewes One Year and Older ^{2/}	
		Ewes	Rams				
..... 1,000 Head							Percent
1994	445	370	14	61	380	103	
1995	400	345	12	43	395	114	
1996	400	340	11	49	380	112	
1997	395	335	11	49	370	110	
1998	380	320	10	50	350	109	
1999	360	305	10	45	330	94	
2000	360	310	11	39	^{3/}	^{3/}	

^{1/} Lamb crop defined as lambs marked, docked or branded. ^{2/} Not strictly a lambing rate. Percent represents lamb crop expressed as a percent of ewes one year old and older on hand at beginning of year. ^{3/} Estimates published with January 1, 2001 sheep inventory.

Market Sheep and Lambs: Inventory by Weight Group, Utah, January 1, 1995-2000

Year	Market Lambs					Market Sheep	Total Market Sheep and Lambs
	Under 65 Lbs	65-84 Lbs	85-105 Lbs	Over 105 Lbs	Total		
..... 1,000 Head							
1995	1	2	33	22	58	12	70
1996	2	5	17	26	50	10	60
1997	1	4	19	13	37	8	45
1998	1	2	14	15	32	8	40
1999	1	3	10	19	33	7	40
2000	3	2	10	20	35	5	40

Sheep & Lambs: Balance Sheet, Utah, 1992-99

Year	Inventory Beginning of Year ^{1/}	Lamb Crop	Inshipments	Marketings ^{2/}		Farm Slaughter ^{3/}	Deaths		Inventory End of Year ^{1/}
				Sheep	Lambs		Sheep	Lambs	
1,000 Head									
1992	488	400	11	42	297	5	26	39	490
1993	490	380	10	39	298	6	25	32	480
1994	480	380	10	71	273	6	18	32	470
1995	470	395	12	37	330	6	16	28	460
1996	460	380	12	38	320	6	20	28	440
1997	440	370	9	50	305	5	16	23	420
1998	420	350	9	51	286	5	16	21	400
1999	400	330	9	24	266	5	18	26	400

^{1/} Starting in 1994, beginning and end of year inventories includes new crop lambs. ^{2/} Includes custom slaughter for use on farms where produced, and State outshipments, but excludes interfarm sales within the State. ^{3/} Excludes custom slaughter for farmers at commercial establishments.

Sheep & Lambs: Production, Marketings & Income, Utah, 1992-99

Year	Production ^{1/}	Marketings ^{2/}	Price per 100 Pounds		Value of Production	Cash Receipts ^{3/}	Value of Home Consumption	Gross Income	
			Sheep	Lambs					
..... 1,000 Pounds Dollars 1,000 Dollars									
1992	32,300	32,610	24.30	51.80	15,307	15,159	466	15,625	
1993	32,384	32,400	21.50	60.40	17,471	17,294	606	17,900	
1994	32,268	34,950	23.60	64.10	18,072	18,090	644	18,734	
1995	32,808	34,980	21.00	77.00	23,017	23,827	764	24,591	
1996	31,840	34,320	23.90	85.90	24,646	25,947	750	26,697	
1997	31,955	34,770	32.70	87.20	25,165	26,232	667	26,899	
1998	30,445	33,210	27.00	67.80	18,538	19,395	521	19,916	
1999	27,545	27,360	24.70	73.80	18,337	18,424	561	18,985	

^{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.

Wool: Production and Value, Utah, 1992-99

Year	Sheep & Lambs Shorn ^{1/}	Weight per Fleece	Shorn Wool Production	Average Price per Pound	Value ^{2/}				
1,000 Head Pounds 1,000 Pounds Dollars 1,000 Dollars									
1992	440	9.9	4,377	0.78	3,414				
1993	405	9.7	3,930	0.57	2,240				
1994	384	10.0	3,843	0.70	2,690				
1995	364	9.6	3,500	1.01	3,535				
1996	358	9.2	3,300	0.65	2,145				
1997	344	9.3	3,213	0.75	2,410				
1998	337	9.4	3,157	0.62	1,957				
1999	320	9.4	3,010	0.32	963				

^{1/} Includes shearing at commercial feeding yards. ^{2/} Production multiplied by annual average price.

Sheep and Lamb Losses by Cause

Utah farmers and ranchers lost 65,500 sheep and lambs to all causes in 1999. This was valued at \$4.02 million.

Lambs lost before docking totaled 21,500, **lambs lost after docking** totaled 26,000, and sheep one year old and older lost totaled 18,000. The largest single cause of death in lambs from predators before docking was from coyotes taking 5,300. This accounted for 25 percent of all lambs lost before docking. Coyotes also accounted for the largest number of lambs lost after docking at 12,000, a 46 percent of the after docking loss.

Sheep one year old and older losses to coyotes, at 3,800, was the single largest cause, accounting for 21 percent. Total losses to coyotes equaled 21,100 which was 32 percent of all losses to sheep and lambs in the state. Other loss totals are shown.

Cooperation: Data were collected in conjunction with the National Agricultural Statistics Service January 1 Sheep Report. Utah Department of Agriculture and Food provided funding for the "Loss by Cause" portion of the survey. Much appreciation goes out to all the sheep producers who cooperated in the effort to compile these statistics.

Sheep & Lamb: Loss by Cause, 1998-99 1/

Cause of Loss	Lambs				Sheep				Total			
	Number of head		Value in Dollars 2/		Number of head		Value in Dollars 3/		Number of head		Value in Dollars	
	1998 4/	1999	1998 4/	1999	1998 4/	1999	1998 4/	1999	1998 4/	1999	1998 4/	1999
.. Number ..		.. Thousand ..		.. Number ..		.. Thousand ..		.. Number ..		.. Thousand ..		
Predator												
Bear	1,700	1,600	79	73	1,000	1,000	110	103	2,700	2,600	189	176
Bobcat	600	700	28	32	100	100	11	10	700	800	39	42
Coyote	17,200	17,300	800	790	4,500	3,800	495	391	21,700	21,100	1,295	1,181
Dog	900	1,800	42	82	1,200	500	132	51	2,100	2,300	174	134
Mtn. Lion	4,400	3,400	205	155	1,800	1,200	198	123	6,200	4,600	403	279
Fox	900	800	42	37	0	0	0	0	900	800	42	37
Ravens	0	100	0	5	0	0	0	0	0	100	0	5
Eagle	1,100	800	51	37	0	0	0	0	1,100	800	51	37
Other animals	300	200	14	9	100	0	11	0	400	200	25	9
Total Predator	27,100	26,700	1,260	1,219	8,700	6,600	957	679	35,800	33,300	2,217	1,898
Non-Predator												
Digestive Problems 5/	0	1,400	0	64	0	800	0	82	0	2,200	0	146
Respiratory Problems 5/	0	2,500	0	114	0	600	0	62	0	3,100	0	176
Metabolic Problems 5/	0	400	0	18	0	300	0	31	0	700	0	49
Other Diseases	3,700	800	172	37	1,600	600	176	62	5,300	1,400	348	98
Weather conditions	5,900	3,700	274	169	1,000	500	110	51	6,900	4,200	384	220
Lambing (complications)	3,100	2,700	144	123	2,000	1,500	220	154	5,100	4,200	364	278
Old age	0	0	0	0	2,700	2,800	297	288	2,700	2,800	297	288
On back	100	200	5	9	600	500	66	51	700	700	71	61
Poison	1,000	400	47	18	1,300	800	143	82	2,300	1,200	190	101
Thefts	0	200	0	9	200	100	22	10	200	300	22	19
Other causes	1,500	1,300	70	59	900	300	99	31	2,400	1,600	169	90
Total Non-predator	15,300	13,600	711	621	10,300	8,800	1,133	906	25,600	22,400	1,844	1,526
Unknown Causes												
Total Unknown Causes	9,000	7,200	419	329	3,000	2,600	330	268	12,000	9,800	749	596
Total Losses												
Total Losses	51,400	47,500	2,390	2,168	22,000	18,000	2,420	1,852	73,400	65,500	4,810	4,020

1/ Totals may not equal parts due to rounding. 2/ Lamb value equal to market year average price received for lambs multiplied by an average weight of 60 pounds per lamb. 3/ Sheep value equal to average of 1998 and 1999 average value per head. 4/ Revised. 5/ Diseases broken down into digestive, respiratory, and metabolic problems and other diseases in 1999.

Sheep & Lamb: Percent of Loss by Cause ^{1/}

Cause of Loss	Lambs				Sheep	
	Before Docking		After Docking		1998 ^{2/}	1999
	1998 ^{2/}	1999	1998 ^{2/}	1999		
Percent						
Predator						
Bear	0.4	0.5	5.5	5.8	4.5	5.6
Bobcat	0.9	0.9	1.4	1.9	0.5	0.6
Coyote	17.9	24.7	45.5	46.2	20.5	21.1
Dog	1.3	2.8	2.1	4.6	5.5	2.8
Mtn. Lion	3.6	2.3	12.4	11.2	8.2	6.7
Fox	1.8	2.8	1.7	0.8	0.0	0.0
Ravens	0.0	0.5	0.0	0.0	0.0	0.0
Eagle	2.7	2.3	1.7	1.2	0.0	0.0
Other animals	0.0	0.5	1.0	0.4	0.5	0.0
Total Predator	28.6	37.2	71.4	71.9	39.5	36.7
Non-Predator						
Digestive Problems ^{3/}	0.0	2.8	0.0	3.1	0.0	4.4
Respiratory Problems ^{3/}	0.0	8.4	0.0	2.7	0.0	3.3
Metabolic Problems ^{3/}	0.0	1.4	0.0	0.4	0.0	1.7
Other Diseases	10.3	1.4	4.8	1.9	7.3	3.3
Weather conditions	23.2	14.9	2.4	1.9	4.5	2.8
Lambing complications	13.8	12.6	0.0	0.0	9.1	8.3
Old age	0.0	0.0	0.0	0.0	12.3	15.6
On back	0.0	0.0	0.3	0.8	2.7	2.8
Poison	0.4	0.0	3.1	1.5	5.9	4.4
Thefts	0.0	0.0	0.0	0.8	0.9	0.6
Other causes	2.7	3.7	3.1	1.9	4.1	1.7
Total Non-predator	50.4	45.1	13.8	15.0	46.8	48.9
Unknown Causes						
Total Unknown Causes	21.0	17.7	14.8	13.1	13.6	14.4
Total Losses						
Total Losses	100.0	100.0	100.0	100.0	100.0	100.0

^{1/} Totals may not equal parts due to rounding. ^{2/} Revised. ^{3/} Diseases broken down into digestive, respiratory and metabolic problems and other diseases in 1999.

Hogs and Pigs

The Utah hog and pig inventory on December 1, 1999 was 520,000 head, 37 percent above the December 1, 1998 level. This is a new record high hogs and pigs inventory for Utah. The old record was 380,000 set in 1998.

The total pig crop for the year was 836,000 head, 27 percent above 1998. A total of 97,000 sows farrowed during 1999, up 28 percent from 1998. The number of farms with one or more hogs or pigs in 1999 totaled 500, the same as 1998.

The December 1, 1999 average value per head of Utah's hogs and pigs was \$78.00, up sharply from the \$48.00 of 1998. The total inventory value was \$40.6 million, up 122 percent from a year earlier.

Cash receipts during the December 1, 1998 through November 30, 1999 period totaled \$54.1 million, up 9.4 percent from 1998. Marketings during 1999 were at 153.4 million pounds, 25 percent above the previous year. Hog prices averaged \$35.30 per cwt, down \$4.90 from the 1998 average price.

Hogs and Pigs: Farms, Inventory and Value, Utah, 1992-99

Year	Farms with Hogs	Hogs and Pigs on Farms December 1		
		Number	Value	
			Per Head	Total
	Number	1,000 Head	Dollars	1,000 Dollars
1992	900	44	80.00	3,520
1993	800	40	82.00	3,280
1994	800	44	58.00	2,552
1995	700	62	76.00	4,712
1996	600	163	99.00	16,137
1997	500	295	88.00	25,960
1998	500	380	48.00	18,240
1999	500	520	78.00	40,560

Hogs and Pigs: Inventory by Class and Weight Group, Utah, December 1, 1992-99

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							
1992	44	6	38	14	9	9	6
1993	40	5	35	12	9	8	6
1994	44	14	30	11	8	6	5
1995	62	19	43	13	11	11	8
1996	163	33	130	52	32	32	14
1997	295	55	240	102	42	38	58
1998	380	60	320	130	60	60	70
1999	520	70	450	180	85	75	110

Hogs and Pigs: Balance Sheet, Utah, 1992-99

Year	Inventory Beginning of Year ^{1/}	Annual Pig Crop	Inshipments	Marketings ^{2/}	Farm Slaughter ^{3/}	Deaths	Inventory End of Year ^{1/}
1,000 Head							
1992	38	61	6	56	1	4	44
1993	44	59	5	63	1	4	40
1994	40	58	13	61	1	5	44
1995	44	82	15	74	1	4	62
1996	62	234	4	124	1	12	163
1997	163	436	2	272	1	33	295
1998	295	657	2	514	1	59	380
1999	380	836	16	640	1	71	520

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

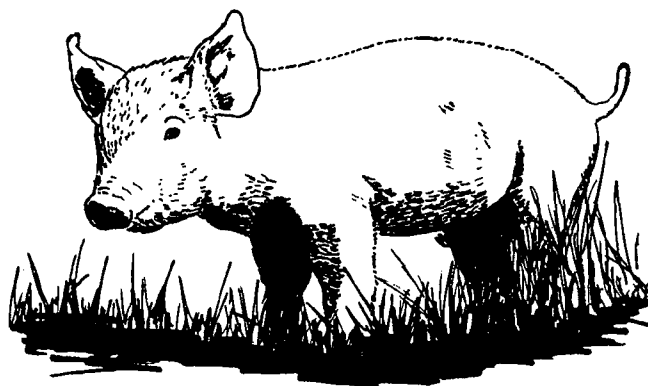
Hogs and Pigs: Production and Income, Utah, 1992-99

Year	Production ^{1/}	Marketings ^{2/}	Price per 100 Lbs	Value of Production	Cash Receipts ^{3/}	Value of Home Consumption	Gross Income
.....	1,000 Pounds		Dollars	..... 1,000 Dollars			
1992	13,949	13,200	33.60	4,663	4,435	161	4,596
1993	14,855	14,880	38.00	5,645	5,654	182	5,836
1994	16,065	14,400	33.00	5,103	4,752	158	4,910
1995	19,405	16,570	33.80	6,347	5,629	162	5,791
1996	41,510	29,520	54.00	22,430	15,941	259	16,200
1997	84,510	65,040	58.80	49,676	38,244	282	38,526
1998	133,435	123,120	40.20	53,606	49,494	193	49,687
1999	170,690	153,360	35.30	59,936	54,136	169	54,305

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

Pig Crop: Sows Farrowing and Pigs Saved, Utah, 1992-99

Year	Sows Farrowing	Pigs per Litter	Pigs Saved
.....	1,000 Head		1,000 Head
1992	8.3	7.35	61
1993	9.0	6.56	59
1994	8.0	7.25	58
1995	10.1	8.12	82
1996	28.0	8.36	234
1997	50.5	8.63	436
1998	75.5	8.70	657
1999	97.0	8.62	836



Chickens and Eggs

The value of eggs produced in Utah during 1999 totaled \$19.2 million, 7.2 percent below the 1998 level. Total production, at 521 million eggs, was up 9.0 percent from 1998. The average price of eggs was 44.3 cents per dozen, 7.7 cents below 1998.

The average number of layers during the year was 1.9 million, up 4.9 percent from the 1998 level. Eggs

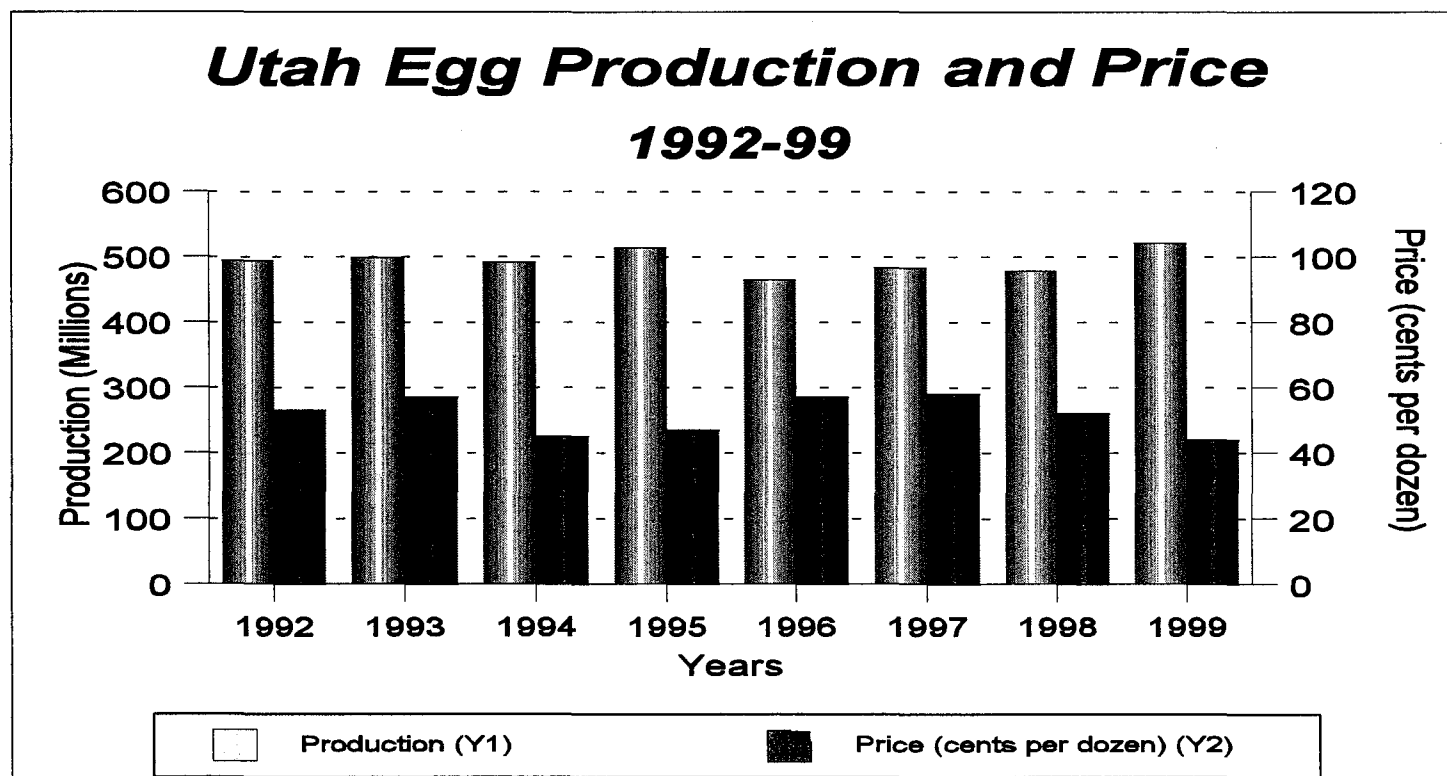
produced per layer was 272 compared with 262 for 1998. Pounds of chicken sold (primarily cull laying hens) at 3.9 million decreased 3.4 percent from 1998.

The average price per pound of chickens sold was 3.3 cents compared with 3.0 cents in 1998. The value of chickens sold in 1999 was \$130,000, up 5.7 percent from 1998.

Layers and Eggs: Number, Production and Value of Production, Utah, 1992-99 ^{1/}

Year	Average Number of Layers	Eggs per Layer ^{2/}	Total Egg Production	Price per Dozen	Value of Production
	1,000 Head	Number	Millions	Dollars	1,000 Dollars
1992	1,964	251	493	0.530	21,774
1993	2,001	249	498	0.570	23,655
1994	1,885	260	491	0.451	18,453
1995	1,950	263	513	0.471	20,135
1996	1,746	266	464	0.566	21,885
1997	1,819	266	483	0.576	23,184
1998	1,824	262	478	0.520	20,713
1999	1,913	272	521	0.443	19,234

^{1/} Estimates cover the 12 month period, December 1 previous year, through November 30. ^{2/} Total egg production divided by average number of layers on hand.



Chicken Inventory: Number and Value, Utah, December 1, 1992-99 1/

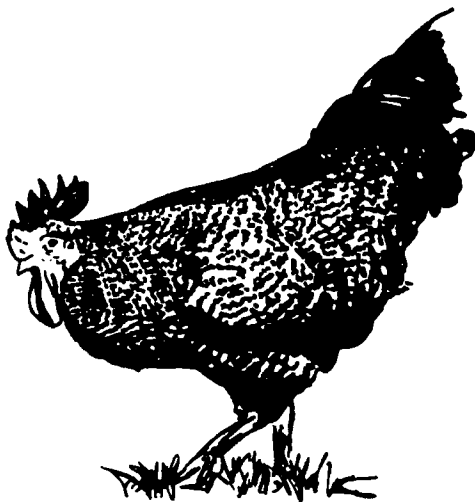
Year	Layers			Pullets not of laying age		Other Chickens	Total Chickens		
	Layers 1 year old and older	Layers 20 weeks old but less than 1 year	Total	Pullets 13 weeks old & older but less than 20 weeks	Pullet Chicks and Pullets under 13 weeks of age		Number	Value	
								Average	Total
			1,000 Head				Dollars	1,000 Dollars	
1992	1,030	928	1,958	147	220	1	2,326	1.70	3,954
1993	990	890	1,880	187	267	1	2,335	1.40	3,269
1994	1,200	800	2,000	195	179	1	2,375	1.50	3,563
1995	920	790	1,710	150	179	1	2,040	1.30	2,652
1996	895	839	1,734	141	168	1	2,044	1.50	3,066
1997	939	759	1,698	244	196	0	2,138	1.60	3,421
1998	1,000	830	1,830	268	98	0	2,196	1.60	3,514
1999	974	1,320	2,294	245	345	0	2,884	1.40	4,038

1/ Excludes commercial broilers.

Chickens: Lost, Sold, and Value of Sales, Utah, 1992-99 1/

Year	Number Lost 2/	Number Sold	Pounds Sold	Price per Pound	Value of Sales
	1,000 Head		1,000 Pounds	Dollars	1,000 Dollars
1992	153	1,200	4,800	0.020	96
1993	168	1,210	4,840	0.030	145
1994	265	1,625	6,500	0.030	195
1995	372	1,298	5,192	0.026	135
1996	327	1,014	4,056	0.030	122
1997	250	1,068	4,272	0.030	128
1998	164	1,021	4,084	0.030	123
1999	177	986	3,944	0.033	130

1/ Estimates exclude broilers and cover the 12 month period December 1 previous year through November 30. 2/ Includes death and other losses during the 12 month period.



Bees and Honey

Honey production in Utah from producers with five or more colonies totaled 1.2 million pounds during 1999, down 33 percent from the 1998 level. The number of colonies at 26,000 was down 4,000 from the previous year. Production per colony, at 45 pounds, was 13 pounds below the level of 1998.

cents, up 3 cents from 1998. The total value of the honey produced in 1999 was \$796,000, a decrease of 30 percent from 1998.

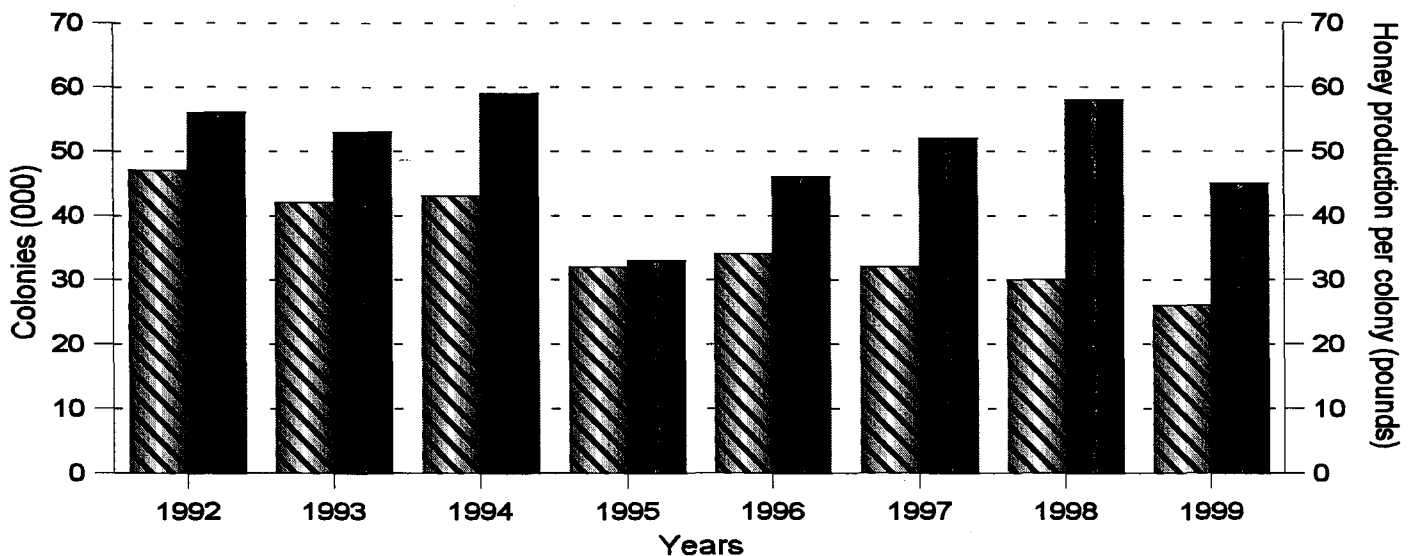
Several Utah apiaries kept their bees in other States during part of the year. Honey produced in other States was counted in that states production and not included in the Utah production.

The price received per pound of honey averaged 68

Honey: Colonies of Bees, Production, & Value, Utah, 1992-99

Year	Honey Producing Colonies	Honey			
		Production		Value of Production	
		Yield per Colony	Total	Average Price per Pound	Total
	1,000	Pounds	1,000 Pounds	Cents	1,000 Dollars
1992	47	56	2,632	58	1,527
1993	42	53	2,226	55	1,224
1994	43	59	2,537	53	1,345
1995	32	33	1,056	65	686
1996	34	46	1,564	85	1,329
1997	32	52	1,664	75	1,248
1998	30	58	1,740	65	1,131
1999	26	45	1,170	68	796

Utah Bee Colonies and Honey Production per Colony, 1992-99



Mink

Mink pelt production in Utah during 1998 totaled 675,000 pelts, an increase of 5,000 pelts from 1997. The number of females bred to produce kits in 1999 was 156,000, down 11 percent from the previous year. Utah ranked second in the nation in mink pelt production in 1998.

and Demi-Buff accounted for 32 percent and 9.2 percent respectively. In 1998 there were 115 mink farms in Utah, 10 farms fewer than 1997.

Leading mink producing counties, Utah and Morgan, produced over 67 percent of all pelts taken. Other leading counties were Cache, Summit, and Salt Lake.

Standard was the most common type of pelt produced, accounting for 46 percent of all pelts taken. Mahogany

Mink: Number of Ranches, Pelts Produced, Females Bred, Average Price & Value, Utah and United States, 1992-99

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
1992	150	651	175	571	2,900.0	782.0	23.80	69.0
1993	140	600	170	523	2,620.3	714.5	34.10	89.3
1994	130	530	165	484	2,623.2	726.2	33.00	86.6
1995	130	570	162	478	2,803.1	727.9	53.10	148.8
1996	130	585	167	449	2,783.2	703.1	35.30	98.2
1997	125	670	185	452	2,993.3	749.7	33.10	99.1
1998	115	675	175	439	2,938.2	733.3	24.80	72.9
1999	<u>1/</u>	<u>1/</u>	156	<u>1/</u>	<u>1/</u>	659.9	<u>1/</u>	<u>1/</u>

1/ Data available July 22, 2000.

Mink: Pelts Produced in 1998 and Females Bred for 1999, by Type, Utah and United States

Type	Pelts Produced 1998		Females Bred To Produce Kits 1999	
	Utah	United States	Utah	United States
	Number			
Standard	312,000	1,193,700	70,400	259,900
Ranch Wild	*	176,100	*	39,700
Demi-Buff <u>1/</u>	62,000	114,000	15,400	26,100
Pastel	*	33,600	*	7,900
Pale Brown	*	600	*	1,200
Sapphire	40,000	140,200	9,800	38,200
Gunmetal	27,000	448,700	8,500	110,900
Mahogany	219,000	727,300	45,700	147,900
Pearl	*	23,200	*	7,400
Lavender Hope		5,500		1,800
Pink		1,900		700
Violet Type	*	25,800	*	5,300
White		43,500		11,500
Miscellaneous		4,100		1,400
Total	675,000	2,938,200	156,000	659,900

* Included in other states in each respective color class to avoid disclosing individual operators. 1/ This color class includes Demi-Buff, Dark Brown, Violet, Pastel, Standard, Pearl crosses, and others.

Trout

Total value of Utah trout sales in 1999 totaled 1.7 million dollars, down 9.3 percent from the previous year. There were 27 trout operations in 1999, an increase of

10 operations from 1998. Trout losses totaled 75,000 fish in 1999, down 79 percent from 1998. Predators accounted for 76 percent of the losses.

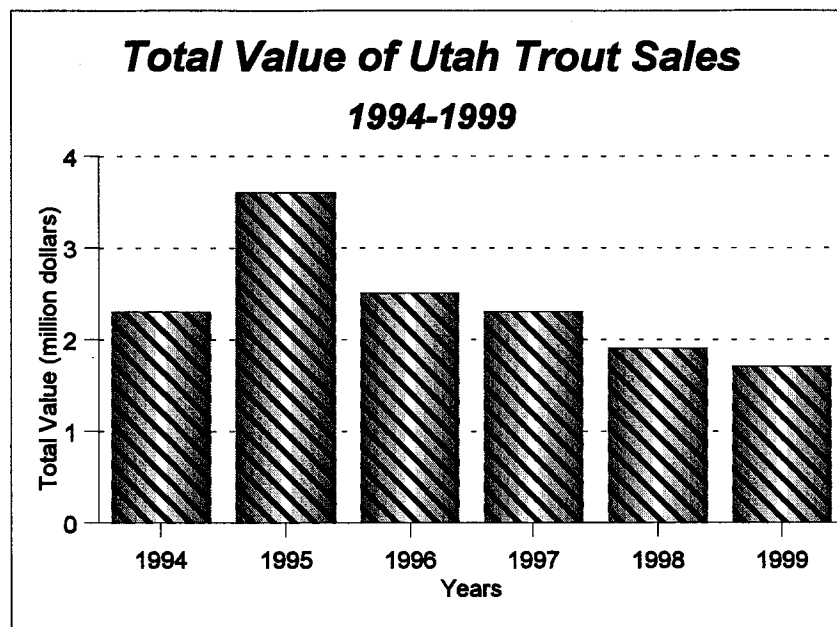
Trout: Number of Operations, Total Value of Fish Sold, and Foodsize Sales, Utah, 1994-1999

Year	Total Number of Operations	Total Value of Fish Sold	Foodsize (12" or longer)			
			Number of Fish	Live Weight	Sales	
					Total	Average per pound
	Number	1,000 Dollars	..... Thousand	1,000 Dollars	Dollars	
1994	12	2,348	1,248	1,261	2,118	1.68
1995	18	3,596	1,586	1,792	3,230	1.80
1996	18	2,489	1,144	1,205	2,077	1.72
1997	17	2,325	556	871	1,816	2.08
1998	17	1,871	420	465	1,353	2.91
1999	15	1,697	740	656	1,220	1.86

Trout: Stocker Sales and Fingerling Sales, Utah, 1994-1999

Year	Stocker (6"-12")				Fingerlings (1"-6")			
	Number of Fish	Live Weight	Sales		Number of Fish	Live Weight	Sales	
			Total	Average per pound			Total	Average per 1,000 Fish/Eggs ^{1/}
	1,000	1,000 Pounds	1,000 Dollars	Dollars	1,000	1,000 Pounds	1,000 Dollars	Dollars
1994	233	135	227	1.68	20	1	3	3.00
1995	285	179	346	1.93	70	4	20	5.00
1996	336	231	402	1.74	31	2	10	5.00
1997	543	279	487	1.75	73	4	22	5.50
1998	490	310	505	1.63	100	5	13	132.00
1999	540	250	450	1.80	115	7	27	235.00

^{1/} Data prior to 1998 was "Average Value per Pound".



Trout Lost, Intended for Sale: Number, Pounds, and Percent by Cause, Utah, 1994-1999

Year	Total		Disease			Theft			Chemicals		
	Number Lost	Pounds Lost	Number Lost	Pounds Lost	% of Total	Number Lost	Pounds Lost	% of Total	Number Lost	Pounds Lost	% of Total

	1,000	1,000	1,000	1,000	Percent	1,000	1,000	Percent	1,000	1,000	Percent
1994	384	119	56	17	15	20	35	5	0	0	0
1995	258	131	0	0	0	16	16	6	67	30	26
1996	336	143	20	1	6	12	11	3	0	0	0
1997	249	97	0	0	0	36	22	14	45	20	18
1998	351	105	32	3	9	3	2	1	50	50	14
1999	75	33	10	2	13	*	*	*	0	0	0

Trout Lost, Intended for Sale: Number, Pounds, and Percent by Cause, Utah, 1994-1999 (continued)

Year	Drought			Flood			Predators			Other		
	Number Lost	Pounds Lost	% of Total	Number Lost	Pounds Lost	% of Total	Number Lost	Pounds Lost	% of Total	Number Lost	Pounds Lost	% of Total

	1,000	1,000	Percent	1,000	1,000	Percent	1,000	1,000	Percent	1,000	1,000	Percent
1994	0	0	0	1	1	0	306	64	80	1	2	0
1995	9	6	3	5	2	2	109	31	42	52	46	20
1996	0	0	0	0	0	0	251	109	75	53	22	16
1997	0	0	0	8	3	3	133	43	53	27	9	11
1998	1	1		1	1		204	47	58	60	1	17
1999	0	0	0	0	0	0	57	22	76	*	*	*

* Included in "Other States" to avoid disclosure of individual operations.

Farm Labor

The Utah Agricultural Statistics Service conducts quarterly agricultural labor surveys in January, April, July, and October. Data concerning hired labor, hours worked, and wage rates for the week (Sunday through Saturday) containing the 12th of the month are combined with Colorado and Nevada to form the Mountain II region.

The number of hired farm workers in the Mountain II region during the July 1999 through April 2000 quarterly survey periods peaked in July 1999 at 31,000 workers, followed by October 1999 with 25,000 workers and April 2000 with 22,000 workers. A low of 19,000 workers was reported in January 2000.

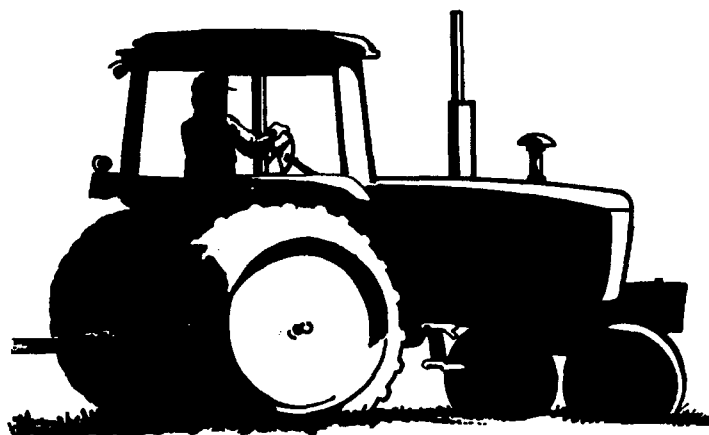
October 1999 was the busiest quarter with hired workers averaging 46.5 hours for the week followed by April 2000 with 44.5 hours and July 1999 with 42.5 hours. January 2000 was the low with the hired labor working 40.9 hours for the week.

The average wage rates were generally higher during the January 2000 survey period where the average rate for all hired workers was \$8.09 per hour. Field workers received their highest wage rates in January 2000 at \$7.46 per hour and their lowest at \$6.47 in July 1999. Livestock workers received their highest wages in April 2000 at \$7.93 per hour and their lowest in October 1999 at \$7.00 per hour.

Farm Labor: Number Hired, Wage Rates, & Hours Worked, Mountain II Region, July 1999, October 1999, January 2000, and April 2000 ^{1/} _{2/}

	July 11-17, 1999	October 10-16, 1999	January 9-15, 2000	April 9-15, 2000
Hired Workers (1,000 Employees)				
Hired workers	31	25	19	22
Expected to be Employed				
150 days or more	23	20	16	18
149 days or less	8	5	3	4
Wage Rates (Dollars per hour)				
Wage rates for all hired workers ^{2/}	7.26	7.23	8.09	7.84
Type of worker				
Field	6.47	6.79	7.46	7.30
Livestock	7.09	7.00	7.60	7.93
Field & Livestock combined	6.73	6.90	7.56	7.51
Hours Worked (per week)				
Hours worked by hired workers	42.5	46.5	40.9	44.5

^{1/} Mountain II Region includes Colorado, Nevada, and Utah. ^{2/} Excludes Agricultural Service workers.



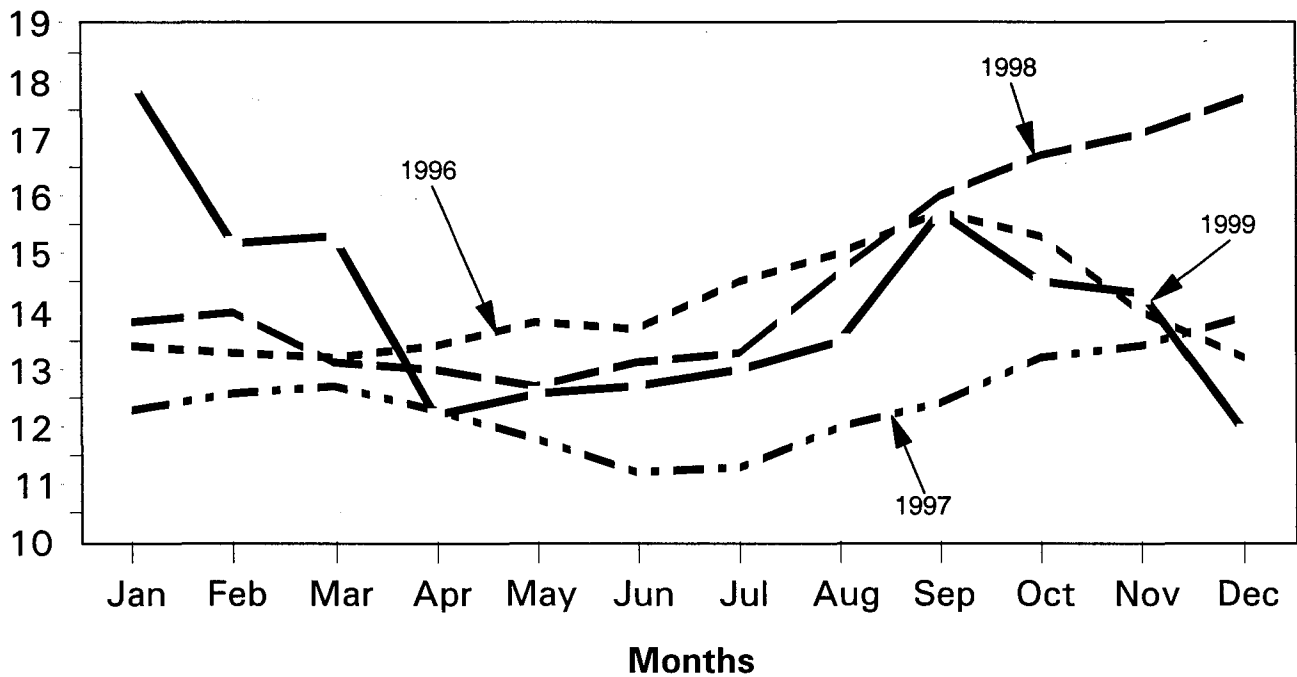
Agricultural Prices - Monthly & Quarterly

Monthly average prices received by farmers for barley, alfalfa hay, all hay, sheep, lambs, and fluid grade, manufacturing grade, and all milk are available for Utah. They are included in the tables that follow. Quarterly prices received for milk cows are also

included. Prices received by farmers for other crops and livestock are available only on a calendar or marketing year average and can be found with the individual commodity tables within this publication.

