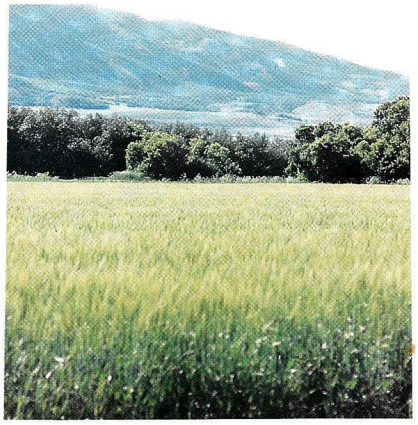
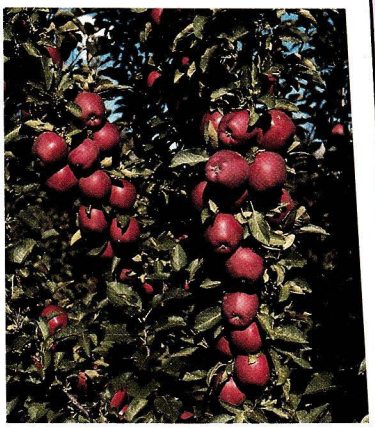
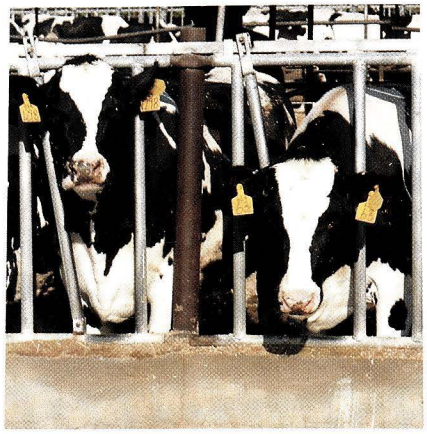
1994 Utah Agricultural Statistics

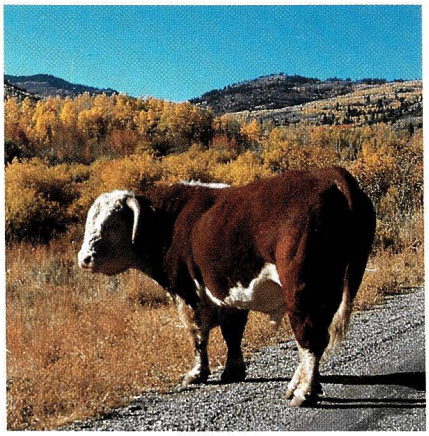


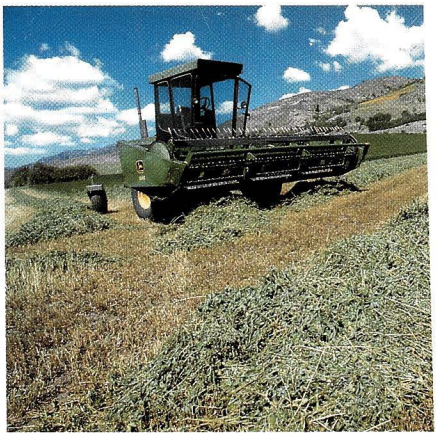


Utah Department Of Agriculture Annual Report

Enterprise Budgets







Michael O Leavitt,
Governor,
State of Utah

Dear Fellow Utahns:

Many critical issues face Utah farmers and ranchers today, both at the federal level and here in the state. A major factor in all these issues is getting various interests — wildlife managers, agency land managers, ranchers and farmers, environmentalists, sportsmen and other observers to agree on a few broad, major principles that can guide future management of our state's valuable natural resources.

Recently we got representatives of these various groups together in starting a program to manage wildlife responsibly and in a way that is acceptable to such varied interests. We hope to do the same in rangeland management, water management, preserving prime farmland, and other areas of vital concern to the men and women who produce our food, feed and fiber here in Utah.

In the United States, we now have fewer than 2 percent of the population feeding all other Americans plus billions of people around the world. In Utah, farmers and ranchers make up less than 1 percent of our population! With nearly 140 people depending for their survival on each American farmer, we need to maintain a social and economic climate that allows them the freedom to operate efficiently.