Fluid Grade Milk Utah, 1996-99

Price (dollars)



Average Prices Received: by Farmers, Utah, 1992-99

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mktg Year Avg ^{1/}
Barley (Dollars per Bushel)													
1992	2.40	2.39	2.39	2.42	2.49	2.48	2.23	2.18	2.19	2.24	2.21	2.26	2.23
1993	2.26	2.25	2.32	2.27	2.26	2.30	2.20	2.11	2.10	2.09	2.23	2.35	2.22
1994	2.43	2.40	2.47	2.38	2.35	2.40	2.32	2.17	2.22	2.22	2.22	2.35	2.32
1995	2.34	2.37	2.41	2.39	2.54	2.76	2.65	2.60	2.74	2.92	3.21	3.22	3.08
1996	3.26	3.32	3.49	3.37	3.84	3.73	3.25	2.98	3.08	3.05	2.96	2.60	2.93
1997	2.63	2.59	2.69	2.74	2.74	2.57	2.36	2.25	2.26	2.33	2.38	2.38	2.29
1998	2.34	2.34	2.29	2.37	2.15	2.14	1.96	1.86	1.76	1.73	1.79	1.83	1.86
1999	1.87	1.93	1.95	1.90	1.83	1.93	1.83	1.85	1.84	1.81	1.87	1.90	^{2/} 1.70
Alfalfa & Alfalfa Hay Mixtures, Baled (Dollars per Ton)													
1992	55.00	53.00	54.00	54.00	55.00	61.00	64.00	64.00	62.00	61.00	61.00	61.00	62.00
1993	60.00	61.00	66.00	67.00	70.00	71.00	62.00	63.00	62.00	63.00	65.00	68.00	65.50
1994	70.00	65.00	67.00	67.00	67.00	77.00	77.00	78.00	81.00	76.00	83.00	87.00	80.00
1995	83.00	85.00	83.00	80.00	75.00	75.00	74.00	69.00	67.00	61.00	63.00	63.00	66.00
1996	61.00	59.00	60.00	57.00	59.00	57.00	73.00	74.00	68.00	67.00	73.00	78.00	72.50
1997	83.00	83.00	84.00	83.00	88.00	85.00	89.00	84.00	84.00	85.00	86.00	85.00	85.00
1998	84.00	80.00	81.00	78.00	77.00	76.00	81.00	81.00	80.00	78.00	79.00	75.00	77.00
1999	75.00	76.00	66.00	64.00	63.00	63.00	67.00	74.00	74.00	74.00	77.00	75.00	^{2/} 71.50
All Hay, Baled (Dollars per Ton)													
1992	54.00	52.00	53.00	53.00	54.00	60.00	62.00	62.00	60.00	60.00	60.00	60.00	61.00
1993	59.00	60.00	65.00	65.00	70.00	71.00	62.00	62.00	62.00	63.00	65.00	67.00	65.00
1994	69.00	64.00	66.00	67.00	67.00	77.00	77.00	77.00	80.00	76.00	82.00	86.00	79.50
1995	82.00	84.00	83.00	80.00	75.00	75.00	74.00	68.00	67.00	61.00	63.00	62.00	66.00
1996	60.00	58.00	59.00	57.00	59.00	57.00	72.00	72.00	68.00	67.00	72.00	77.00	72.00
1997	82.00	82.00	83.00	83.00	88.00	85.00	88.00	83.00	84.00	85.00	86.00	85.00	84.00
1998	83.00	79.00	80.00	78.00	77.00	76.00	81.00	80.00	79.00	77.00	77.00	74.00	76.00
1999	74.00	74.00	65.00	62.00	62.00	63.00	66.00	73.00	73.00	73.00	74.00	73.00	^{2/} 70.50
Sheep (Dollars per Cwt)													
1992	27.80	29.80	32.60	31.30	20.20	19.20	23.60	27.10	21.60	19.60	18.60	26.20	24.30
1993	25.60	25.00	22.00	19.00	20.00	21.00	23.00	23.00	21.00	18.00	21.50	24.50	21.50
1994	24.00	28.00	26.00	23.00	20.00	26.00	26.00	24.00	24.00	19.00	25.00	29.00	23.60
1995	23.00	28.00	24.00	22.00	19.00	21.00	24.00	22.00	21.00	17.00	19.00	22.00	21.00
1996	28.00	26.00	28.00	22.00	19.00	20.00	26.00	24.00	25.00	22.00	26.00	29.00	23.90
1997	35.00	35.00	34.00	34.00	30.00	33.00	37.00	33.00	29.00	30.00	35.00	36.00	32.70
1998	40.00	37.00	37.00	37.00	35.00	29.00	26.00	26.00	20.00	20.00	21.00	25.00	27.00
1999	27.00	27.00	27.00	25.00	25.00	24.00	28.00	22.00	24.00	20.00	25.00	29.00	24.70
Lambs (Dollars per Cwt)													
1992	49.70	49.60	56.60	60.30	50.80	54.40	53.30	44.90	51.00	54.00	49.40	53.70	51.80
1993	59.60	66.00	63.00	56.00	55.00	50.00	50.00	59.00	62.00	59.00	60.50	60.00	60.40
1994	55.00	59.00	56.00	56.00	52.00	59.00	66.00	66.00	65.00	64.00	66.00	67.00	64.10
1995	65.00	73.00	75.00	75.00	80.00	83.00	81.00	83.00	80.00	71.00	73.00	73.00	77.00
1996	75.00	83.00	84.00	93.00	91.00	104.00	90.00	86.00	88.00	82.00	83.00	89.00	85.90
1997	95.00	95.00	103.00	100.00	96.00	88.00	83.00	92.00	86.00	86.00	81.00	83.00	87.20
1998	77.00	76.00	71.00	70.00	70.00	82.00	78.00	78.00	68.00	62.00	59.00	65.00	67.80
1999	69.00	63.00	65.00	73.00	80.00	78.00	76.00	76.00	73.00	70.00	79.00	82.00	73.80

^{1/} Marketing year, barley, July 1 to June 30; hay, May 1 to April 30; sheep and lamb, January 1 to Dec 31. ^{2/} Preliminary, final market year average will be published two months after the end of the marketing year.

Average Prices Received: by Farmers, Utah, 1992-99

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mktg Year Avg
Milk, All (Dollars per Cwt)													
1992	12.60	12.10	11.70	11.70	11.80	12.30	12.50	12.60	12.90	12.60	12.40	11.90	12.30
1993	11.70	11.50	11.30	11.80	12.10	12.30	12.10	11.80	12.10	12.50	13.20	13.10	12.10
1994	13.20	13.00	13.00	13.10	12.20	12.00	11.50	11.80	12.30	12.50	12.60	12.20	12.40
1995	12.00	12.00	12.00	11.70	11.70	11.50	11.50	11.70	12.00	12.80	13.30	13.30	12.10
1996	13.30	13.30	13.10	13.30	13.70	13.60	14.40	14.90	15.60	15.20	14.00	13.00	14.00
1997	12.20	12.60	12.60	12.20	11.60	11.10	11.20	11.90	12.40	13.10	13.40	13.90	12.30
1998	13.80	14.00	13.10	12.90	12.50	13.10	13.30	14.60	15.90	16.70	17.10	17.60	15.40
1999	17.80	15.00	15.10	12.10	12.50	12.60	13.00	13.60	15.60	14.40	14.00	11.80	13.90
Milk, Eligible for Fluid Market (Dollars per Cwt) ^{1/}													
1992	12.90	12.30	11.90	11.80	12.00	12.40	12.60	12.90	13.10	12.80	12.50	12.10	12.40
1993	11.80	11.60	11.40	11.90	12.20	12.40	12.20	11.90	12.20	12.60	13.30	13.10	12.20
1994	13.20	13.10	13.10	13.20	12.40	12.20	11.60	12.00	12.30	12.60	12.60	12.20	12.50
1995	12.00	12.00	12.10	11.80	11.80	11.60	11.60	11.80	12.10	12.90	13.30	13.30	12.20
1996	13.40	13.30	13.20	13.40	13.80	13.70	14.50	15.00	15.70	15.30	14.00	13.20	14.10
1997	12.30	12.60	12.70	12.30	11.80	11.20	11.30	12.00	12.40	13.20	13.40	13.90	12.40
1998	13.80	14.00	13.10	13.00	12.70	13.10	13.30	14.70	16.00	16.70	17.10	17.70	15.50
1999	18.00	15.20	15.30	12.20	12.60	12.70	13.00	13.50	15.70	14.50	14.30	11.90	14.10
Milk, Manufacturing Grade (Dollars per Cwt)													
1992	11.00	10.60	10.60	10.90	11.20	11.70	11.70	11.50	11.70	11.60	11.60	11.10	11.30
1993	11.00	10.80	10.90	11.70	11.90	11.70	11.00	10.90	11.60	12.00	12.80	12.70	11.50
1994	12.30	12.30	12.30	12.20	11.20	10.30	10.50	10.80	11.80	12.10	12.20	11.90	11.70
1995	11.80	11.70	11.50	11.00	10.80	10.80	10.80	11.20	11.70	12.40	13.20	13.10	11.60
1996	12.90	12.90	12.50	12.90	13.00	13.10	13.60	14.30	15.20	14.70	13.20	11.80	13.30
1997	11.80	12.20	12.10	11.40	10.50	10.30	10.50	11.40	12.10	12.70	13.10	13.50	11.70
1998	13.00	13.20	12.40	11.80	10.90	12.40	13.80	14.60	15.20	16.50	17.10	17.30	14.00
1999	15.80	13.10	12.10	11.80	11.30	11.40	12.40	14.80	15.00	12.80	10.60	10.40	12.60

^{1/} Includes surplus diverted to manufacturing.

Average Prices Received: by Farmers, Milk Cows, Utah, 1992-99

Year	Jan	Apr	Jul	Oct	Marketing Year Average
Dollars per Head					
1992	1,070	1,190	1,200	1,140	1,150
1993	1,100	1,130	1,180	1,180	1,150
1994	1,100	1,170	1,220	1,170	1,170
1995	1,100	1,130	1,130	1,070	1,110
1996	1,000	1,040	1,080	1,170	1,070
1997	1,090	1,110	1,120	1,150	1,120
1998	1,050	1,100	1,140	1,160	1,110
1999	1,160	1,200	1,230	1,300	1,220

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 Department of Agriculture and Food and the Utah Agricultural Statistics Service, USDA provides funding in support of county estimates contained in this publication.

During 1999 County estimates back to 1993 were reviewed and possibly revised. We have included 1993-1999 crop production county estimates and January 1, 1993-2000 livestock county estimates in this publication. Cash receipts are revised more frequently and we have only included 1997 and 1998 estimates. County Cash receipts estimates for years prior to 1997 have not been revised.

County estimates may be downloaded in .CSV file format by accessing the NASS homepage at <http://www.usda.gov/nass> and selecting "on line database".

Box Elder was the "Number one" county in **total grain production** (wheat, barley, oats, and corn) followed by Cache, Millard, Utah, and San Juan Counties. These five counties accounted for 69 percent of the 1999 grain production. Box Elder was also "number one" in **acres of small grain** (wheat, barley, oats) followed by Cache, Utah, San Juan, and Millard Counties. These five counties accounted for 40 percent of the 1999 small grain acreage.

Box Elder County was the State's largest producer of **winter wheat** producing 54 percent of the State total. Cache County ranked second followed by San Juan, Utah, and Salt Lake Counties.

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

Weber Counties.

Barley production was led by Cache County followed by Millard, Box Elder, Utah, and Sanpete Counties. The top five counties' production accounted for 72 percent of the State total.

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

Corn for grain production was led by Box Elder followed by Utah, Millard, Davis, and Weber Counties. Box Elder County led in production of **corn silage** followed by Millard, Cache, Utah, and Weber Counties.

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

Box Elder County had the largest inventory of **cattle and calves** as of January 1, 1999 followed by Cache, Millard, Duchesne, and Utah. Cache County continued as the major county for **milk cows** with over twice the number as Millard which ranked in second place. Box Elder, Utah, and Sanpete were also major dairy counties.

Sanpete was once again the "Number one" **sheep** county. Other major sheep producing counties were Box Elder, Iron, Utah, and Summit. The top five counties accounted for 61 percent of the total.

Preliminary indications of 1998 total **cash receipts** show Cache County as the "Number one" county. Utah is second, followed by Box Elder, Sanpete, and Millard. Cache was the leading county for livestock cash receipts followed by Sanpete. Crops cash receipts were topped by Box Elder County followed by Utah County.

County Estimates: by County, Selected Items and Years, Utah 1/

Item	Unit	State	County					
			Beaver	Box Elder	Cache	Carbon	Daggett	Davis
1999 Production								
All Wheat	Bu	8,940,000		4,528,000	1,187,000			316,000
All Barley	Bu	6,806,000	83,000	974,000	1,745,000			86,000
Corn for Grain	Bu	2,860,000		957,000	58,000	24,000		225,000
Corn for Silage	Tons	840,000	19,600	130,300	114,000	7,600		18,500
Oats	Bu	675,000		104,000	55,000	14,000		18,000
All Hay	Tons	2,744,000	127,400	259,100	234,800	19,500	17,300	33,500
Alfalfa & Alfalfa Mix Hay	Tons	2,376,000	119,000	237,000	211,000	17,000	11,000	29,000
January 1, 2000 Inventory								
All Cattle & Calves	Head	910,000	37,000	110,000	70,000	12,000	4,500	8,000
Beef Cows	Head	355,000	12,000	39,000	7,500	6,000	2,000	3,000
Milk Cows	Head	95,000	4,000	10,500	24,500			500
Breeding Sheep & Lambs	Head	360,000		57,500	3,600	5,800	500	2,900
Cash Receipts, 1998								
Livestock & Lvstk Products	Mill \$	736.1	63.3	61.9	93.2	4.8	1.9	9.8
Crops	Mill \$	244.8	5.8	37.3	17.8	1.1	0.6	29.1
Total	Mill \$	980.9	69.1	99.2	111.0	5.9	2.5	38.9
1997 Census of Agriculture								
Number of Farms	Num	14,181	219	1,077	1,232	199	36	559
Land in Farms	Acres	12,024,661	130,994	1,357,734	266,374	201,679	26,485	67,906
Harvested Cropland ^{2/}	Acres	1,107,928	28,209	174,615	119,910	6,060	7,676	17,808
Irrigated Land ^{3/}	Acres	1,212,201	35,177	137,074	93,008	10,588	7,840	21,907

Item	Unit	County						
		Duchesne	Emery	Garfield	Grand	Iron	Juab	Kane
1999 Production								
All Wheat	Bu					28,000	204,000	
All Barley	Bu	103,000				160,000	130,000	
Corn for Grain	Bu	156,000	70,000				14,000	
Corn for Silage	Tons	21,000	15,200			14,500	9,000	
Oats	Bu	47,000	53,000	8,000		19,000	9,000	
All Hay	Tons	188,800	64,000	42,900	11,300	234,900	72,100	11,700
Alfalfa & Alfalfa Mix Hay	Tons	151,000	57,000	37,000	10,000	222,000	65,000	10,000
January 1, 2000 Inventory								
All Cattle & Calves	Head	63,500	27,000	21,000	2,500	24,000	18,000	10,000
Beef Cows	Head	32,000	13,500	11,500	1,500	10,000	8,000	6,000
Milk Cows	Head	3,000	1,000			2,000		
Breeding Sheep & Lambs	Head	10,000	4,400	2,000	2,500	35,400	8,500	1,000
Cash Receipts, 1998								
Livestock & Lvstk Products	Mill \$	30.1	11.8	8.3	6.2	17.8	10.8	4.3
Crops	Mill \$	8.0	3.4	1.8	1.1	12.8	4.0	0.5
Total	Mill \$	38.1	15.2	10.1	7.3	30.6	14.8	4.8
1997 Census of Agriculture								
Number of Farms	Num	811	450	285	85	375	228	143
Land in Farms	Acres	1,328,307	158,798	121,381	75,801	404,574	275,632	175,384
Harvested Cropland ^{2/}	Acres	56,971	20,922	14,565	3,254	53,457	29,998	3,210
Irrigated Land ^{3/}	Acres	114,790	41,198	25,406	4,472	60,400	22,236	7,198

1/ This table is a recap by county of estimates published on pages 84 through 147. 2/ Includes land from which crops were harvested or hay was cut, and land in orchards. 3/ Includes all land watered by any artificial or controlled means, such as sprinklers, furrows or ditches, and spreader dikes.

County Estimates: by County, Selected Items and Years, Utah 1/ (continued)

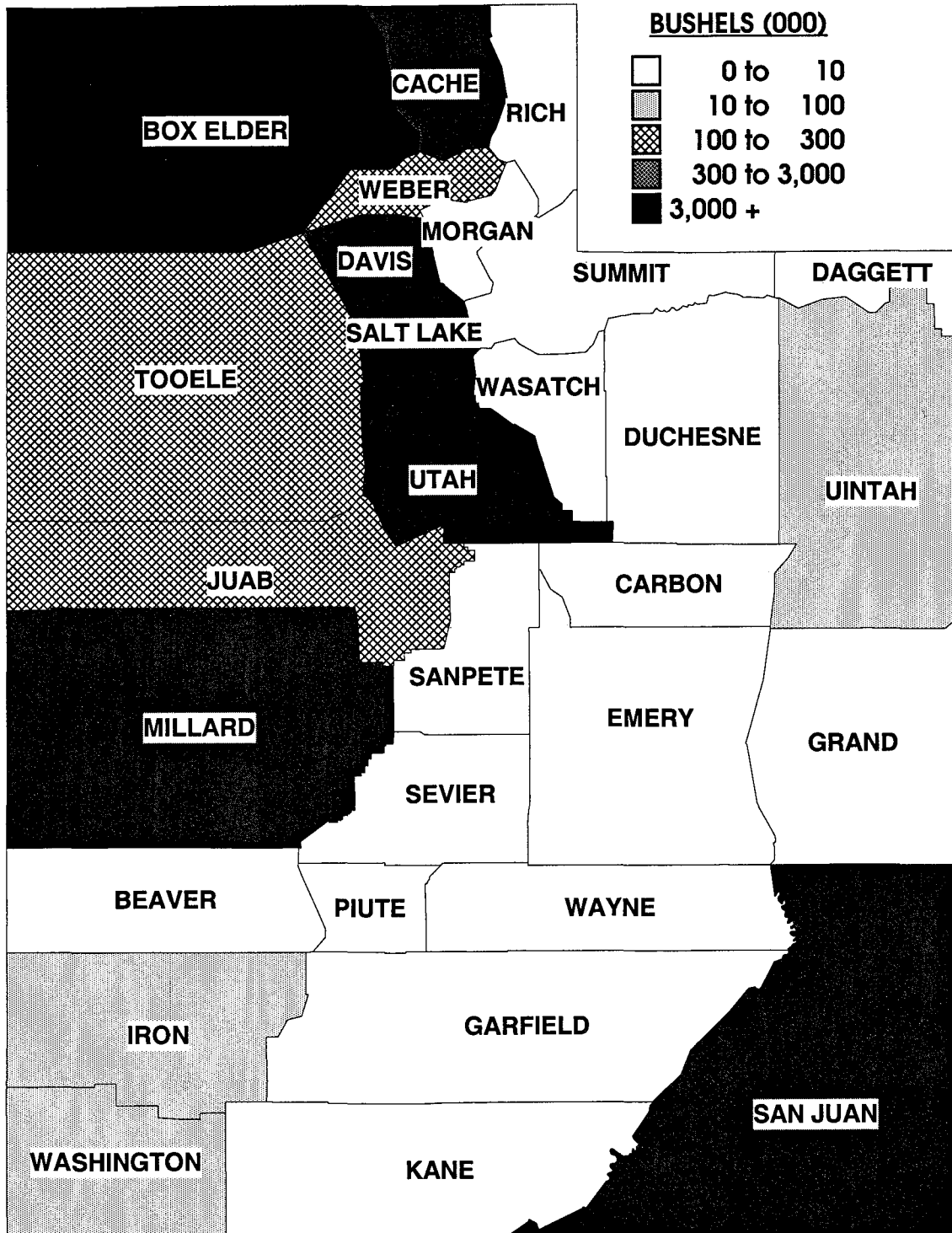
Item	Unit	County							
		Millard	Morgan	Piute	Rich	Salt Lake	San Juan	Sanpete	Sevier
1999 Production									
All Wheat	Bu	399,000				323,000	613,000		
All Barley	Bu	1,074,000	224,000		51,000	156,000		450,000	214,000
Corn for Grain	Bu	325,000				77,000	11,000		94,000
Corn for Silage	Tons	115,000				8,400	7,600	44,000	70,000
Oats	Bu	33,000	20,000	8,000	21,000	20,000	22,000	37,000	24,000
All Hay	Tons	296,300	36,100	32,100	101,000	31,200	23,100	180,000	125,700
Alfalfa & Alfalfa Mix Hay	Tons	283,000	32,000	26,000	32,000	28,000	20,000	151,000	116,000
January 1, 2000 Inventory									
All Cattle & Calves	Head	66,000	11,000	11,000	55,000	8,000	18,000	55,000	43,000
Beef Cows	Head	19,500	4,500	4,500	33,000	3,500	12,000	18,500	11,000
Milk Cows	Head	11,000	1,000	2,000		1,000		7,000	
Breeding Sheep & Lambs	Head	6,900	14,500	4,000	13,500	3,500	2,000	65,500	5,000
Cash Receipts, 1998									
Livestock & Lvst Products	Mill \$	49.9	13.1	9.3	19.7	17.5	9.0	77.3	26.7
Crops	Mill \$	22.2	1.9	1.6	4.4	11.2	7.1	9.2	5.9
Total	Mill \$	72.1	15.0	10.9	24.1	28.7	16.1	86.5	32.6
1997 Census of Agriculture									
Number of Farms	Num	650	243	106	162	593	231	776	478
Land in Farms	Acres	457,823	179,246	44,540	523,744	113,912	1,673,079	359,717	147,032
Harvested Cropland ^{2/}	Acres	94,530	14,696	10,934	52,983	20,319	53,772	60,783	34,169
Irrigated Land ^{3/}	Acres	99,248	8,836	14,257	74,559	14,647	9,078	72,315	43,728

Item	Unit	County							
		Summit	Tooele	Uintah	Utah	Wasatch	Washington	Wayne	Weber
1999 Production									
All Wheat	Bu		166,000	39,000	613,000		13,000		246,000
All Barley	Bu		154,000	103,000	680,000	33,000		114,000	154,000
Corn for Grain	Bu			140,000	513,000				182,000
Corn for Silage	Tons			43,900	108,000				73,500
Oats	Bu		15,000	56,000	31,000	9,000	8,000	9,000	35,000
All Hay	Tons	47,100	55,600	149,400	155,900	29,500	42,700	44,300	76,700
Alfalfa & Alfalfa Mix Hay	Tons	25,000	50,000	132,000	133,000	25,000	38,000	40,000	69,000
January 1, 2000 Inventory									
All Cattle & Calves	Head	26,500	27,000	46,000	63,000	10,000	17,000	20,000	26,000
Beef Cows	Head	14,000	13,500	23,000	21,000	3,000	8,500	8,500	5,000
Milk Cows	Head	1,500		2,000	8,500	1,000		2,000	5,500
Breeding Sheep & Lambs	Head	30,700	6,000	12,500	32,100	16,600		7,000	5,500
Cash Receipts, 1998									
Livestock & Lvst Products	Mill \$	19.6	10.5	25.0	74.6	8.4	9.5	12.5	29.3
Crops	Mill \$	2.0	3.1	6.8	30.5	1.6	4.0	2.1	7.9
Total	Mill \$	21.6	13.6	31.8	105.1	10.0	13.5	14.6	37.2
1997 Census of Agriculture									
Number of Farms	Num	476	332	795	1,790	294	429	191	936
Land in Farms	Acre	589,528	291,746	2,268,090	374,933	106,142	163,135	59,593	81,352
Harvested Cropland ^{2/}	Acre	20,435	16,966	44,954	86,976	9,295	10,321	13,667	26,473
Irrigated Land ^{3/}	Acre	28,429	18,944	83,939	81,168	15,424	16,057	17,627	32,651

1/ This table is a recap by county of estimates published on pages 84 through 147. 2/ Includes land from which crops were harvested or hay was cut, and land in orchards. 3/ Includes all land watered by any artificial or controlled means, such as sprinklers, furrows or ditches, and spreader dikes.

UTAH ALL WHEAT PRODUCTION

By County, 1999



County Estimates: All Wheat, All Cropping Practices, Utah, 1998 (revised) & 1999 1/

District and County	Acres				Harvested Yield		Production		
	Planted		Harvested		1998	1999	1998	1999	
	1998	1999	1998	1999					
				Acres					Bushels
Northern									
Box Elder	74,700	72,500	72,500	71,500	61	63	4,448,000	4,528,000	
Cache	19,200	21,700	18,700	21,300	56	56	1,052,000	1,187,000	
Davis	3,600	3,400	3,600	3,400	88	93	316,000	316,000	
Morgan									
Rich									
Salt Lake	9,300	8,900	9,000	8,800	32	37	288,000	323,000	
Tooele	4,200	4,100	4,200	3,900	39	43	164,000	166,000	
Weber	3,000	3,300	3,000	3,200	76	77	229,000	246,000	
Other Counties	2,500	2,600	2,500	2,500	47	59	118,000	148,000	
Total	116,500	116,500	113,500	114,600	58	60	6,615,000	6,914,000	
Central									
Juab	6,600	6,200	6,300	5,900	45	35	285,000	204,000	
Millard	5,100	5,700	4,900	5,300	74	75	362,000	399,000	
Sanpete									
Sevier									
Utah	18,100	18,500	17,200	16,900	43	36	733,000	613,000	
Other Counties	1,200	1,100	1,100	900	78	63	86,000	57,000	
Total	31,000	31,500	29,500	29,000	50	44	1,466,000	1,273,000	
Eastern									
Carbon									
Daggett									
Duchesne									
Emery									
Grand									
San Juan	28,500	24,400	27,600	23,400	23	26	631,000	613,000	
Summit									
Uintah	800	1,000	800	1,000	43	39	34,000	39,000	
Wasatch									
Other Counties	700	1,100	600	1,000	58	47	35,000	47,000	
Total	30,000	26,500	29,000	25,400	24	28	700,000	699,000	
Southern									
Beaver									
Garfield									
Iron	700	600	500	500	50	56	25,000	28,000	
Kane									
Piute									
Washington	500	500	300	300	53	43	16,000	13,000	
Wayne									
Other Counties	300	400	200	200	60	65	12,000	13,000	
Total	1,500	1,500	1,000	1,000	53	54	53,000	54,000	
State									
Total	179,000	176,000	173,000	170,000	51	53	8,834,000	8,940,000	

1/ Counties with missing data are included in the appropriate district's "Other Counties".

County Estimates: All Wheat, All Cropping Practices, Utah, 1996 & 1997 (final) 1/

District and County	Acres				Harvested Yield		Production		
	Planted		Harvested		1996	1997	1996	1997	
	1996	1997	1996	1997					
				Acres					Bushels
Northern									
Box Elder	81,500	78,400	80,300	76,800	46	57	3,689,000	4,355,000	
Cache	21,500	19,500	20,600	19,100	50	53	1,027,000	1,005,000	
Davis	3,900	3,400	3,700	3,400	82	86	303,000	293,000	
Morgan	2,400	2,700	2,100	2,700	41	34	86,000	92,000	
Rich	800		700		66		46,000		
Salt Lake	10,000	9,400	8,600	9,000	27	34	236,000	305,000	
Tooele	4,000	4,200	3,500	4,100	41	45	144,000	183,000	
Weber	3,400		3,300		75		248,000		
Other Counties		2,900		2,900		73		212,000	
Total	127,500	120,500	122,800	118,000	47	55	5,779,000	6,445,000	
Central									
Juab	6,500	5,800	5,600	5,600	39	47	221,000	263,000	
Millard	6,700	5,600	5,800	5,600	69	69	399,000	388,000	
Sanpete									
Sevier									
Utah	21,100	18,700	20,200	18,400	31	39	620,000	717,000	
Other Counties	1,700	1,400	1,600	1,400	66	67	105,000	94,000	
Total	36,000	31,500	33,200	31,000	41	47	1,345,000	1,462,000	
Eastern									
Carbon									
Daggett									
Duchesne	800		500		70		35,000		
Emery									
Grand									
San Juan	33,300	39,400	25,900	37,400	7	20	183,000	738,000	
Summit									
Uintah	1,100	1,400	800	1,400	34	29	27,000	41,000	
Wasatch									
Other Counties	800	700	500	700	48	37	24,000	26,000	
Total	36,000	41,500	27,700	39,500	10	20	269,000	805,000	
Southern									
Beaver									
Garfield									
Iron	800	600	600	200	48	75	29,000	15,000	
Kane									
Piute									
Washington	800	600	500	200	44	50	22,000	10,000	
Wayne									
Other Counties	900	300	200	100	55	50	11,000	5,000	
Total	2,500	1,500	1,300	500	48	60	62,000	30,000	
State									
Total	202,000	195,000	185,000	189,000	40	46	7,455,000	8,742,000	

1/ Counties with missing data are included in the appropriate district's "Other Counties".

County Estimates: All Wheat, All Cropping Practices, Utah, 1994 & 1995 (final) 1/

District and County	Acres				Harvested Yield		Production	
	Planted		Harvested		1994	1995	1994	1995
	1994	1995	1994	1995				
	..... Acres .....				..... Bushels			
Northern								
Box Elder	77,300	70,000	68,100	68,300	48	55	3,259,000	3,726,000
Cache	21,600	19,500	19,600	18,900	44	58	854,000	1,090,000
Davis	3,400	3,500	3,100	3,300	85	91	264,000	299,000
Morgan	1,100	1,800	900	1,700	51	51	46,000	87,000
Rich	1,700	1,200	1,400	1,100	38	55	53,000	60,000
Salt Lake	13,500	9,900	12,700	9,400	28	35	355,000	329,000
Tooele	2,500	3,700	2,100	3,500	42	48	88,000	169,000
Weber	2,600	2,900	2,300	2,800	85	79	195,000	221,000
Other Counties								
Total	123,700	112,500	110,200	109,000	46	55	5,114,000	5,981,000
Central								
Juab	6,100	6,300	5,200	5,900	39	54	205,000	320,000
Millard	6,200	6,200	5,500	5,800	63	69	347,000	401,000
Sanpete								
Sevier								
Utah	17,800	17,100	16,800	16,300	29	42	485,000	691,000
Other Counties	1,300	1,400	1,100	1,200	64	78	70,000	94,000
Total	31,400	31,000	28,600	29,200	39	52	1,107,000	1,506,000
Eastern								
Carbon								
Daggett								
Duchesne	700	700	500	600	72	78	36,000	47,000
Emery								
Grand								
San Juan	34,100	29,200	29,800	28,500	21	32	616,000	911,000
Summit								
Uintah	1,200	1,200	800	1,100	43	55	34,000	60,000
Wasatch								
Other Counties	900	900	700	500	51	58	36,000	29,000
Total	36,900	32,000	31,800	30,700	23	34	722,000	1,047,000
Southern								
Beaver								
Garfield								
Iron	700	600	500	600	40	53	20,000	32,000
Kane								
Piute								
Washington	600		500		46		23,000	
Wayne								
Other Counties	700	900	400	500	65	38	26,000	19,000
Total	2,000	1,500	1,400	1,100	49	46	69,000	51,000
State								
Total	194,000	177,000	172,000	170,000	41	51	7,012,000	8,585,000

1/ Counties with missing data are included in the appropriate district's "Other Counties".

County Estimates: All Wheat, All Cropping Practices, Utah, 1992 & 1993 (final) 1/

District and County	Acres				Harvested Yield		Production	
	Planted		Harvested		1992	1993	1992	1993
	1992	1993	1992	1993				
	Acres				Bushels			
Northern								
Box Elder	62,300	73,400	60,300	71,600	44	44	2,621,600	3,144,000
Cache	20,400	22,200	18,500	21,200	45	47	839,100	999,000
Davis	3,300	3,200	3,000	2,900	84	87	251,600	252,000
Morgan	700	700	700	700	68	50	47,800	35,000
Rich	1,600	2,100	1,500	2,000	37	36	55,300	72,000
Salt Lake	10,600	13,300	9,400	12,600	28	29	261,200	366,000
Tooele	2,700	2,000	2,300	1,900	45	42	103,600	79,000
Weber	3,400	2,100	3,000	2,000	91	89	273,100	177,000
Total	105,000	119,000	98,700	114,900	45	45	4,453,300	5,124,000
Central								
Juab	4,900	5,700	4,000	5,500	27	41	109,000	225,000
Millard	9,000	6,300	8,000	6,100	53	65	425,900	394,000
Sanpete	1,200		1,100		72		79,600	
Sevier	600		500		72		36,100	
Utah	17,800	16,000	15,800	15,400	33	31	523,200	484,000
Other Counties		1,500		1,400		58		81,000
Total	33,500	29,500	29,400	28,400	40	42	1,173,800	1,184,000
Eastern								
Carbon								
Daggett								
Duchesne	1,200	700	1,000	600	55	55	54,700	33,000
Emery	600		400		65		26,000	
Grand								
San Juan	25,900	33,200	24,400	32,100	25	22	606,100	714,000
Summit								
Uintah	1,100	1,300	900	1,200	36	42	32,600	50,000
Wasatch								
Other Counties	700	800	700	700	52	63	36,300	44,000
Total	29,500	36,000	27,400	34,600	28	24	755,700	841,000
Southern								
Beaver								
Garfield		500		400		73		29,000
Iron	500	700	400	600	62	48	24,900	29,000
Kane								
Piute								
Washington	600	700	400	600	32	42	12,600	25,000
Wayne								
Other Counties	900	600	700	500	51	76	35,700	38,000
Total	2,000	2,500	1,500	2,100	49	58	73,200	121,000
State								
Total	170,000	187,000	157,000	180,000	41	40	6,456,000	7,270,000

1/ Counties with missing data are included in the appropriate district's "Other Counties".

County Estimates: All Wheat, by Cropping Practice, Utah, 1999 1/

District and County	Irrigated				Non-Irrigated			
	Acres		Harvested Yield	Production	Acres		Harvested Yield	Production
	Planted	Harvested			Planted	Harvested		
	Acres		Bushels		Acres		Bushels	
Northern								
Box Elder	29,200	29,100	99	2,884,000	43,300	42,400	39	1,644,000
Cache	7,600	7,500	81	604,000	14,100	13,800	42	583,000
Davis	3,300	3,300	95	313,000	100	100	30	3,000
Morgan								
Rich								
Salt Lake	1,100	1,100	84	92,000	7,800	7,700	30	231,000
Tooele	900	900	79	71,000	3,200	3,000	32	95,000
Weber	2,600	2,600	87	226,000	700	600	33	20,000
Other Counties	1,300	1,300	81	105,000	1,300	1,200	36	43,000
Total	46,000	45,800	94	4,295,000	70,500	68,800	38	2,619,000
Central								
Juab	1,200	1,200	82	98,000	5,000	4,700	23	106,000
Millard	4,300	4,100	89	363,000	1,400	1,200	30	36,000
Sanpete								
Sevier								
Utah	3,200	3,000	86	259,000	15,300	13,900	25	354,000
Other Counties	800	700	76	53,000	300	200	20	4,000
Total	9,500	9,000	86	773,000	22,000	20,000	25	500,000
Eastern								
Carbon								
Daggett								
Duchesne								
Emery								
Grand								
San Juan	300	300	77	23,000	24,100	23,100	26	590,000
Summit								
Uintah	500	500	58	29,000	500	500	20	10,000
Wasatch								
Other Counties	700	600	65	39,000	400	400	20	8,000
Total	1,500	1,400	65	91,000	25,000	24,000	25	608,000
Southern								
Beaver								
Garfield								
Iron	400	400	65	26,000	200	100	20	2,000
Kane								
Piute								
Washington	200	200	60	12,000	300	100	10	1,000
Wayne								
Other Counties	400	200	65	13,000				
Total	1,000	800	64	51,000	500	200	15	3,000
State								
Total	58,000	57,000	91	5,210,000	118,000	113,000	33	3,730,000

1/ Counties with missing data are included in the appropriate district's "Other Counties".

County Estimates: All Wheat, by Cropping Practice, Utah, 1998 (revised) 1/

District and County	Irrigated				Non-Irrigated			
	Acres		Har-vested Yield	Production	Acres		Har-vested Yield	Production
	Planted	Harvested			Planted	Harvested		
	..... Acres .....		..... Bushels .....		..... Acres .....		..... Bushels	
Northern								
Box Elder	30,700	30,700	91	2,782,000	44,000	41,800	40	1,666,000
Cache	8,200	8,200	80	652,000	11,000	10,500	38	400,000
Davis	3,300	3,300	92	305,000	300	300	37	11,000
Morgan								
Rich								
Salt Lake	400	400	85	34,000	8,900	8,600	30	254,000
Tooele	700	700	79	55,000	3,500	3,500	31	109,000
Weber	2,500	2,500	84	210,000	500	500	38	19,000
Other Counties	700	700	79	55,000	1,800	1,800	35	63,000
Total	46,500	46,500	88	4,093,000	70,000	67,000	38	2,522,000
Central								
Juab	1,700	1,700	80	136,000	4,900	4,600	32	149,000
Millard	4,000	4,000	83	333,000	1,100	900	32	29,000
Sanpete								
Sevier								
Utah	4,800	4,800	79	378,000	13,300	12,400	29	355,000
Other Counties	1,100	1,100	78	86,000	100			
Total	11,600	11,600	80	933,000	19,400	17,900	30	533,000
Eastern								
Carbon								
Daggett								
Duchesne								
Emery								
Grand								
San Juan	200	200	60	12,000	28,300	27,400	23	619,000
Summit								
Uintah	300	300	70	21,000	500	500	26	13,000
Wasatch								
Other Counties	500	500	64	32,000	200	100	30	3,000
Total	1,000	1,000	65	65,000	29,000	28,000	23	635,000
Southern								
Beaver								
Garfield								
Iron	400	400	58	23,000	300	100	20	2,000
Kane								
Piute								
Washington ...	300	300	53	16,000	200			
Wayne								
Other Counties	200	200	60	12,000	100			
Total	900	900	57	51,000	600	100	20	2,000
State								
Total								

1/ Counties with missing data are included in the appropriate district's "Other Counties".

County Estimates: All Wheat, by Cropping Practice, Utah, 1997 (final) 1/

District and County	Irrigated				Non-Irrigated			
	Acres		Har-vested Yield	Production	Acres		Har-vested Yield	Production
	Planted	Harvested			Planted	Harvested		
	..... Acres .....		..... Bushels .....		..... Acres .....		..... Bushels	
Northern								
Box Elder	32,100	32,100	87	2,782,000	46,300	44,700	35	1,573,000
Cache	8,500	8,500	77	651,000	11,000	10,600	33	354,000
Davis	3,100	3,100	92	284,000	300	300	30	9,000
Morgan	300	300	60	18,000	2,400	2,400	31	74,000
Rich								
Salt Lake	400	400	85	34,000	9,000	8,600	32	271,000
Tooele	800	800	86	69,000	3,400	3,300	35	114,000
Weber								
Other Counties	2,500	2,500	80	199,000	400	400	33	13,000
Total	47,700	47,700	84	4,037,000	72,800	70,300	34	2,408,000
Central								
Juab	1,800	1,800	74	134,000	4,000	3,800	34	129,000
Millard	4,300	4,300	80	346,000	1,300	1,300	32	42,000
Sanpete								
Sevier								
Utah	4,500	4,500	77	348,000	14,200	13,900	27	369,000
Other Counties .	1,300	1,300	69	90,000	100	100	40	4,000
Total	11,900	11,900	77	918,000	19,600	19,100	28	544,000
Eastern								
Carbon								
Daggett								
Duchesne								
Emery								
Grand								
San Juan	300	300	73	22,000	39,100	37,100	19	716,000
Summit								
Uintah	200	200	50	10,000	1,200	1,200	26	31,000
Wasatch								
Other Counties .	400	400	43	17,000	300	300	30	9,000
Total	900	900	54	49,000	40,600	38,600	20	756,000
Southern								
Beaver								
Garfield								
Iron	200	200	75	15,000	400			
Kane								
Piute								
Washington ...	200	200	50	10,000	400			
Wayne								
Other Counties .	100	100	50	5,000	200			
Total	500	500	60	30,000	1,000			
State								
Total	61,000	61,000	83	5,034,000	134,000	128,000	29	3,708,000

1/ Counties with missing data are included in the appropriate district's "Other Counties".