Studying this report will indicate just a few of the stresses that are facing our farmers and ranchers. Numbers of sheep have dropped drastically in Utah over recent decades, farm numbers have dropped, and gross farm revenues have stayed about level in the face of inflation. As suburban areas have expanded, the challenges of farming have increased.

We must keep the agricultural section of our economy strong; we need the diversity of producing food here in the state. We're grateful for the bounteous supply of safe, wholesome food our Utah ranchers and farmers produce, and we salute them for their diligence and perseverance.

Sincerely,

Michael O. Leavitt

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 provide a detailed look at Utah's agricultural production. Also included are budgets for helping farmers and ranchers evaluate the potential profitability of various agricultural commodities produced in the State.

The U.S. Department of Agriculture's Utah Agricultural Statistics Service and the Utah Department of Agriculture have jointly prepared this publication for the past 24 years. Estimates presented in the publication are current for 1993 production, and January 1, 1994 inventories. Data users that need 1994 information or historic data should contact the Utah Agricultural Statistics Service, phone 801-524-5003. Statistics for other States and the United States are also available at the office.

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

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

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

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Deputy Commissioner

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Randy Parker
Director of Agricultural Marketing and Enhancement

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

Ahmad Salari
Director of Laboratory Services/State Chemist

G. Richard Wilson
Director of Plant Industry

Kyle R. Stephens
Director of Regulatory Services

Kaye Butler
Administrative Secretary

Agricultural Advisory Board

Kenneth R. Ashby, Chairman
Utah Farm Bureau Federation

Lee Reese, Vice Chairman
Utah Farmers Union

Dean Blackhurst, Utah Dairymen's Association

Paul Frischknecht, Utah Wool Growers Association

Darrell Johnson, Utah Cattlemen's Association

Parry Olsen, Food Processing Industry

Dean Parker, Utah Horse Industry

Wes Peterson, Utah Association of Conservation Districts

Grant Tingey, Utah Livestock Marketing Association

Carma Wadley, Consumers' Representative

Dr. James E. Williams, Utah Veterinary Medical Association

6-30-94

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Deputy Commissioner	538-7102
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Public Information Officer	538-7104
Administrative Secretary	538-7105
Administrative Services	
Director	538-7110
Budget and Accounting	538-7111
Data Processing Services	538-7113
Personnel and Payroll	538-7112
Agricultural Marketing and Enhancement	
Director	538-7108
Ag Resource Development Loans	538-7176
Environmental Quality	538-7172
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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
Meat Inspection	538-7117
Serology Laboratory	538-7165
Chemistry Laboratory	
Director	538-7128
Bacteriology Laboratory	538-7129
Feed & Fertilizer Laboratory	538-7134
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Entomology	538-7184
Fresh Fruit & Vegetable Inspection	538-7183
Grain, Seed & Feed Inspection	538-7187
Grain Grading Lab (Ogden UT)	392-0603
Information Specialist	538-7196
Insect Infestation Emergency Control	538-7180
Noxious Weeds	538-7183
Pesticides/Fertilizers	538-7188
Seed Laboratory	538-7182
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Bedding, Quilted Clothing, &Upholstered Furniture	538-7151
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Metrology (measurement) Laboratory	538-7153
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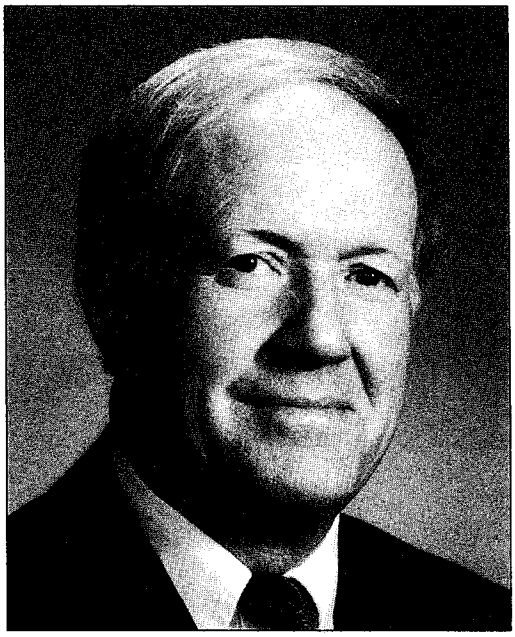
Commissioner of Agriculture
Cary G. Peterson