County Estimates: All Wheat, by Cropping Practice, Utah, 1996 (final) 1/

District and County	Irrigated				Non-Irrigated			
	Acres		Harvested Yield	Production	Acres		Harvested Yield	Production
	Planted	Harvested			Planted	Harvested		
	Acres		Bushels		Acres		Bushels	
Northern								
Box Elder	32,200	32,000	78	2,484,000	49,300	48,300	25	1,205,000
Cache	8,800	8,700	75	655,000	12,700	11,900	31	372,000
Davis	3,400	3,400	86	293,000	500	300	33	10,000
Morgan	500	500	76	38,000	1,900	1,600	30	48,000
Rich	500	500	80	40,000	300	200	30	6,000
Salt Lake	800	800	78	62,000	9,200	7,800	22	174,000
Tooele	1,300	1,300	70	91,000	2,700	2,200	24	53,000
Weber	3,000	3,000	79	238,000	400	300	33	10,000
Total	50,500	50,200	78	3,901,000	77,000	72,600	26	1,878,000
Central								
Juab	2,200	2,200	70	153,000	4,300	3,400	20	68,000
Millard	4,700	4,600	81	373,000	2,000	1,200	22	26,000
Sanpete								
Sevier								
Utah	4,700	4,600	75	346,000	16,400	15,600	18	274,000
Other Counties	1,300	1,300	77	100,000	400	300	17	5,000
Total	12,900	12,700	77	972,000	23,100	20,500	18	373,000
Eastern								
Carbon								
Daggett								
Duchesne	600	500	70	35,000	200			
Emery								
Grand								
San Juan	500	500	30	15,000	32,800	25,400	7	168,000
Summit								
Uintah	300	300	50	15,000	800	500	24	12,000
Wasatch								
Other Counties	600	400	58	23,000	200	100	10	1,000
Total	2,000	1,700	52	88,000	34,000	26,000	7	181,000
Southern								
Beaver								
Garfield								
Iron	500	500	54	27,000	300	100	20	2,000
Kane								
Piute								
Washington	500	400	50	20,000	300	100	20	2,000
Wayne								
Other Counties	600	200	55	11,000	300			
Total	1,600	1,100	53	58,000	900	200	20	4,000
State								
Total	67,000	65,700	76	5,019,000	135,000	119,300	20	2,436,000

1/ Counties with missing data are included in the appropriate district's "Other Counties".

County Estimates: All Wheat, by Cropping Practice, Utah, 1995 (final) 1/

District and County	Irrigated				Non-Irrigated			
	Acres		Har-vested Yield	Production	Acres		Har-vested Yield	Production
	Planted	Harvested			Planted	Harvested		
	Acres		Bushels		Acres		Bushels	
Northern								
Box Elder	24,400	24,300	91	2,206,000	45,600	44,000	35	1,520,000
Cache	7,400	7,100	83	590,000	12,100	11,800	42	500,000
Davis	3,100	3,000	96	288,000	400	300	37	11,000
Morgan	500	500	84	42,000	1,300	1,200	38	45,000
Rich	400	400	88	35,000	800	700	36	25,000
Salt Lake	1,100	1,100	89	98,000	8,800	8,300	28	231,000
Tooele	1,300	1,300	76	99,000	2,400	2,200	32	70,000
Weber	2,300	2,300	87	201,000	600	500	40	20,000
Other Counties								
Total	40,500	40,000	89	3,559,000	72,000	69,000	35	2,422,000
Central								
Juab	2,200	2,200	84	185,000	4,100	3,700	36	135,000
Millard	4,200	4,000	88	352,000	2,000	1,800	27	49,000
Sanpete								
Sevier								
Utah	4,000	3,900	91	354,000	13,100	12,400	27	337,000
Other Counties	1,100	1,000	88	88,000	300	200	30	6,000
Total	11,500	11,100	88	979,000	19,500	18,100	29	527,000
Eastern								
Carbon								
Daggett								
Duchesne	500	500	86	43,000	200	100	40	4,000
Emery								
Grand								
San Juan	500	500	76	38,000	28,700	28,000	31	873,000
Summit								
Uintah	400	400	85	34,000	800	700	37	26,000
Wasatch								
Other Counties	600	300	73	22,000	300	200	35	7,000
Total	2,000	1,700	81	137,000	30,000	29,000	31	910,000
Southern								
Beaver								
Garfield								
Iron	400	400	68	27,000	200	200	25	5,000
Kane								
Piute								
Washington								
Wayne								
Other Counties	600	300	50	15,000	300	200	20	4,000
Total	1,000	700	60	42,000	500	400	23	9,000
State								
Total	55,000	53,500	88	4,717,000	122,000	116,500	33	3,868,000

1/ Counties with missing data are included in the appropriate district's "Other Counties".

County Estimates: All Wheat, by Cropping Practice, Utah, 1994 (final) 1/

District and County	Irrigated				Non-Irrigated			
	Acres		Har-vested Yield	Production	Acres		Har-vested Yield	Production
	Planted	Harvested			Planted	Harvested		
	..... Acres .....	..... Acres .....	..... Bushels .....	..... Bushels .....	..... Acres .....	..... Acres .....	..... Bushels .....	..... Bushels
Northern								
Box Elder	24,700	24,600	88	2,155,000	52,600	43,500	25	1,104,000
Cache	7,800	7,800	76	592,000	13,800	11,800	22	262,000
Davis	3,100	3,000	87	261,000	300	100	30	3,000
Morgan	400	400	83	33,000	700	500	26	13,000
Rich	300	300	83	25,000	1,400	1,100	25	28,000
Salt Lake	1,000	900	81	73,000	12,500	11,800	24	282,000
Tooele	900	800	79	63,000	1,600	1,300	19	25,000
Weber	2,300	2,100	91	191,000	300	200	20	4,000
Other Counties								
Total	40,500	39,900	85	3,393,000	83,200	70,300	24	1,721,000
Central								
Juab	2,300	2,100	60	127,000	3,800	3,100	25	78,000
Millard	4,500	4,300	75	322,000	1,700	1,200	21	25,000
Sanpete								
Sevier								
Utah	3,800	3,800	87	332,000	14,000	13,000	12	153,000
Other Counties	900	900	73	66,000	400	200	20	4,000
Total	11,500	11,100	76	847,000	19,900	17,500	15	260,000
Eastern								
Carbon								
Daggett								
Duchesne	500	500	72	36,000	200			
Emery								
Grand								
San Juan	300	300	67	20,000	33,800	29,500	20	596,000
Summit								
Uintah	400	400	65	26,000	800	400	20	8,000
Wasatch								
Other Counties .	800	600	58	35,000	100	100	10	1,000
Total	2,000	1,800	65	117,000	34,900	30,000	20	605,000
Southern								
Beaver								
Garfield								
Iron	300	200	65	13,000	400	300	23	7,000
Kane								
Piute								
Washington ...	300	300	63	19,000	300	200	20	4,000
Wayne								
Other Counties .	400	400	65	26,000	300			
Total	1,000	900	64	58,000	1,000	500	22	11,000
State								
Total	55,000	53,700	82	4,415,000	139,000	118,300	22	2,597,000

1/ Counties with missing data are included in the appropriate district's "Other Counties".

County Estimates: All Wheat, by Cropping Practice, Utah, 1993 (final) 1

District and County	Irrigated				Non-Irrigated			
	Acres		Har-vested Yield	Production	Acres		Har-vested Yield	Production
	Planted	Harvested			Planted	Harvested		
	Acres		Bushels		Acres		Bushels	
Northern								
Box Elder	21,600	21,500	88	1,892,000	51,800	50,100	25	1,252,000
Cache	7,500	7,500	75	563,000	14,700	13,700	32	436,000
Davis	2,800	2,700	92	248,000	400	200	20	4,000
Morgan	300	300	80	24,000	400	400	28	11,000
Rich	300	300	80	24,000	1,800	1,700	28	48,000
Salt Lake	900	900	86	77,000	12,400	11,700	25	289,000
Tooele	700	700	69	48,000	1,300	1,200	26	31,000
Weber	1,900	1,800	94	170,000	200	200	35	7,000
Other Counties								
Total	36,000	35,700	85	3,046,000	83,000	79,200	26	2,078,000
Central								
Juab	2,300	2,300	68	156,000	3,400	3,200	22	69,000
Millard	4,600	4,500	80	359,000	1,700	1,600	22	35,000
Sanpete								
Sevier								
Utah	3,600	3,500	81	282,000	12,400	11,900	17	202,000
Other Counties	1,000	900	77	69,000	500	500	24	12,000
Total	11,500	11,200	77	866,000	18,000	17,200	18	318,000
Eastern								
Carbon								
Daggett								
Duchesne	500	400	73	29,000	200	200	20	4,000
Emery								
Grand								
San Juan	400	400	70	28,000	32,800	31,700	22	686,000
Summit								
Uintah	400	400	68	27,000	900	800	29	23,000
Wasatch								
Other Counties	700	700	63	44,000	100			
Total	2,000	1,900	67	128,000	34,000	32,700	22	713,000
Southern								
Beaver								
Garfield	400	400	73	29,000	100			
Iron	400	300	73	22,000	300	300	23	7,000
Kane								
Piute								
Washington	200	200	70	14,000	500	400	28	11,000
Wayne								
Other Counties	500	500	76	38,000	100			
Total	1,500	1,400	74	103,000	1,000	700	26	18,000
State								
Total	51,000	50,200	83	4,143,000	136,000	129,800	24	3,127,000

1 Counties with missing data are included in the appropriate district's "Other Counties".

County Estimates: Winter Wheat, All Cropping Practices, Utah, 1998 (revised) & 1999 ^{1/}

District and County	Acres				Harvested Yield		Production	
	Planted		Harvested		1998	1999	1998	1999
	1998	1999	1998	1999				
	Acres				Bushels			
Northern								
Box Elder	66,300	64,600	64,400	63,900	62	64	3,992,000	4,060,000
Cache	15,900	17,800	15,500	17,500	58	58	897,000	1,007,000
Davis	2,700	2,600	2,700	2,600	90	96	242,000	250,000
Morgan								
Rich								
Salt Lake	8,200	7,900	8,000	7,800	32	37	255,000	289,000
Tooele	3,400	3,200	3,400	3,000	39	44	133,000	131,000
Weber	2,000	1,900	2,000	1,800	84	90	167,000	162,000
Other Counties	1,500	1,500	1,500	1,400	37	59	56,000	83,000
Total	100,000	99,500	97,500	98,000	59	61	5,742,000	5,982,000
Central								
Juab	5,600	5,100	5,400	4,800	44	33	235,000	156,000
Millard	3,400	3,900	3,300	3,600	69	73	227,000	263,000
Sanpete								
Sevier								
Utah	15,500	15,400	14,800	14,100	40	33	590,000	472,000
Other Counties	500	600	500	500	78	50	39,000	25,000
Total	25,000	25,000	24,000	23,000	45	40	1,091,000	916,000
Eastern								
Carbon								
Daggett								
Duchesne								
Emery								
Grand								
San Juan	28,500	23,500	27,600	22,600	23	27	631,000	599,000
Summit								
Uintah	200	400	200	400	25	20	5,000	8,000
Wasatch								
Other Counties	300	600	200	500	45	28	9,000	14,000
Total	29,000	24,500	28,000	23,500	23	26	645,000	621,000
Southern								
Beaver								
Garfield								
Iron	400	300	200	200	35	40	7,000	8,000
Kane								
Piute								
Washington	400	400	200	200	50	35	10,000	7,000
Wayne								
Other Counties	200	300	100	100	50	60	5,000	6,000
Total	1,000	1,000	500	500	44	42	22,000	21,000
State								
Total	155,000	150,000	150,000	145,000	50	52	7,500,000	7,540,000

^{1/} Counties with missing data are included in the appropriate district's "Other Counties".

County Estimates: Winter Wheat, All Cropping Practices, Utah, 1996 & 1997 (final) 1/

District and County	Acres				Harvested Yield		Production	
	Planted		Harvested		1996	1997	1996	1997
	1996	1997	1996	1997				
	Acres				Bushels			
Northern								
Box Elder	73,500	68,900	72,700	67,600	45	58	3,267,000	3,945,000
Cache	17,600	16,400	16,800	16,100	50	53	846,000	860,000
Davis	3,100	3,000	2,900	3,000	81	88	235,000	264,000
Morgan	1,700	2,100	1,400	2,100	37	30	52,000	63,000
Rich	500		400		70		28,000	
Salt Lake	9,000	8,500	7,600	8,200	26	34	201,000	275,000
Tooele	3,200	3,400	2,700	3,300	37	46	101,000	152,000
Weber	2,400	2,200	2,400	2,200	77	77	184,000	169,000
Other Counties								
Total	111,000	104,500	106,900	102,500	46	56	4,914,000	5,728,000
Central								
Juab	5,200	4,600	4,400	4,400	36	45	157,000	200,000
Millard	4,600	4,000	3,800	4,000	64	66	245,000	262,000
Sanpete								
Sevier								
Utah	17,300	16,100	16,500	15,800	29	37	476,000	580,000
Other Counties	900	800	900	800	57	73	51,000	58,000
Total	28,000	25,500	25,600	25,000	36	44	929,000	1,100,000
Eastern								
Carbon								
Daggett								
Duchesne	200		100		50		5,000	
Emery								
Grand								
San Juan	33,200	38,200	25,900	36,200	7	20	183,000	707,000
Summit								
Uintah	700	500	500	500	30	32	15,000	16,000
Wasatch								
Other Counties	400	300	300	300	37	30	11,000	9,000
Total	34,500	39,000	26,800	37,000	8	20	214,000	732,000
Southern								
Beaver								
Garfield								
Iron	500	400	300	200	30	75	9,000	15,000
Kane								
Piute								
Washington	500	400	300	200	33	50	10,000	10,000
Wayne								
Other Counties	500	200	100	100	40	50	4,000	5,000
Total	1,500	1,000	700	500	33	60	23,000	30,000
State								
Total	175,000	170,000	160,000	165,000	38	46	6,080,000	7,590,000

1/ Counties with missing data are included in the appropriate district's "Other Counties".

County Estimates: Winter Wheat, All Cropping Practices, Utah, 1994 & 1995 (final) 1/

District and County	Acres				Harvested Yield		Production	
	Planted		Harvested		1994	1995	1994	1995
	1994	1995	1994	1995				
..... Acres .....				..... Bushels				
Northern								
Box Elder	70,600	62,800	61,600	61,300	48	54	2,984,000	3,320,000
Cache	17,500	15,700	15,700	15,200	47	57	734,000	863,000
Davis	2,400	2,400	2,200	2,300	89	89	195,000	205,000
Morgan	700	1,100	500	1,000	56	46	28,000	46,000
Rich	1,400	800	1,200	700	38	49	45,000	34,000
Salt Lake	12,600	8,600	11,900	8,200	28	32	328,000	259,000
Tooele	2,000	2,700	1,700	2,500	38	46	65,000	114,000
Weber	1,800	1,900	1,600	1,900	91	78	145,000	148,000
Other Counties								
Total	109,000	96,000	96,400	93,100	47	54	4,524,000	4,989,000
Central								
Juab	4,800	4,800	4,100	4,500	37	51	151,000	230,000
Millard	4,000	3,800	3,500	3,700	59	60	205,000	221,000
Sanpete								
Sevier								
Utah	15,100	13,900	14,200	13,300	28	38	393,000	504,000
Other Counties	600	500	500	500	64	74	32,000	37,000
Total	24,500	23,000	22,300	22,000	35	45	781,000	992,000
Eastern								
Carbon								
Daggett								
Duchesne	200	200	100	100	50	70	5,000	7,000
Emery								
Grand								
San Juan	33,600	28,900	29,400	28,200	21	32	611,000	899,000
Summit								
Uintah	800	500	500	400	38	55	19,000	22,000
Wasatch								
Other Counties	400	400	400	300	60	57	24,000	17,000
Total	35,000	30,000	30,400	29,000	22	33	659,000	945,000
Southern								
Beaver								
Garfield								
Iron	600	400	400	400	33	38	13,000	15,000
Kane								
Piute								
Washington	500		400		43		17,000	
Wayne								
Other Counties	400	600	100	500	60	38	6,000	19,000
Total	1,500	1,000	900	900	40	38	36,000	34,000
State								
Total	170,000	150,000	150,000	145,000	40	48	6,000,000	6,960,000

1/ Counties with missing data are included in the appropriate district's "Other Counties".

County Estimates: Winter Wheat, All Cropping Practices, Utah, 1992 & 1993 (final) 1/

District and County	Acres				Harvested Yield		Production	
	Planted		Harvested		1992	1993	1992	1993
	1992	1993	1992	1993				
	Acres				Bushels			
Northern								
Box Elder	56,500	66,600	55,000	65,200	44	43	2,414,500	2,820,000
Cache	16,000	16,900	14,500	16,300	45	50	657,100	819,000
Davis	2,100	2,000	2,000	1,900	83	90	165,000	171,000
Morgan	400	200	400	200	77	60	30,700	12,000
Rich	1,300	1,800	1,200	1,700	36	35	43,500	60,000
Salt Lake	9,200	12,100	8,300	11,500	27	29	225,500	329,000
Tooele	2,300	1,500	2,000	1,400	44	38	88,600	53,000
Weber	2,200	1,400	2,000	1,300	97	95	194,600	123,000
Other Counties								
Total	90,000	102,500	85,400	99,500	45	44	3,819,500	4,387,000
Central								
Juab	4,100	4,300	3,200	4,200	27	38	87,000	160,000
Millard	6,100	3,800	5,500	3,700	51	61	281,000	224,000
Sanpete	600		500		79		39,600	
Sevier	400		300		77		23,000	
Utah	15,800	12,800	14,100	12,500	32	31	444,300	384,000
Other Counties		600		600		65		39,000
Total	27,000	21,500	23,600	21,000	37	38	874,900	807,000
Eastern								
Carbon								
Daggett								
Duchesne	400	200	400	200	38	45	15,000	9,000
Emery	400		300		67		20,000	
Grand								
San Juan	25,100	32,500	23,700	31,500	25	22	587,600	700,000
Summit								
Uintah	300	1,000	200	900	52	40	10,400	36,000
Wasatch								
Other Counties	300	300	300	300	72	70	21,600	21,000
Total	26,500	34,000	24,900	32,900	26	23	654,600	766,000
Southern								
Beaver								
Garfield		500		400		73		29,000
Iron	400	600	300	500	61	46	18,400	23,000
Kane								
Piute								
Washington	500	600	300	500	20	36	6,100	18,000
Wayne								
Other Counties	600	300	500	200	53	75	26,500	15,000
Total	1,500	2,000	1,100	1,600	46	53	51,000	85,000
State								
Total	145,000	160,000	135,000	155,000	40	39	5,400,000	6,045,000

1/ Counties with missing data are included in the appropriate district's "Other Counties".

County Estimates: Spring Wheat, All Cropping Practices, Utah, 1998 (revised) & 1999 ^{1/}

District and County	Acres				Harvested Yield		Production	
	Planted		Harvested		1998	1999	1998	1999
	1998	1999	1998	1999				
	..... Acres .....				..... Bushels			
Northern								
Box Elder	8,400	7,900	8,100	7,600	56	62	456,000	468,000
Cache	3,300	3,900	3,200	3,800	48	47	155,000	180,000
Davis	900	800	900	800	82	83	74,000	66,000
Morgan								
Rich								
Salt Lake	1,100	1,000	1,000	1,000	33	34	33,000	34,000
Tooele	800	900	800	900	39	39	31,000	35,000
Weber	1,000	1,400	1,000	1,400	62	60	62,000	84,000
Other Counties	1,000	1,100	1,000	1,100	62	59	62,000	65,000
Total	16,500	17,000	16,000	16,600	55	56	873,000	932,000
Central								
Juab	1,000	1,100	900	1,100	56	44	50,000	48,000
Millard	1,700	1,800	1,600	1,700	84	80	135,000	136,000
Sanpete								
Sevier								
Utah	2,600	3,100	2,400	2,800	60	50	143,000	141,000
Other Counties	700	500	600	400	78	80	47,000	32,000
Total	6,000	6,500	5,500	6,000	68	60	375,000	357,000
Eastern								
Carbon								
Daggett								
Duchesne								
Emery								
Grand								
San Juan		900		800		18		14,000
Summit								
Uintah	600	600	600	600	48	52	29,000	31,000
Wasatch								
Other Counties	400	500	400	500	65	66	26,000	33,000
Total	1,000	2,000	1,000	1,900	55	41	55,000	78,000
Southern								
Beaver								
Garfield								
Iron	300	300	300	300	60	67	18,000	20,000
Kane								
Piute								
Washington	100	100	100	100	60	60	6,000	6,000
Wayne								
Other Counties	100	100	100	100	70	70	7,000	7,000
Total	500	500	500	500	62	66	31,000	33,000
State								
Total	24,000	26,000	23,000	25,000	58	56	1,334,000	1,400,000

^{1/} Counties with missing data are included in the appropriate district's "Other Counties".

County Estimates: Spring Wheat, All Cropping Practices, Utah, 1996 & 1997 (final) 1/

District and County	Acres				Harvested Yield		Production	
	Planted		Harvested		1996	1997	1996	1997
	1996	1997	1996	1997				
	..... Acres .....				..... Bushels			
Northern								
Box Elder	8,000	9,500	7,600	9,200	56	45	422,000	410,000
Cache	3,900	3,100	3,800	3,000	48	48	181,000	145,000
Davis	800	400	800	400	85	73	68,000	29,000
Morgan	700	600	700	600	49	48	34,000	29,000
Rich	300		300		60		18,000	
Salt Lake	1,000	900	1,000	800	35	38	35,000	30,000
Tooele	800	800	800	800	54	39	43,000	31,000
Weber	1,000		900		71		64,000	
Other Counties		700		700		61		43,000
Total	16,500	16,000	15,900	15,500	54	46	865,000	717,000
Central								
Juab	1,300	1,200	1,200	1,200	53	53	64,000	63,000
Millard	2,100	1,600	2,000	1,600	77	79	154,000	126,000
Sanpete								
Sevier								
Utah	3,800	2,600	3,700	2,600	39	53	144,000	137,000
Other Counties	800	600	700	600	77	60	54,000	36,000
Total	8,000	6,000	7,600	6,000	55	60	416,000	362,000
Eastern								
Carbon								
Daggett								
Duchesne	600		400		75		30,000	
Emery								
Grand								
San Juan	100	1,200		1,200		26		31,000
Summit								
Uintah	400	900	300	900	40	28	12,000	25,000
Wasatch								
Other Counties	400	400	200	400	65	43	13,000	17,000
Total	1,500	2,500	900	2,500	61	29	55,000	73,000
Southern								
Beaver								
Garfield								
Iron	300	200	300		67		20,000	
Kane								
Piute								
Washington	300	200	200		60		12,000	
Wayne								
Other Counties	400	100	100		70		7,000	
Total	1,000	500	600		65		39,000	
State								
Total	27,000	25,000	25,000	24,000	55	48	1,375,000	1,152,000

1/ Counties with missing data are included in the appropriate district's "Other Counties".

County Estimates: Spring Wheat, All Cropping Practices, Utah, 1994 & 1995 (final) 1/

District and County	Acres				Harvested Yield		Production	
	Planted		Harvested		1994	1995	1994	1995
	1994	1995	1994	1995				
..... Acres .....				..... Bushels				
Northern								
Box Elder	6,700	7,200	6,500	7,000	42	58	275,000	406,000
Cache	4,100	3,800	3,900	3,700	31	61	120,000	227,000
Davis	1,000	1,100	900	1,000	77	94	69,000	94,000
Morgan	400	700	400	700	45	59	18,000	41,000
Rich	300	400	200	400	40	65	8,000	26,000
Salt Lake	900	1,300	800	1,200	34	58	27,000	70,000
Tooele	500	1,000	400	1,000	58	55	23,000	55,000
Weber	800	1,000	700	900	71	81	50,000	73,000
Total	14,700	16,500	13,800	15,900	43	62	590,000	992,000
Central								
Juab	1,300	1,500	1,100	1,400	49	64	54,000	90,000
Millard	2,200	2,400	2,000	2,100	71	86	142,000	180,000
Sanpete								
Sevier								
Utah	2,700	3,200	2,600	3,000	35	62	92,000	187,000
Other Counties	700	900	600	700	63	81	38,000	57,000
Total	6,900	8,000	6,300	7,200	52	71	326,000	514,000
Eastern								
Carbon								
Daggett								
Duchesne	500	500	400	500	78	80	31,000	40,000
Emery								
Grand								
San Juan	500	300	400	300	13	40	5,000	12,000
Summit								
Uintah	400	700	300	700	50	54	15,000	38,000
Wasatch								
Other Counties	500	500	300	200	40	60	12,000	12,000
Total	1,900	2,000	1,400	1,700	45	60	63,000	102,000
Southern								
Beaver								
Garfield								
Iron	100	200	100	200	70	85	7,000	17,000
Kane								
Piute								
Washington	100		100		60		6,000	
Wayne								
Other Counties	300	300	300		67		20,000	
Total	500	500	500	200	66	85	33,000	17,000
State								
Total	24,000	27,000	22,000	25,000	46	65	1,012,000	1,625,000

1/ Counties with missing data are included in the appropriate district's "Other Counties".

County Estimates: Spring Wheat, All Cropping Practices, Utah, 1992 & 1993 (final) 1/

District and County	Acres				Harvested Yield		Production	
	Planted		Harvested		1992	1993	1992	1993
	1992	1993	1992	1993				
..... Acres .....				..... Bushels				
Northern								
Box Elder	5,800	6,800	5,300	6,400	39	51	207,100	324,000
Cache	4,400	5,300	4,000	4,900	46	37	182,000	180,000
Davis	1,200	1,200	1,000	1,000	87	81	86,600	81,000
Morgan	300	500	300	500	57	46	17,100	23,000
Rich	300	300	300	300	39	40	11,800	12,000
Salt Lake	1,400	1,200	1,100	1,100	33	34	35,700	37,000
Tooele	400	500	300	500	50	52	15,000	26,000
Weber	1,200	700	1,000	700	79	77	78,500	54,000
Total	15,000	16,500	13,300	15,400	48	48	633,800	737,000
Central								
Juab	800	1,400	800	1,300	28	50	22,000	65,000
Millard	2,900	2,500	2,500	2,400	58	71	144,900	170,000
Sanpete	600		600		67		40,000	
Sevier	200		200		66		13,100	
Utah	2,000	3,200	1,700	2,900	46	34	78,900	100,000
Other Counties		900		800		53		42,000
Total	6,500	8,000	5,800	7,400	52	51	298,900	377,000
Eastern								
Carbon								
Daggett								
Duchesne	800	500	600	400	66	60	39,700	24,000
Emery	200		100		60		6,000	
Grand								
San Juan	800	700	700	600	26	23	18,500	14,000
Summit								
Uintah	800	300	700	300	32	47	22,200	14,000
Wasatch								
Other Counties	400	500	400	400	37	58	14,700	23,000
Total	3,000	2,000	2,500	1,700	40	44	101,100	75,000
Southern								
Beaver								
Garfield								
Iron	100	100	100	100	65	60	6,500	6,000
Kane								
Piute								
Washington	100	100	100	100	65	70	6,500	7,000
Wayne								
Other Counties	300	300	200	300	46	77	9,200	23,000
Total	500	500	400	500	56	72	22,200	36,000
State								
Total	25,000	27,000	22,000	25,000	48	49	1,056,000	1,225,000

1/ Counties with missing data are included in the appropriate district's "Other Counties".

County Estimates: Corn, All Cropping Practices, Utah, 1999 1/

District and County	Acres Planted All Purposes	Corn for Grain			Corn for Silage		
		Acres Harvested	Harvested Yield	Production	Acres Harvested	Harvested Yield	Production
	..... Acres .....	..... Bushels .....	..... Bushels .....	..... Bushels .....	..... Acres .....	..... Tons .....	..... Tons
Northern							
Box Elder	12,200	6,200	154	957,000	6,000	22	130,300
Cache	6,500	400	145	58,000	6,100	19	114,000
Davis	2,100	1,500	150	225,000	600	31	18,500
Morgan							
Rich							
Salt Lake	900	500	154	77,000	400	21	8,400
Tooele							
Weber	4,700	1,300	140	182,000	3,400	22	73,500
Other Counties	600	100	140	14,000	500	17	8,300
Total	27,000	10,000	151	1,513,000	17,000	21	353,000
Central							
Juab	500	100	140	14,000	400	23	9,000
Millard	7,500	2,500	130	325,000	5,000	23	115,000
Sanpete	2,000				2,000	22	44,000
Sevier	4,200	700	134	94,000	3,500	20	70,000
Utah	8,800	3,700	139	513,000	5,100	21	108,000
Total	23,000	7,000	135	946,000	16,000	22	346,000
Eastern							
Carbon	700	200	120	24,000	400	19	7,600
Daggett							
Duchesne	2,600	1,200	130	156,000	1,100	19	21,000
Emery	1,600	500	140	70,000	700	22	15,200
Grand							
San Juan	600	100	110	11,000	400	19	7,600
Summit							
Uintah	3,300	1,000	140	140,000	2,200	20	43,900
Wasatch							
Other Counties	200				200	19	3,700
Total	9,000	3,000	134	401,000	5,000	20	99,000
Southern							
Beaver	900				900	22	19,600
Garfield							
Iron	700				700	21	14,500
Kane							
Piute							
Washington ...							
Wayne							
Other Counties	400				400	20	7,900
Total	2,000				2,000	21	42,000
State							
Total	61,000	20,000	143	2,860,000	40,000	21	840,000

1/ Counties with missing data are included in the appropriate district's "Other Counties".

County Estimates: Corn, All Cropping Practices, Utah, 1998 (revised) 1/

District and County	Acres Planted All Purposes	Corn for Grain			Corn for Silage		
		Acres Harvested	Harvested Yield	Production	Acres Harvested	Harvested Yield	Production
	..... Acres .....	..... Bushels .....	..... Bushels .....	..... Bushels .....	..... Acres .....	..... Tons .....	..... Tons
Northern							
Box Elder	12,200	6,500	153	992,000	5,500	23	124,000
Cache	6,000	400	140	56,000	5,400	21	114,000
Davis	3,100	2,500	150	375,000	600	25	15,000
Morgan							
Rich							
Salt Lake	1,000	700	160	112,000	300	23	7,000
Tooele							
Weber	4,100	1,300	140	182,000	2,800	22	61,000
Other Counties	600	100	140	14,000	400	20	8,000
Total	27,000	11,500	151	1,731,000	15,000	22	329,000
Central							
Juab	500	100	150	15,000	400	20	8,000
Millard	7,000	2,200	122	268,000	4,400	22	95,000
Sanpete	2,000	200	130	26,000	1,800	20	36,000
Sevier	3,800	700	134	94,000	3,000	21	64,000
Utah	9,700	4,800	140	672,000	4,900	21	104,000
Total	23,000	8,000	134	1,075,000	14,500	21	307,000
Eastern							
Carbon	700	300	120	36,000	400	15	6,000
Daggett							
Duchesne	2,400	1,600	120	192,000	800	18	14,000
Emery	1,500	800	140	112,000	700	17	12,000
Grand							
San Juan	600	300	110	33,000	300	17	5,000
Summit							
Uintah	3,500	1,400	139	195,000	2,100	19	40,000
Wasatch							
Other Counties	300	100	100	10,000	200	20	4,000
Total	9,000	4,500	128	578,000	4,500	18	81,000
Southern							
Beaver	1,500				1,500	21	31,000
Garfield							
Iron	700				600	20	12,000
Kane							
Piute							
Washington							
Wayne							
Other Counties	800				900	19	17,000
Total	3,000				3,000	20	60,000
State							
Total	62,000	24,000	141	3,384,000	37,000	21	777,000

1/ Counties with missing data are included in the appropriate district's "Other Counties".

County Estimates: Corn, All Cropping Practices, Utah, 1997 (final) 1/

District and County	Acres Planted All Purposes	Corn for Grain			Corn for Silage		
		Acres Harvested	Harvested Yield	Production	Acres Harvested	Harvested Yield	Production
	..... Acres .....	..... Bushels .....			..... Acres .....	..... Tons	
Northern							
Box Elder	12,300	6,200	161	1,001,000	6,000	25	150,000
Cache	6,900	400	145	58,000	6,200	23	145,000
Davis	2,900	1,900	153	290,000	1,000	26	26,000
Morgan							
Rich							
Salt Lake	1,000	500	166	83,000	400	26	10,500
Tooele							
Weber	4,300	900	144	130,000	3,400	25	84,000
Other Counties	600				500	21	10,500
Total	28,000	9,900	158	1,562,000	17,500	24	426,000
Central							
Juab	600	100	150	15,000	500	22	11,000
Millard	5,500	2,000	124	247,000	3,500	23	79,000
Sanpete	1,900				1,900	22	41,000
Sevier	4,200	700	131	92,000	3,500	24	84,000
Utah	8,800	3,700	147	544,000	5,100	24	120,000
Total	21,000	6,500	138	898,000	14,500	23	335,000
Eastern							
Carbon	700	200	120	24,000	500	16	8,000
Daggett							
Duchesne	2,700	1,400	116	163,000	1,200	19	22,500
Emery	2,000	800	151	120,500	1,200	18	21,000
Grand							
San Juan	800	100	110	11,000	500	17	8,500
Summit							
Uintah	3,400	1,000	152	151,500	2,400	21	51,000
Wasatch							
Other Counties	400	100	100	10,000	200	20	4,000
Total	10,000	3,600	133	480,000	6,000	19	115,000
Southern							
Beaver	1,500				1,500	22	33,000
Garfield							
Iron	700				700	24	17,000
Kane							
Piute							
Washington							
Wayne							
Other Counties	800				800	21	17,000
Total	3,000				3,000	22	67,000
State							
Total	62,000	20,000	147	2,940,000	41,000	23	943,000

1/ Counties with missing data are included in the appropriate district's "Other Counties".

1/ Acres harvested for grain and silage may not add to acres planted for all purposes due to abandonment.

County Estimates: Corn, All Cropping Practices, Utah, 1996 (final) 1/

District and County	Acres Planted All Purposes	Corn for Grain			Corn for Silage		
		Acres Harvested	Harvested Yield	Production	Acres Harvested	Harvested Yield	Production
	..... Acres .....	..... Bushels .....	.....	.....	..... Acres .....	..... Tons .....	.....
Northern							
Box Elder	12,000	6,400	146	937,500	5,500	24	132,000
Cache	6,500	400	130	52,000	6,100	21	128,100
Davis	2,900	2,000	147	294,000	900	24	21,600
Morgan							
Rich							
Salt Lake	1,000	500	160	80,000	500	25	12,500
Tooele							
Weber	4,500	1,000	141	141,000	3,500	22	77,000
Other Counties	600				500	20	10,000
Total	27,500	10,300	146	1,504,500	17,000	22	381,200
Central							
Juab	500	100	140	14,000	400	20	8,000
Millard	5,200	2,000	130	260,000	3,200	20	64,000
Sanpete	2,000				1,900	19	36,100
Sevier	5,000	900	127	114,300	4,000	21	84,000
Utah	8,800	3,700	140	518,000	5,000	21	105,000
Total	21,500	6,700	135	906,300	14,500	20	297,100
Eastern							
Carbon	700	300	115	34,500	400	17	6,800
Daggett							
Duchesne	2,800	1,400	118	165,200	1,300	18	23,400
Emery	2,100	300	145	43,500	1,300	16	20,800
Grand							
San Juan	800				500	17	8,500
Summit							
Uintah	3,300	800	130	104,000	2,400	20	48,000
Wasatch							
Other Counties	300				100	20	2,000
Total	10,000	2,800	124	347,200	6,000	18	109,500
Southern							
Beaver	1,400				1,400	22	30,800
Garfield							
Iron	900	100	110	11,000	700	19	13,300
Kane							
Piute							
Washington							
Wayne							
Other Counties	700	100	110	11,000	400	20	8,100
Total	3,000	200	110	22,000	2,500	21	52,200
State							
Total	62,000	20,000	139	2,780,000	40,000	21	840,000

1/ Counties with missing data are included in the appropriate district's "Other Counties".

County Estimates: Corn, All Cropping Practices, Utah, 1995 (final) 1/

District and County	Acres Planted All Purposes	Corn for Grain			Corn for Silage		
		Acres Harvested	Harvested Yield	Production	Acres Harvested	Harvested Yield	Production
	..... Acres .....	..... Bushels .....		..... Acres .....	..... Tons		
Northern							
Box Elder	12,000	6,300	103	649,700	5,700	22	126,000
Cache	7,000	500	90	45,000	6,500	19	123,500
Davis	3,900	2,000	112	224,000	1,700	22	37,400
Morgan							
Rich							
Salt Lake	1,600	600	128	76,800	1,000	25	25,000
Tooele							
Weber	5,400	1,300	109	141,700	4,100	21	86,100
Other Counties	600				600	19	11,100
Total	30,500	10,700	106	1,137,200	19,600	21	409,100
Central							
Juab	500	100	78	7,800	400	18	7,200
Millard	5,000	2,100	109	228,900	2,900	18	52,200
Sanpete	2,100	100	90	9,000	1,900	17	32,300
Sevier	5,500	700	90	63,000	4,700	20	94,000
Utah	10,400	3,800	94	357,200	6,600	22	145,200
Total	23,500	6,800	98	665,900	16,500	20	330,900
Eastern							
Carbon	500				400	16	6,400
Daggett							
Duchesne	2,500	1,300	74	96,200	1,200	18	21,600
Emery	1,600	200	101	20,200	1,400	15	21,000
Grand							
San Juan	700	100	85	8,500	600	16	9,600
Summit							
Uintah	3,500	700	80	56,000	2,400	19	45,600
Wasatch							
Other Counties	200				100	16	1,600
Total	9,000	2,300	79	180,900	6,100	17	105,800
Southern							
Beaver	1,500	100	74	7,400	1,400	20	28,000
Garfield							
Iron	1,000	100	86	8,600	900	19	17,100
Kane							
Piute							
Washington ...							
Wayne							
Other Counties	500				500	18	9,100
Total	3,000	200	80	16,000	2,800	19	54,200
State							
Total	66,000	20,000	100	2,000,000	45,000	20	900,000

1/ Counties with missing data are included in the appropriate district's "Other Counties".

County Estimates: Corn, All Cropping Practices, Utah, 1994 (final) 1/

District and County	Acres Planted All Purposes	Corn for Grain			Corn for Silage		
		Acres Harvested	Harvested Yield	Production	Acres Harvested	Harvested Yield	Production
	Acres	Acres	Bushels		Acres	Tons	
Northern							
Box Elder	12,300	6,500	144	936,000	5,800	25	147,000
Cache	6,800	700	121	84,700	6,000	22	132,000
Davis	4,000	2,200	122	268,400	1,600	25	40,000
Morgan							
Rich							
Salt Lake	1,800	700	152	106,700	700	24	16,800
Tooele							
Weber	5,500	1,500	134	201,000	4,000	24	96,000
Other Counties	600				600	20	11,700
Total	31,000	11,600	138	1,596,800	18,700	24	443,500
Central							
Juab	700	100	97	9,700	600	20	12,000
Millard	5,100	2,700	124	334,800	2,400	20	48,000
Sanpete	2,100	100	114	11,400	2,000	19	38,000
Sevier	5,300	500	107	53,500	4,600	22	101,200
Utah	11,300	4,100	133	545,300	7,200	23	165,600
Total	24,500	7,500	127	954,700	16,800	22	364,800
Eastern							
Carbon							
Daggett							
Duchesne	3,000	1,700	105	178,500	1,300	18	23,400
Emery	1,600	200	137	27,400	1,000	16	16,000
Grand							
San Juan							
Summit							
Uintah	3,100	700	101	70,700	2,100	18	37,800
Wasatch							
Other Counties	800	100	107	10,700	600	17	10,100
Total	8,500	2,700	106	287,300	5,000	17	87,300
Southern							
Beaver	1,200	100	106	10,600	1,100	21	23,100
Garfield							
Iron	1,200	100	106	10,600	900	20	18,000
Kane							
Piute							
Washington							
Wayne							
Other Counties	600				500	19	9,300
Total	3,000	200	106	21,200	2,500	20	50,400
State							
Total	67,000	22,000	130	2,860,000	43,000	22	946,000

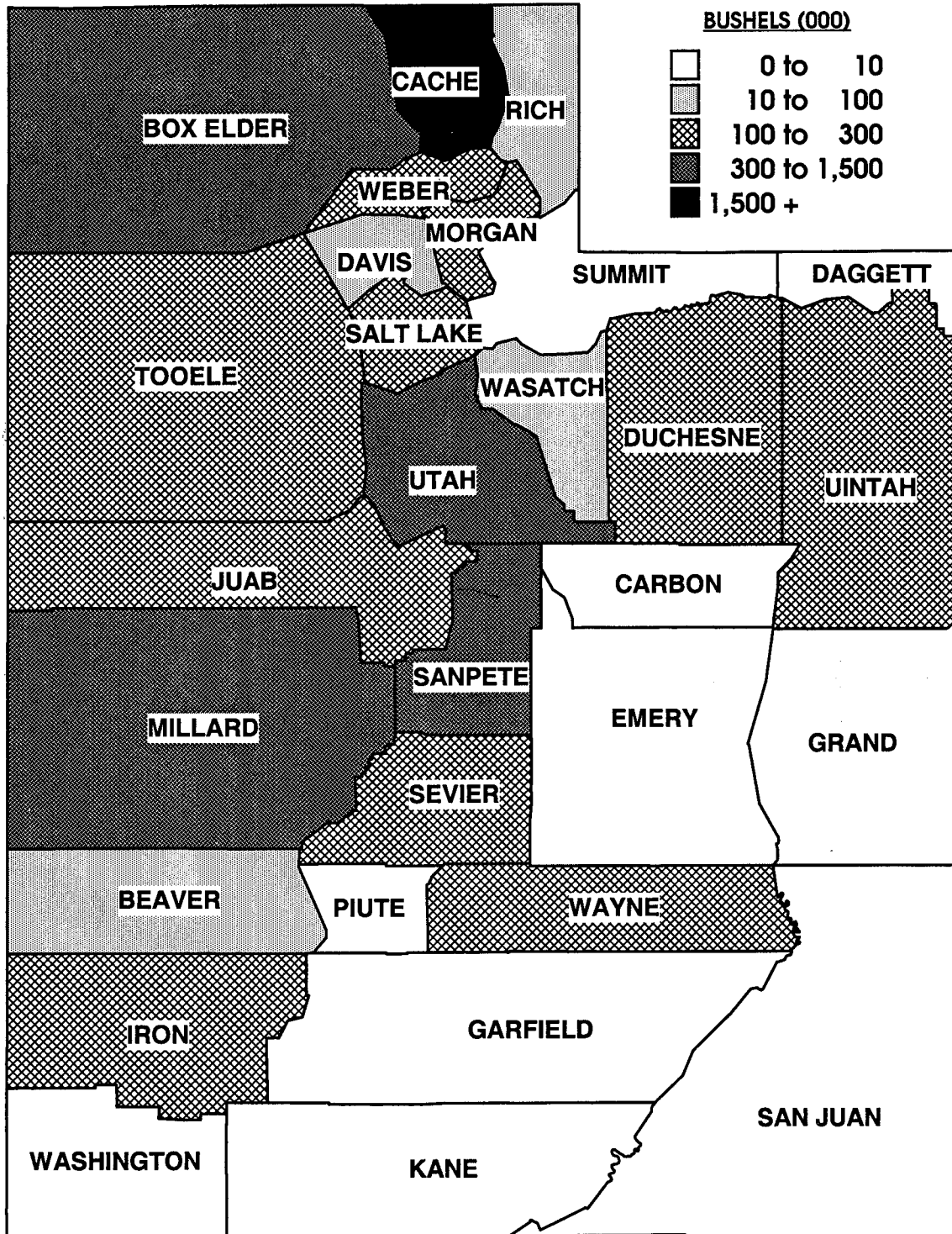
1/ Counties with missing data are included in the appropriate district's "Other Counties".

County Estimates: Corn, All Cropping Practices, Utah, 1993 (final) 1/

District and County	Acres Planted All Purposes	Corn for Grain			Corn for Silage		
		Acres Harvested	Harvested Yield	Production	Acres Harvested	Harvested Yield	Production
	..... Acres .....	..... Bushels .....	..... Bushels .....	..... Bushels .....	..... Acres .....	..... Tons .....	..... Tons
Northern							
Box Elder	12,700	6,500	140	910,000	6,200	22	139,200
Cache	6,600	400	130	52,000	6,200	20	124,000
Davis	4,200	2,600	129	335,400	1,600	21	33,600
Morgan							
Rich							
Salt Lake	1,600	700	139	97,300	800	19	15,200
Tooele							
Weber	5,400	1,200	128	153,600	4,100	22	90,200
Other Counties	600				600	19	11,400
Total	31,100	11,400	136	1,548,300	19,500	21	413,600
Central							
Juab	600	100	101	10,100	500	18	9,000
Millard	5,400	2,800	127	355,600	2,600	16	41,600
Sanpete	2,000	100	118	11,800	1,800	18	32,400
Sevier	5,200	500	113	56,500	4,500	20	90,000
Utah	12,300	4,000	135	541,400	7,700	22	169,400
Total	25,500	7,500	130	975,400	17,100	20	342,400
Eastern							
Carbon							
Daggett							
Duchesne	3,200	1,900	104	197,600	1,300	17	22,100
Emery	1,600	300	129	38,700	1,000	12	12,000
Grand							
San Juan							
Summit							
Uintah	2,700	600	115	69,000	2,100	17	35,700
Wasatch							
Other Counties	1,000	100	105	10,500	600	16	9,700
Total	8,500	2,900	109	315,800	5,000	16	79,500
Southern							
Beaver	1,300	100	102	10,200	1,100	20	22,000
Garfield							
Iron	1,000	100	103	10,300	700	18	12,600
Kane							
Piute							
Washington							
Wayne							
Other Counties	600				600	17	9,900
Total	2,900	200	103	20,500	2,400	19	44,500
State							
Total	68,000	22,000	130	2,860,000	44,000	20	880,000

1/ Counties with missing data are included in the appropriate district's "Other Counties".

UTAH BARLEY PRODUCTION By County, 1999



County Estimates: All Barley, All Cropping Practices, Utah, 1998 (revised) & 1999 ^{1/}

District and County	Acres				Harvested Yield		Production	
	Planted		Harvested		1998	1999	1998	1999
	1998	1999	1998	1999				
	..... Acres .....				..... Bushels			
Northern								
Box Elder	12,200	11,000	11,400	10,500	87	93	990,000	974,000
Cache	28,000	25,500	26,300	24,400	74	72	1,940,000	1,745,000
Davis	1,000	1,000	900	900	97	96	87,000	86,000
Morgan	1,500	2,700	1,300	2,500	88	90	115,000	224,000
Rich	900	900	800	700	79	73	63,000	51,000
Salt Lake	3,000	2,500	2,500	2,200	74	71	185,000	156,000
Tooele	1,500	2,500	1,100	2,100	75	73	83,000	154,000
Weber	1,900	1,900	1,700	1,700	92	91	157,000	154,000
Total	50,000	48,000	46,000	45,000	79	79	3,620,000	3,544,000
Central								
Juab	2,400	2,200	1,900	1,800	85	72	162,000	130,000
Millard	13,500	12,200	11,600	11,400	88	94	1,015,000	1,074,000
Sanpete	7,400	6,200	6,600	5,700	89	79	590,000	450,000
Sevier	2,500	2,900	2,000	2,300	95	93	189,000	214,000
Utah	8,700	9,000	7,900	8,300	92	82	729,000	680,000
Total	34,500	32,500	30,000	29,500	90	86	2,685,000	2,548,000
Eastern								
Carbon								
Daggett								
Duchesne	2,100	1,600	1,700	1,400	85	74	144,000	103,000
Emery								
Grand								
San Juan								
Summit	600		500		74		37,000	
Uintah	1,600	1,500	1,400	1,400	78	74	109,000	103,000
Wasatch	900	500	800	400	75	83	60,000	33,000
Other Counties	800	900	600	800	53	56	32,000	45,000
Total	6,000	4,500	5,000	4,000	76	71	382,000	284,000
Southern								
Beaver	900	1,100	800	900	98	92	78,000	83,000
Garfield								
Iron	2,100	1,700	1,900	1,600	91	100	173,000	160,000
Kane								
Piute								
Washington								
Wayne	700	1,300	600	1,200	88	95	53,000	114,000
Other Counties	800	900	700	800	91	91	64,000	73,000
Total	4,500	5,000	4,000	4,500	92	96	368,000	430,000
State								
Total	95,000	90,000	85,000	83,000	83	82	7,055,000	6,806,000

^{1/} Counties with missing data are included in the appropriate district's "Other Counties".

County Estimates: All Barley, All Cropping Practices, Utah, 1996 & 1997 (final) 1/

District and County	Acres				Harvested Yield		Production	
	Planted		Harvested		1996	1997	1996	1997
	1996	1997	1996	1997				
				Acres		Bushels		
Northern								
Box Elder	13,800	13,000	13,000	12,200	82	90	1,066,000	1,098,000
Cache	32,000	30,000	30,000	29,600	71	76	2,118,000	2,235,000
Davis	1,300	1,000	1,100	1,000	89	95	98,000	95,000
Morgan	1,900	1,500	1,600	1,500	80	85	128,000	127,000
Rich	1,200	1,000	1,000	1,000	68	75	68,000	75,000
Salt Lake	3,100	3,000	2,900	3,000	71	72	207,000	215,000
Tooele	1,600	1,500	1,400	1,300	79	76	110,000	99,000
Weber	2,100	2,000	2,000	1,900	90	91	180,000	173,000
Total	57,000	53,000	53,000	51,500	75	80	3,975,000	4,117,000
Central								
Juab	2,900	2,500	2,500	2,500	79	83	198,000	208,000
Millard	15,100	14,500	14,100	13,400	91	86	1,282,000	1,158,000
Sanpete	8,000	7,500	7,500	7,400	90	92	673,000	680,000
Sevier	3,000	2,500	2,600	2,400	88	95	230,000	229,000
Utah	10,500	9,000	9,800	8,800	87	95	850,000	835,000
Total	39,500	36,000	36,500	34,500	89	90	3,233,000	3,110,000
Eastern								
Carbon								
Daggett								
Duchesne	2,400	1,900	1,900	1,600	89	86	169,000	138,000
Emery								
Grand								
San Juan								
Summit	700	600	500	500	76	72	38,000	36,000
Uintah	1,900	1,900	1,600	1,600	65	78	104,000	125,000
Wasatch	1,100	1,000	900	900	72	71	65,000	64,000
Other Counties	900	600	600	400	43	55	26,000	22,000
Total	7,000	6,000	5,500	5,000	73	77	402,000	385,000
Southern								
Beaver	800	1,000	700	600	83	100	58,000	60,000
Garfield	800	500	600	500	70	90	42,000	45,000
Iron	3,500	2,500	2,600	2,100	80	90	208,000	190,000
Kane								
Piute								
Washington								
Wayne	800	500	600	500	80	88	48,000	44,000
Other Counties	600	500	500	300	68	97	34,000	29,000
Total	6,500	5,000	5,000	4,000	78	92	390,000	368,000
State								
Total	110,000	100,000	100,000	95,000	80	84	8,000,000	7,980,000

1/ Counties with missing data are included in the appropriate district's "Other Counties".

County Estimates: All Barley, All Cropping Practices, Utah, 1994 & 1995 (final) 1/

District and County	Acres				Harvested Yield		Production	
	Planted		Harvested		1994	1995	1994	1995
	1994	1995	1994	1995				
..... Acres .....				..... Bushels				
Northern								
Box Elder	17,000	13,500	16,000	12,800	80	92	1,280,000	1,180,000
Cache	30,500	28,000	28,500	26,600	68	83	1,937,000	2,210,000
Davis	1,600	1,200	1,500	1,100	81	87	121,000	96,000
Morgan	1,500	1,500	1,400	1,400	71	78	100,000	109,000
Rich	800	800	700	700	63	76	44,000	53,000
Salt Lake	2,100	2,700	1,800	2,300	78	88	140,000	203,000
Tooele	1,500	1,300	1,300	1,200	62	75	80,000	90,000
Weber	2,500	2,000	2,300	1,900	73	88	169,000	168,000
Total	57,500	51,000	53,500	48,000	72	86	3,871,000	4,109,000
Central								
Juab	2,500	2,500	2,300	2,300	60	79	138,000	181,000
Millard	15,500	13,700	14,300	12,800	86	99	1,236,000	1,265,000
Sanpete	7,500	6,800	7,000	6,700	83	96	583,000	645,000
Sevier	4,000	3,000	3,600	2,700	73	93	261,000	252,000
Utah	12,500	10,000	12,300	9,500	77	90	945,000	859,000
Total	42,000	36,000	39,500	34,000	80	94	3,163,000	3,202,000
Eastern								
Carbon								
Daggett								
Duchesne	3,200	2,300	2,900	2,000	70	90	204,000	179,000
Emery								
Grand								
San Juan								
Summit		500		400		88		35,000
Uintah	1,800	1,700	1,600	1,600	59	70	94,000	112,000
Wasatch	1,000	1,100	900	900	71	86	64,000	77,000
Other Counties	1,500	900	1,300	600	49	53	64,000	32,000
Total	7,500	6,500	6,700	5,500	64	79	426,000	435,000
Southern								
Beaver	1,000	800	900	700	86	81	77,000	57,000
Garfield	1,000	700	900	600	50	75	45,000	45,000
Iron	3,500	3,100	3,400	2,800	86	84	293,000	235,000
Kane								
Piute								
Washington	600	500	500	300	72	70	36,000	21,000
Wayne	1,500	1,000	1,300	800	73	75	95,000	60,000
Other Counties	400	400	300	300	63	67	19,000	20,000
Total	8,000	6,500	7,300	5,500	77	80	565,000	438,000
State								
Total	115,000	100,000	107,000	93,000	75	88	8,025,000	8,184,000

1/ Counties with missing data are included in the appropriate district's "Other Counties".

County Estimates: All Barley, by Cropping Practice, Utah, 1998 (revised) 1/

District and County	Irrigated				Non-Irrigated			
	Acres		Har- vested Yield	Production	Acres		Har- vested Yield	Production
	Planted	Harvested			Planted	Harvested		
	..... Acres .....		..... Bushels .....		..... Acres .....		..... Bushels	
Northern								
Box Elder	9,000	8,500	100	854,000	3,200	2,900	47	136,000
Cache	17,800	16,900	89	1,511,000	10,200	9,400	46	429,000
Davis	900	800	104	83,000	100	100	40	4,000
Morgan	1,000	900	108	97,000	500	400	45	18,000
Rich	800	800	79	63,000	100			
Salt Lake	1,400	1,100	107	118,000	1,600	1,400	48	67,000
Tooele	1,000	800	89	71,000	500	300	40	12,000
Weber	1,700	1,500	99	148,000	200	200	45	9,000
Total	33,600	31,300	94	2,945,000	16,400	14,700	46	675,000
Central								
Juab	1,800	1,500	95	143,000	600	400	48	19,000
Millard	13,300	11,400	88	1,006,000	200	200	45	9,000
Sanpete	7,000	6,300	92	577,000	400	300	43	13,000
Sevier	2,300	1,900	97	185,000	200	100	40	4,000
Utah	8,000	7,300	96	701,000	700	600	47	28,000
Total	32,400	28,400	92	2,612,000	2,100	1,600	46	73,000
Eastern								
Carbon								
Daggett								
Duchesne	2,000	1,700	85	144,000	100			
Emery								
Grand								
San Juan								
Summit	500	400	85	34,000	100	100	30	3,000
Uintah	1,100	1,100	88	97,000	500	300	40	12,000
Wasatch	700	700	80	56,000	200	100	40	4,000
Other Counties	600	600	53	32,000	200			
Total	4,900	4,500	81	363,000	1,100	500	38	19,000
Southern								
Beaver	800	800	98	78,000	100			
Garfield								
Iron	2,000	1,900	91	173,000	100			
Kane								
Piute								
Washington								
Wayne	600	500	98	49,000	100	100	40	4,000
Other Counties	700	600	100	60,000	100	100	40	4,000
Total	4,100	3,800	95	360,000	400	200	40	8,000
State								
Total	75,000	68,000	92	6,280,000	20,000	17,000	46	775,000

1/ Counties with missing data are included in the appropriate district's "Other Counties".

County Estimates: All Barley, by Cropping Practice, Utah, 1997 (final) 1/

District and County	Irrigated				Non-Irrigated			
	Acres		Harvested Yield	Production	Acres		Harvested Yield	Production
	Planted	Harvested			Planted	Harvested		
	..... Acres .....	..... Acres .....	..... Bushels .....	..... Bushels .....	..... Acres .....	..... Acres .....	..... Bushels .....	..... Bushels
Northern								
Box Elder	9,300	8,800	108	948,000	3,600	3,400	44	150,000
Cache	19,300	18,900	92	1,735,000	10,700	10,700	47	500,000
Davis	900	900	102	92,000	100	100	30	3,000
Morgan	1,000	1,000	107	107,000	500	500	40	20,000
Rich	900	900	79	71,000	100	100	40	4,000
Salt Lake	1,300	1,200	109	131,000	1,800	1,800	47	84,000
Tooele	1,100	1,000	87	87,000	400	300	40	12,000
Weber	1,700	1,600	101	161,000	300	300	40	12,000
Total	35,500	34,300	97	3,332,000	17,500	17,200	46	785,000
Central								
Juab	1,900	1,900	97	185,000	600	600	38	23,000
Millard	14,300	13,200	87	1,150,000	200	200	40	8,000
Sanpete	7,100	7,000	95	665,000	400	400	38	15,000
Sevier	2,400	2,300	98	225,000	100	100	40	4,000
Utah	8,300	8,100	100	810,000	700	700	36	25,000
Total	34,000	32,500	93	3,035,000	2,000	2,000	38	75,000
Eastern								
Carbon								
Daggett								
Duchesne	1,800	1,600	86	138,000	100			
Emery								
Grand								
San Juan								
Summit	500	400	83	33,000	100	100	30	3,000
Uintah	1,300	1,200	92	110,000	600	400	38	15,000
Wasatch	900	900	71	64,000	100			
Other Counties	500	300	67	20,000	100	100	20	2,000
Total	5,000	4,400	83	365,000	1,000	600	33	20,000
Southern								
Beaver	900	600	100	60,000	100			
Garfield	500	500	90	45,000				
Iron	2,400	2,100	90	190,000	100			
Kane								
Piute								
Washington								
Wayne	400	400	100	40,000	100	100	40	4,000
Other Counties	300	200	125	25,000	200	100	40	4,000
Total	4,500	3,800	95	360,000	500	200	40	8,000
State								
Total	79,000	75,000	95	7,092,000	21,000	20,000	44	888,000

1/ Counties with missing data are included in the appropriate district's "Other Counties".

County Estimates: All Barley, by Cropping Practice, Utah, 1996 (final) 1/

District and County	Irrigated				Non-Irrigated			
	Acres		Harvested Yield	Production	Acres		Harvested Yield	Production
	Planted	Harvested			Planted	Harvested		
	..... Acres .....		..... Bushels .....		..... Acres .....		..... Bushels	
Northern								
Box Elder	10,800	10,300	95	978,000	3,000	2,700	33	88,000
Cache	22,900	21,800	84	1,831,000	9,100	8,200	35	287,000
Davis	1,200	1,000	95	95,000	100	100	30	3,000
Morgan	1,400	1,200	95	114,000	500	400	35	14,000
Rich	1,100	900	72	65,000	100	100	30	3,000
Salt Lake	1,600	1,500	101	152,000	1,500	1,400	39	55,000
Tooele	1,200	1,100	91	100,000	400	300	33	10,000
Weber	1,800	1,700	99	169,000	300	300	37	11,000
Total	42,000	39,500	89	3,504,000	15,000	13,500	35	471,000
Central								
Juab	2,200	2,000	91	181,000	700	500	34	17,000
Millard	14,900	13,900	92	1,275,000	200	200	35	7,000
Sanpete	7,700	7,200	92	665,000	300	300	27	8,000
Sevier	2,900	2,500	91	227,000	100	100	30	3,000
Utah	9,800	9,200	90	830,000	700	600	33	20,000
Total	37,500	34,800	91	3,178,000	2,000	1,700	32	55,000
Eastern								
Carbon								
Daggett								
Duchesne	2,400	1,900	89	169,000				
Emery								
Grand								
San Juan								
Summit	600	400	88	35,000	100	100	30	3,000
Uintah	1,500	1,300	74	96,000	400	300	27	8,000
Wasatch	1,100	900	72	65,000				
Other Counties	700	400	55	22,000	200	200	20	4,000
Total	6,300	4,900	79	387,000	700	600	25	15,000
Southern								
Beaver	800	700	83	58,000				
Garfield	800	600	70	42,000				
Iron	3,500	2,600	80	208,000				
Kane								
Piute								
Washington								
Wayne	700	600	80	48,000	100			
Other Counties	400	300	100	30,000	200	200	20	4,000
Total	6,200	4,800	80	386,000	300	200	20	4,000
State								
Total	92,000	84,000	89	7,455,000	18,000	16,000	34	545,000

1/ Counties with missing data are included in the appropriate district's "Other Counties".

County Estimates: All Barley, by Cropping Practice, Utah, 1995 (final) 1/

District and County	Irrigated				Non-Irrigated			
	Acres		Har-vested Yield	Production	Acres		Har-vested Yield	Production
	Planted	Harvested			Planted	Harvested		
	..... Acres .....	..... Bushels .....	..... Acres .....	..... Bushels				
Northern								
Box Elder	11,000	10,800	102	1,105,000	2,500	2,000	38	75,000
Cache	21,500	20,800	96	2,001,000	6,500	5,800	36	209,000
Davis	1,100	1,000	92	92,000	100	100	40	4,000
Morgan	1,000	1,000	97	97,000	500	400	30	12,000
Rich	700	600	83	50,000	100	100	30	3,000
Salt Lake	2,000	1,800	102	183,000	700	500	40	20,000
Tooele	1,000	1,000	84	84,000	300	200	30	6,000
Weber	1,700	1,700	95	162,000	300	200	30	6,000
Total	40,000	38,700	98	3,774,000	11,000	9,300	36	335,000
Central								
Juab	2,100	2,000	86	171,000	400	300	33	10,000
Millard	13,600	12,700	99	1,261,000	100	100	40	4,000
Sanpete	6,600	6,500	98	639,000	200	200	30	6,000
Sevier	2,900	2,600	96	249,000	100	100	30	3,000
Utah	9,500	9,100	93	845,000	500	400	35	14,000
Total	34,700	32,900	96	3,165,000	1,300	1,100	34	37,000
Eastern								
Carbon								
Daggett								
Duchesne	2,200	1,900	93	176,000	100	100	30	3,000
Emery								
Grand								
San Juan								
Summit	400	400	88	35,000	100			
Uintah	1,500	1,400	76	107,000	200	200	25	5,000
Wasatch	1,100	900	86	77,000				
Other Counties	700	400	63	25,000	200	200	35	7,000
Total	5,900	5,000	84	420,000	600	500	30	15,000
Southern								
Beaver	800	700	81	57,000				
Garfield	700	600	75	45,000				
Iron	3,100	2,800	84	235,000				
Kane								
Piute								
Washington ...	500	300	70	21,000				
Wayne	1,000	800	75	60,000				
Other Counties	300	200	85	17,000	100	100	30	3,000
Total	6,400	5,400	81	435,000	100	100	30	3,000
State								
Total	87,000	82,000	95	7,794,000	13,000	11,000	35	390,000

1/ Counties with missing data are included in the appropriate district's "Other Counties".

County Estimates: All Barley, by Cropping Practice, Utah, 1994 (final) 1/

District and County	Irrigated				Non-Irrigated			
	Acres		Harvested Yield	Production	Acres		Harvested Yield	Production
	Planted	Harvested			Planted	Harvested		
	..... Acres .....		..... Bushels .....		..... Acres .....		..... Bushels	
Northern								
Box Elder	13,900	13,500	93	1,251,000	3,100	2,500	12	29,000
Cache	23,100	22,300	82	1,828,000	7,400	6,200	18	109,000
Davis	1,400	1,400	85	119,000	200	100	20	2,000
Morgan	1,100	1,100	88	97,000	400	300	10	3,000
Rich	700	600	70	42,000	100	100	20	2,000
Salt Lake	1,600	1,500	91	137,000	500	300	10	3,000
Tooele	1,100	1,000	73	73,000	400	300	23	7,000
Weber	2,100	2,000	82	164,000	400	300	17	5,000
Total	45,000	43,400	86	3,711,000	12,500	10,100	16	160,000
Central								
Juab	2,000	2,000	68	135,000	500	300	10	3,000
Millard	15,400	14,200	87	1,234,000	100	100	20	2,000
Sanpete	7,300	6,900	84	580,000	200	100	30	3,000
Sevier	3,900	3,500	74	259,000	100	100	20	2,000
Utah	11,800	11,700	80	934,000	700	600	18	11,000
Total	40,400	38,300	82	3,142,000	1,600	1,200	18	21,000
Eastern								
Carbon								
Daggett								
Duchesne	3,100	2,900	70	204,000	100			
Emery								
Grand								
San Juan								
Summit								
Uintah	1,500	1,400	65	91,000	300	200	15	3,000
Wasatch	1,000	900	71	64,000				
Other Counties	1,100	900	64	58,000	400	400	15	6,000
Total	6,700	6,100	68	417,000	800	600	15	9,000
Southern								
Beaver	1,000	900	86	77,000				
Garfield	1,000	900	50	45,000				
Iron	3,500	3,400	86	293,000				
Kane								
Piute								
Washington ...	600	500	72	36,000				
Wayne	1,500	1,300	73	95,000				
Other Counties	300	200	85	17,000	100	100	20	2,000
Total	7,900	7,200	78	563,000	100	100	20	2,000
State								
Total	100,000	95,000	82	7,833,000	15,000	12,000	16	192,000

1/ Counties with missing data are included in the appropriate district's "Other Counties".

County Estimates: All Barley, by Cropping Practice, Utah, 1993 (final) 1/

District and County	Irrigated				Non-Irrigated			
	Acres		Harvested Yield	Production	Acres		Harvested Yield	Production
	Planted	Harvested			Planted	Harvested		
	..... Acres .....		..... Bushels .....		..... Acres .....		..... Bushels	
Northern								
Box Elder	15,300	15,000	99	1,492,000	3,000	2,800	35	98,000
Cache	25,000	24,600	86	2,126,900	5,000	4,500	33	150,100
Davis	1,700	1,600	89	142,900	100	100	41	4,100
Morgan	1,400	1,200	90	108,300	300	300	32	9,700
Rich	700	600	77	46,000	100	100	40	4,000
Salt Lake	1,800	1,400	97	135,300	200	200	39	7,700
Tooele	1,400	1,200	84	101,000	300	300	23	7,000
Weber	2,500	2,400	87	208,100	200	200	45	8,900
Total	49,800	48,000	91	4,360,500	9,200	8,500	34	289,500
Central								
Juab	2,200	2,100	71	148,400	300	200	23	4,600
Millard	14,300	14,000	97	1,364,300	200	200	14	2,700
Sanpete	6,900	6,500	97	627,800	100	100	22	2,200
Sevier	3,900	3,600	97	348,000	100	100	20	2,000
Utah	12,700	12,500	95	1,185,000	300	200	25	5,000
Total	40,000	38,700	95	3,673,500	1,000	800	21	16,500
Eastern								
Carbon								
Daggett								
Duchesne	3,200	3,100	75	233,000				
Emery								
Grand								
San Juan								
Summit								
Uintah	1,700	1,700	62	105,900	200	200	11	2,100
Wasatch	900	800	71	57,000				
Other Counties	1,000	900	64	57,600	500	400	24	9,400
Total	6,800	6,500	70	453,500	700	600	19	11,500
Southern								
Beaver	1,000	900	87	78,000				
Garfield	900	800	60	48,000				
Iron	3,100	3,000	83	250,000				
Kane								
Piute								
Washington ...	500	400	86	34,500	100	100	25	2,500
Wayne	1,500	1,400	79	110,000				
Other Counties	400	300	73	22,000				
Total	7,400	6,800	80	542,500	100	100	25	2,500
State								
Total	104,000	100,000	90	9,030,000	11,000	10,000	32	320,000

1/ Counties with missing data are included in the appropriate district's "Other Counties".

County Estimates: Oats, All Cropping Practices, Utah, 1998 (revised) & 1999 ¹

District and County	Acres				Harvested Yield per acre		Production	
	Planted		Harvested		1998	1999	1998	1999
	1998	1999	1998	1999				
	Acres				Bushels			
Northern								
Box Elder	3,200	2,800	1,300	1,200	77	87	100,000	104,000
Cache	3,000	2,000	800	800	74	69	59,000	55,000
Davis	800	600	200	200	55	90	11,000	18,000
Morgan	1,000	700	200	200	80	100	16,000	20,000
Rich	1,100	1,200	200	300	75	70	15,000	21,000
Salt Lake	800	700	100	200	70	100	7,000	20,000
Tooele	1,000	1,100	100	200	50	75	5,000	15,000
Weber	1,100	900	500	500	80	70	40,000	35,000
Total	12,000	10,000	3,400	3,600	74	80	253,000	288,000
Central								
Juab	1,000	700	100	100	60	90	6,000	9,000
Millard	5,400	3,500	400	400	85	83	34,000	33,000
Sanpete	3,500	3,500	600	500	73	74	44,000	37,000
Sevier	3,100	2,900	300	300	57	80	17,000	24,000
Utah	2,000	1,900	300	400	83	78	25,000	31,000
Total	15,000	12,500	1,700	1,700	74	79	126,000	134,000
Eastern								
Carbon	600	900	100	200	80	70	8,000	14,000
Daggett								
Duchesne	2,600	2,600	600	600	58	78	35,000	47,000
Emery	2,800	2,800	700	700	79	76	55,000	53,000
Grand								
San Juan	1,400	1,300	700	700	33	31	23,000	22,000
Summit	700	700	100		90		9,000	
Uintah	2,000	1,900	800	800	75	70	60,000	56,000
Wasatch		600		100		90		9,000
Other Counties	900	200	100		70		7,000	
Total	11,000	11,000	3,100	3,100	64	65	197,000	201,000
Southern								
Beaver	1,600	1,700	200		80		16,000	
Garfield	1,700	1,400	100	100	60	80	6,000	8,000
Iron	4,300	4,000	200	200	55	95	11,000	19,000
Kane	900	800						
Piute	1,300	1,100	100	100	80	80	8,000	8,000
Washington	900	900	100	100	60	80	6,000	8,000
Wayne	1,300	1,600	100	100	70	90	7,000	9,000
Total	12,000	11,500	800	600	68	87	54,000	52,000
State								
Total	50,000	45,000	9,000	9,000	70	75	630,000	675,000

^{1/} Counties with missing data are included in the appropriate district's "Other Counties".

County Estimates: Oats, All Cropping Practices, Utah, 1996 & 1997 (final) 1/

District and County	Acres				Harvested Yield per acre		Production	
	Planted		Harvested		1996	1997	1996	1997
	1996	1997	1996	1997				
				Acres		Bushels		
Northern								
Box Elder	2,000	3,200	800	1,100	84	85	67,000	93,000
Cache	1,700	3,500	600	900	75	83	45,000	75,000
Davis		800		200		60		12,000
Morgan		800		200		90		18,000
Rich	1,100	1,100	200	300	75	83	15,000	25,000
Salt Lake	600	800	100	100	80	80	8,000	8,000
Tooele	1,100	700	100	100	60	50	6,000	5,000
Weber	1,000	1,100	200	600	80	90	16,000	54,000
Other Counties	1,000		400		75		30,000	
Total	8,500	12,000	2,400	3,500	78	83	187,000	290,000
Central								
Juab		1,000		100		60		6,000
Millard	3,800	5,500	800	700	75	89	60,000	62,000
Sanpete	2,600	4,000	500	600	74	67	37,000	40,000
Sevier	3,000	2,500	600	300	68	37	41,000	11,000
Utah		2,000		500		62		31,000
Other Counties	2,100		700		70		49,000	
Total	11,500	15,000	2,600	2,200	72	68	187,000	150,000
Eastern								
Carbon	900	500	300	100	73	80	22,000	8,000
Daggett								
Duchesne	2,900	2,300	600	600	68	65	41,000	39,000
Emery	2,500	2,900	400	1,000	70	66	28,000	66,000
Grand								
San Juan	1,800	1,100	500	600	38	47	19,000	28,000
Summit	900	800	100	100	70	90	7,000	9,000
Uintah	1,900	2,600	600	800	60	68	36,000	54,000
Wasatch	800		200		65		13,000	
Other Counties	300	800		100		70		7,000
Total	12,000	11,000	2,700	3,300	61	64	166,000	211,000
Southern								
Beaver	2,400	1,600	200	300	70	83	14,000	25,000
Garfield	2,000	2,000	100	100	60	50	6,000	5,000
Iron	4,000	4,200	400	200	70	60	28,000	12,000
Kane	1,000	800	100	100	60	50	6,000	5,000
Piute	800	1,100	100	100	80	90	8,000	9,000
Washington	600	900	100	100	60	60	6,000	6,000
Wayne	2,200	1,400	300	100	73	70	22,000	7,000
Total	13,000	12,000	1,300	1,000	69	69	90,000	69,000
State								
Total	45,000	50,000	9,000	10,000	70	72	630,000	720,000

1/ Counties with missing data are included in the appropriate district's "Other Counties".

County Estimates: Oats, All Cropping Practices, Utah, 1994 & 1995 (final) 1/

District and County	Acres				Harvested Yield per acre		Production	
	Planted		Harvested		1994	1995	1994	1995
	1994	1995	1994	1995				
	Acres				Bushels			
Northern								
Box Elder	1,800	2,400	600	800	83	78	50,000	62,000
Cache	1,900	2,200	500	600	86	83	43,000	50,000
Davis								
Morgan								
Rich	1,300	1,500	200	200	70	65	14,000	13,000
Salt Lake	500	700	200	200	85	80	17,000	16,000
Tooele	800	1,300	200	100	60	60	12,000	6,000
Weber	900	1,200	300	300	87	77	26,000	23,000
Other Counties	800	1,100	300	400	80	73	24,000	29,000
Total	8,000	10,400	2,300	2,600	81	77	186,000	199,000
Central								
Juab		500		100		60		6,000
Millard	3,200	4,100	500	800	86	81	43,000	65,000
Sanpete	2,900	2,800	400	400	80	78	32,000	31,000
Sevier	2,500	3,100	300	400	80	73	24,000	29,000
Utah		2,200		500		68		34,000
Other Counties	2,400		700		74		52,000	
Total	11,000	12,700	1,900	2,200	79	75	151,000	165,000
Eastern								
Carbon	700	900	200	200	75	65	15,000	13,000
Daggett								
Duchesne	3,300	3,800	500	700	78	70	39,000	49,000
Emery	1,400	2,400	200	200	70	65	14,000	13,000
Grand							14,000	
San Juan	1,300	1,700	600	600	30	32	18,000	19,000
Summit	700	1,000	100	100	70	70	7,000	7,000
Uintah	1,600	2,000	700	700	66	56	46,000	39,000
Wasatch	700	900	200	200	60	60	12,000	12,000
Other Counties	300	400						
Total	10,000	13,100	2,500	2,700	60	56	151,000	152,000
Southern								
Beaver	2,500	2,800	300	300	67	60	20,000	18,000
Garfield	1,900	2,100	300	200	63	50	19,000	10,000
Iron	3,000	4,200	200	300	70	67	14,000	20,000
Kane	900	1,000	100	100	60	60	6,000	6,000
Piute	800	1,000	100	100	80	70	8,000	7,000
Washington	500	600	100	100	60	60	6,000	6,000
Wayne	1,400	2,100	200	400	75	73	15,000	29,000
Total	11,000	13,800	1,300	1,500	68	64	88,000	96,000
State								
Total	40,000	50,000	8,000	9,000	72	68	576,000	612,000

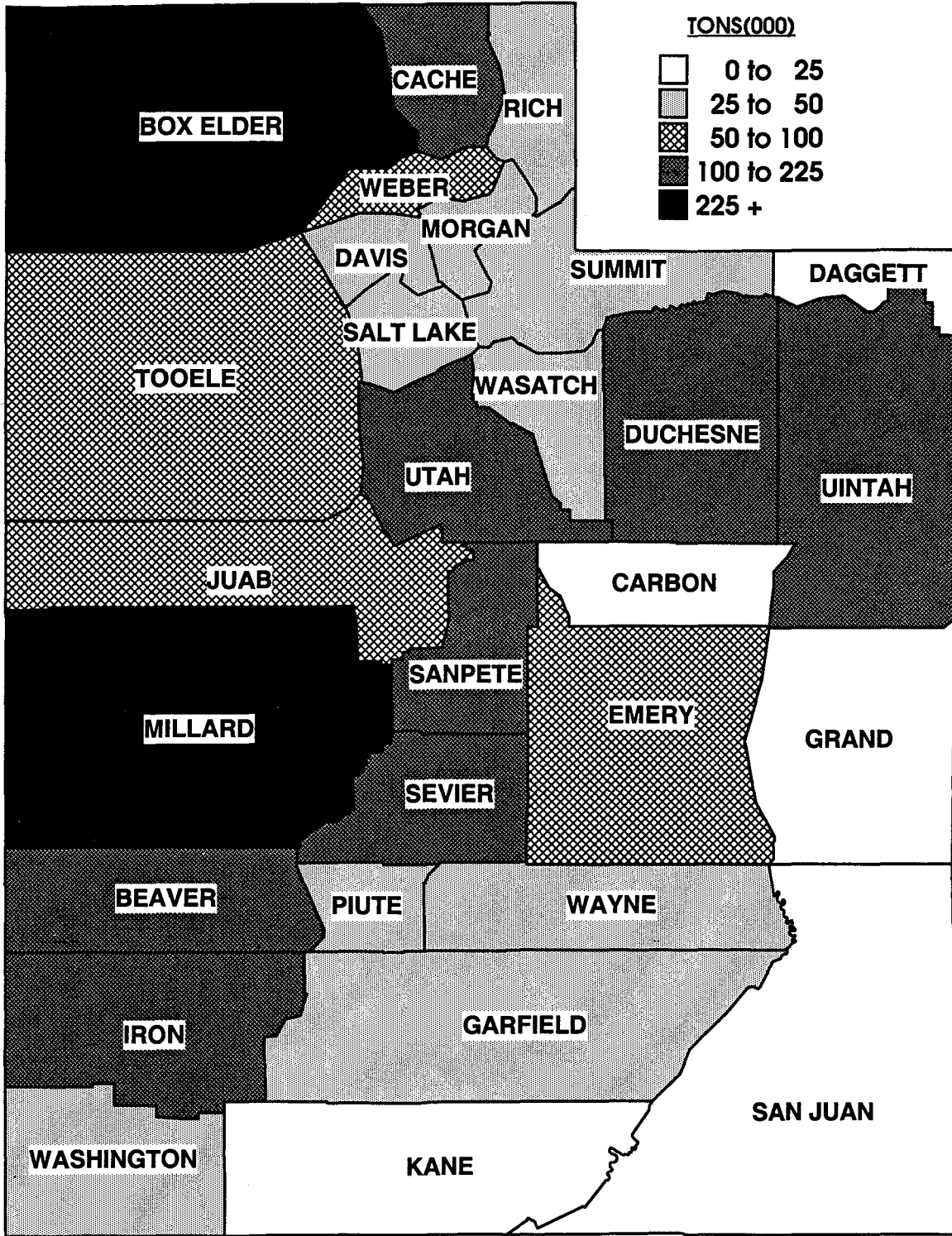
1/ Counties with missing data are included in the appropriate district's "Other Counties".