Dear Friends of Utah Agriculture:

The mission of this department is to insure a high-quality, safe, readily available and sustainable supply of food and fiber for the citizens of Utah. Today and in the foreseeable future, preserving our prime agricultural land and water for the purpose of maintaining a **sustainable** food supply is our greatest challenge.

Every year, more acres of prime Utah farmland in her fertile valleys move from grass and other crops to rooftops and blacktop as development invades agricultural areas. Utah and other western states are spacious, and people realize that there's plenty of room here for a good lifestyle. But we need to look at other alternatives than taking our prime farmland for other purposes. Only about one million acres of Utah's land — about 2 percent of the state's total area — are planted to irrigated crops. If we are to provide a sustained supply of food for Utah, plus open space and wildlife habitat, we need to protect our cropland from inappropriate development. Our water supply also needs protection, both for municipal use and for agriculture; here at the Utah Department of Agriculture, we have an entire section devoted to protecting soil and water.

To meet our state's goal of self-reliance, we need to have our own food production and processing system in place, and allow it to grow with our population. The ability and right of farmers and ranchers to produce food and fiber have been the basis for economic growth and development for all sectors of our economy. In order to sustain Utah's and America's valuable farm economy and land base, farmers and ranchers must be encouraged to and have the right to stay in farming when they use best management practices.

A major reason for maintaining Utah's agricultural industry is that its tax base is vital to our state's economy. Agricultural production and processing produce a surplus, compared to services required. Another economic factor is that agribusiness provides more than 100,000 jobs for Utahns.

Besides sustainability, another important concept in our department's mission is food safety. Our department's scientists are dedicated to maintaining animal and plant health. Our inspectors maintain a constant vigil on food purity. And despite the scares on food safety — which usually rely on emotions rather than scientific evidence, our food supply here in Utah and the United States is the safest, highest quality, most varied, lowest cost in the history of the world. We take pride in this accomplishment.

Sincerely,

Cary G. Peterson, Commissioner
Utah Department of Agriculture

Mission Statement

The mission of the Utah Department of Agriculture 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 Utah agricultural products and by aggressively seeking new markets for those 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 UDA's animal industry, plant industry, weights and measures, and food and dairy inspectors, compliance officers and field representatives. It 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 and Enhancement

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

UDA 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 in-state processing of Utah agricultural products for a stronger state economy.

When residents of Utah go to the grocery store, they should be able to depend on getting a reliable supply of high-quality, nutritious food. Protecting that food supply is the mission of the Utah Department of Agriculture.

Commissioner's Office

Following are programs and issues that received department attention in 1993. (Many of these topics are described at greater length in the division reports.) Two of the biggest problems facing Utah agriculture in 1993 were related to land.

Public land grazing fees and water rights

In the public land sector, the federal government took steps to double the fee for grazing livestock on public land (with the fee being only a small part of the costs involved for ranchers) and to tighten regulations on ranchers. The government also staked a claim on water arising on public lands, though states have been recognized as the owners and managers of such water since the founding of the nation. The Utah Department of Agriculture has worked to keep federal decisions fair for state ranchers.

Preserving prime farmland

In private land matters, the challenge was to preserve the state's prime farmland for food and feed production. With the increase in both industry and population, farmers have felt pressure to sell their land to developers. The 1994 state legislature addressed this problem with a law permitting counties to establish agricultural zones which can't be developed.

However, farmers and ranchers need to retain their constitutional guarantee of fair compensation when their right to sell their land at development prices is taken away by public action. For many farmers, their land equity is their only retirement program.

Department planning

Planning came in for major emphasis in Utah's state government during 1993, and in the Utah Department of Agriculture as well. The commissioner of agriculture, deputy commissioner and division directors used the five key objectives adopted by the governor to guide them in a master plan for the department.