County Estimates: Oats, All Cropping Practices, Utah, 1992 & 1993 (final) 1/

District and County	Acres				Harvested Yield per acre		Production	
	Planted		Harvested		1992	1993	1992	1993
	1992	1993	1992	1993				
	..... Acres .....				..... Bushels			
Northern								
Box Elder	1,800	2,300	1,000	900	76	87	76,000	78,000
Cache	2,500	2,400	1,400	900	72	68	101,000	61,000
Davis	800		400		73		29,300	
Morgan	500		200		68		13,500	
Rich	700	1,600	300	200	73	85	22,000	17,000
Salt Lake	800	700	500	400	68	68	34,000	27,000
Tooele	700	1,000	200	200	58	65	11,500	13,000
Weber	1,400	1,100	800	500	86	78	68,500	39,000
Other Counties		1,000		500		80		40,000
Total	9,200	10,100	4,800	3,600	74	76	355,800	275,000
Central								
Juab	500		200		65		13,000	
Millard	3,000	4,000	1,200	800	72	73	86,300	58,000
Sanpete	2,500	2,900	600	800	70	80	42,000	64,000
Sevier	2,400	3,200	300	400	81	73	24,400	29,000
Utah	2,100		700		76		53,500	
Other Counties		2,800		1,000		75		75,000
Total	10,500	12,900	3,000	3,000	73	75	219,200	226,000
Eastern								
Carbon	500	1,000	200	200	70	65	14,000	13,000
Daggett								
Duchesne	3,900	4,400	1,000	700	74	69	73,800	48,000
Emery	1,300	2,100	500	500	64	68	32,000	34,000
Grand								
San Juan	1,200	1,500	800	500	25	42	20,000	21,000
Summit	900	900	300	300	67	77	20,000	23,000
Uintah	2,000	2,500	1,300	1,200	63	75	81,800	90,000
Wasatch	1,100	1,000	300	200	73	85	22,000	17,000
Other Counties	400	400	200	100	56	60	11,200	6,000
Total	11,200	13,800	4,600	3,700	60	68	274,800	252,000
Southern								
Beaver	3,000	3,100	300	600	78	80	23,500	48,000
Garfield	3,100	2,200	800	600	76	80	60,800	48,000
Iron	3,800	3,600	500	600	89	87	44,500	52,000
Kane	800	1,200	200	200	65	75	13,000	15,000
Piute	900	800	100	100	80	80	8,000	8,000
Washington	800	500	300	100	67	80	20,200	8,000
Wayne	1,700	1,800	400	500	76	86	30,200	43,000
Total	14,100	13,200	2,600	2,700	77	82	200,200	222,000
State								
Total	45,000	50,000	15,000	13,000	70	75	1,050,000	975,000

1/ Counties with missing data are included in the appropriate district's "Other Counties".

UTAH ALFALFA HAY PRODUCTION By County, 1999



**County Estimates: Alfalfa & Alfalfa Mixtures for Hay, All Cropping Practices
Utah, 1998 (revised) & 1999**

District and County	Acres Harvested		Harvested Yield		Production	
	1998	1999	1998	1999	1998	1999
	Acres			Tons		
Northern						
Box Elder	52,800	50,200	4.6	4.7	244,000	237,000
Cache	53,700	53,800	3.9	3.9	210,000	211,000
Davis	6,200	6,300	4.7	4.6	29,000	29,000
Morgan	8,100	8,300	4.0	3.9	32,000	32,000
Rich	10,600	11,000	3.0	2.9	32,000	32,000
Salt Lake	6,600	6,800	4.2	4.1	28,000	28,000
Tooele	11,800	12,200	4.3	4.1	51,000	50,000
Weber	14,200	14,400	4.9	4.8	69,000	69,000
Total	164,000	163,000	4.2	4.2	695,000	688,000
Central						
Juab	16,400	15,800	4.1	4.1	68,000	65,000
Millard	57,500	58,100	5.0	4.9	287,000	283,000
Sanpete	34,300	34,000	4.5	4.4	154,000	151,000
Sevier	24,300	23,800	4.8	4.9	117,000	116,000
Utah	29,500	29,300	4.7	4.5	138,000	133,000
Total	162,000	161,000	4.7	4.6	764,000	748,000
Eastern						
Carbon	4,600	4,600	3.7	3.7	17,000	17,000
Daggett	3,100	3,000	3.5	3.7	11,000	11,000
Duchesne	37,500	35,300	4.0	4.3	149,000	151,000
Emery	15,200	15,100	3.8	3.8	57,000	57,000
Grand	2,100	2,100	4.8	4.8	10,000	10,000
San Juan	6,500	6,900	3.1	2.9	20,000	20,000
Summit	7,900	8,300	3.2	3.0	25,000	25,000
Uintah	29,300	29,500	4.5	4.5	133,000	132,000
Wasatch	5,800	6,200	4.3	4.0	25,000	25,000
Total	112,000	111,000	4.0	4.0	447,000	448,000
Southern						
Beaver	24,500	24,200	4.8	4.9	117,000	119,000
Garfield	10,200	10,300	3.6	3.6	37,000	37,000
Iron	44,800	43,300	5.0	5.1	222,000	222,000
Kane	2,500	2,700	4.0	3.7	10,000	10,000
Piute	7,300	7,000	3.7	3.7	27,000	26,000
Washington	7,800	8,000	5.0	4.8	39,000	38,000
Wayne	9,900	9,500	4.0	4.2	40,000	40,000
Total	107,000	105,000	4.6	4.7	492,000	492,000
State						
Total	545,000	540,000	4.4	4.4	2,398,000	2,376,000

**County Estimates: Alfalfa & Alfalfa Mixtures for Hay
All Cropping Practices, Utah, 1996 & 1997 (final)**

District and County	Acres Harvested		Harvested Yield		Production	
	1996	1997	1996	1997	1996	1997
	..... Acres .....			..... Tons		
Northern						
Box Elder	51,800	49,500	4.1	4.7	212,700	235,000
Cache	54,800	55,000	3.7	3.6	202,800	200,000
Davis	6,600	8,500	3.9	4.6	25,700	39,000
Morgan	8,200	6,000	3.5	4.2	28,700	25,000
Rich	11,400	11,000	2.4	2.8	27,400	31,000
Salt Lake	6,800	12,000	3.9	4.3	26,500	51,000
Tooele	11,300	14,000	3.6	4.1	40,700	57,000
Weber	14,100	14,000	4.5	4.9	62,500	68,000
Total	165,000	170,000	3.8	4.2	628,000	706,000
Central						
Juab	16,800	16,000	3.6	4.1	60,500	65,000
Millard	62,000	63,000	4.4	4.8	273,500	302,000
Sanpete	34,700	34,000	4.2	4.3	145,700	145,000
Sevier	22,000	21,000	4.5	5.0	99,000	104,000
Utah	30,500	32,000	4.5	4.6	137,300	147,000
Total	166,000	166,000	4.3	4.6	716,000	763,000
Eastern						
Carbon	4,800	6,000	3.3	3.4	15,800	20,500
Daggett	3,100	3,000	3.0	3.3	9,300	10,000
Duchesne	34,800	37,000	3.5	3.9	121,300	146,000
Emery	14,700	14,500	3.1	3.7	45,600	54,000
Grand	2,400	1,500	4.9	4.3	11,800	6,500
San Juan	6,100	4,000	2.4	3.0	14,700	12,000
Summit	7,800	8,000	2.6	2.9	20,300	23,000
Uintah	29,300	26,000	3.8	4.5	111,300	117,000
Wasatch	7,000	7,000	3.7	4.3	25,900	30,000
Total	110,000	107,000	3.4	3.9	376,000	419,000
Southern						
Beaver	23,800	24,500	4.5	4.7	107,600	114,000
Garfield	9,800	10,000	3.3	3.5	32,300	35,000
Iron	42,200	37,500	4.9	4.9	206,800	182,000
Kane	3,200	3,500	3.0	3.4	9,600	12,000
Piute	7,200	6,500	3.9	3.8	28,100	25,000
Washington	8,200	10,000	5.0	5.1	41,000	51,000
Wayne	9,600	10,000	3.6	3.7	34,600	37,000
Total	104,000	102,000	4.4	4.5	460,000	456,000
State						
Total	545,000	545,000	4.0	4.3	2,180,000	2,344,000

**County Estimates: Alfalfa & Alfalfa Mixtures for Hay
All Cropping Practices, Utah, 1994 & 1995 (final)**

District and County	Acres Harvested		Harvested Yield		Production	
	1994	1995	1994	1995	1994	1995
	..... Acres .....			..... Bushels		
Northern						
Box Elder	50,000	52,300	4.3	4.3	215,500	222,300
Cache	52,500	54,800	4.1	4.1	213,200	224,700
Davis	7,200	6,600	4.6	4.5	32,900	29,400
Morgan	7,600	8,000	3.5	3.6	26,700	28,600
Rich	10,700	11,900	2.6	2.6	28,300	30,600
Salt Lake	7,600	7,400	4.5	4.0	34,300	29,400
Tooele	10,800	10,900	3.8	3.8	40,800	41,100
Weber	13,600	14,100	4.9	4.6	67,300	64,900
Total	160,000	166,000	4.1	4.0	659,000	671,000
Central						
Juab	13,900	15,500	3.9	4.0	54,200	61,800
Millard	62,600	63,400	4.6	4.8	288,000	306,000
Sanpete	32,600	34,200	4.3	4.4	141,500	150,800
Sevier	22,100	23,300	4.8	5.0	106,100	116,000
Utah	30,800	30,600	4.5	4.5	139,200	137,400
Total	162,000	167,000	4.5	4.6	729,000	772,000
Eastern						
Carbon	4,900	4,900	3.7	3.4	18,000	16,900
Daggett	3,000	3,000	3.1	3.2	9,200	9,500
Duchesne	33,200	34,800	3.8	4.0	127,700	139,700
Emery	14,500	14,600	3.3	3.3	48,100	48,900
Grand	1,900	2,400	4.7	5.6	8,900	13,400
San Juan	5,200	5,800	2.9	2.9	15,300	16,900
Summit	8,100	7,800	2.6	2.7	20,900	21,300
Uintah	26,900	28,800	3.8	4.4	101,400	127,300
Wasatch	7,300	6,900	3.5	4.2	25,500	29,100
Total	105,000	109,000	3.6	3.9	375,000	423,000
Southern						
Beaver	23,400	24,300	4.7	4.9	109,500	118,500
Garfield	9,500	9,800	3.4	3.6	32,100	35,500
Iron	36,300	39,500	4.9	5.0	178,600	198,900
Kane	3,500	3,200	3.3	3.6	11,700	11,600
Piute	6,400	7,200	3.8	3.9	24,500	27,900
Washington	9,600	9,000	5.2	5.2	49,900	46,400
Wayne	9,300	10,000	3.8	3.9	35,700	39,200
Total	98,000	103,000	4.5	4.6	442,000	478,000
State						
Total	525,000	545,000	4.2	4.3	2,205,000	2,344,000

**County Estimates: Alfalfa & Alfalfa Mixtures for Hay
All Cropping Practices, Utah, 1992 & 1993 (final)**

District and County	Acres Harvested		Harvested Yield		Production	
	1992	1993	1992	1993	1992	1993
	Acres			Bushels		
Northern						
Box Elder	39,000	46,200	4.2	4.5	162,000	210,000
Cache	49,000	48,500	3.8	4.2	185,100	204,000
Davis	6,500	6,200	4.6	4.9	29,800	30,200
Morgan	7,000	6,800	3.5	4.1	24,500	27,800
Rich	10,000	10,200	2.9	3.0	29,000	30,600
Salt Lake	10,000	8,800	4.4	4.5	43,700	39,500
Tooele	11,500	10,200	3.5	4.2	40,700	42,600
Weber	13,000	13,100	4.6	5.2	59,500	68,300
Total	146,000	150,000	3.9	4.4	574,300	653,000
Central						
Juab	12,500	13,200	3.2	3.9	40,300	51,500
Millard	65,000	60,200	4.5	4.7	291,600	280,300
Sanpete	29,000	31,000	3.8	4.5	109,800	139,500
Sevier	20,500	22,500	4.7	5.0	96,000	112,500
Utah	27,000	29,100	4.5	4.9	120,200	143,200
Total	154,000	156,000	4.3	4.7	657,900	727,000
Eastern						
Carbon	4,600	5,200	3.2	3.7	14,600	19,300
Daggett	2,000	2,600	3.0	3.6	6,000	9,400
Duchesne	28,600	32,100	3.5	4.1	100,500	130,300
Emery	12,800	14,000	3.0	3.6	38,600	50,400
Grand	1,800	1,900	3.9	4.8	7,000	9,100
San Juan	4,900	4,800	2.3	2.9	11,300	14,000
Summit	7,800	8,200	2.4	3.0	19,000	24,500
Uintah	24,500	24,200	3.8	4.4	92,100	105,300
Wasatch	7,000	7,000	3.7	4.5	26,200	31,700
Total	94,000	100,000	3.4	3.9	315,300	394,000
Southern						
Beaver	24,000	22,100	4.5	5.0	109,000	111,400
Garfield	9,500	10,200	3.2	3.4	30,000	34,500
Iron	34,000	33,500	4.7	4.9	160,000	164,200
Kane	2,800	2,700	3.8	4.0	10,700	10,800
Piute	7,700	7,100	3.4	3.8	26,500	27,100
Washington	8,500	8,800	5.0	4.8	42,500	42,500
Wayne	9,500	9,600	3.6	3.7	33,800	35,500
Total	96,000	94,000	4.3	4.5	412,500	426,000
State						
Total	490,000	500,000	4.0	4.4	1,960,000	2,200,000

County Estimates: Other Hay, All Cropping Practices, Utah, 1998 (revised) & 1999

District and County	Acres Harvested		Harvested Yield		Production	
	1998	1999	1998	1999	1998	1999
	..... Acres .....		..... Bushels			
Northern						
Box Elder	10,200	9,700	2.3	2.3	23,300	22,100
Cache	10,000	10,100	2.4	2.4	24,200	23,800
Davis	2,000	2,000	2.4	2.3	4,700	4,500
Morgan	1,700	1,700	2.4	2.4	4,100	4,100
Rich	39,300	37,300	1.8	1.8	71,300	69,000
Salt Lake	1,200	1,200	2.9	2.7	3,500	3,200
Tooele	2,800	2,800	2.1	2.0	5,900	5,600
Weber	3,300	3,200	2.4	2.4	8,000	7,700
Total	70,500	68,000	2.1	2.1	145,000	140,000
Central						
Juab	4,000	3,700	1.8	1.9	7,000	7,100
Millard	5,400	5,000	2.7	2.7	14,400	13,300
Sanpete	12,000	11,400	2.4	2.5	28,800	29,000
Sevier	3,400	3,300	2.9	2.9	10,000	6,700
Utah	9,700	9,600	2.4	2.4	22,800	22,900
Total	34,500	33,000	2.4	2.5	83,000	82,000
Eastern						
Carbon	1,200	1,300	2.2	1.9	2,600	2,500
Daggett	3,000	2,900	2.1	2.2	6,200	6,300
Duchesne	15,800	15,000	2.6	2.5	40,400	37,800
Emery	2,800	2,700	2.6	2.6	7,200	7,000
Grand	500	500	2.6	2.6	1,300	1,300
San Juan	1,400	1,400	2.3	2.2	3,200	3,100
Summit	9,900	9,800	2.4	2.3	24,000	22,100
Uintah	6,800	6,800	2.6	2.6	17,600	17,400
Wasatch	1,600	1,600	2.8	2.8	4,500	4,500
Total	43,000	42,000	2.5	2.4	107,000	102,000
Southern						
Beaver	2,900	3,000	2.9	2.8	8,500	8,400
Garfield	2,700	2,600	2.2	2.3	6,000	5,900
Iron	4,500	4,400	3.0	2.9	13,500	12,900
Kane	1,000	900	1.8	1.9	1,800	1,700
Piute	2,300	2,400	2.6	2.5	6,000	6,100
Washington	2,000	2,100	2.4	2.2	4,800	4,700
Wayne	1,600	1,600	2.8	2.7	4,400	4,300
Total	17,000	17,000	2.6	2.6	45,000	44,000
State						
Total	165,000	160,000	2.3	2.3	380,000	368,000

County Estimates: Other Hay, All Cropping Practices, Utah, 1996 & 1997 (final)

District and County	Acres Harvested		Harvested Yield		Production	
	1996	1997	1996	1997	1996	1997
	..... Acres .....			..... Bushels		
Northern						
Box Elder	9,800	10,200	2.1	2.1	20,600	21,400
Cache	9,600	10,000	2.3	2.4	22,000	24,000
Davis	1,800	2,000	2.3	2.1	4,200	4,200
Morgan	1,900	1,800	2.7	2.0	5,100	3,600
Rich	38,000	40,500	1.6	1.7	60,000	69,900
Salt Lake	1,600	1,400	2.1	2.3	3,400	3,200
Tooele	2,700	2,500	1.8	2.0	4,900	5,100
Weber	2,600	3,100	2.2	2.1	5,800	6,600
Total	68,000	71,500	1.9	1.9	126,000	138,000
Central						
Juab	3,800	4,300	1.7	1.5	6,500	6,600
Millard	5,200	5,900	2.1	2.3	10,900	13,800
Sanpete	11,300	12,900	2.1	2.3	24,000	30,300
Sevier	3,400	3,500	2.4	2.8	8,100	9,900
Utah	8,800	8,900	2.1	2.4	18,500	21,400
Total	32,500	35,500	2.1	2.3	68,000	82,000
Eastern						
Carbon	1,000	1,300	2.1	1.9	2,100	2,500
Daggett	2,700	3,200	2.6	1.5	7,000	4,900
Duchesne	14,700	14,800	2.5	2.5	36,800	36,900
Emery	2,900	2,700	2.2	2.6	6,400	7,100
Grand	200	600	2.5	3.0	500	1,800
San Juan	1,000	1,400	2.0	2.6	2,000	3,700
Summit	9,900	11,000	2.5	2.2	24,800	24,300
Uintah	6,800	7,800	2.4	2.4	16,000	18,500
Wasatch	1,800	1,700	2.4	2.5	4,400	4,300
Total	41,000	44,500	2.4	2.3	100,000	104,000
Southern						
Beaver	3,500	3,100	2.9	2.7	10,000	8,400
Garfield	2,900	2,900	2.1	2.2	6,100	6,500
Iron	4,500	4,800	2.1	3.3	9,500	15,800
Kane	700	1,000	2.0	1.8	1,400	1,800
Piute	2,600	2,900	2.2	2.5	5,800	7,300
Washington	2,400	2,100	2.1	2.6	5,000	5,400
Wayne	1,900	1,700	2.2	2.8	4,200	4,800
Total	18,500	18,500	2.3	2.7	42,000	50,000
State						
Total	160,000	170,000	2.1	2.2	336,000	374,000

County Estimates: Other Hay, All Cropping Practices, Utah, 1994 & 1995 (final)

District and County	Acres Harvested		Harvested Yield		Production	
	1994	1995	1994	1995	1994	1995
	..... Acres .....			..... Bushels		
Northern						
Box Elder	9,800	9,400	1.7	2.1	17,100	19,300
Cache	9,400	8,900	1.8	2.3	17,300	20,600
Davis	2,600	2,200	2.6	1.9	6,800	4,200
Morgan	2,300	1,900	2.3	2.6	5,200	4,900
Rich	37,900	36,100	1.7	1.6	63,400	58,600
Salt Lake	1,600	1,500	2.3	1.6	3,600	2,400
Tooele	2,600	2,700	1.6	1.6	4,200	4,300
Weber	2,800	2,300	2.6	2.0	7,400	4,700
Total	69,000	65,000	1.8	1.8	125,000	119,000
Central						
Juab	3,000	3,300	2.3	2.1	6,800	6,800
Millard	5,300	4,900	1.9	1.8	10,100	9,000
Sanpete	9,800	9,800	2.0	1.6	19,800	16,000
Sevier	3,900	3,200	2.0	2.0	7,700	6,400
Utah	9,000	8,800	2.2	2.3	19,600	19,800
Total	31,000	30,000	2.1	1.9	64,000	58,000
Eastern						
Carbon	1,100	1,100	1.9	1.5	2,100	1,700
Daggett	2,900	2,600	1.9	2.2	5,400	5,800
Duchesne	16,200	14,700	2.0	2.3	33,200	34,400
Emery	2,700	2,900	2.1	1.8	5,600	5,100
Grand	400	300	2.3	2.3	900	700
San Juan	1,000	800	2.0	2.1	2,000	1,700
Summit	9,000	8,700	2.4	2.5	21,900	21,400
Uintah	6,700	6,400	2.0	2.4	13,100	15,600
Wasatch	2,000	1,500	2.4	2.4	4,800	3,600
Total	42,000	39,000	2.1	2.3	89,000	90,000
Southern						
Beaver	3,300	3,100	2.5	2.6	8,400	8,200
Garfield	3,200	2,600	2.4	1.7	7,800	4,400
Iron	4,200	3,900	2.3	1.8	9,600	7,000
Kane	700	500	2.3	2.0	1,600	1,000
Piute	2,600	2,300	2.2	2.3	5,600	5,300
Washington	2,000	1,700	2.3	2.0	4,600	3,400
Wayne	2,000	1,900	2.2	1.9	4,400	3,700
Total	18,000	16,000	2.3	2.1	42,000	33,000
State						
Total	160,000	150,000	2.0	2.0	320,000	300,000

County Estimates: Other Hay, All Cropping Practices, Utah, 1992 & 1993 (final)

District and County	Acres Harvested		Harvested Yield		Production	
	1992	1993	1992	1993	1992	1993
	.....Acres.....		.....Tons.....			
Northern						
Box Elder	8,000	9,600	1.9	1.9	15,000	18,400
Cache	9,000	9,000	1.9	1.9	16,800	17,100
Davis	1,900	1,800	2.5	2.7	4,800	4,900
Morgan	1,900	2,100	2.1	2.4	4,000	5,000
Rich	35,400	35,200	1.4	1.8	50,500	62,000
Salt Lake	1,100	1,400	2.6	2.4	2,800	3,400
Tooele	2,100	2,200	1.9	1.7	4,000	3,800
Weber	2,600	2,700	2.5	2.7	6,500	7,400
Total	62,000	64,000	1.7	1.9	104,400	122,000
Central						
Juab	1,500	2,500	2.0	2.4	3,000	6,000
Millard	4,000	4,700	2.6	2.2	10,500	10,500
Sanpete	9,000	8,900	2.1	2.3	18,600	20,800
Sevier	3,000	3,600	2.7	2.4	8,000	8,500
Utah	9,500	8,800	2.1	2.4	19,800	21,200
Total	27,000	28,500	2.2	2.4	59,900	67,000
Eastern						
Carbon	500	700	1.8	2.1	900	1,500
Daggett	3,000	2,800	1.9	2.0	5,600	5,600
Duchesne	13,500	16,400	2.0	2.2	26,500	36,800
Emery	1,900	2,200	2.0	2.1	3,800	4,600
Grand	500	600	2.0	2.5	1,000	1,500
San Juan	800	800	1.8	2.1	1,400	1,700
Summit	8,000	8,500	2.2	2.5	17,600	21,500
Uintah	4,300	5,500	2.1	2.2	8,800	12,200
Wasatch	2,000	2,000	2.5	2.8	5,000	5,600
Total	34,500	39,500	2.1	2.3	70,600	91,000
Southern						
Beaver	4,100	3,200	2.9	3.3	11,800	10,700
Garfield	2,400	3,600	2.5	2.7	6,000	9,800
Iron	3,200	4,300	3.2	2.8	10,200	12,000
Kane	800	800	2.4	2.6	1,900	2,100
Piute	2,600	2,800	2.5	2.3	6,400	6,400
Washington	1,400	1,400	2.7	2.8	3,800	3,900
Wayne	2,000	1,900	2.5	2.7	5,000	5,100
Total	16,500	18,000	2.7	2.8	45,100	50,000
State						
Total	140,000	150,000	2.0	2.2	280,000	330,000

County Estimates: All Hay, All Cropping Practices, Utah, 1998 (revised) & 1999

District and County	Acres Harvested		Harvested Yield per Acre		Production	
	1998	1999	1998	1999	1998	1999
	..... Acres .....			..... Tons		
Northern						
Box Elder	63,000	59,900	4.2	4.3	267,300	259,100
Cache	63,700	63,900	3.7	3.7	234,200	234,800
Davis	8,200	8,300	4.1	4.0	33,700	33,500
Morgan	9,800	10,000	3.7	3.6	36,100	36,100
Rich	49,900	48,300	2.1	2.1	104,000	101,000
Salt Lake	7,800	8,000	3.9	3.9	30,800	31,200
Tooele	14,600	15,000	3.9	3.7	56,900	55,600
Weber	17,500	17,600	4.4	4.4	77,000	76,700
Total	234,500	231,000	3.6	3.6	840,000	828,000
Central						
Juab	20,400	19,500	3.7	3.7	75,000	72,100
Millard	62,900	63,100	4.8	4.7	301,400	296,300
Sanpete	46,300	45,400	3.9	4.0	182,800	180,000
Sevier	27,700	27,100	4.6	4.6	127,000	125,700
Utah	39,200	38,900	4.1	4.0	160,800	155,900
Total	196,500	194,000	4.3	4.3	847,000	830,000
Eastern						
Carbon	5,800	5,900	3.4	3.3	19,600	19,500
Daggett	6,100	5,900	2.8	2.9	17,200	17,300
Duchesne	53,300	50,300	3.6	3.8	189,400	188,800
Emery	18,000	17,800	3.6	3.6	64,200	64,000
Grand	2,600	2,600	4.3	4.3	11,300	11,300
San Juan	7,900	8,300	2.9	2.8	23,200	23,100
Summit	17,800	18,100	2.8	2.6	49,000	47,100
Uintah	36,100	36,300	4.2	4.1	150,600	149,400
Wasatch	7,400	7,800	4.0	3.8	29,500	29,500
Total	155,000	153,000	3.6	3.6	554,000	550,000
Southern						
Beaver	27,400	27,200	4.6	4.7	125,500	127,400
Garfield	12,900	12,900	3.3	3.3	43,000	42,900
Iron	49,300	47,700	4.8	4.9	235,500	234,900
Kane	3,500	3,600	3.4	3.3	11,800	11,700
Piute	9,600	9,400	3.4	3.4	33,000	32,100
Washington	9,800	10,100	4.5	4.2	43,800	42,700
Wayne	11,500	11,100	3.9	4.0	44,400	44,300
Total	124,000	122,000	4.3	4.4	537,000	536,000
State						
Total	710,000	700,000	3.9	3.9	2,778,000	2,744,000

County Estimates: All Hay, All Cropping Practices, Utah, 1996 & 1997 (final)

District and County	Acres Harvested		Harvested Yield per Acre		Production	
	1996	1997	1996	1997	1996	1997
	..... Acres .....			..... Tons		
Northern						
Box Elder	61,600	63,100	3.8	4.3	233,300	270,600
Cache	64,400	65,000	3.5	3.6	224,800	236,200
Davis	8,400	8,300	3.6	4.0	29,900	33,400
Morgan	10,100	10,200	3.3	3.2	33,800	33,000
Rich	49,400	51,500	1.8	2.0	87,400	100,900
Salt Lake	8,400	7,600	3.6	4.1	29,900	31,000
Tooele	14,000	14,600	3.3	3.8	45,600	54,900
Weber	16,700	17,200	4.1	4.1	69,300	70,000
Total	233,000	237,500	3.2	3.5	754,000	830,000
Central						
Juab	20,600	21,400	3.3	3.5	67,000	75,200
Millard	67,200	64,200	4.2	4.8	284,400	307,300
Sanpete	46,000	48,000	3.7	3.9	169,700	185,800
Sevier	25,400	26,700	4.2	4.4	107,100	116,600
Utah	39,300	37,200	4.0	4.0	155,800	149,100
Total	198,500	197,500	3.9	4.2	784,000	834,000
Eastern						
Carbon	5,800	5,800	3.1	3.4	17,900	19,800
Daggett	5,800	6,700	2.8	2.5	16,300	16,500
Duchesne	49,500	51,100	3.2	3.6	158,100	181,500
Emery	17,600	18,000	3.0	3.5	52,000	63,700
Grand	2,600	3,100	4.7	4.1	12,300	12,600
San Juan	7,100	7,900	2.4	2.9	16,700	23,200
Summit	17,700	19,700	2.5	2.5	45,100	49,500
Uintah	36,100	38,200	3.5	4.1	127,300	154,900
Wasatch	8,800	8,000	3.4	3.3	30,300	26,300
Total	151,000	158,500	3.2	3.5	476,000	548,000
Southern						
Beaver	27,300	25,700	4.3	4.4	117,600	113,000
Garfield	12,700	14,000	3.0	3.1	38,400	43,400
Iron	46,700	47,600	4.6	4.9	216,300	233,900
Kane	3,900	3,800	2.8	2.7	11,000	10,300
Piute	9,800	10,000	3.5	3.2	33,900	32,300
Washington	10,600	8,500	4.3	3.6	46,000	30,600
Wayne	11,500	11,900	3.4	3.6	38,800	42,500
Total	122,500	121,500	4.1	4.2	502,000	506,000
State						
Total	705,000	715,000	3.6	3.8	2,516,000	2,718,000

County Estimates: All Hay, All Cropping Practices, Utah, 1994 & 1995 (final)

District and County	Acres Harvested		Harvested Yield per Acre		Production	
	1994	1995	1994	1995	1994	1995
	..... Acres .....			..... Tons		
Northern						
Box Elder	59,800	61,700	3.9	3.9	232,600	241,600
Cache	61,900	63,700	3.7	3.9	230,500	245,300
Davis	9,800	8,800	4.1	3.8	39,700	33,600
Morgan	9,900	9,900	3.2	3.4	31,900	33,500
Rich	48,600	48,000	1.9	1.9	91,700	89,200
Salt Lake	9,200	8,900	4.1	3.6	37,900	31,800
Tooele	13,400	13,600	3.4	3.3	45,000	45,400
Weber	16,400	16,400	4.6	4.2	74,700	69,600
Total	229,000	231,000	3.4	3.4	784,000	790,000
Central						
Juab	16,900	18,800	3.6	3.6	61,000	68,600
Millard	67,900	68,300	4.4	4.6	298,100	315,000
Sanpete	42,400	44,000	3.8	3.8	161,300	166,800
Sevier	26,000	26,500	4.4	4.6	113,800	122,400
Utah	39,800	39,400	4.0	4.0	158,800	157,200
Total	193,000	197,000	4.1	4.2	793,000	830,000
Eastern						
Carbon	6,000	6,000	3.4	3.1	20,100	18,600
Daggett	5,900	5,600	2.5	2.7	14,600	15,300
Duchesne	49,400	49,500	3.3	3.5	160,900	174,100
Emery	17,200	17,500	3.1	3.1	53,700	54,000
Grand	2,300	2,700	4.3	5.2	9,800	14,100
San Juan	6,200	6,600	2.8	2.8	17,300	18,600
Summit	17,100	16,500	2.5	2.6	42,800	42,700
Uintah	33,600	35,200	3.4	4.1	114,500	142,900
Wasatch	9,300	8,400	3.3	3.9	30,300	32,700
Total	147,000	148,000	3.2	3.5	464,000	513,000
Southern						
Beaver	26,700	27,400	4.4	4.6	117,900	126,700
Garfield	12,700	12,400	3.1	3.2	39,900	39,900
Iron	40,500	43,400	4.6	4.7	188,200	205,900
Kane	4,200	3,700	3.2	3.4	13,300	12,600
Piute	9,000	9,500	3.3	3.5	30,100	33,200
Washington	11,600	10,700	4.7	4.7	54,500	49,800
Wayne	11,300	11,900	3.5	3.6	40,100	42,900
Total	116,000	119,000	4.2	4.3	484,000	511,000
State						
Total	685,000	695,000	3.7	3.8	2,525,000	2,644,000

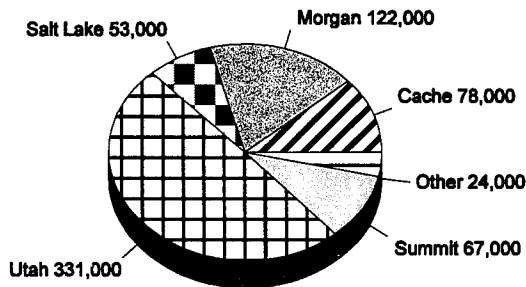
County Estimates: All Hay, All Cropping Practices, Utah, 1992 & 1993 (final)

District and County	Acres Harvested		Harvested Yield per Acre		Production	
	1992	1993	1992	1993	1992	1993
	..... Acres .....			..... Tons		
Northern						
Box Elder	47,000	55,800	3.8	4.1	177,000	228,400
Cache	58,000	57,500	3.5	3.8	201,900	221,100
Davis	8,400	8,000	4.1	4.4	34,600	35,100
Morgan	8,900	8,900	3.2	3.7	28,500	32,800
Rich	45,400	45,400	1.8	2.0	79,500	92,600
Salt Lake	11,100	10,200	4.2	4.2	46,500	42,900
Tooele	13,600	12,400	3.3	3.7	44,700	46,400
Weber	15,600	15,800	4.2	4.8	66,000	75,700
Total	208,000	214,000	3.3	3.6	678,700	775,000
Central						
Juab	14,000	15,700	3.1	3.7	43,300	57,500
Millard	69,000	64,900	4.4	4.5	302,100	290,800
Sanpete	38,000	39,900	3.4	4.0	128,400	160,300
Sevier	23,500	26,100	4.4	4.6	104,000	121,000
Utah	36,500	37,900	3.8	4.3	140,000	164,400
Total	181,000	184,500	4.0	4.3	717,800	794,000
Eastern						
Carbon	5,100	5,900	3.0	3.5	15,500	20,800
Daggett	5,000	5,400	2.3	2.8	11,600	15,000
Duchesne	42,100	48,500	3.0	3.4	127,000	167,100
Emery	14,700	16,200	2.9	3.4	42,400	55,000
Grand	2,300	2,500	3.5	4.2	8,000	10,600
San Juan	5,700	5,600	2.2	2.8	12,700	15,700
Summit	15,800	16,700	2.3	2.8	36,600	46,000
Uintah	28,800	29,700	3.5	4.0	100,900	117,500
Wasatch	9,000	9,000	3.5	4.1	31,200	37,300
Total	128,500	139,500	3.0	3.5	385,900	485,000
Southern						
Beaver	28,100	25,300	4.3	4.8	120,800	122,100
Garfield	11,900	13,800	3.0	3.2	36,000	44,300
Iron	37,200	37,800	4.6	4.7	170,200	176,200
Kane	3,600	3,500	3.5	3.7	12,600	12,900
Piute	10,300	9,900	3.2	3.4	32,900	33,500
Washington	9,900	10,200	4.7	4.5	46,300	46,400
Wayne	11,500	11,500	3.4	3.5	38,800	40,600
Total	112,500	112,000	4.1	4.3	457,600	476,000
State						
Total	630,000	650,000	3.6	3.9	2,240,000	2,530,000

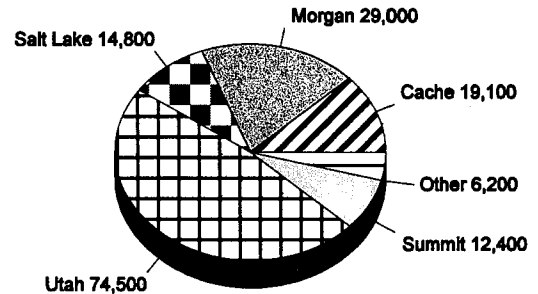
**County Estimates: Utah Mink Pelts Produced 1997-98
Females Bred to Produce Kits 1998 (revised) and 1999**

District and County	Pelts Produced		Females Bred to Produce Kits	
	1997	1998	1998	1999
Number				
Northern				
Cache	70,000	78,000	20,100	19,100
Morgan	128,000	122,000	34,400	29,000
Salt Lake	73,000	53,000	15,000	14,800
Other Counties	10,000	16,000	2,800	4,200
Total	281,000	269,000	72,300	67,100
Central				
Utah	326,000	331,000	83,100	74,500
Other Counties	13,000	8,000	2,100	2,000
Total	339,000	339,000	85,200	76,500
Eastern				
Summit	48,000	67,000	17,500	12,400
Other Counties	2,000			
Total	50,000	67,000	17,500	12,400
State				
Total	670,000	675,000	175,000	156,000

**Mink Pelts Produced
by County, Utah, 1998**

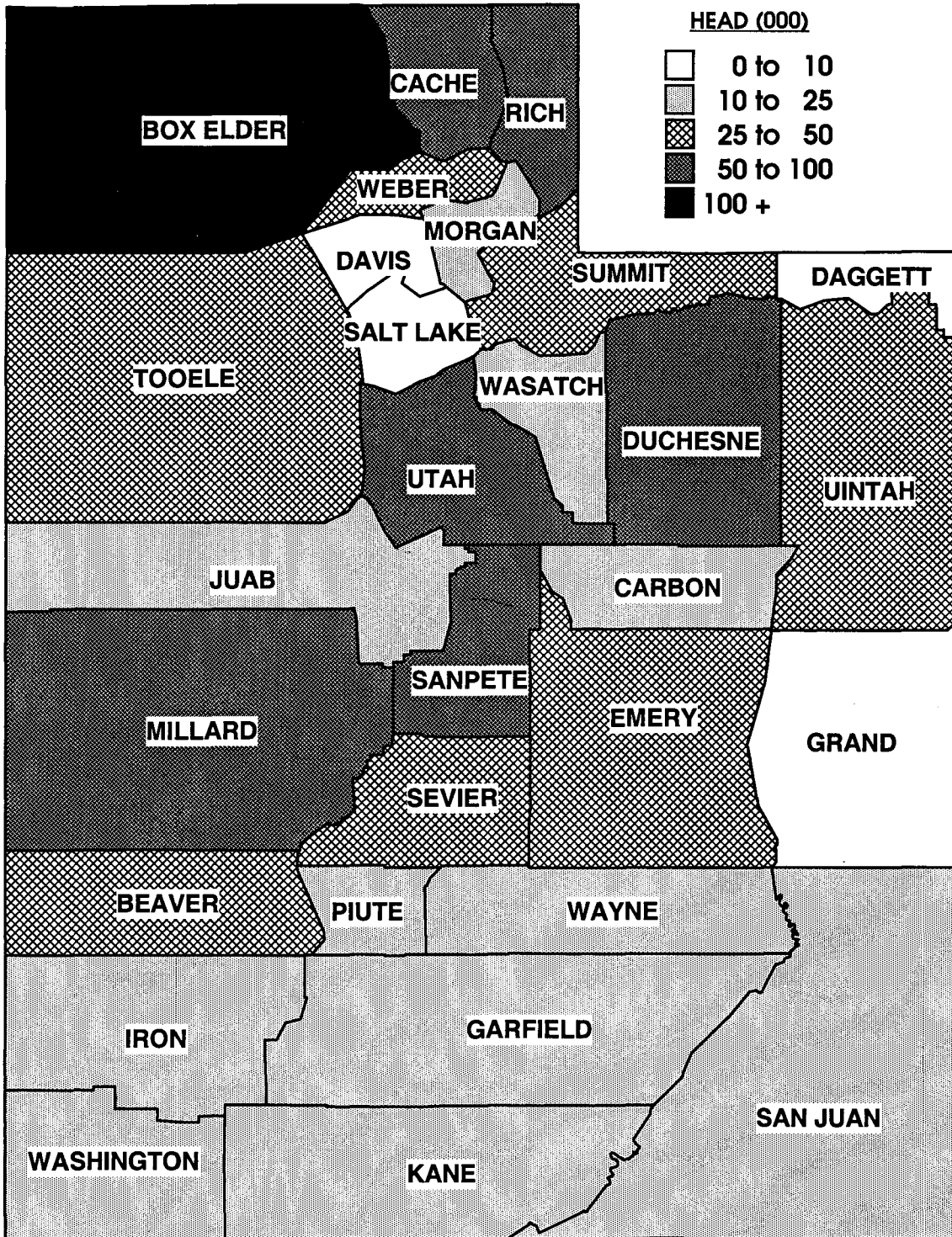


**Females Bred to Produce Kit
by County, Utah, 1999**



UTAH ALL CATTLE INVENTORY

By County, January 1, 2000



County Estimates: All Cattle, Utah, January 1, 1993 - January 1, 2000 (revised)