Some of the goals established were as follows:

- Encourage production in Utah of a sustainable supply of food and fiber.
- Regulate agriculture in such a way as to assure a safe, wholesome, properly labeled food supply for Utah consumers.
- Stimulate preservation and enhancement of Utah's agricultural base.

"Take Pride in Utah"

This program is designed to increase Utah residents' pride in their state through environmental clean-up, classroom education about Utah, and other methods. The Utah Department of Agriculture takes regular part in the planning and projects of the state TPIU committee.

Activities conducted by UDA employees during the past year included helping organize and carry out clean-ups and tree-plantings in Carbon and Emery counties on Castle Country Cleanup Day, clean-ups by youth along the Jordan River and in Mill Creek Canyon, and other activities.

Opening foreign markets for Utah products

The department's marketing director carried out a series of activities during the past year in efforts to increase Utah's export of beef, apples, onions, etc.

Meat inspection

With illnesses and even some deaths caused by pathogens such as *E. coli* in under-cooked meats making headlines during 1993, requirements for meat inspection were tightened during the year. Zero tolerance for contamination became the watchword of the industry. One procedure emphasized in 1993 was Hazard Analysis Critical Control Point (HACCP). This isolates a specific areas in slaughter plants for special attention, usually the point where most contamination occurs. HACCP will be implemented in Utah and nationally in the near future; many Utah inspectors are already trained in the program.

Southern Utah hog project

After finally receiving approval of its plans for waste disposal, the joint-venture company Circle Four completed construction on its initial housing in the Milford area. This hog-production project received its first shipment of baby pigs in May 1994. Eventually, the project will have about 100,000 sows, with a goal of producing more than two million or more market hogs a year for the West Coast and Pacific Rim markets.

Predator control program

Continued pressure by environmentalists created increased predator losses for Utah's livestock producers in 1993. The department operated the preventive program of aerial predator hunting for a full month while USDA's Animal Damage Control program was limited to hunting only where losses actually occurred.

Compounding the problem was a drop in "head taxes" paid by ranchers and farmers to help with the cost of the program. This reduction in funding not only hurts Utah's livestock enterprises; it puts the wildlife of the state in double jeopardy. First, more predators mean more wildlife death losses. (The 1993 deer harvest dropped significantly from 1992; many wildlife managers attributed this to increased numbers of cougars.) Second, since deer, elk, moose and other wild animals get their winter feed almost entirely on farms and ranches, loss of livestock operations will mean less winter feed and still higher wildlife death losses.

Utah Foundation for Agriculture in the Classroom

Teaching Utah's youth to understand and appreciate farmers and ranchers is the goal of this program. Teachers use a handbook

Van Burgess
Deputy Commissioner
Utah Department of
Agriculture

written for kindergarten through sixth grade which ties agricultural demonstrations, experiments and lessons to the core curriculum. They also take students to nearby farms for tours, have farmers and their wives speak in the classroom, and use other methods to increase students' understanding of agriculture.

The program has had almost no funding, so the Utah Ag in the Classroom committee helped organize a foundation (Utah Foundation for Agriculture in the Classroom or UFAC), which was registered as a non-profit corporation in May 1994. The department has people on the board of directors and is helping raise funds to hire a full-time coordinator and finance projects.

1994 legislative action

The 1994 Utah legislature treated agriculture well, improving opportunities for agribusiness and correcting potential problem areas for farmers, ranchers and rural residents. Following are some of the bills passed which most affected farmers and ranchers.

- **Protection of private property rights** — Requires local governments to measure ordinances and rules against guidelines to determine the potential for "takings" of private property under the constitution. This is a continuation of the bill passed last year for state agencies. Utah may be the first state to move this private property protection to the local government level.
- **Increased funding for predator control** — Increases by 20 percent the amount of money the department matches with producer-contributed funds for predator control in the Animal Damage Control account. It strengthens the program against increasing predation and declining funding for control.
- **Shift in fish disease regulation** — Shifts the administration of aquaculture for disease control, both private and public, from the Division of Wildlife Resources to the Utah Department of Agriculture. UDA already regulated diseases in animals and birds.
- **Easing of big-game damage on farms and ranches**—Provides additional tools to DWR to mitigate big-game damage on cropland and private rangeland. It isn't a compensation program, but rather offers a variety of ways for DWR to reduce damages to both crops and forage by big game, such as with easements and big game tags.
- **Payments for big game damage to crops, etc.** —Removes the cap on damages paid for crop damage by big game and adds fences and sprinkler systems to the list of damages compensated. The law provides for claims less than $500 to be paid right away; large claims are to be held until the end of the year and pro-rated according to money available.
- **Increase in biotechnology research**—Appropriates an additional $250,000 annually to the Utah State University biotechnology research program, bringing the annual appropriation to $750,000.
- **Agricultural preservation areas** — Enables counties, upon petition of agricultural landowners, to establish agricultural preservation areas. These areas would be given additional protection from nuisance suits, adverse zoning, and encroachment from urban development.

Other bills passed by legislature which affect agriculture make it illegal to interfere with legal hunters, set up a voluntary payment of one cent per hundredweight of milk produced for education and lobbying, keep federal agencies out of county land planning, start on Governor Leavitt's health-care program, and request Congress to recognize Western water rights.

Agricultural investigation and compliance

Investigation into violations of department rules and regulations is one of the main assignments of the department's compliance specialist. Another is working with the Animal Damage Control (ADC) program, which carries out predator control on public and private rangelands.

The compliance specialist also files administrative orders to violators of state rules and informs division directors about action — fines, suspension of sales, etc. — resulting from hearings.

Motivating livestockmen to pay their assessments for predator control continues to be a challenge for this staff member. As legal and regulatory challenges to the program arise and predator control suffers, livestock losses mount. As a result, many ranchers are financially unable to pay the assessments.

Public information

Besides performing the usual information duties of the department, the department information officer focused on several projects that demanded action.

- **Agriculture in the Classroom** — Formation of the Utah Foundation for Agriculture in the Classroom required a lot of time and attention from the former AITC committee, chaired by the UDA information officer. Writing and getting signatures on the Articles of Incorporation, drafting the by-laws, planning possible activities for the foundation, and helping get fund-raising under way were some of the duties.
- **Grazing fees and regulations on public rangeland** — This issue continued to require a lot of information work, both for people in the agricultural industry and to communicate with the general population. In the West, it's critical to the beef and sheep industries that ranchers continue to have access to public lands.
- **5-A-Day program**—Eating five servings of fruit and vegetables a day is not only a health issue for Utahns and other Americans; it's a marketing and public information issue for agriculture. The information officer helps a committee representing health, agriculture and the food industry with information activities.

Administrative Services

Renee Matsuura
Director

The mission of this division is to provide continuous, efficient and high-quality administrative support and service to the public and to agency users in helping with the overall development of agriculture in Utah.

One of its main functions is to provide financial support to the department by insuring that all financial transactions are processed according to state policies and procedures and within budgetary guidelines. Other responsibilities include: human resources management, establishment of department policies and procedures for controlling state assets in the department, and information technology in the form of centralized data processing services. Major activities are:

Planning and budget

During the past year, the planning and budgeting process has been challenging, due to changes made and anticipated. Changes included documenting the department's needs and relating those needs or budget increases to the governor's five key objectives through strategic planning.

This planning will not only include the budget process itself, but also the department's involvement with Utah Tomorrow (the state's long-range planning project) and reporting of performance measurers. Appropriate performance measures that accurately reflect agency efforts and accomplishments are essential for a successful planning and budgeting process.

Financial Management

Training has been the main focus for all administrative services employees during the past year. Employees have taken Microsoft Windows training classes to prepare for the new financial management system (FI-NET) being implemented July 1.

Over the past year, the division has assigned employees to participate as members of a technical team, agency coordinator team, and an acceptance-testing team.

Several months have gone into planning and developing the department organization structure, defining expense and revenue budgets, defining reporting categories for grants, preparing conversion documents, and identifying users' software and hardware needs. We are in the final stages of preparing department-wide documentation and defining agency security access for division directors, supervisors, and financial and support staff to meet the July 1, 1994, implementation date.