District and County	1993	1994	1995	1996	1997	1998	1999	2000
Number								
Northern								
Box Elder	82,000	92,000	99,000	100,000	102,000	101,500	106,000	110,000
Cache	73,000	73,000	77,000	77,000	78,000	76,000	71,000	70,000
Davis	18,000	12,000	12,000	10,000	10,000	9,000	9,000	8,000
Morgan	9,000	9,000	10,000	10,000	11,000	11,000	10,000	11,000
Rich	48,000	47,000	50,000	52,000	53,000	53,000	56,000	55,000
Salt Lake	14,000	10,000	9,000	9,000	9,000	8,000	8,000	8,000
Tooele	17,000	18,000	19,000	20,000	20,000	20,000	22,000	27,000
Weber	30,000	29,000	29,000	29,000	30,000	28,500	28,000	26,000
Total	291,000	290,000	305,000	307,000	313,000	307,000	310,000	315,000
Central								
Juab	14,000	16,000	17,000	17,000	18,000	17,000	16,000	18,000
Millard	59,000	64,000	64,000	64,000	66,000	64,000	61,000	66,000
Sanpete	50,000	48,000	50,000	54,000	55,000	54,500	52,500	55,000
Sevier	49,000	47,000	48,000	48,000	48,000	45,500	44,000	43,000
Utah	59,000	59,000	61,000	65,000	66,000	65,000	61,500	63,000
Total	231,000	234,000	240,000	248,000	253,000	246,000	235,000	245,000
Eastern								
Carbon	9,000	10,000	10,000	10,000	11,000	10,000	10,000	12,000
Daggett	4,000	4,000	3,000	4,000	4,000	4,000	4,000	4,500
Duchesne	58,000	59,000	61,000	62,000	63,000	62,000	58,000	63,500
Emery	25,000	26,000	27,000	28,000	29,000	28,500	27,000	27,000
Grand	3,000	4,000	4,000	4,000	4,000	4,000	3,000	2,500
San Juan	19,000	18,000	19,000	21,000	23,000	22,000	21,000	18,000
Summit	19,000	24,000	26,000	28,000	30,000	29,500	25,000	26,500
Uintah	43,000	50,000	50,000	51,000	50,000	50,500	48,000	46,000
Wasatch	11,000	11,000	10,000	10,000	10,000	9,500	9,000	10,000
Total	191,000	206,000	210,000	218,000	224,000	220,000	205,000	210,000
Southern								
Beaver	37,000	31,000	32,000	33,000	33,000	33,000	36,000	37,000
Garfield	20,000	22,000	22,000	22,000	23,000	21,500	21,000	21,000
Iron	21,000	21,000	22,000	22,000	22,000	22,000	22,000	24,000
Kane	11,000	10,000	10,000	10,000	11,000	10,500	10,000	10,000
Piute	10,000	12,000	12,000	12,000	12,000	11,500	11,000	11,000
Washington	18,000	16,000	17,000	17,000	18,000	17,500	18,000	17,000
Wayne	20,000	18,000	20,000	21,000	21,000	21,000	22,000	20,000
Total	137,000	130,000	135,000	137,000	140,000	137,000	140,000	140,000
State								
Total	850,000	860,000	890,000	910,000	930,000	910,000	890,000	910,000

County Estimates: Beef Cows, Utah, January 1, 1993 - January 1, 2000 (revised)

District and County	1993	1994	1995	1996	1997	1998	1999	2000
Number								
Northern								
Box Elder	28,000	33,000	31,500	33,000	34,500	35,500	35,000	39,000
Cache	6,900	9,000	9,000	9,000	9,000	9,000	8,500	7,500
Davis	6,200	3,500	3,500	3,000	3,000	3,000	3,000	3,000
Morgan	3,000	3,500	3,500	4,000	4,000	4,500	4,000	4,500
Rich	30,000	28,000	29,000	29,000	30,000	31,500	29,500	33,000
Salt Lake	4,800	3,500	3,500	3,000	3,000	3,000	3,000	3,500
Tooele	12,200	11,500	12,000	12,500	12,000	12,500	12,000	13,500
Weber	5,900	6,000	6,000	5,500	5,500	5,000	5,000	5,000
Total	97,000	98,000	98,000	99,000	101,000	104,000	100,000	109,000
Central								
Juab	7,300	9,000	8,500	8,500	8,000	7,000	7,000	8,000
Millard	21,500	20,000	19,500	19,000	19,500	18,000	17,500	19,500
Sanpete	15,500	16,500	16,500	17,500	18,000	18,000	17,000	18,500
Sevier	13,400	11,500	11,500	12,000	12,000	11,500	11,000	11,000
Utah	19,300	20,000	20,000	20,000	20,500	19,500	18,500	21,000
Total	77,000	77,000	76,000	77,000	78,000	74,000	71,000	78,000
Eastern								
Carbon	6,400	6,500	6,000	6,000	6,000	6,000	5,500	6,000
Daggett	2,100	2,000	2,000	2,000	2,500	2,500	2,000	2,000
Duchesne	31,100	30,500	30,000	31,000	31,000	33,000	30,000	32,000
Emery	13,000	14,000	14,000	14,500	14,000	14,000	13,000	13,500
Grand	2,500	2,500	2,500	2,000	2,000	2,000	2,000	1,500
San Juan	13,300	10,500	10,500	11,000	11,500	12,000	11,000	12,000
Summit	9,600	9,500	11,000	12,000	13,500	15,000	13,500	14,000
Uintah	23,800	28,000	28,000	27,000	27,000	27,000	24,500	23,000
Wasatch	3,200	3,500	3,000	2,500	2,500	2,500	2,500	3,000
Total	105,000	107,000	107,000	108,000	110,000	114,000	104,000	107,000
Southern								
Beaver	12,200	13,000	12,500	13,000	13,000	12,000	11,500	12,000
Garfield	12,000	12,500	13,000	13,000	12,500	11,500	11,000	11,500
Iron	9,700	9,000	9,500	10,000	10,000	9,500	9,000	10,000
Kane	5,800	6,000	6,000	6,500	6,500	6,500	6,000	6,000
Piute	5,900	5,000	5,500	5,500	5,500	5,000	5,000	4,500
Washington	9,600	8,500	8,500	9,000	9,500	9,500	9,000	8,500
Wayne	10,800	9,000	9,000	9,000	9,000	9,000	8,500	8,500
Total	66,000	63,000	64,000	66,000	66,000	63,000	60,000	61,000
State								
Total	345,000	345,000	345,000	350,000	355,000	355,000	335,000	355,000

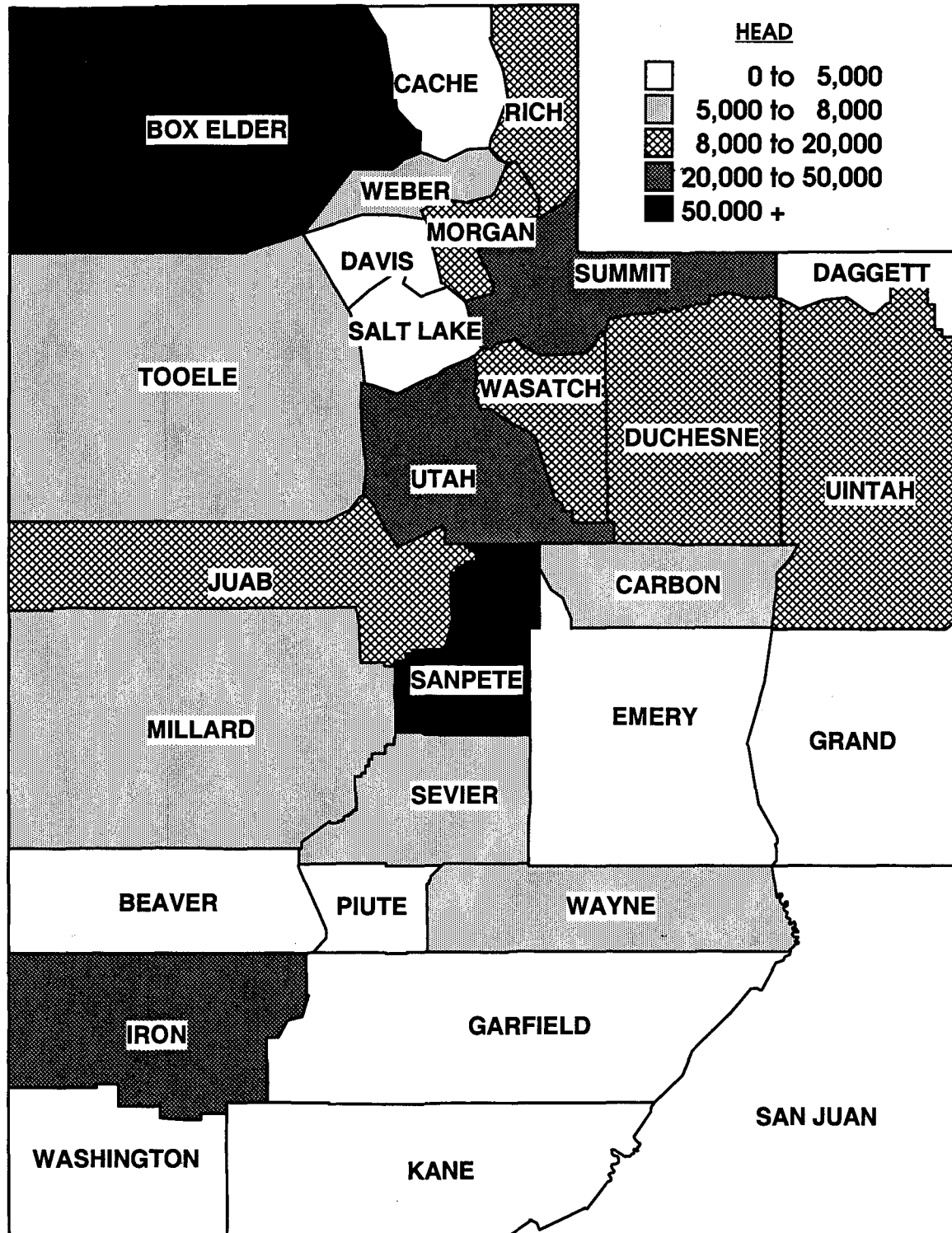
County Estimates: Milk Cows, Utah, January 1, 1993 - January 1, 2000 (revised) 1/

District and County	1993	1994	1995	1996	1997	1998	1999	2000
Number								
Northern								
Box Elder	8,600	8,500	8,500	9,000	8,500	8,500	9,000	10,500
Cache	20,900	22,500	23,000	23,500	24,000	23,500	25,500	24,500
Davis	1,600	1,000	1,000	1,000	1,000	1,000	500	500
Morgan	1,600	1,500	1,500	1,500	1,500	1,500	1,500	1,000
Rich								
Salt Lake	2,200	1,500	1,000	1,000	1,000	1,000	1,000	1,000
Tooele								
Weber	6,700	6,500	6,500	6,000	6,000	6,000	6,000	5,500
Other counties	400	500	500	500	500	500	500	500
Total	42,000	42,000	42,000	42,500	42,500	42,000	44,000	43,500
Central								
Juab								
Millard			6,000	9,000	10,000	10,500	11,000	11,000
Sanpete	6,400	6,500	6,500	6,500	6,500	6,500	6,500	7,000
Sevier	3,700	3,500						
Utah	8,000	8,500	9,000	9,000	9,000	8,500	9,000	8,500
Other counties	2,900	3,500	4,500	5,000	4,500	4,500	5,500	5,500
Total	21,000	22,000	26,000	29,500	30,000	30,000	32,000	32,000
Eastern								
Carbon								
Daggett								
Duchesne	2,900	3,000	3,000	3,000	2,500	2,500	3,000	3,000
Emery	700			500	500		1,000	1,000
Grand								
San Juan								
Summit	1,900	1,500	1,500	1,500	1,500	1,500	1,500	1,500
Uintah	1,900	1,500	1,500	1,500	1,500	1,500	1,500	2,000
Wasatch	2,400	1,500	1,500	1,500	1,500	1,500	1,500	1,000
Other counties	200	1,000	1,000	500	500	1,000	500	500
Total	10,000	8,500	8,500	8,500	8,000	8,000	9,000	9,000
Southern								
Beaver	2,900	3,000	3,000	3,000	3,000	3,000	3,500	4,000
Garfield								
Iron	1,000	1,500	1,500	2,500	2,500	3,000	2,500	2,000
Kane								
Piute	1,600	1,500	2,000	2,000	2,000	2,000	2,000	2,000
Washington	500							
Wayne	600	1,000	1,500	1,500	1,500	1,500	1,500	2,000
Other counties	400	500	500	500	500	500	500	500
Total	7,000	7,500	8,500	9,500	9,500	10,000	10,000	10,500
State								
Total	80,000	80,000	85,000	90,000	90,000	90,000	95,000	95,000

1/ Counties with missing data are included in the appropriate district's "Other Counties".

UTAH BREEDING SHEEP INVENTORY

By County, January 1, 2000

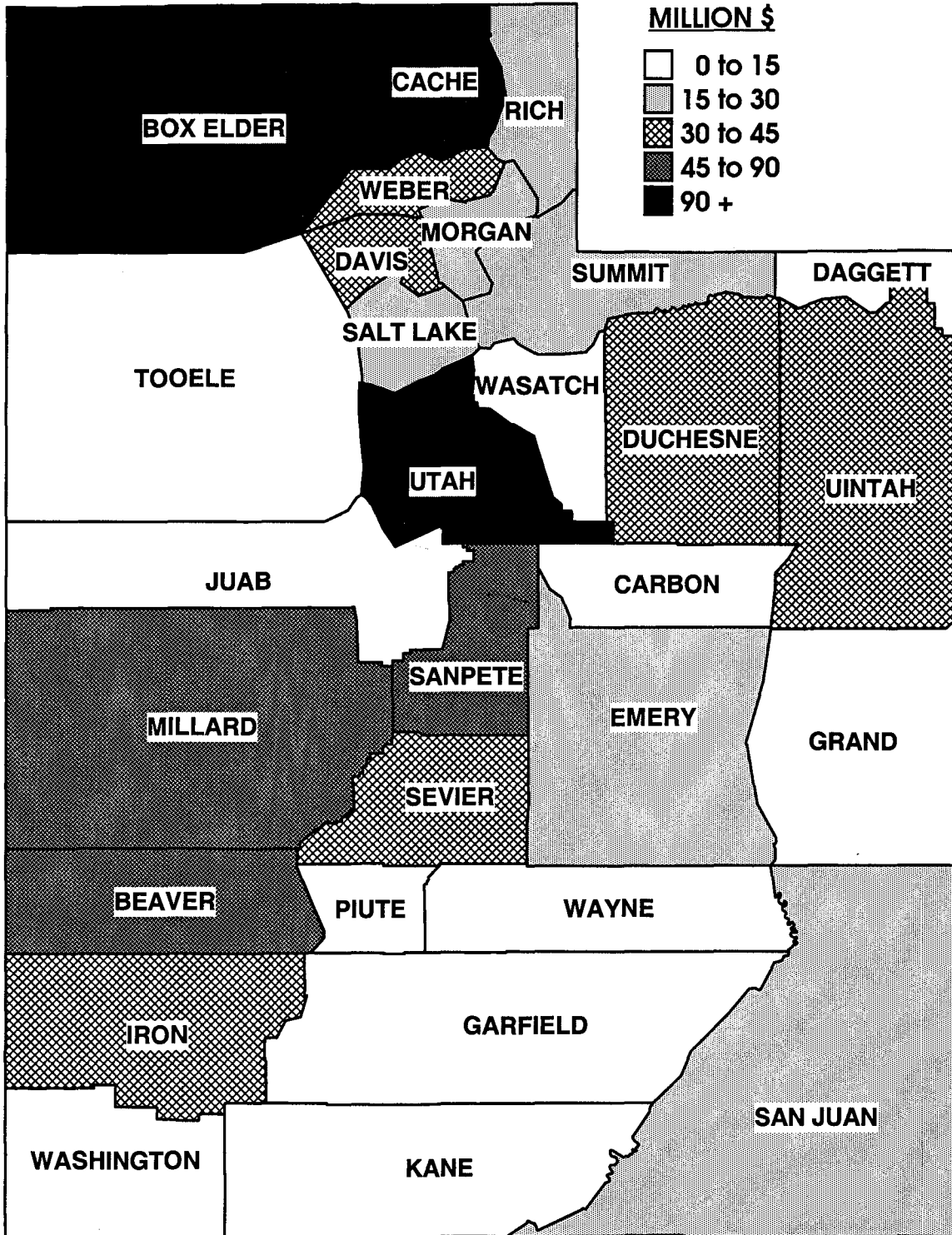


County Estimates: Breeding Sheep and Lambs, Utah, January 1, 1993 - January 1, 2000 ^{1/}

District and County	1993	1994	1995	1996	1997	1998	1999	2000
Number								
Northern								
Box Elder	40,000	50,000	46,000	53,500	58,000	61,500	58,500	57,500
Cache	5,600	6,500	5,000	5,000	4,500	4,000	4,000	3,600
Davis	13,000	5,000	4,000	4,000	4,000	3,500	3,500	2,900
Morgan	14,200	17,000	15,500	16,000	16,000	16,500	15,500	14,500
Rich	13,400	16,000	13,500	13,000	12,000	10,000	9,500	13,500
Salt Lake	26,300	9,000	7,000	5,500	4,500	4,000	4,000	3,500
Tooele	10,000	19,000	17,000	14,000	10,000	6,500	6,500	6,000
Weber	8,500	7,500	6,000	7,000	7,000	7,000	6,500	5,500
Total	131,000	130,000	114,000	118,000	116,000	113,000	108,000	107,000
Central								
Juab	4,800	13,500	13,000	12,000	11,500	10,000	9,500	8,500
Millard	4,800	6,000	6,500	8,000	8,500	8,500	8,000	6,900
Sanpete	82,600	79,000	67,000	63,000	63,000	62,000	59,000	65,500
Sevier	10,400	9,500	8,000	6,500	5,500	4,000	4,000	5,000
Utah	51,400	42,000	36,500	37,500	37,500	36,500	34,500	32,100
Total	154,000	150,000	131,000	127,000	126,000	121,000	115,000	118,000
Eastern								
Carbon	7,400	7,500	7,000	7,000	7,500	7,500	7,000	5,800
Daggett	700	500			500	500	500	500
Duchesne	13,000	12,000	11,000	10,000	9,500	9,000	9,000	10,000
Emery	7,500	6,500	6,000	6,000	6,000	6,000	5,500	4,400
Grand	1,000	3,000	3,500	3,500	3,000	2,500	2,500	2,500
San Juan	2,500	1,000			2,000	2,000	2,000	2,000
Summit	32,700	35,500	35,000	36,000	37,000	37,000	32,500	30,700
Uintah	20,700	19,500	17,000	16,000	15,500	14,500	14,000	12,500
Wasatch	13,500	14,500	14,000	14,000	14,000	14,000	14,000	16,600
Other Counties			1,500	2,500				
Total	99,000	100,000	95,000	95,000	95,000	93,000	87,000	85,000
Southern								
Beaver	600							
Garfield	2,900	3,000	3,000	3,000	2,500	2,000	2,000	2,000
Iron	45,500	43,000	40,000	41,000	42,000	40,000	36,500	35,400
Kane	1,600	3,500	3,000	2,500	2,000	1,000	1,000	1,000
Piute	5,300	4,500	4,000	4,000	3,000	2,500	3,000	4,000
Washington	600							
Wayne	9,500	8,500	8,000	8,000	7,500	7,500	7,000	7,000
Other counties		2,500	2,000	1,500	1,000		500	600
Total	66,000	65,000	60,000	60,000	58,000	53,000	50,000	50,000
State								
Total	450,000	445,000	400,000	400,000	395,000	380,000	360,000	360,000

^{1/} Counties with missing data are included in the appropriate district's "Other Counties".

UTAH CASH RECEIPTS FROM FARMING By County, 1998



County Estimates: Cash Receipts from Farming, by County - 1997 Revised, 1998 Preliminary

District and County	Livestock and Livestock Products		Crops		Total	
	1997	1998	1997	1998	1997	1998
Million Dollars						
Northern						
Box Elder	64.2	61.9	39.4	37.3	103.6	99.2
Cache	84.4	93.2	18.9	17.8	103.3	111.0
Davis	12.6	9.8	27.4	29.1	40.0	38.9
Morgan	11.2	13.1	2.1	1.9	13.3	15.0
Rich	18.4	19.7	4.8	4.4	23.2	24.1
Salt Lake	24.9	17.5	11.3	11.2	36.2	28.7
Tooele	11.2	10.5	3.6	3.1	14.8	13.6
Weber	28.9	29.3	7.8	7.9	36.7	37.2
Total	255.8	255.0	115.3	112.7	371.1	367.7
Central						
Juab	5.6	10.8	4.4	4.0	10.0	14.8
Millard	37.8	49.9	24.2	22.2	62.0	72.1
Sanpete	76.3	77.3	9.9	9.2	86.2	86.5
Sevier	34.0	26.7	6.6	5.9	40.6	32.6
Utah	68.5	74.6	30.5	30.5	99.0	105.1
Total	222.2	239.3	75.6	71.8	297.8	311.1
Eastern						
Carbon	4.1	4.8	1.2	1.1	5.3	5.9
Daggett	1.9	1.9	0.7	0.6	2.6	2.5
Duchesne	33.3	30.1	8.9	8.0	42.2	38.1
Emery	15.5	11.8	3.8	3.4	19.3	15.2
Grand	5.1	6.2	1.2	1.1	6.3	7.3
San Juan	8.5	9.0	8.0	7.1	16.5	16.1
Summit	13.3	19.6	2.2	2.0	15.5	21.6
Uintah	23.7	25.0	7.6	6.8	31.3	31.8
Wasatch	9.2	8.4	1.6	1.6	10.8	10.0
Total	114.6	116.8	35.2	31.7	149.8	148.5
Southern						
Beaver	58.7	63.3	5.8	5.8	64.5	69.1
Garfield	8.8	8.3	2.0	1.8	10.8	10.1
Iron	12.7	17.8	13.7	12.8	26.4	30.6
Kane	4.8	4.3	0.5	0.5	5.3	4.8
Piute	7.8	9.3	1.7	1.6	9.5	10.9
Washington	9.6	9.5	3.8	4.0	13.4	13.5
Wayne	10.7	12.5	2.3	2.1	13.0	14.6
Total	113.1	125.0	29.8	28.6	142.9	153.6
State						
Total	705.7	736.1	255.9	244.8	961.6	980.9

1997 Census of Agriculture

1997 Census of Agriculture: Farms, Land in Farms, and Selected Items, by County, Utah 1/

District and County	Number of Farms	Land in Farms	Average Size of Farms	Total Cropland	Harvested Cropland	Irrigated Land	Estimated Market Value of Land & Buildings	
							Average per Farm	Average per Acre
Number		Acres				Dollars		
Northern								
Box Elder ..	1,077	1,357,734	1,261	343,797	174,615	137,074	547,243	437
Cache	1,232	266,374	216	177,117	119,910	93,008	329,665	1,742
Davis	559	67,906	121	27,034	17,808	21,907	376,424	3,296
Morgan	243	179,246	738	21,609	14,696	8,836	690,752	941
Rich	162	523,744	3,233	87,335	52,983	74,559	853,906	269
Salt Lake ..	593	113,912	192	40,035	20,319	14,647	431,460	2,092
Tooele	332	291,746	879	41,924	16,966	18,944	585,551	584
Weber	936	81,352	87	39,661	26,473	32,651	328,193	2,210
Central								
Juab	228	275,632	1,209	66,400	29,998	22,236	547,154	467
Millard	650	457,823	704	162,805	94,530	99,248	504,256	668
Sanpete ...	776	359,717	464	113,436	60,783	72,315	339,022	800
Sevier	478	147,032	308	49,723	34,169	43,728	235,044	931
Utah	1,790	374,933	209	149,920	86,976	81,168	433,198	2,244
Eastern								
Carbon	199	201,679	1,013	17,200	6,060	10,588	611,966	586
Daggett	36	26,485	736	13,128	7,676	7,840	471,861	641
Duchesne ..	811	1,328,307	1,638	125,134	56,971	114,790	520,668	310
Emery	450	158,798	353	53,303	20,922	41,198	220,169	683
Grand	85	75,801	892	6,001	3,254	4,472	438,883	492
San Juan ..	231	1,673,079	7,243	150,143	53,772	9,078	1,786,989	241
Summit	476	589,528	1,239	40,345	20,435	28,429	740,266	603
Uintah	795	2,268,090	2,853	90,524	44,954	83,939	695,186	244
Wasatch ...	294	106,142	361	16,569	9,295	15,424	563,657	1,544
Southern								
Beaver	219	130,994	598	39,463	28,209	35,177	649,388	1,102
Garfield	285	121,381	426	36,386	14,565	25,406	358,522	762
Iron	375	404,574	1,079	71,013	53,457	60,400	609,316	667
Kane	143	175,384	1,226	15,224	3,210	7,198	625,669	508
Piute	106	44,540	420	21,278	10,934	14,257	376,592	985
Washington	429	163,135	380	34,916	10,321	16,057	418,213	1,156
Wayne	191	59,593	312	18,328	13,667	17,627	319,677	1,080
State								
Total	14,181	12,024,661	848	2,069,751	1,107,928	1,212,201	486,235	575

1/ Source: 1997 Census of Agriculture, U.S. Department of Agriculture, National Agricultural Statistics Service.

1997 Census of Agriculture: Number of Farms by Value of Sales, by County, Utah 1/

District and County	Under \$2,500		\$2,500 to \$4,999		\$5,000 to \$9,999		\$10,000 to \$24,999		\$25,000 to \$49,999		\$50,000 to \$99,999		\$100,000 Plus	
	Farms	% 2/	Farms	% 2/	Farms	% 2/	Farms	% 2/	Farms	% 2/	Farms	% 2/	Farms	% 2/
Northern														
Box Elder ...	261	24.2	110	10.2	124	11.5	169	15.7	111	10.3	104	9.7	198	18.4
Cache	322	26.1	149	12.1	146	11.9	203	16.5	104	8.4	78	6.3	230	18.7
Davis	231	41.3	83	14.8	69	12.3	74	13.2	31	5.5	18	3.2	53	9.5
Morgan	65	26.7	28	11.5	38	15.6	37	15.2	13	5.4	22	9.1	40	16.5
Rich	25	15.4	13	8.0	13	8.0	17	10.5	26	16.0	35	21.6	33	20.4
Salt Lake ...	260	43.8	93	15.7	70	11.8	66	11.1	33	5.6	26	4.4	45	7.6
Tooele	124	37.3	30	9.0	55	16.6	45	13.6	36	10.8	20	6.0	22	6.6
Weber	385	41.1	155	16.6	126	13.5	131	14.0	42	4.5	33	3.5	64	6.8
Central														
Juab	63	27.6	25	11.0	38	16.7	33	14.5	32	14.0	14	6.1	23	10.1
Millard	104	16.0	52	8.0	63	9.7	124	19.1	108	16.6	69	10.6	130	20.0
Sanpete	174	22.4	91	11.7	113	14.6	125	16.1	88	11.3	45	5.8	140	18.0
Sevier	124	25.9	53	11.1	60	12.6	98	20.5	51	10.7	34	7.1	58	12.1
Utah	704	39.3	269	15.0	230	12.8	223	12.5	123	6.9	73	4.1	168	9.4
Eastern														
Carbon	87	43.7	19	9.5	30	15.1	31	15.6	10	5.0	13	6.5	9	4.5
Daggett	3	8.3	7	19.4	3	8.3	6	16.7	9	25.0	4	11.1	4	11.1
Duchesne ...	179	22.1	102	12.6	118	14.6	169	20.8	98	12.1	72	8.9	73	9.0
Emery	115	25.6	85	18.9	77	17.1	107	23.8	35	7.8	17	3.8	14	3.1
Grand	33	38.8	9	10.6	7	8.2	10	11.8	12	14.1	9	10.6	5	5.9
San Juan ...	71	30.7	20	8.7	32	13.9	31	13.4	27	11.7	26	11.3	24	10.4
Summit	150	31.5	66	13.9	70	14.7	79	16.6	46	9.7	22	4.6	43	9.0
Uintah	216	27.2	130	16.4	134	16.9	142	17.9	85	10.7	48	6.0	40	5.0
Wasatch	114	38.8	52	17.7	41	13.9	41	13.9	16	5.4	7	2.4	23	7.8
Southern														
Beaver	28	12.8	24	11.0	25	11.4	32	14.6	22	10.0	30	13.7	58	26.5
Garfield	57	20.0	36	12.6	53	18.6	58	20.4	39	13.7	30	10.5	12	4.2
Iron	93	24.8	52	13.9	38	10.1	56	14.9	29	7.7	40	10.7	67	17.9
Kane	40	28.0	22	15.4	27	18.9	22	15.4	17	11.9	7	4.9	8	5.6
Piute	7	6.6	8	7.5	14	13.2	32	30.2	11	10.4	19	17.9	15	14.2
Washington .	158	36.8	63	14.7	67	15.6	70	16.3	38	8.9	16	3.7	17	4.0
Wayne	33	17.3	21	11.0	23	12.0	39	20.4	36	18.8	18	9.4	21	11.0
State														
Total	4,226	29.8	1,867	13.2	1,904	13.4	2,270	16.0	1,328	9.4	949	6.7	1,637	11.5

1/ Source: 1997 Census of Agriculture, U.S. Department of Agriculture, National Agricultural Statistics Service. 2/ Percent of total farms for counties and percent of total farms for state. Percents may not add to 100.0 due to rounding.

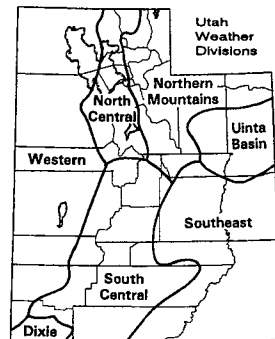
1997 Census of Agriculture: Number of Farms by Total Land in Farms, by County, Utah 1/

District and County	1 - 9 Acres		10 - 49 Acres		50 - 179 Acres		180 - 499 Acres		500 - 999 Acres		1,000 Plus Acres	
	Farms	% 2/	Farms	% 2/	Farms	% 2/	Farms	% 2/	Farms	% 2/	Farms	% 2/
Northern												
Box Elder	157	14.6	240	22.3	232	21.5	160	14.9	104	9.7	184	17.1
Cache	189	15.3	330	26.8	373	30.3	223	18.1	68	5.5	49	4.0
Davis	209	37.4	207	37.0	77	13.8	49	8.8	15	2.7	2	0.4
Morgan	43	17.7	91	37.4	45	18.5	19	7.8	18	7.4	27	11.1
Rich	13	8.0	20	12.3	21	13.0	22	13.6	28	17.3	58	35.8
Salt Lake	296	49.9	172	29.0	72	12.1	30	5.1	6	1.0	17	2.9
Tooele	58	17.5	77	23.2	70	21.1	50	15.1	27	8.1	50	15.1
Weber	299	31.9	392	41.9	157	16.8	68	7.3	12	1.3	8	0.9
Central												
Juab	13	5.7	39	17.1	55	24.1	47	20.6	23	10.1	51	22.4
Millard	56	8.6	94	14.5	150	23.1	153	23.5	72	11.1	125	19.2
Sanpete	76	9.8	195	25.1	219	28.2	142	18.3	75	9.7	69	8.9
Sevier	66	13.8	146	30.5	147	30.8	75	15.7	19	4.0	25	5.2
Utah	537	30.0	684	38.2	317	17.7	136	7.6	54	3.0	62	3.5
Eastern												
Carbon	35	17.6	61	30.7	46	23.1	21	10.6	7	3.5	29	14.6
Daggett	2	5.6	1	2.8	10	27.8	10	27.8	4	11.1	9	25.0
Duchesne	64	7.9	176	21.7	246	30.3	181	22.3	74	9.1	70	8.6
Emery	36	8.0	116	25.8	128	28.4	84	18.7	52	11.6	34	7.6
Grand	23	27.1	22	25.9	13	15.3	14	16.5	2	2.4	11	12.9
San Juan	8	3.5	21	9.1	36	15.6	39	16.9	29	12.6	98	42.4
Summit	77	16.2	145	30.5	108	22.7	51	10.7	34	7.1	61	12.8
Uintah	81	10.2	249	31.3	224	28.2	117	14.7	49	6.2	75	9.4
Wasatch	52	17.7	127	43.2	73	24.8	25	8.5	8	2.7	9	3.1
Southern												
Beaver	16	7.3	52	23.7	54	24.7	50	22.8	20	9.1	27	12.3
Garfield	20	7.0	66	23.2	80	28.1	65	22.8	29	10.2	25	8.8
Iron	41	10.9	79	21.1	69	18.4	57	15.2	37	9.9	92	24.5
Kane	12	8.4	18	12.6	23	16.1	28	19.6	10	7.0	52	36.4
Piute	4	3.8	9	8.5	27	25.5	40	37.7	17	16.0	9	8.5
Washington	86	20.0	115	26.8	93	21.7	49	11.4	43	10.0	43	10.0
Wayne	21	11.0	34	17.8	80	41.9	37	19.4	9	4.7	10	5.2
State												
Total	2,590	18.3	3,978	28.1	3,245	22.9	2,042	14.4	945	6.7	1,381	9.7

1/ Source: 1997 Census of Agriculture, U.S. Department of Agriculture, National Agricultural Statistics Service. 2/ Percent of total farms for counties and percent of total farms for state. Percents may not add to 100.0 due to rounding.

Weather

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Weather Data

The tables below provide summary climate information for 1999 and a comparison to the 1961-1990 calculated normals. The first table shows precipitation for each of the seven climatic divisions as a percent of normal, and the second table shows

divisional temperature departures from normal. The areas covered by each climatic division are shown on the map at the right. Weather stations used in the calculations for each division are shown in tables on the following eight pages.

Precipitation Summary

At the conclusion of 1999, the South Central, Northern Mountains, Uintah Basin and Southeast Division were near normal for recorded precipitation for the year. The Dixie Division reported only 66 percent of normal. The Western and North Central Divisions were slightly

below normal precipitation. During April all divisions reported above normal precipitation. October through December precipitation was well below normal, and started the new water year off with very low precipitation values.

Precipitation: Percent of Normal, by Climate Division, 1999

Division	Month												Annual
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Western	119	63	33	205	90	150	95	112	35	6	20	13	79
Dixie	32	59	11	177	69	382	185	95	23	1	8	5	66
N. Central	151	100	40	177	142	150	62	94	18	4	29	61	86
S. Central	61	77	20	210	117	161	174	145	76	17	12	43	90
N. Mountains	152	92	41	209	166	132	116	122	41	12	20	75	94
Uintah Basin	124	74	5	283	137	56	116	320	105	5	11	30	106
Southeast	49	71	8	305	40	208	235	174	87	0	2	44	101

Temperature Summary

Average temperatures for Utah for 1999 were above normal. January through March temperatures were 2-10 degrees above normal for all divisions. Reflecting spring and early summer precipitation, the April through June temperatures were generally below normal for all

divisions. The fall season was near to slightly above normal. The year ended with above normal temperatures for all divisions for the months of October through December.