Users will be able to generate information reports without being restricted to a standard report. Copies of policies and procedures will be available through Folio, a computer-based package which allows on-line access-and-search capabilities. The department is now responsible for setting up its own bank accounts, with depositories identified by the treasurer's office.

Information Technology

The state Office of Planning and Budget has bought software called Envisions which state agencies are required to use to generate their annual Information Technology Plan. The Utah Department of Agriculture will be required to establish a department project, then have divisions focus on their needs for software and hardware. Agencies are to look into the future far enough that decisions made now will integrate with future directions. Information Technology plans are to be integrated with agency strategic plans and outcome measurement.

All division were required to upgrade their PC computers and terminals this past year.

A Geographic Information System (GIS) has been purchased, and department employees who will use this system have been identifying data that can be shared with other state agencies, counties, and local agencies.

The department is also concerned with its participation in the governor's electronic highway. Since the Wide Area Network has been connected, the department has access to internet and electronic mail systems which provide a world-wide communications tool.

The department programmer-analyst has developed several programs, including a program for issuing 16,000 licenses to beekeepers, bedding and upholstery manufacturers, agricultural products dealers, commercial pesticide applicators, and others; a chemistry laboratory analysis report; a food sanitation program conversion; petty cash reports; a pesticide enforcement tracking system; an election and ballots program for the dairy association; a revision of the cash receipt program; and others.

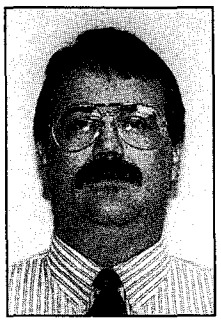
Contracts

Contract information and payments will be processed on the new FI-NET system after it is put into use July 1, 1994. All contracts have been manually converted. The department has also established a uniform contract form which allows contracts to be approved in a more timely and efficient manner.

Miscellaneous

Training supervisors to reduce liability has been a main focus of the department this year. The state Division of Risk Management has provided training programs, including workers' compensation and the Americans with Disabilities Act.

Agricultural Marketing & Enhancement



Randy Parker
Director

The goal of the Marketing and Resource Enhancement Division is to assist production agriculture in economic development and to protect and enhance the state's natural resources. The division assists agriculture and agribusinesses in expanding markets, adding value to locally grown commodities, developing new products and promoting further in-state processing for state, national and international markets.

The division also works with farmers and ranchers to enhance soil and water resources through soil conservation and water quality programs. A vital component in this effort is the division-administered Agriculture Resource Development Loan (ARDL) and Rural Rehabilitation Loan Programs.

Agribusiness Council

In March 1994, Governor Michael O. Leavitt appointed a ten-member Agribusiness Council to develop strategies and carry out recommendations of the Agribusiness Development Task Force. The council, through the Utah Department of Agriculture, received $100,000 to begin work on the far-reaching set of recommendations that will focus on adding value to Utah's agriculture commodities and strengthen the state's rural economy.

The council will coordinate efforts to match producers and processors of commodities so Utah products are used in Utah processing, when possible. It will develop a database to provide access to local production and processing capabilities for in-state and out-of-state businesses, assist in privatizing new technology and innovation, and look for answers to the current financing problems facing production agriculture and agribusinesses.

Marketing

The division co-sponsored a seminar last year with the Western United States Agricultural Trade Association (WUSATA) on "Exporting to Mexico." The day-long seminar included information from USDA's Foreign Agricultural Service, WUSATA, the Utah Department of Agriculture and Steven Stoffel, a successful exporter and consultant, who discussed general trade issues and answered specific export questions.

Western United States Agricultural Trade Association

As a member of WUSATA, the division has been involved in a variety of export programs and initiatives. For fiscal year 1993-94, four Utah-based companies received more than $100,000 in matching grant monies to help them develop overseas markets. Export assistance is available through WUSATA for both generic and branded products.

Through WUSATA, the livestock states in the western region have a joint marketing program focusing on Mexico. Several trade missions from the western states have introduced livestock genetics to various regions of Mexico. In addition, a delegation of Mexican Charolais cattle breeders visited Utah recently to meet with local Charolais producers.