Mean Temperature: Departure from Normal (°F), by Climate Division, 1999

Division	Month												Annual
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Western	6.8	2.9	2.6	-4.6	-2.4	-1.2	0.0	-0.3	-0.6	1.6	4.8	2.7	1.0
Dixie	5.0	2.6	5.9	-3.8	0.1	-0.2	-0.9	1.6	2.5	4.4	7.4	2.1	2.2
N. Central	7.7	3.8	4.1	-3.6	-2.4	-0.5	0.8	1.8	-0.5	3.0	7.1	2.4	2.3
S. Central	6.8	3.7	4.7	-3.3	-1.1	0.2	0.3	0.1	-1.2	2.2	4.1	1.7	0.6
N. Mountains ...	7.6	5.0	5.3	-2.9	-1.2	0.1	1.4	1.9	-0.4	2.8	7.3	2.8	2.5
Uintah Basin	9.9	9.2	5.4	-1.6	-2.0	-1.2	0.6	-0.1	-1.6	1.0	3.6	4.8	2.3
Southeast	9.7	5.2	6.3	-2.7	-0.8	-0.3	1.3	-0.6	0.1	2.0	3.3	2.7	1.6

Mean Monthly Temperature (°F), Utah, 1999

Division and Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Western													
Callao	33.1	34.5	42.9	45.6	55.2	66.6	74.7	72.3	61.0	50.6	41.5	29.8	50.6
Delta	33.8	37.7	45.2	44.4	56.0	67.4	75.1	72.7	62.1	52.2	42.6	28.0	51.4
Enterprise Beryl Jct	33.0	33.4	41.1	41.1	52.5	61.5	70.9	66.9	59.1	48.7	40.5	29.3	48.2
Eskdale	34.0	37.4	44.0	44.5	56.7	67.4	76.0	72.8	61.6	53.1	43.7	29.0	51.7
Modena	34.7	37.2	42.4	42.8	54.7	65.0	72.2	69.5	62.9	52.9	43.8	30.7	50.7
Rosette	29.0	29.8	38.1	39.3	49.8	60.0	69.9	69.9	58.2	51.5	40.4	28.3	47.0
Average	32.9	35.0	42.3	43.0	54.2	64.6	73.1	70.7	60.8	51.5	42.1	29.2	49.9
Dixie													
St. George	45.7	49.0	58.0	57.2	71.0	79.6	85.3	85.9	78.5	67.1	54.9	43.4	64.6
Zion Nat'l Park	44.6	47.7	56.0	52.9	66.0	76.6	82.4	82.0	75.7	68.0	59.1	42.7	62.8
Average	45.2	48.4	57.0	55.0	68.5	78.1	83.9	84.0	77.1	67.6	57.0	43.1	63.7
North Central													
Farmington USU Fld Stn	34.5	36.9	43.9	M	55.8	67.2	77.1	75.8	62.7	55.2	46.9	31.9	53.4
Logan USU	31.5	31.3	41.3	42.9	52.5	63.5	73.2	73.2	60.0	53.9	44.3	27.4	49.6
Ogden Pioneer PH	34.5	35.3	45.2	45.5	56.2	67.1	76.2	76.0	63.2	55.4	47.4	M	54.7
Pleasant Grove	35.4	37.8	46.0	45.8	56.0	66.7	74.4	73.8	62.5	54.2	47.8	32.0	52.7
Provo BYU	37.2	40.2	48.9	47.5	58.5	69.2	77.8	76.0	63.8	56.1	48.2	33.4	54.7
SLC Airport NWSFO	35.8	37.3	44.8	45.5	56.0	68.4	78.2	77.2	63.9	55.0	46.5	30.9	53.3
Tooele	36.2	37.8	45.4	45.6	55.3	68.7	78.6	76.9	65.5	56.5	46.9	32.7	53.8
Tremonton	31.5	32.1	43.4	44.6	53.4	65.7	75.1	74.1	62.1	51.6	43.5	31.3	50.7
Richmond	31.1	32.1	41.1	44.2	52.4	63.2	72.7	72.1	60.8	51.8	43.1	25.9	49.2
Average	34.2	35.6	44.4	45.2	55.1	66.6	75.9	75.0	62.7	54.4	46.1	30.7	52.5
South Central													
Bryce Cnyn Nat'l Pk Hq	28.6	27.9	36.4	33.7	43.4	55.1	62.4	58.7	51.8	45.0	35.5	25.0	42.0
Cedar City FAA	34.3	34.8	42.5	41.2	53.6	65.1	71.7	69.5	61.9	51.5	43.6	29.2	49.9
Escalante	37.7	38.5	46.1	45.2	57.1	66.6	73.2	69.5	62.8	55.4	43.4	33.2	52.4
Fillmore	34.6	37.5	45.2	44.1	55.3	66.6	73.1	71.3	61.5	53.5	46.7	32.0	51.8
Kanab	39.3	41.0	47.2	47.9	58.6	67.7	73.4	73.2	65.1	57.1	37.8	36.2	53.7
Koosharem	29.9	32.5	38.8	M	M	M	M	M	50.3	M	36.0	M	37.5
Levan	34.0	37.0	43.8	43.4	53.8	65.3	73.4	71.8	61.3	53.0	45.1	28.8	50.9
Manti	33.2	35.4	42.7	42.0	52.7	63.3	71.4	68.6	59.3	51.3	43.8	29.4	49.4
Nephi	35.2	36.4	45.7	45.3	56.2	67.2	74.7	73.0	62.8	55.3	48.7	31.0	52.6
Panguitch	30.8	34.3	41.5	39.8	50.6	61.9	68.7	65.9	56.9	48.0	38.6	27.0	47.0
Richfield Radio KSVC	33.0	37.6	43.8	43.2	53.7	63.2	71.7	68.3	59.5	50.5	42.5	30.2	49.8
Average	33.7	35.7	43.1	42.6	53.5	64.2	71.4	69.0	59.4	52.1	42.0	30.2	48.8
Northern Mountains													
Heber	31.5	33.1	41.7	42.9	52.0	62.4	71.5	69.4	58.4	50.3	42.6	27.4	48.6
Morgan	32.9	36.5	43.6	44.0	53.3	63.5	72.3	71.4	59.4	51.4	43.5	28.9	50.1
Olmstead Powerhouse	36.6	38.0	46.9	46.6	57.0	68.2	76.5	74.9	62.1	55.5	46.3	32.0	53.4
Scofield-Skyline Mine	25.0	24.6	32.0	30.8	40.2	52.2	60.0	57.5	48.9	43.7	36.3	24.2	39.6
Silver Lake Brighton	22.2	22.3	28.6	28.3	37.8	49.6	58.5	57.4	46.8	41.6	35.4	21.0	37.5
Woodruff	24.9	23.4	33.2	36.9	46.2	55.6	62.5	62.1	50.6	42.0	33.5	19.2	40.8
Average	28.8	29.6	37.7	38.2	47.8	58.6	66.9	65.4	54.4	47.4	39.6	25.4	45.0
Uintah Basin													
Duchesne	30.0	33.5	42.2	44.2	53.3	62.3	70.6	67.2	57.0	48.5	37.4	26.4	47.7
Jensen	26.1	34.0	42.9	47.3	56.7	66.1	74.4	71.2	60.1	49.9	38.3	25.1	49.3
Roosevelt Radio	22.9	33.6	41.5	46.1	55.2	64.8	73.4	70.3	59.0	49.1	37.0	23.9	48.1
Vernal Airport	26.8	31.5	41.7	44.3	53.1	63.2	71.9	69.6	57.6	49.4	37.6	24.7	47.6
Average	26.4	33.2	42.1	45.5	54.6	64.1	72.6	69.6	58.4	49.2	37.6	25.0	48.2
Southeast													
Arches Nat'l Pk Hq	37.5	42.3	52.9	51.9	63.0	74.6	83.0	79.2	69.7	60.2	45.2	33.7	57.8
Blanding	37.2	39.7	48.1	45.5	58.0	68.1	74.6	71.8	63.9	56.7	47.2	33.8	53.7
Ferron	32.5	34.4	44.7	43.8	55.6	66.5	74.0	69.5	61.2	52.6	42.1	29.4	50.5
Green River Aviation	34.7	39.5	49.3	51.3	61.9	M	80.5	M	67.4	54.2	41.3	31.0	51.1
Hanksville	35.8	39.2	49.7	50.9	63.1	73.2	81.7	76.0	66.7	54.1	41.0	30.9	55.2
Moab	38.2	42.5	53.4	53.6	64.1	74.1	82.5	78.1	69.3	56.9	46.0	34.1	57.7
Average	36.0	39.6	49.7	49.5	61.0	71.3	79.4	74.9	66.4	55.8	43.8	32.2	54.3

M=Missing Data. Source: Utah Climate Center, Utah State University, Logan, Utah 84322-4825

Normal Mean Monthly Temperature (°F), Utah, 1961-90

Division and Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Western													
Callao	26.2	32.5	40.7	48.2	57.1	65.7	73.4	71.3	61.6	49.8	37.9	27.4	49.3
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
Enterprise Beryl Jct	26.3	32.3	38.6	45.7	54.3	63.0	70.2	68.5	59.4	48.7	36.9	27.7	47.6
Eskdale	27.8	33.6	41.7	48.7	57.8	67.5	75.0	72.5	62.5	50.5	38.5	28.1	50.3
Modena	27.8	33.4	39.4	46.7	55.3	65.1	72.0	70.2	61.2	50.5	38.3	29.0	49.1
Rosette	24.2	28.7	37.4	47.8	57.4	66.3	73.0	70.8	61.1	49.3	34.6	20.4	47.6
Average	26.1	32.1	39.7	47.5	56.6	65.8	73.1	71.0	61.4	50.0	37.3	26.5	48.9
Dixie													
St. George	40.2	46.5	52.5	60.3	69.7	79.2	85.5	83.2	75.0	63.0	49.5	40.8	62.1
Zion Nat'l Park	40.2	45.0	49.7	57.5	67.1	77.5	83.9	81.5	74.2	63.3	49.8	41.1	60.9
Average	40.2	45.8	51.1	58.9	68.4	78.4	84.7	82.4	74.6	63.2	49.6	41.0	61.5
North Central													
Farmington USU Fld Stn ..	28.6	33.7	41.7	49.5	58.3	67.8	76.0	73.8	64.2	51.8	39.8	29.3	51.2
Logan USU	23.6	28.5	37.0	46.2	55.5	64.4	72.9	71.4	61.2	50.1	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
Pleasant Grove	28.1	33.8	41.3	48.9	57.8	66.7	74.4	72.3	63.1	52.1	40.1	30.1	50.7
Provo BYU	27.9	32.6	43.5	52.1	59.6	69.7	76.3	74.9	65.1	52.7	41.0	30.7	52.2
SLC Airport NWSFO	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	28.5	33.7	40.5	48.6	57.9	67.6	75.8	73.5	63.4	51.6	39.2	29.6	50.8
Tremonton	23.5	28.8	40.2	49.4	56.7	66.7	74.2	73.0	62.8	50.3	37.2	25.8	49.1
Richmond	22.3	27.6	36.2	45.5	54.4	63.3	71.6	70.0	60.0	48.6	35.8	24.4	46.6
Average	26.5	31.8	40.4	48.8	57.5	67.1	75.1	73.2	63.2	51.4	38.9	28.3	50.2
South Central													
Bryce Cnyn Nat'l Pk Hq ..	22.6	25.3	30.6	38.2	47.0	56.4	62.8	60.6	53.0	43.2	31.6	23.8	41.3
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
Escalante	27.6	34.0	40.4	48.0	56.8	66.1	72.3	69.7	61.5	51.1	39.2	29.6	49.7
Fillmore	27.9	34.2	41.1	48.8	57.7	67.4	75.4	73.3	64.2	52.3	39.6	29.2	50.9
Kanab	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
Koosharem	23.6	27.8	33.5	40.6	49.5	58.6	65.7	63.4	55.9	45.2	33.7	25.2	43.5
Levan	25.3	31.4	38.8	46.8	55.7	65.4	73.2	71.2	62.2	50.8	38.3	27.3	48.9
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	75.2	73.1	63.5	51.9	39.5	29.3	50.5
Panguitch	24.0	29.0	35.0	42.3	50.6	59.2	65.7	63.6	56.1	46.2	34.8	25.6	44.3
Richfield Radio K SVC ..	27.0	32.7	39.6	46.9	55.2	64.0	71.0	68.9	60.4	49.7	37.9	28.7	48.5
Average	26.9	32.1	38.3	45.8	54.6	64.0	71.1	68.9	60.5	49.8	37.8	28.5	48.2
Northern Mountains													
Heber	21.3	26.3	35.0	43.5	52.0	59.9	67.4	65.6	56.9	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 Powerhouse ...	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-Skyline Mine ...	20.5	20.8	27.8	37.1	42.8	54.1	59.7	58.2	49.4	39.8	28.2	19.9	38.2
Silver Lake Brighton	19.6	21.1	25.0	32.1	40.7	50.1	58.2	56.3	48.4	38.6	26.9	19.9	36.4
Woodruff	15.5	19.0	28.6	38.8	47.5	55.9	62.8	60.6	51.7	41.4	28.6	17.3	39.0
Average	21.3	24.6	32.3	41.2	49.0	58.5	65.4	63.6	54.8	44.6	32.3	22.7	42.5
Uintah Basin													
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
Jensen	14.9	22.8	36.4	47.0	56.7	65.2	72.0	69.3	59.8	48.0	33.7	19.4	45.4
Roosevelt Radio	16.3	23.7	37.4	47.8	57.4	66.3	73.0	70.8	61.1	49.3	34.6	20.4	46.5
Vernal Airport	16.5	23.8	36.2	46.6	56.0	65.2	71.7	69.3	59.6	47.4	33.4	20.1	45.5
Average	16.5	23.9	36.7	47.1	56.5	65.4	72.0	69.7	60.0	48.2	34.0	20.2	45.8
Southeast													
Arches Nat'l Pk Hq	29.6	37.5	48.1	56.8	66.0	76.9	82.8	80.6	70.9	56.8	44.1	33.2	56.9
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	37.6	46.5	56.2	65.6	72.4	69.9	61.2	50.1	36.8	25.6	47.8
Green River Aviation	22.8	32.7	43.1	52.4	62.1	71.7	78.6	75.8	65.7	53.1	39.2	27.2	52.0
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	30.0	38.6	48.0	57.0	66.1	75.3	81.6	79.4	70.2	57.6	44.2	33.1	56.8
Average	26.3	34.4	43.4	52.2	61.8	71.6	78.0	75.6	66.2	53.8	40.4	29.5	52.8

Source: Utah Climate Center, Utah State University, Logan, Utah 84322-4825

Total Precipitation (Inches), Utah, 1999

Division and Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Western													
Callao	0.74	0.07	0.03	1.79	0.36	0.95	0.08	0.27	0.32	0.06	0.02	0.00	4.69
Delta	0.23	0.26	0.36	1.73	1.22	0.73	0.99	1.00	0.21	0.00	0.09	0.07	6.89
Enterprise Beryl Jct	0.13	0.72	0.28	0.92	0.56	1.15	1.08	1.34	0.57	0.05	0.30	0.02	7.12
Eskdale	0.29	0.03	0.18	1.44	0.44	0.54	0.24	1.16	0.26	0.07	0.00	0.01	4.66
Modena	0.47	0.26	0.06	0.69	0.38	0.78	2.22	1.65	0.20	0.01	0.10	0.00	6.82
Rosette	1.96	1.00	0.68	2.73	1.59	1.75	0.33	0.51	0.11	0.09	0.26	0.33	11.34
Average	0.64	0.39	0.27	1.55	0.76	0.98	0.82	0.99	0.28	0.05	0.13	0.07	6.92
Dixie													
St. George	0.34	0.49	0.13	0.85	0.12	1.34	1.54	0.42	0.23	0.01	0.01	0.04	5.52
Zion Nat'l Park	0.49	0.95	0.22	2.12	0.73	1.14	1.89	2.02	0.12	0.00	0.18	0.05	9.91
Average	0.42	0.72	0.18	1.48	0.42	1.24	1.72	1.22	0.18	0.00	0.10	0.04	7.72
North Central													
Farmington USU Fld Stn .	2.49	1.78	0.47	5.36	4.40	1.46	0.59	0.38	0.10	0.00	1.19	1.52	19.74
Logan USU	2.53	2.36	0.83	2.82	2.64	1.78	0.17	1.02	0.31	0.15	0.23	1.04	15.88
Ogden Pioneer PH	2.16	1.89	0.85	4.64	3.94	1.91	0.31	1.00	0.34	0.00	0.30	0.53	17.87
Pleasant Grove	2.58	1.05	0.40	5.18	2.73	2.15	1.68	0.60	0.15	0.08	0.18	1.16	17.94
Provo BYU	2.48	1.31	0.59	4.56	3.72	1.66	0.78	1.17	0.21	0.06	0.18	0.86	17.58
SLC Airport NWSFO	1.29	0.92	0.80	3.09	2.59	0.82	0.25	0.70	0.45	0.02	0.68	1.28	12.89
Tooele	1.70	0.96	1.80	3.39	2.00	1.53	0.59	1.34	0.14	0.01	1.12	1.44	16.02
Tremonton	2.80	1.51	0.59	2.18	2.50	2.21	0.60	1.16	0.33	0.05	0.11	0.40	14.44
Richmond	2.29	2.71	1.27	3.49	3.32	3.42	0.33	0.94	0.51	0.20	0.52	1.06	20.06
Average	2.26	1.61	0.84	3.86	3.09	1.88	0.59	0.92	0.28	0.06	0.50	1.03	16.94
South Central													
Bryce Cnyn Nat'l Pk Hq .	0.26	0.68	0.12	2.37	0.46	1.18	1.63	3.93	1.02	0.00	0.07	0.06	11.78
Cedar City FAA	0.05	0.86	0.26	0.69	0.66	0.83	1.33	1.01	0.62	0.12	0.22	0.32	6.97
Escalante	0.06	0.36	0.00	1.78	0.43	0.97	2.49	3.66	1.07	0.00	0.00	0.10	10.92
Fillmore	0.81	1.43	0.62	4.05	2.29	1.06	1.53	1.23	0.32	0.24	0.15	0.93	14.66
Kanab	0.59	0.99	0.07	2.12	0.25	0.84	4.23	1.50	2.00	0.00	0.13	0.12	12.84
Koosharem	0.29	0.40	0.16	1.06	0.58	1.09	1.65	M	0.95	0.15	0.08	0.27	6.68
Levan	1.39	1.12	0.48	3.67	2.55	0.95	1.06	0.99	0.49	0.25	0.29	1.01	14.25
Manti	0.79	0.88	0.43	2.42	2.23	0.90	1.93	1.71	0.94	0.94	0.13	0.39	13.69
Nephi	1.58	0.97	0.49	3.47	2.86	1.29	0.53	1.30	0.37	0.14	0.13	1.00	14.13
Panguitch	0.15	0.28	0.15	1.45	0.11	1.19	2.06	2.66	0.77	0.00	0.14	0.11	9.07
Richfield Radio K SVC .	0.33	0.22	0.09	1.65	0.77	0.89	1.32	1.07	1.18	0.16	0.05	0.26	7.99
Average	0.57	0.74	0.26	2.25	1.20	1.02	1.80	1.91	0.88	0.18	0.13	0.42	11.35
Northern Mountains													
Heber	2.46	2.17	0.36	2.33	1.48	1.13	1.27	1.10	0.65	0.07	0.08	0.63	13.73
Morgan	2.29	1.32	0.57	3.08	3.44	1.63	0.57	0.61	0.80	0.00	0.62	1.28	16.21
Olmstead Powerhouse .	3.02	1.00	0.56	5.58	3.35	2.19	1.48	1.06	0.23	0.08	0.70	1.26	20.51
Scofield-Skyline Mine .	3.84	1.82	1.19	5.91	2.85	1.07	1.49	3.01	0.57	0.21	0.49	1.70	24.15
Silver Lake Brighton .	6.85	5.29	2.80	6.28	5.15	1.99	1.89	2.53	1.23	1.01	0.90	3.98	39.90
Woodruff	0.75	1.00	0.52	2.42	2.11	1.07	0.94	0.52	0.78	0.05	0.04	0.71	10.91
Average	3.20	2.10	1.00	4.27	3.06	1.51	1.27	1.47	0.71	0.24	0.47	1.59	20.90
Uintah Basin													
Duchesne	0.58	0.13	0.03	2.06	0.92	0.68	1.20	4.61	1.21	0.01	0.01	0.22	11.66
Fort Duchesne	0.42	0.49	0.06	2.39	1.22	0.13	0.32	1.10	0.69	0.10	0.13	0.17	7.22
Jensen	0.47	0.20	0.03	2.05	0.89	0.58	0.85	0.98	1.25	0.04	0.04	0.26	7.64
Vernal Airport	0.80	0.56	0.00	1.75	1.55	0.29	0.68	2.08	0.61	0.05	0.05	0.10	8.52
Average	0.57	0.34	0.03	2.06	1.14	0.42	0.76	2.19	0.94	0.05	0.06	0.19	8.76
Southeast													
Arches Nat'l Pk Hq	0.54	0.18	0.14	2.04	0.20	1.48	1.47	1.76	0.71	0.00	0.00	0.64	9.16
Blanding	0.46	0.72	0.08	2.91	0.76	0.95	1.10	2.05	0.69	0.00	0.04	0.15	9.91
Ferron	0.16	0.27	0.00	2.30	0.08	0.41	1.16	1.91	1.48	0.00	0.00	0.05	7.82
Green River Aviation .	0.11	0.38	0.00	1.47	0.15	0.75	3.35	1.10	0.55	0.00	0.00	0.15	8.01
Hanksville	0.10	0.05	0.01	1.45	0.17	0.34	1.14	1.54	0.43	0.00	0.00	0.17	5.40
Moab	0.42	0.34	0.14	1.92	0.17	1.30	4.19	2.01	0.56	0.01	0.03	0.41	11.50
Average	0.30	0.32	0.06	2.02	0.25	0.87	2.07	1.73	0.74	0.00	0.01	0.26	8.63

M=Missing Data. Source: Utah Climate Center, Utah State University, Logan, Utah 84322-4825

Normal Precipitation (Inches), Utah, 1961-90

Division and Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Western													
Callao	0.29	0.33	0.41	0.47	0.81	0.73	0.53	0.66	0.60	0.66	0.34	0.28	6.11
Delta	0.50	0.56	0.85	0.79	0.90	0.47	0.53	0.57	0.81	0.81	0.71	0.62	8.12
Enterprise Beryl Jct	0.68	0.83	1.10	0.90	0.66	0.46	1.18	1.18	0.94	0.81	0.86	0.62	10.22
Eskdale	0.24	0.33	0.66	0.59	0.60	0.59	0.56	0.55	0.73	0.64	0.40	0.31	6.20
Modena	0.66	0.86	0.94	0.88	0.66	0.39	1.39	1.29	1.02	0.95	0.70	0.58	10.32
Rosette	0.84	0.82	0.87	0.90	1.45	1.29	1.03	1.06	0.70	0.94	0.87	0.80	11.57
Average	0.54	0.62	0.80	0.76	0.85	0.66	0.87	0.89	0.80	0.80	0.65	0.54	8.76
Dixie													
St. George	1.04	0.84	1.10	0.53	0.39	0.17	0.60	0.77	0.54	0.51	0.84	0.71	8.04
Zion Nat'l Park	1.59	1.60	2.05	1.15	0.84	0.48	1.25	1.79	1.00	0.92	1.46	1.28	15.41
Average	1.32	1.22	1.58	0.84	0.62	0.32	0.92	1.28	0.77	0.72	1.15	1.00	11.73
North Central													
Farmington USU Fld Stn .	1.88	1.89	2.44	2.76	2.71	1.48	0.83	0.99	1.65	2.01	1.96	2.00	22.60
Logan USU	1.38	1.65	2.02	2.15	2.04	1.57	0.78	0.97	1.62	1.87	1.73	1.72	19.50
Ogden Pioneer PH	1.99	1.92	2.32	2.63	2.51	1.56	0.83	1.01	1.73	1.93	2.06	2.13	22.62
Pleasant Grove	1.58	1.55	1.81	1.89	1.65	0.97	0.78	0.83	1.27	1.67	1.51	1.60	17.11
Provo BYU	1.59	1.94	2.50	1.77	2.12	1.21	1.29	1.41	2.08	2.13	2.06	1.91	22.01
SLC Airport NWSFO	1.11	1.24	1.91	2.12	1.80	0.93	0.81	0.86	1.28	1.44	1.29	1.40	16.19
Tooele	1.08	1.33	2.33	2.49	1.91	1.12	0.92	0.94	1.42	1.81	1.69	1.48	18.52
Tremonton	1.36	1.46	1.88	1.59	2.61	1.00	1.49	0.76	1.89	1.45	1.63	1.45	18.57
Richmond	1.46	1.53	1.97	2.20	2.19	1.48	0.87	1.04	1.50	1.84	1.72	1.64	19.44
Average	1.49	1.61	2.13	2.18	2.17	1.26	0.96	0.98	1.60	1.79	1.74	1.70	19.62
South Central													
Bryce Cnyn Nat'l Pk Hq .	1.16	1.36	1.53	0.95	1.03	0.57	1.51	2.20	1.70	1.20	1.20	1.12	15.53
Cedar City FAA	0.69	0.89	1.36	1.10	0.84	0.43	1.09	1.47	0.98	0.95	1.00	0.70	11.50
Escalante	0.78	0.64	0.90	0.50	0.68	0.41	1.06	1.51	1.04	0.98	0.83	0.70	10.03
Fillmore	1.27	1.26	2.08	1.82	1.43	0.90	0.75	0.87	1.21	1.38	1.46	1.50	15.93
Kanab	1.50	1.32	1.60	0.92	0.72	0.32	1.01	1.49	0.94	0.98	1.27	1.24	13.31
Koosharem	0.54	0.51	0.73	0.61	0.82	0.60	1.12	1.46	1.05	0.76	0.57	0.61	9.38
Levan	1.23	1.24	1.65	1.52	1.45	0.87	0.82	0.97	1.38	1.36	1.29	1.39	15.17
Manti	0.98	1.02	1.53	1.41	1.28	0.81	0.82	0.98	1.40	1.29	1.14	1.06	13.72
Nephi	1.14	1.19	1.71	1.51	1.39	0.82	0.86	1.01	1.19	1.26	1.39	1.33	14.80
Panguitch	0.48	0.61	0.79	0.67	0.82	0.63	1.50	1.78	1.05	0.71	0.78	0.51	10.33
Richfield Radio KSVC	0.56	0.58	0.73	0.75	0.84	0.58	0.79	0.70	0.93	0.84	0.68	0.59	8.57
Average	0.94	0.97	1.33	1.07	1.03	0.63	1.03	1.31	1.17	1.06	1.06	0.98	12.57
Northern Mountains													
Heber	1.78	1.56	1.37	1.39	1.23	0.90	0.87	0.98	1.26	1.47	1.64	1.62	16.07
Morgan	1.77	1.86	1.92	2.33	1.95	1.32	0.68	0.98	1.53	1.74	1.94	1.93	19.95
Olmstead Powerhouse ...	1.91	2.02	2.54	1.63	2.38	0.75	0.92	1.27	2.01	1.94	2.19	1.58	21.14
Scofield-Skyline Mine	1.83	3.12	2.87	1.52	1.68	1.01	1.71	1.38	1.73	1.95	2.88	1.98	23.66
Silver Lake Brighton	4.92	4.76	5.31	4.44	2.96	1.84	1.69	1.95	2.58	3.49	4.91	5.01	43.86
Woodruff	0.43	0.45	0.57	0.92	0.89	1.05	0.72	0.69	1.16	0.93	0.65	0.58	9.04
Average	2.11	2.29	2.43	2.04	1.85	1.14	1.10	1.21	1.71	1.92	2.37	2.12	22.29
Uintah Basin													
Duchesne	0.43	0.50	0.64	0.84	0.91	0.90	0.97	1.00	1.17	0.94	0.52	0.76	9.58
Jensen	0.46	0.52	0.61	0.72	0.77	0.64	0.66	0.59	0.91	1.02	0.59	0.63	8.12
Roosevelt Radio	0.55	0.44	0.56	0.55	0.78	0.66	0.49	0.57	0.63	0.88	0.47	0.52	7.10
Vernal Airport	0.39	0.41	0.65	0.81	0.88	0.79	0.50	0.58	0.87	1.06	0.60	0.61	8.15
Average	0.46	0.47	0.62	0.73	0.84	0.75	0.66	0.68	0.90	0.98	0.54	0.63	8.24
Southeast													
Arches Nat'l Pk Hq	0.47	0.32	0.91	0.83	0.65	0.37	1.01	1.09	0.73	1.31	0.79	0.49	8.97
Blanding	1.25	0.91	0.95	0.75	0.62	0.46	1.32	1.43	1.28	1.36	1.08	1.18	12.59
Ferron	0.62	0.55	0.66	0.49	0.72	0.49	1.03	1.09	0.87	0.79	0.53	0.56	8.40
Green River Aviation	0.40	0.32	0.59	0.50	0.61	0.41	0.57	0.76	0.71	0.87	0.41	0.39	6.54
Hanksville	0.38	0.22	0.51	0.42	0.49	0.30	0.53	0.73	0.74	0.68	0.38	0.31	5.69
Moab	0.56	0.43	0.85	0.98	0.72	0.48	0.83	0.86	0.75	1.16	0.73	0.65	9.00
Average	0.61	0.46	0.74	0.66	0.63	0.42	0.88	0.99	0.85	1.03	0.65	0.60	8.53

Source: Utah Climate Center, Utah State University, Logan, Utah 84322-4825

Total Growing Degree Days Base 50, by Months, Utah, 1999

Division and Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Western													
Callao	41	36	162	138	328	494	678	642	442	322	161	20	3,463
Delta	22	76	212	152	344	514	673	626	467	372	196	6	3,657
Enterprise Beryl Jct	52	57	198	142	353	444	584	536	434	366	212	46	3,424
Eskdale	36	62	183	142	356	514	722	626	450	384	216	12	3,704
Modena	40	68	180	138	370	486	634	584	472	409	210	24	3,614
Rosette	0	1	58	62	194	370	607	608	340	269	98	6	2,613
Average	32	50	166	129	324	470	650	603	434	353	182	19	3,412
Dixie													
St. George	156	185	379	327	606	730	895	882	726	538	348	136	5,908
Zion Nat'l Park	134	156	326	257	530	685	848	834	606	568	370	121	5,435
Average	146	171	352	292	568	707	871	858	666	553	359	128	5,671
North Central													
Farmington USU Fld Stn .	14	28	164	M	297	505	739	724	436	351	174	8	3,440
Logan USU	2	10	88	82	231	432	668	686	371	276	136	5	2,988
Ogden Pioneer PH	4	20	123	108	304	505	740	749	430	301	156	M	3,440
Pleasant Grove	8	26	144	114	304	511	714	710	422	320	192	5	3,468
Provo BYU	20	50	192	141	364	552	750	727	456	364	184	3	3,806
SLC Airport NWSFO	8	34	124	98	286	536	778	776	452	301	168	0	3,562
Tooele	20	40	128	118	296	553	790	764	496	336	162	5	3,708
Tremonton	0	7	117	110	249	484	711	695	418	283	140	4	3,218
Richmond	0	11	100	118	262	442	625	614	436	308	138	2	3,054
Average	8	25	131	111	288	502	724	716	436	316	161	4	3,422
South Central													
Bryce Cnyn Nat'l Pk Hq ..	0	0	49	40	148	334	400	360	242	218	76	0	1,867
Cedar City FAA	27	42	153	107	326	485	636	596	442	338	198	11	3,361
Escalante	40	69	196	148	381	497	654	592	445	388	177	16	3,604
Fillmore	11	49	160	124	314	526	684	650	407	306	183	6	3,420
Kanab	76	94	232	184	396	528	670	682	450	342	138	40	3,833
Koosharem	1	18	103	M	M	M	M	M	267	M	85	M	474
Levan	11	38	155	120	283	500	672	645	415	334	190	4	3,367
Manti	5	30	120	96	262	448	646	574	396	304	174	3	3,059
Nephi	16	23	176	142	346	516	692	668	464	354	226	6	3,628
Panguitch	4	40	178	118	305	473	553	530	388	336	169	2	3,094
Richfield Radio K SVC ...	16	70	181	132	310	464	628	566	420	352	198	6	3,340
Average	19	43	155	121	307	477	623	586	394	327	165	10	3,227
Northern Mountains													
Heber	10	18	142	112	293	468	605	576	434	353	198	0	3,208
Morgan	4	32	144	126	292	455	630	617	428	353	192	6	3,278
Olmstead Powerhouse ...	12	30	170	121	334	542	724	705	428	352	182	6	3,605
Scofield-Skyline Mine ...	0	0	8	15	104	256	374	328	202	158	74	0	1,519
Silver Lake Brighton ...	0	0	4	6	64	184	326	291	138	102	43	1	1,160
Woodruff	1	0	44	57	178	318	485	476	316	243	114	0	2,234
Average	4	13	85	73	211	371	524	499	324	260	134	2	2,501
Uintah Basin													
Duchesne	2	20	130	130	275	434	610	538	319	256	75	1	2,790
Jensen	0	30	188	172	360	484	656	626	394	350	131	0	3,392
Roosevelt Radio	0	26	172	180	334	494	632	604	406	341	120	2	3,309
Vernal Airport	0	14	142	119	286	461	608	589	348	264	84	0	2,915
Average	1	22	158	150	314	468	627	590	366	302	102	1	3,102
Southeast													
Arches Nat'l Pk Hq	28	94	303	231	451	642	844	792	578	362	205	14	4,543
Blanding	16	59	200	146	356	529	698	650	440	340	176	14	3,625
Ferron	3	22	161	115	322	512	680	594	403	332	142	5	3,292
Green River Aviation ...	24	93	276	241	456	M	699	M	468	396	167	8	2,829
Hanksville	37	100	282	228	484	593	810	712	518	397	180	14	4,356
Moab	44	117	332	276	490	593	823	768	520	383	224	18	4,586
Average	25	81	259	206	426	574	759	703	488	368	182	12	4,085

Source: Utah Climate Center, Utah State University, Logan, Utah 84322-4825

Normal Growing Degree Days Base 50, by Months, Utah, 1961-90

Division and Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Western													
Callao	13	35	107	204	346	469	643	593	422	248	72	14	3,166
Delta	6	34	107	213	371	514	662	633	452	280	80	11	3,361
Enterprise Beryl Jct	15	37	108	214	357	480	592	569	429	280	93	21	3,195
Eskdale	20	49	125	222	391	519	662	624	460	280	94	21	3,466
Modena	18	40	108	218	369	498	612	587	442	296	94	22	3,304
Rosette	0	15	69	180	377	579	815	747	474	202	30	4	3,492
Average	12	35	104	209	368	510	664	625	446	264	77	15	3,331
Dixie													
St. George	81	163	273	403	580	712	849	817	649	472	220	85	5,305
Zion Nat'l Park	67	120	204	338	539	705	845	818	665	460	192	77	5,030
Average	74	142	239	370	560	708	847	818	657	466	206	81	5,167
North Central													
Farmington USU Fld Stn .	4	22	82	195	360	524	707	669	461	247	60	5	3,336
Logan USU	1	6	38	128	281	451	672	638	391	196	33	2	2,836
Ogden Pioneer PH	3	18	72	180	356	542	744	703	461	250	57	5	3,391
Pleasant Grove	5	27	91	193	358	506	684	646	452	264	73	10	3,308
Provo BYU	6	30	105	237	382	559	706	680	478	267	80	12	3,542
SLC Airport NWSFO	4	23	80	183	358	546	750	712	475	253	65	7	3,454
Tooele	6	18	67	168	337	528	743	694	441	222	50	7	3,281
Tremonton	0	9	54	183	307	507	695	667	430	212	37	3	3,103
Richmond	0	6	44	150	304	443	605	585	404	220	36	2	2,798
Average	3	18	70	180	338	512	701	666	444	237	55	6	3,228
South Central													
Bryce Cnyn Nat'l Pk Hq .	2	4	22	85	212	361	465	419	295	159	27	4	2,054
Cedar City FAA	15	39	91	186	343	513	674	639	453	272	89	23	3,336
Escalante	10	32	98	211	368	505	625	580	429	267	80	11	3,216
Fillmore	10	34	98	200	361	525	687	654	470	273	82	12	3,407
Kanab	41	81	149	258	416	550	685	657	505	352	149	54	3,896
Koosharem	6	15	47	126	268	412	525	494	370	219	61	12	2,556
Levan	3	21	83	184	336	487	648	615	444	269	77	7	3,174
Manti	4	15	67	162	306	458	612	571	394	235	62	7	2,893
Nephi	7	26	92	199	359	510	674	643	464	286	88	13	3,360
Panguitch	9	22	70	166	305	439	537	500	388	255	80	14	2,785
Richfield Radio KSVC	14	38	107	209	353	484	607	578	444	289	95	21	3,238
Average	11	30	84	181	330	477	613	577	423	262	81	16	3,083
Northern Mountains													
Heber	1	8	47	143	292	418	556	532	386	236	56	5	2,681
Morgan	2	10	52	156	314	445	573	553	408	247	54	4	2,817
Olmstead Powerhouse ...	5	22	79	218	337	538	688	659	465	266	70	12	3,357
Scofield-Skyline Mine	0	0	6	46	112	286	375	347	202	88	10	0	1,473
Silver Lake Brighton	1	1	4	20	86	211	347	312	182	70	7	1	1,240
Woodruff	0	2	18	94	220	342	492	466	317	174	27	1	2,152
Average	1	7	34	113	227	373	505	478	327	180	37	4	2,287
Uintah Basin													
Duchesne	2	10	66	187	352	469	613	583	396	216	37	2	2,931
Jensen	1	11	76	210	373	486	608	557	423	250	48	2	3,043
Roosevelt Radio	1	11	80	216	377	497	634	598	432	253	51	2	3,151
Vernal Airport	0	7	64	192	352	481	607	570	406	212	32	0	2,925
Average	1	10	71	201	364	483	615	577	414	232	42	1	3,013
Southeast													
Arches Nat'l Pk Hq	7	53	172	322	508	694	830	798	593	342	113	7	4,438
Blanding	4	21	76	184	351	520	662	619	431	247	61	6	3,181
Ferron	3	14	64	165	321	485	636	598	401	240	55	3	2,983
Green River Aviation	6	42	146	289	453	583	721	681	504	323	93	7	3,848
Hanksville	12	51	167	304	473	594	717	684	518	341	104	11	3,974
Moab	16	67	194	342	518	645	777	750	577	386	136	20	4,427
Average	8	41	137	267	437	587	724	689	504	313	93	9	3,808

Source: Utah Climate Center, Utah State University, Utah 84322-4825

Total Growing Degree Days Base 40, by Months, Utah, 1999

Division and Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Western													
Callao	144	128	307	284	498	680	854	809	600	467	299	94	5,163
Delta	110	190	360	280	500	667	850	806	604	491	330	74	5,264
Enterprise Beryl Jct	168	158	346	269	482	530	714	636	516	472	332	152	4,776
Eskdale	139	179	335	278	536	684	897	796	609	520	354	104	5,432
Modena	162	178	328	262	521	614	814	743	594	521	339	136	5,214
Rosette	36	33	166	166	384	584	786	802	519	436	212	44	4,168
Average	142	159	306	265	509	656	862	809	603	521	331	124	5,286
Dixie													
St. George	320	328	564	516	800	904	1,060	1,052	890	686	480	291	7,890
Zion Nat'l Park	286	294	524	432	714	852	1,018	1,005	747	742	584	276	7,476
Average	303	311	544	474	757	878	1,039	1,028	818	714	532	284	7,683
North Central													
Farmington USU Fld Stn .	114	134	306	M	492	716	916	901	631	512	310	42	5,074
Logan USU	40	47	200	200	425	648	851	872	597	464	264	18	4,627
Ogden Pioneer PH	66	88	266	244	511	728	922	928	662	492	274	M	5,180
Pleasant Grove	82	122	291	263	508	711	889	900	643	484	330	34	5,257
Provo BYU	110	160	352	296	563	744	923	904	663	515	302	43	5,575
SLC Airport NWSFO	82	116	258	245	500	752	956	959	676	492	306	18	5,360
Tooele	106	134	280	268	501	758	964	946	702	528	299	42	5,529
Tremonton	45	50	251	242	434	694	887	879	640	446	266	47	4,882
Richmond	34	58	215	252	436	622	784	790	586	459	262	10	4,509
Average	75	101	269	251	486	708	899	898	644	488	290	32	5,142
South Central													
Bryce Cnyn Nat'l Pk Hq ..	44	45	166	111	275	485	618	580	401	364	193	34	3,316
Cedar City FAA	128	141	300	232	482	644	833	784	637	476	332	82	5,069
Escalante	172	191	353	287	534	652	835	786	636	520	315	112	5,391
Fillmore	83	153	306	263	502	702	872	858	640	479	326	58	5,242
Kanab	220	219	387	340	564	688	866	858	640	449	260	172	5,663
Koosharem	70	106	242	M	M	M	M	M	390	M	174	M	982
Levan	96	140	294	252	474	664	860	836	618	484	308	34	5,059
Manti	80	114	261	212	446	630	855	797	577	452	302	44	4,768
Nephi	112	107	326	282	519	685	867	845	636	490	368	42	5,280
Panguitch	108	155	326	240	455	568	730	686	532	480	300	65	4,647
Richfield Radio KSVC	90	188	334	257	474	604	815	748	577	488	330	80	4,985
Average	109	142	299	248	473	632	815	778	571	468	292	72	4,899
Northern Mountains													
Heber	72	93	280	249	442	593	770	739	552	475	322	30	4,617
Morgan	64	126	288	258	460	622	799	793	564	493	319	37	4,824
Olmstead Powerhouse ...	104	126	320	264	528	730	898	883	626	512	308	50	5,349
Scofield-Skyline Mine	4	6	88	58	210	428	606	541	359	302	182	14	2,799
Silver Lake Brighton	4	6	57	30	156	344	573	542	294	228	138	14	2,386
Woodruff	25	16	133	154	326	480	633	626	465	392	228	4	3,483
Average	46	62	194	169	354	533	713	687	477	400	250	25	3,910
Uintah Basin													
Duchesne	54	94	276	266	465	616	804	777	526	412	195	25	4,508
Jensen	12	117	338	331	525	642	836	804	524	490	238	41	4,898
Roosevelt Radio	6	114	326	330	504	646	808	785	570	485	248	36	4,858
Vernal Airport	21	78	288	270	460	619	790	768	544	425	200	24	4,488
Average	23	101	307	299	488	631	809	784	541	453	220	31	4,688
Southeast													
Arches Nat'l Pk Hq	160	226	470	394	631	822	1,015	966	764	456	338	96	6,338
Blanding	131	180	355	280	564	717	884	851	678	527	312	84	5,562
Ferron	96	118	311	256	510	694	861	810	624	478	268	68	5,094
Green River Aviation	146	212	432	414	627	M	848	M	614	513	308	78	4,191
Hanksville	176	230	450	394	645	764	976	889	692	512	314	120	6,162
Moab	190	250	501	444	652	756	993	941	668	484	359	98	6,336
Average	150	202	420	364	605	750	930	892	674	495	317	91	5,888

M=Missing Data. Source: Utah Climate Center, Utah State University, Logan, Utah 84322-4825

Normal Growing Degree Days Base 40, by Months, Utah, 1961-90

Division and Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Western													
Callao	56	110	236	351	520	648	815	758	577	400	182	58	4,708
Delta	40	106	231	356	536	682	834	804	612	432	186	54	4,871
Enterprise Beryl Jct	70	117	234	356	498	600	737	724	567	428	207	88	4,625
Eskdale	83	139	264	373	550	679	831	788	610	436	213	86	5,050
Modena	78	124	234	358	511	632	770	750	583	439	209	91	4,779
Rosette	14	40	120	242	436	597	801	767	566	344	112	27	4,066
Average	57	106	220	339	508	640	798	765	586	413	185	67	4,683
Dixie													
St. George	217	304	441	577	764	880	1,018	988	815	641	379	223	7,247
Zion Nat'l Park	192	258	378	528	734	875	1,016	990	842	672	367	205	7,058
Average	204	281	410	552	749	878	1,017	989	829	656	373	214	7,152
North Central													
Farmington USU Fld Stn .	35	86	210	358	556	719	882	846	652	421	166	39	4,970
Logan USU	16	38	122	270	488	673	865	838	607	368	111	24	4,422
Ogden Pioneer PH	32	77	190	344	571	752	923	890	672	437	158	41	5,087
Pleasant Grove	40	95	214	348	544	694	863	828	637	431	180	54	4,927
Provo BYU	41	90	239	410	578	743	882	855	666	438	190	56	5,187
SLC Airport NWSFO	34	86	203	345	563	747	926	894	675	437	172	41	5,123
Tooele	41	78	180	329	555	744	929	891	662	406	148	46	5,009
Tremonton	8	47	163	346	514	716	885	856	637	379	125	22	4,698
Richmond	13	40	135	288	471	613	773	753	567	371	116	22	4,163
Average	29	71	184	337	538	711	881	850	642	410	152	38	4,843
South Central													
Bryce Cnyn Nat'l Pk Hq .	29	41	93	203	362	519	655	617	457	302	102	38	3,418
Cedar City FAA	75	120	211	334	524	687	853	828	640	435	203	94	5,002
Escalante	61	114	228	359	528	663	800	763	602	422	198	76	4,814
Fillmore	57	110	222	357	545	698	858	829	648	441	192	64	5,021
Kanab	138	194	292	410	587	719	859	837	689	520	287	160	5,693
Koosharem	48	71	138	252	416	540	670	646	513	360	155	64	3,875
Levan	37	82	197	326	505	657	822	792	612	420	181	50	4,682
Manti	35	69	174	304	480	640	799	766	580	390	162	47	4,445
Nephi	50	95	210	343	532	680	847	815	631	440	194	66	4,903
Panguitch	58	91	179	302	452	553	674	652	528	404	188	78	4,158
Richfield Radio KSVC	70	119	234	356	506	625	768	737	585	439	210	87	4,737
Average	60	101	198	322	494	635	782	753	590	416	188	75	4,613
Northern Mountains													
Heber	21	46	139	278	447	558	702	677	529	383	146	36	3,962
Morgan	25	56	152	293	468	583	722	696	544	394	143	37	4,113
Olmstead Powerhouse ...	34	80	200	379	531	723	866	842	658	444	170	55	4,982
Scofield-Skyline Mine	16	19	50	144	242	460	600	564	359	208	51	10	2,723
Silver Lake Brighton	14	18	35	92	208	370	568	520	336	183	44	15	2,402
Woodruff	8	19	73	209	371	491	638	603	460	310	86	16	3,285
Average	20	40	108	232	378	531	683	650	481	320	107	28	3,578
Uintah Basin													
Duchesne	19	49	170	333	515	646	794	767	566	370	123	22	4,375
Jensen	13	48	188	355	524	637	772	703	558	398	141	24	4,361
Roosevelt Radio	16	50	195	359	536	665	808	769	589	406	146	26	4,566
Vernal Airport	10	40	166	338	512	643	776	736	564	364	114	15	4,276
Average	14	47	180	346	522	648	788	744	569	384	131	22	4,394
Southeast													
Arches Nat'l Pk Hq	61	150	333	509	714	868	1,001	974	779	525	252	82	6,247
Blanding	39	92	192	331	535	702	844	814	638	417	170	56	4,831
Ferron	26	65	169	308	513	682	821	797	595	397	154	38	4,567
Green River Aviation	44	130	292	443	622	745	892	850	656	477	222	63	5,437
Hanksville	65	149	311	454	629	754	887	854	669	491	232	76	5,571
Moab	80	179	356	520	705	816	948	921	742	549	281	102	6,197
Average	52	128	275	427	620	761	899	868	680	476	218	70	5,475

Source: Utah Climate Center, Utah State University, Utah 84322-4825

Freeze Dates and Freeze-Free Period, Utah, 1999 and Averages

Division and Station	1999			Averages		
	Last Spring Minimum of 32° or Below	First Fall Minimum of 32° or Below	Number of Days Between Dates	Last Spring Minimum of 32° or Below	First Fall Minimum of 32° or Below	Number of Days Between Dates
Western						
Callao	May 17	Sep 27	133	May 19	Sep 27	132
Delta	May 17	Sep 28	134	May 20	Sep 28	131
Enterprise Beryl Jct	May 25	Sep 27	125	Jun 08	Sep 14	98
Eskdale	May 17	Sep 28	134	May 29	Sep 23	117
Modena	May 20	Sep 28	131	Jun 01	Sep 21	112
Rosette	Jun 09	Sep 26	109	May 19	Sep 25	129
Dixie						
St. George	Apr 10	Nov 23	227	Mar 27	Nov 05	226
Zion Nat'l Park	Apr 16	Oct 17	184	Apr 21	Oct 30	194
North Central						
Farmington USU Fld	May 11	Sep 27	139	May 07	Oct 08	156
Logan USU	May 01	Sep 27	135	May 04	Oct 10	161
Ogden Pioneer PH	May 10	Oct 16	159	May 02	Oct 16	169
Pleasant Grove	Jul 24	Oct 17	85	May 10	Oct 09	153
Provo BYU	May 11	Oct 17	159	Apr 25	Oct 12	172
SLC Airport NWSFO	May 11	Oct 16	158	Apr 26	Oct 17	177
Tooele	May 16	Oct 17	154	May 04	Oct 15	165
Tremonton	May 12	Sep 27	138	Apr 30	Oct 04	159
Richmond	May 17	Sep 27	133	May 24	Sep 24	124
South Central						
Bryce Canyon Nat'l Pk Hq	Jun 11	Sep 28	109	Jun 19	Sep 04	78
Cedar City FAA	Jun 04	Sep 28	116	May 19	Oct 01	135
Escalante	May 17	Sep 28	134	May 18	Oct 04	140
Fillmore	May 16	Sep 27	134	May 19	Oct 01	136
Kanab	May 04	Oct 18	167	May 03	Oct 21	173
Koosharem	Jun 18	Sep 17	89	Jun 16	Sep 04	81
Levan	May 17	Sep 28	134	May 23	Sep 26	127
Manti	May 17	Sep 27	133	May 24	Sep 27	126
Nephi	May 17	Sep 28	134	May 17	Sep 30	136
Panguitch	May 22	Sep 27	128	Jun 19	Sep 05	79
Richfield Radio KSVC	May 18	Sep 27	132	May 28	Sep 18	113
Northern Mountains						
Heber	Jun 05	Sep 27	114	Jun 05	Sep 11	98
Morgan	May 17	Sep 27	133	Jun 03	Sep 14	104
Olmstead Powerhouse	May 11	Sep 27	139	May 02	Oct 14	167
Scofield-Skyline Mine	Jun 11	Sep 04	85	Jun 23	Sep 03	73
Silver Lake Brighton	Jun 12	Sep 04	84	Jun 28	Aug 28	61
Woodruff	Jun 09	Sep 04	57	Jun 23	Aug 21	59
Uintah Basin						
Duchesne	Jun 05	Sep 28	115	May 15	Sep 27	135
Roosevelt Radio	May 17	Sep 27	133	May 16	Sep 26	134
Jensen	May 18	Sep 27	132	May 21	Sep 17	119
Vernal Airport	May 18	Sep 27	132	May 24	Sep 22	121
Southeast						
Arches Nat'l Pk Hq	Apr 17	Oct 30	196	Apr 10	Oct 26	202
Blanding	May 05	Oct 18	166	May 10	Oct 13	158
Ferron	May 17	Sep 28	134	May 20	Sep 30	133
Green River Aviation	May 19	Oct 17	154	May 06	Oct 04	153
Hanksville	May 06	Sep 29	146	May 10	Oct 04	148
Moab	Apr 16	Sep 29	166	Apr 14	Oct 20	191

Source: Utah Climate Center, Utah State University, Logan, Utah 84322-4825

Enterprise Budgets

Prepared by the Economics Department, Utah State University

The following crop and livestock enterprise budgets were prepared by personnel at Utah State University with input from farmers and ranchers. These budgets are provided to assist farmers and ranchers in evaluating alternatives that may increase the profitability of their operation. The costs and returns commonly vary for a particular farm or ranch from those shown. Therefore, a column has been provided to adapt the budget to reflect the costs and returns for a specific farm or ranch enterprise.

Questions concerning these budgets should be referred to the appropriate contact individual in the Economics department at Utah State University in Logan at 435-797-2310.

Budgets published in this and previous additions of Utah Agricultural Statistics as well as budgets for other crop and livestock enterprises may be found on the extension web page at Utah State University, <http://ext.usu.edu/agecon/>.

Index of Enterprise Budgets by Subject and Year Most Recently Published in Utah Agricultural Statistics, 1992-2000

<i>Enterprise Budget</i>	<i>Most Recent Report Year</i>	<i>Enterprise Budget</i>	<i>Most Recent Report Year</i>
Alfalfa hay establishment with oat hay	1998	Deer Hunt Pack Trip	1996
Alfalfa hay establishment (Grand County)	1994	Elk	1997
Alfalfa hay irrigated (East Millard County)	1997	Grass hay	1998
Alfalfa hay dryland	1993	Lawn Turf	1997
Alfalfa hay (large bales)	1992	Machinery data	1993
Alfalfa hay (small bales)	1992	Manure & Waste Disposal, Dairy	1998
Apples (Utah County)	1994	Oat Hay	1994
Barley (flood irrigated)	1992	Onions	1992
Barley (wheel-line irrigation)	1993	Ostrich	1995
Beans		Pasture, Irrigated	1995
Dry edible (dryland)	1993	Pasture, Native Meadow	1993
Beef Cattle		Pasture Establishment	1995
Background feeder operation	1998	Peaches (Box Elder County)	1994
Beef heifer replacement	1998	Pheasants	1995
Cow/calf	1997	Potatoes, Chipper (Box Elder County)	1994
Cow/calf, southern Utah	2000	Pumpkin	1997
Cow/calf/yearling (Rich County)	1996	Raspberry	1996
Cow/calf/yearling (Uintah Basin)	1992	Safflower (dryland)	1998
Feeder cattle	2000	Sheep, range	1997
Finish cattle	2000	Sheep, farm flock	1992
Canola, Spring irrigated	1996	Soybean	1998
Cherries, Tart	1995	Swine, farrow to finish	1998
Corn for grain (Duchesne County)	1994	Swine, Hog Finishing	1993
Corn Silage	1994	Tomatoes	1996
Corn, Sweet	1996	Triticale	1996
Custom Operators Rates	1998	Turkeys, Hen	2000
Dairy		Watermelons	1996
Holstein Heifer Replacement	1993	Wheat, Winter (dryland, Box Elder County)	1996
Jersey Heifer Replacement	2000	Wheat, Spring (irrigated)	1994
Milk Cows, Jersey	1998	Wheat Straw Residue	1997
Milk Cows, Holstein	1997	Wheat, Soft White Winter (irrigated, Box Elder Co)	2000
Dairy bull	1998		

Enterprise Budget: Soft White Winter Wheat, Box Elder County with Storage, Utah, 1999

	Units	Quantity per acre	Price/Cost per unit	Value/Cost per acre	Your Farm
				Dollars	
Receipts:					
Wheat	bushels	98	3.23	316.54	
Straw	tons	0.5	15.00	7.50	
Total				324.04	
Operating costs:					
Land Preparation					
Plowing	acre	1	6.00	6.00	
roller harrow	acre	1	3.00	3.00	
Planting	acre	1	6.00	6.00	
Seed	pounds	100	0.14	14.00	
Fertilization					
Nitrogen	pounds	100	0.23	22.50	
P2o5	pounds	30	0.23	6.90	
Custom application	acre	1	4.50	4.50	
Pesticides/herbicides					
Harmony extra/MCPA	quart	1	12.15	12.15	
Custom application	acre	1	4.75	4.75	
Irrigation (wheel line)					
Labor	hours	1.03	10.00	10.30	
Water assessment	share	1	10.00	10.00	
Repairs/maintenance	acre	1	1.50	1.50	
Pumping	acre inch	22	0.54	11.88	
Harvesting					
Custom combine	acre	1	26.00	26.00	
Haul grain (custom)	bushel	98	0.06	5.88	
Baling	small bale	33	0.25	8.33	
Haul Straw	small bale	33	0.20	6.67	
Interest on operating capital @ 9.75%				12.69	
Grain Storage	bushel/month	98	0.045	17.64	
Transportation/shipping to market ..	bushel	98	0.12	11.76	
Total operating costs				202.45	
Ownership Costs:					
Property taxes	acre	1	7.00	7.00	
Insurance	acre	1	2.00	2.00	
Depreciation on mach/equip	acre	1	5.00	5.00	
Interest on machinery/equipment ..	acre	1	4.00	4.00	
Total operating & ownership costs ...				220.45	
Net returns to owner for unpaid labor, management, equity and risk					
Above operating costs				121.59	
Above total costs				103.59	

Assumptions: Grain stored in on-farm bins for 4 months. Grain planted in late September and harvested in July. Interest computed on pre-harvest operating costs for 10 months and fertilization/herbicides for 4 months. Machinery operating costs include: fuel, oil, repairs and labor. Machinery costs are based on 300 acres of wheat.

Net returns per acre to operator above operating costs for various wheat prices and levels of production

Bushels per acre	Selling Price (dollars)				
	2.00	2.50	3.00	3.50	4.00
80	-28.47	11.53	51.53	91.53	131.53
90	-12.07	32.93	77.93	122.93	167.93
100	4.33	54.33	104.33	154.33	204.33
110	20.73	75.73	130.73	185.73	240.73
120	37.13	97.13	157.13	217.13	277.13
130	53.53	118.53	183.53	248.53	313.53

Budget prepared by E. Bruce Godfrey and Lyle Holmgren

Enterprise Budget: Beef Cow/Calf Operation, 650 Cows, Southern Utah, 1999

Item	Units	Number	Pounds	Price	Value/cost per cow	Total	Your Farm
Dollars							
Receipts							
Steer calves		296	563	0.89	228.18	148,317	
Heifer calves		296	524	0.86	205.21	133,389	
Cull cows		130	1,100	0.36	79.20	51,480	
Cull bulls		5	1,886	0.42	6.09	3,961	
Total					518.69	337,147	
Expenses:							
Feed							
Federal grazing	AUMs	4,770		10.59	77.72	50,516	
grazing fee	AUMs	4,770		1.35	9.91	6,440	
non-fee cost	AUMs	4,770		9.24	67.81	44,076	
Private range	AUMs	1,363		8.50	17.82	11,585	
Private pasture	AUMs	681		5.74	6.02	3,912	
Alfalfa Hay	tons	114		50.00	8.74	5,679	
Grass hay	tons	114		45.00	7.86	5,111	
Aftermath	AUMs	681		5.00	5.24	3,407	
Supplements					3.36	2,184	
Salt/mineral	tons	20		45.00	1.39	906	
Subtotal					128.15	83,299	
Other							
Vet & Medicine					14.85	9,653	
Trucking					1.33	865	
Commissions					4.53	2,945	
Supplies					8.07	5,246	
Fuel & lube					6.30	4,095	
Hired labor	Man	1		15,000.00	23.08	15,000	
Repairs					8.24	5,356	
Property taxes					2.60	1,690	
Insurance					2.33	1,515	
Replacement bulls	head	5		1,650.00	12.69	8,250	
Replacement heifers	head	143		650.00	143.00	92,950	
Utilities					1.25	813	
Miscellaneous					1.31	852	
Operating interest - 6 months @ 10%		48,683			3.74	2,434	
Subtotal					233.32	151,661	
Total cash expenses					361.48	234,960	
Livestock related non-cash expenses (depreciation)							
Fences & corals					5.38	3,500	
Equipment					7.54	4,900	
Horses					1.85	1,200	
Buildings					4.00	2,600	
Subtotal					18.77	12,200	
Total All Expenses					380.25	247,160	
Net returns over cash expenses					157.21	102,187	
Return to Land, Family labor & Management					138.44	89,987	

Costs for crop enterprises are included in feed costs. All heifers are sold (some for market, the remainder to a heifer raising enterprise). The cost of raising replacement heifers is not included above.

Assumptions

Number of cows in herd	650	Period when calves sold	Oct-Jan
Percent calves weaned	91%	Number of months of feed used by cows by source	
Death Loss		Federal lands	7
Cows	2.00%	Private range	2
Bulls	1.00%	Private pasture	1
Replacement rate		Aftermath	1
Cows	20%	Alfalfa	0.5
Bulls	25%	Grass hay	0.5
Cows per bull	31		
Number of Horses	9		

Budget prepared by E. Bruce Godfrey and Jay Olsen with input from ranchers in Southern Utah.

**Enterprise Budget: Feeder Cattle Operation
Background Feeder Cattle (500 to 850 Lbs)
1,500 Head Operation, Utah, 2000**

Item	Units	Number	Weight	\$/unit	\$/head	Total	Your Farm
..... Dollars							
Receipts							
Steers*	cwt	1,485	816	83.00	670.51	1,005,761	
Cash Expenses							
Calf purchase	cwt	1,500	500	94.00	470.00	705,000	
Feed							
Hay	ton	420		65.00	18.20	27,300	
Barley**	ton	735		96.00	47.04	70,560	
Corn Silage	ton	2,100		25.00	35.00	52,500	
Supplements	ton	105		125.00	8.75	13,125	
Vet & Medicine	head	1,500			8.05	12,075	
Marketing	head	1,500			4.25	6,375	
Yardage (includes feeding costs)	\$/head/day	1,500		0.28	39.20	58,800	
Trucking	head	1,500			7.36	11,040	
Interest @ 10.5%							
Calves	dollars			705,000	18.93	28,393	
Feed	dollars			81,743	2.19	3,292	
Miscellaneous	head	1,500			1.75	2,625	
Total cash expenses					660.72	991,085	
Net return to unpaid labor, management and equity					9.78	14,676	

*Receipt weight has been adjusted for pencil shrink

** If corn is used as concentrate source, it will take 90% of the barley tons

Assumptions:

Days on feed	140
Gain per day	2.5
Calves purchased in October and sold in March	
Interest figured on cost of calf plus one-half the feed cost for period of feeding	
Percent death loss	1.00%
Average pounds of feed per head per day	
Hay	4.0
Barley	7.0
Corn Silage	20.0
Supplements	1.0
Percent pencil shrink	4.0%

Net returns to unpaid labor, management and equity per head given alternative purchase and selling prices

Purchase prices (\$/cwt)	Selling Price (\$/cwt)						
	75	77	79	81	83	85	87
85	-8.03	25.24	41.40	57.56	73.71	89.87	106.03
87	-1.23	15.24	31.40	47.56	63.71	79.87	96.03
89	-10.91	5.24	21.40	37.56	53.71	69.87	86.03
91	-20.91	-4.76	11.40	27.56	43.71	59.87	76.03
93	-30.91	-14.76	1.40	17.56	33.71	49.87	66.03
95	-40.91	-24.76	-8.60	7.56	23.71	39.87	56.03
97	-50.91	-34.76	-18.60	-2.44	13.71	29.87	46.03

Budget prepared by E. Bruce Godfrey, DeeVon Bailey, Dale Zobell, and Michelle Snyder with input from feed yard owners in Utah

Enterprise Budget: Feedlot Finish Cattle (850 to 1,250 lbs) Operation, 1,500 Head, Utah, 2000

Item	Units	Number	Weight	\$/unit	\$/head	Total	Your Value
..... Dollars							
Receipts:							
Steers*	cwt	1,470	1,200	72.00	855.36	1,270,210	
Cash Expenses:							
Feeders	cwt	1,485	850	83.00	705.50	1,047,668	
Feed							
Hay	ton	186		65.00	9.19	13,650	
Barley**	ton	1,856		96.00	33.94	50,400	
Corn Silage	ton	464		26.00	152.73	226,800	
Supplements	ton	93		125.00	36.63	54,390	
Vet & Medicine	head	1,500			7.05	10,469	
Marketing	head	1,500			4.25	6,311	
Yardage (includes feeding costs)	\$/head/day	1,500		0.28	35.00	51,975	
Trucking	head	1,500			11.50	17,078	
Interest @ 10.5%							
Calves	dollars	1,047,668			25.37	37,673	
Feed	dollars	172,620			4.18	6,207	
Miscellaneous	head	1,500			1.75	2,599	
Total cash expenses					1,027.08	1,525,219	
Net return to unpaid labor, management and equity					-171.72	-255,010	

*Receipt weight has been adjusted for pencil shrink

** If corn is used as concentrate source, it will take 90% of the barley tons

Assumptions:

Days on feed 125
 Gain per day 3.2
 Calves purchased in March and sold in August
 Interest cost figured on cost of calf plus one-half the feed cost for period of feeding
 Percent death loss 1.00%

Average pounds of feed per head per day

 Hay 2.0
 Barley 20.0
 Corn Silage 5.0
 Supplements 1.0
 Percent pencil shrink 4.0%

Net returns to unpaid labor, management and equity per head given alternative purchase and selling prices

Purchase prices (\$/cwt)	Selling Price (\$/cwt)							
	68	70	72	74	76	78	80	82
75	-148.80	-125.04	-101.28	-77.52	-53.76	-30.00	-6.24	17.52
77	-166.41	-142.65	-118.89	-95.13	-71.37	-47.61	-23.85	-0.09
79	-184.02	-160.26	-136.50	-112.74	-88.98	-65.22	-41.46	-17.70
81	-201.63	-177.87	-154.11	-130.35	-106.59	-82.83	-59.07	-35.31
83	-219.24	-195.48	-171.72	-147.96	-124.20	-100.44	-76.68	-52.92
85	-236.86	-213.10	-189.34	-165.58	-141.82	-118.06	-94.30	-70.54
87	-254.47	-230.71	-206.95	-183.19	-159.43	-135.67	-111.91	-88.15

Budget prepared by E. Bruce Godfrey, Dale Zobell, DeeVon Bailey, and Michelle Snyder with input from feed yard owners in Utah

Enterprise Budget: Jersey Replacement Heifer, 1999

Item	Unit	Quantity	\$/unit	Total	Your Farm
..... Dollars					
Receipts:					
Replacement heifer	head	1	1,700.00	1,700.00	_____
Operating Costs:					
Heifer calf (day old)	head	1	200.00	200.00	_____
Feed					
Alfalfa hay	tons	3	80.00	240.00	_____
Silage	tons	2	28.00	56.00	_____
Grain/concentrates	lbs	850	0.09	76.50	_____
Salt & minerals	lbs	8	0.17	1.36	_____
Milk	gallons	10	1.00	10.00	_____
Milk replacement	bags	0.9	45.00	40.50	_____
Other direct costs					
Veterinary & medicine ...	head	1	9.50	9.50	_____
Breeding	head	2	15.00	30.00	_____
Bedding	head	1	6.00	6.00	_____
Fuel	head	1	11.00	11.00	_____
Repairs & maintenance	head	1	22.50	22.50	_____
Death loss (3.00%)	head	1	28.50	28.50	_____
Miscellaneous	head	1	18.00	18.00	_____
Hired labor	head	1	38.00	38.00	_____
Interest @ 9.5%					
Operating capital	dollars	294		51.19	_____
Heifer	dollars	200		34.83	_____
Total operating and interest cost				873.89	_____
Net returns to operator labor, management and risk					
above feed costs				1,275.64	_____
above operating costs and interest				826.11	_____

Assumptions

- Death loss - 3.00%
- Age sold as replacement - 22 months
- Interest on heifer is based on the initial cost of the calf
- Operating interest is based on one-half all operating costs for 22 months

Budget prepared by E. Bruce Godfrey and Clark Israelsen

Enterprise Budget: Raising Hen Turkeys, 7,500 Poults, Utah, 1999

Item	Number	Units	Lbs- per bird	Price per unit	Total Value	Value per poult	value per evisc.	Your Farm
..... Dollars								
Receipts								
Grade A	5,971	pounds	12.91	0.60	46,253.30	6.17	0.51	_____
CP grade	1,054	pounds	12.15	0.55	7,041.68	0.94	0.08	_____
Total Receipts	7,025				53,294.99	7.11	0.59	_____
Operating costs								
Poults	7,500	poults		0.35	2,625.00	0.35	0.03	_____
Feed								
Starter 1	42.22	cwt		12.56	530.28	0.07	0.01	_____
Starter 2	207.15	cwt		10.14	2,100.50	0.28	0.02	_____
Grower 1	477.52	cwt		9.83	4,694.02	0.63	0.05	_____
Grower 2	1,411.05	cwt		9.12	12,868.78	1.72	0.14	_____
Grower 3	350.47	cwt		8.35	2,926.42	0.39	0.03	_____
Transportation	232	miles		0.50	116.13	0.02	0.00	_____
Shavings								
Brooder	1	load		650.0	650.00	0.09	0.01	_____
Growout	0.25	load		650.0	162.50	0.02	0.00	_____
Medicine								
					500.00	0.07	0.01	_____
Disinfectants								
					100.00	0.01	0.00	_____
Heat								
Natural gas	215	decathcrms		5.42	1,165.30	0.16	0.01	_____
Propane	0	gallons		0.93	0.00	0.00	0.00	_____
Equipment operating								
					175.00	0.02	0.00	_____
Lighting	800	kwh		0.07	56.00	0.01	0.00	_____
Labor	327.5	hours		10.00	3,275.00	0.44	0.04	_____
Processing	89,892	pounds		0.19	17,079.46	2.28	0.19	_____
Cleanup								
Brooder					100.00	0.01	0.00	_____
Growout					200.00	0.03	0.00	_____
Maintenance & repairs								
					200.00	0.03	0.00	_____
Operating interest @ 9%	25,745	percent			584.02	0.08	0.01	_____
Subtotal					50,108.42	6.68	0.56	_____
Fixed costs								
Depreciation								
Buildings					500.00	0.07	0.01	_____
Equipment					200.00	0.03	0.00	_____
Property taxes					200.00	0.03	0.00	_____
Insurance					300.00	0.04	0.00	_____
Interest					400.00	0.05	0.00	_____
Subtotal					1,600.00	0.21	0.02	_____
Net returns								
Above feed & poult					27,549.98	3.67	0.31	_____
above variable					3,186.57	0.42	0.04	_____
above total					1,586.57	0.21	0.02	_____

Budget prepared by E. Bruce Godfrey, David Frame, Gary Anderson, and Ruby Ward with input from producers in Sanpete county.

Per Capita Consumption of Major Food Commodities: United States, 1989 - 1998

Commodity	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Pounds										
Red meats <u>2/ 3/ 4/</u>	115.9	112.3	111.9	114.1	112.2	114.7	115.1	112.8	111.0	115.6
Beef	65.4	63.9	63.1	62.8	61.5	63.6	64.4	65.0	63.8	64.9
Veal	1.0	0.9	0.8	0.8	0.8	0.8	0.8	1.0	0.9	0.7
Lamb & mutton	1.0	1.0	1.0	1.0	1.0	0.9	0.9	0.8	0.8	0.9
Pork	48.4	46.4	46.9	49.5	48.9	49.5	49.0	45.9	45.6	49.1
Poultry <u>2/ 3/ 4/</u>	53.9	56.3	58.3	60.8	62.5	63.3	62.9	64.1	64.2	65.0
Chicken	40.9	42.4	44.2	46.7	48.5	49.3	48.8	49.5	50.4	50.8
Turkey	13.1	13.8	14.1	14.1	14.0	14.1	14.1	14.6	13.9	14.2
Fish and shellfish <u>3/</u>	15.6	15.0	14.8	14.7	14.9	15.1	14.9	14.7	14.5	14.8
Eggs <u>4/</u>	30.5	30.2	30.1	30.3	30.4	30.6	30.3	30.6	30.7	32.0
Dairy products										
Cheese (excluding cottage) <u>2/ 5/</u>	23.8	24.6	25.0	26.0	26.2	26.8	27.3	27.7	28.0	28.4
American	11.0	11.1	11.1	11.3	11.4	11.5	11.8	12.0	12.0	12.2
Italian	8.5	9.0	9.4	10.0	9.8	10.3	10.4	10.8	11.0	11.3
Other Cheese <u>6/</u>	4.3	4.5	4.6	4.7	5.0	5.0	5.0	5.0	5.0	4.8
Cottage cheese	3.6	3.4	3.3	3.1	2.9	2.8	2.7	2.6	2.7	2.7
Beverage milks <u>2/</u>	224.2	221.8	221.1	218.3	213.4	213.6	209.8	210.0	206.9	204.5
Fluid whole milk <u>7/</u>	97.5	90.4	87.3	84.0	80.1	78.8	75.3	74.6	72.7	71.6
Fluid lower fat milk <u>8/</u>	106.5	108.5	109.9	109.3	106.6	106.0	102.6	101.7	99.9	98.5
Fluid skim milk	20.2	22.9	23.9	25.0	26.7	28.8	31.9	33.7	34.3	34.4
Fluid cream products <u>9/</u>	7.8	7.6	7.7	8.0	8.0	8.1	8.4	8.7	9.0	9.2
Yogurt (excluding frozen)	4.2	4.0	4.2	4.2	4.3	4.7	5.1	4.8	5.2	5.1
Ice cream	16.1	15.8	16.3	16.3	16.1	16.1	15.7	15.9	16.4	16.6
Lowfat ice cream <u>10/</u>	8.4	7.7	7.4	7.1	6.9	7.6	7.5	7.6	7.9	8.3
Frozen yogurt	2.0	2.8	3.5	3.1	3.5	3.5	3.5	2.6	2.1	1.9
All dairy products, milk										
equivalent, milkfat basis <u>11/</u>	563.8	568.4	565.6	565.9	574.1	586.0	583.9	574.7	577.7	582.3
Fats and oils - total fat content	60.5	63.0	64.8	66.8	69.7	68.0	66.4	65.3	64.9	65.3
Butter & margarine (product weight)	14.6	15.3	15.0	15.4	15.8	14.8	13.7	13.5	12.8	12.5
Shortening	21.5	22.2	22.4	22.4	25.1	24.1	22.5	22.3	20.9	20.9
Lard & edible tallow (direct use)	1.8	2.2	1.8	3.5	3.4	4.2	4.4	4.8	4.1	5.2
Salad & cooking oils	24.4	25.3	26.4	27.2	26.9	26.2	26.9	26.2	28.6	27.9
Fruits and vegetables <u>12/</u>	656.0	656.1	650.3	677.7	691.3	705.8	694.3	710.9	717.9	699.6
Fruit	278.0	272.6	255.3	283.8	283.1	291.0	284.8	290.2	296.8	281.4
Fresh fruits	122.9	116.3	113.0	123.5	124.5	126.3	124.1	128.1	131.9	131.8
Canned fruit	21.2	21.0	19.8	22.9	20.7	21.0	17.5	18.8	20.4	17.3
Dried fruit	13.2	12.1	12.3	10.8	12.6	12.8	12.8	11.3	10.8	12.8
Frozen fruit	4.1	3.8	3.8	3.9	3.7	3.8	4.2	4.0	3.7	4.2
Selected fruit juices	116.4	119.0	106.0	122.1	121.2	126.7	125.8	127.7	129.3	115.0
Vegetables	378.0	383.5	395.0	393.9	408.3	414.7	409.5	420.7	421.1	418.1
Fresh	172.2	167.1	167.4	171.1	178.2	184.6	179.1	184.1	190.4	186.5
Canning	102.4	111.6	114.4	112.2	112.9	112.4	110.8	109.5	107.8	108.0
Freezing	67.4	66.8	72.6	70.9	76.0	78.4	79.9	84.7	81.9	82.3
Dehydrated and chips	29.8	31.0	32.8	31.5	33.6	31.0	31.3	34.5	32.7	32.9
Pulses	6.3	7.1	7.8	8.1	7.7	8.4	8.4	8.0	8.3	8.4
Peanuts (shelled)	7.0	6.0	6.5	6.2	6.1	5.8	5.7	5.7	5.9	5.9
Tree nuts (shelled)	2.2	2.4	2.2	2.2	2.4	2.3	1.9	2.0	2.1	2.3
Flour and cereal products <u>13/</u>	174.2	181.5	183.0	185.5	190.1	192.9	191.3	197.4	198.9	--
Wheat flour	129.8	136.0	137.0	138.9	143.3	144.4	141.9	148.7	149.5	147.8
Rice (milled basis)	14.8	15.8	16.2	16.7	16.7	18.1	18.9	17.8	18.5	18.9
Caloric sweeteners <u>14/</u>	133.1	137.0	137.9	141.2	144.4	147.4	149.9	150.7	154.1	--
Coffee (green bean equiv.)	10.1	10.3	10.3	10.0	9.1	8.2	8.0	8.9	9.3	--
Cocoa (chocolate liquor equiv.)	4.0	4.3	4.6	4.6	4.3	3.9	3.6	4.2	4.1	--

--=Not available. 1/ In pounds, retail weight unless otherwise stated. Consumption normally represents total supply minus exports, nonfood use, and ending stocks. Calendar-year data, except fresh citrus fruits, peanuts, tree nuts, and rice, which are on crop-year basis. 2/ Totals may not add due to rounding. 3/ Boneless, trimmed weight. Chicken series revised to exclude amount of ready-to-cook chicken going to pet food as well as some water leakage that occurs when chicken is cut up before packaging. 4/ Excludes shipments to the U.S. territories. 5/ Whole and part-skim milk cheese. Natural equivalent of cheese and cheese products. 6/ Includes Swiss, Brick, Muenster, cream, Neufchatel, Blue, Gorgonzola, Edam, and Gouda. 7/ Plain and flavored. 8/ Plain and flavored, and buttermilk. 9/ Heavy cream, light cream, half and half, eggnog, sour cream, and dip. 10/ Formerly known as ice milk. 11/ Includes condensed and evaporated milk and dry milk products. 12/ Farm weight. 13/ Includes rye, corn, oats, and barley products. Excludes quantities used in alcoholic beverages, corn sweeteners, and fuel. 14/ Dry weight equivalent.
 Source: Economic Research Service/USDA - Agricultural Outlook/May 2000; Information contact: Jane E. Allshouse (202) 694-5414

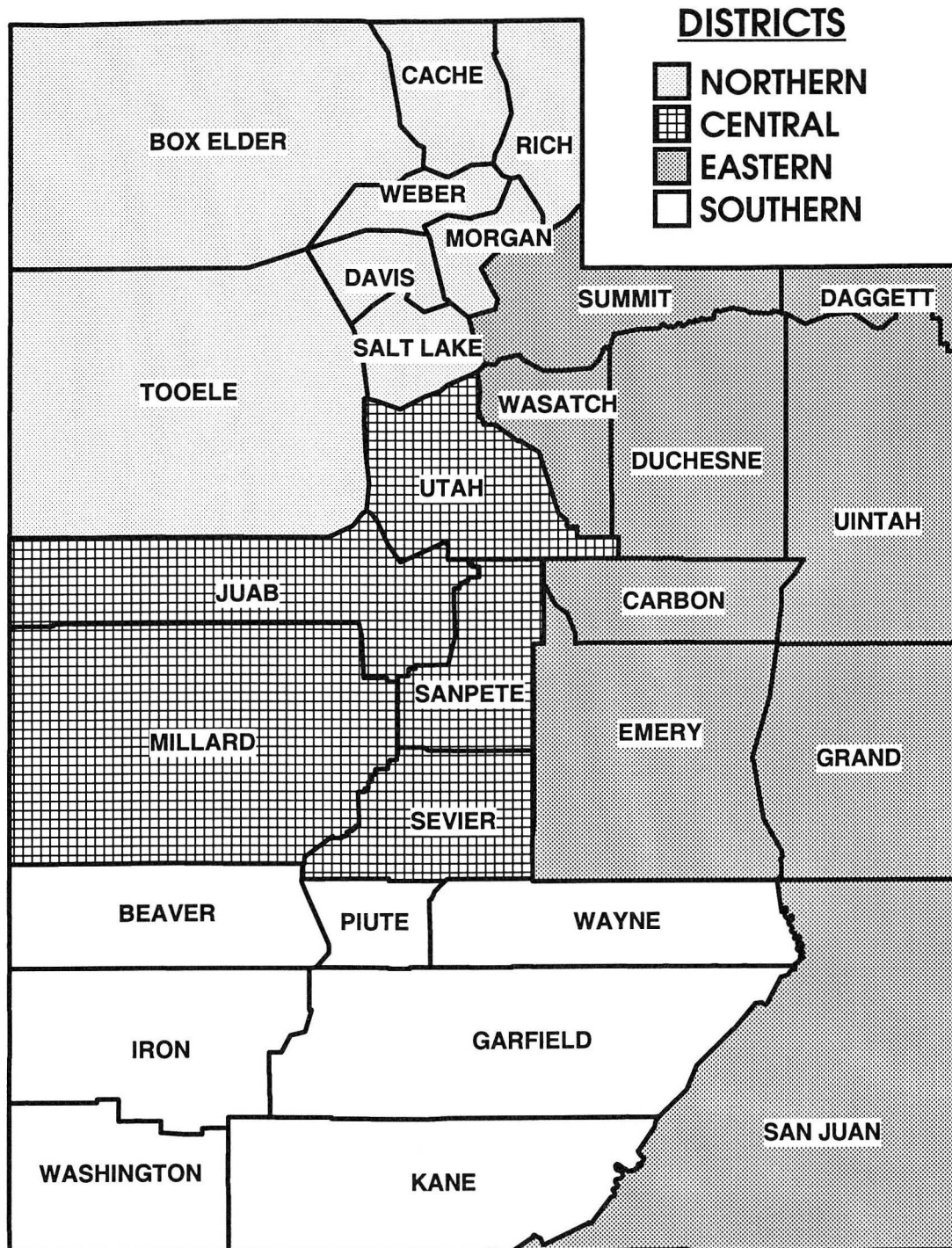
Farm Real Estate: Average value per acre, by Region and State, January 1, 1996-2000

State	1996	1997	1998	1999	2000	Change 1999/2000
	Dollars					Percent
Northeast	2,220	2,240	2,280	2,370	2,470	4.2
Connecticut	5,950	5,950	5,950	6,300	6,600	4.8
Delaware	2,550	2,580	2,660	2,750	2,850	3.6
Maine	1,150	1,170	1,190	1,200	1,210	0.8
Maryland	3,110	3,150	3,180	3,300	3,500	6.1
Massachusetts	5,100	5,150	5,210	5,500	5,900	7.3
New Hampshire	2,250	2,250	2,250	2,250	2,300	2.2
New Jersey	7,100	7,100	7,000	7,000	7,100	1.4
New York	1,260	1,250	1,280	1,340	1,410	5.2
Pennsylvania	2,270	2,300	2,390	2,500	2,620	4.8
Rhode Island	6,500	6,500	6,500	6,500	6,500	0.0
Vermont	1,490	1,500	1,520	1,570	1,640	4.5
Lake States	1,130	1,200	1,280	1,390	1,490	7.2
Michigan	1,420	1,530	1,670	1,850	2,100	13.5
Minnesota	1,030	1,090	1,160	1,230	1,270	3.3
Wisconsin	1,130	1,170	1,240	1,370	1,500	9.5
Corn Belt	1,510	1,610	1,730	1,830	1,840	0.5
Illinois	1,900	1,980	2,130	2,250	2,220	-1.3
Indiana	1,740	1,870	2,060	2,220	2,210	-0.5
Iowa	1,450	1,600	1,700	1,770	1,750	-1.1
Missouri	950	1,010	1,070	1,130	1,190	5.3
Ohio	1,820	1,890	2,040	2,220	2,250	1.4
Northern Plains	463	481	499	510	526	3.1
Kansas	553	565	577	580	590	1.7
Nebraska	610	620	645	670	695	3.7
North Dakota	383	390	401	406	415	2.2
South Dakota	310	325	348	360	380	5.6
Appalachian	1,550	1,630	1,720	1,840	1,940	5.4
Kentucky	1,300	1,350	1,450	1,530	1,590	3.9
North Carolina	1,900	2,000	2,080	2,250	2,400	6.7
Tennessee	1,530	1,650	1,810	1,950	2,100	7.7
Virginia	1,840	1,880	1,920	2,040	2,130	4.4
West Virginia	980	1,050	1,090	1,070	1,060	-0.9
Southeast	1,580	1,630	1,700	1,770	1,920	8.5
Alabama	1,320	1,360	1,440	1,520	1,680	10.5
Florida	2,150	2,200	2,240	2,260	2,400	6.2
Georgia	1,360	1,430	1,510	1,630	1,800	10.4
South Carolina	1,360	1,400	1,480	1,520	1,600	5.3
Delta States	1,020	1,070	1,130	1,180	1,230	4.2
Arkansas	1,010	1,070	1,150	1,220	1,250	2.5
Louisiana	1,180	1,190	1,210	1,210	1,250	3.3
Mississippi	917	980	1,050	1,100	1,180	7.3
Southern Plains	541	557	596	613	631	2.9
Oklahoma	547	570	610	625	634	1.4
Texas	540	554	593	610	630	3.3
Mountain	383	399	415	426	440	3.3
Arizona ^{1/}	880	920	987	1,070	1,140	6.5
Colorado	558	590	618	630	640	1.6
Idaho	900	960	1,020	1,090	1,170	7.3
Montana	289	291	294	296	300	1.4
Nevada ^{1/}	332	366	392	420	440	4.8
New Mexico ^{1/}	212	215	217	217	215	-0.9
Utah ^{1/}	740	780	807	855	900	5.3
Wyoming	206	215	222	220	235	6.8
Pacific	1,670	1,730	1,780	1,870	1,890	1.1
California	2,400	2,500	2,610	2,770	2,850	2.9
Oregon	928	960	960	1,000	1,020	2.0
Washington	1,120	1,160	1,190	1,190	1,150	-3.4
48 States	887	926	974	1,020	1,050	2.9

^{1/} Excludes Native American Reservation Land.



UTAH COUNTIES AND DISTRICTS



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