Mexico City food show

The USDA Foreign Agricultural Service sponsors Festival de Alimentos y Bebides to introduce high-value food and beverage products in Mexico. This is the largest exhibition for U.S. products in the world. With the start-up of the North American Free Trade Agreement, numerous tariffs on high-value food products entering Mexico have been eliminated or reduced. The Mexico City food show provides an excellent opportunity to introduce products to Mexican distributors and agents.

Four Utah companies attended the September 1993 Festival de Alimentos y Bebides. Representatives of Norbest, Cookie Tree Bakeries, Cache Valley Cheese and Agri-Marketing, Inc., introduced their products to Mexican food buyers for three days at the show. In addition, they attended seminars on the Mexican marketplace, heard from Mexican importers, and toured food distribution centers and supermarkets. The division assisted Utah companies who took part in the Mexican Food Show.

Mexican apple exports

The division, working with the Plant Industry Division, assisted Utah's apple industry in seeking certification to export into Mexico. A formal application was made to Sanidad Vegetal, Mexico's regulatory agency that oversees plant health issues, seeking certification to market Utah apples in Mexico. A meeting was held in Mexico City between Sanidad Vegetal, division officials, Utah's Mexico office, and apple industry representatives to identify the steps needed to meet Mexico's requirements. Necessary documents were filed, and in November an inspection of Utah apple storage facilities was completed. In early 1994, Utah received certification based on approval of the work plan that outlines inspection and means of payment.

Federal/state market improvement program

In June 1993, the U. S. Department of Agriculture awarded a grant of $80,000 to the Utah Department of Agriculture to investigate the opportunity of marketing a value-added alfalfa product through brand recognition and packaging. A brand name has been established, packaging and test marketing, particularly in the high horse population centers of the Southeast. A final report on the project will be filed with USDA in June 1994.

Value-added alfalfa

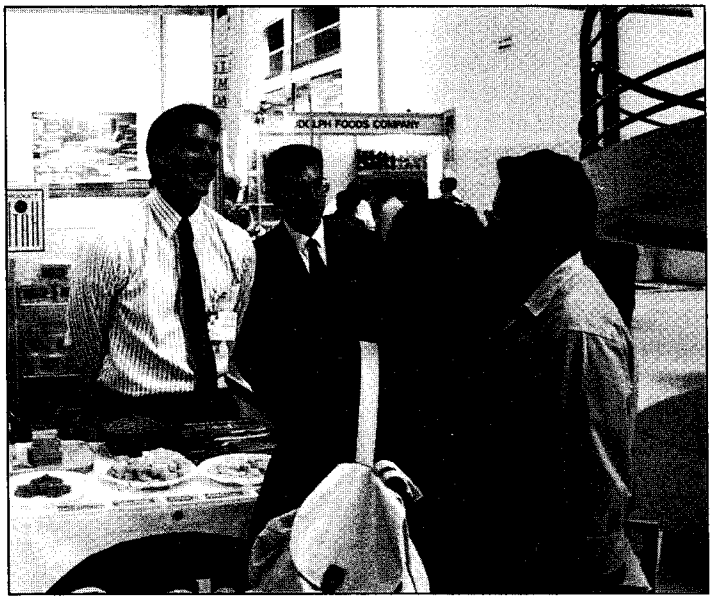
A major private and public effort has been undertaken in recent months to add value to Utah's largest cash crop, alfalfa. Historically, farmers and ranchers — including hay growers — have been price-

takers, not price-makers. Utah alfalfa is recognized worldwide as being top-quality, both from a nutrition and palatability standpoint. To add to its value, growers and a marketing group identified a niche market apart from the traditional California dairy market. Recognizing that horses have moved into the category of family pet and that 150-pound bales are inconvenient for children and their mothers to handle, a convenience package was test-marketed. Under the trade name "Certified Utah Medallion Alfalfa" or "CUMA," a 40-pound box of "Our Best For Your Best" has made its way into the convenience market at appropriate pricing.

Product of Utah program

The product of Utah program is available to a broad range of Utah products, not just agriculture and food products. The program is designed to help industry identify high-quality Utah-produced products to establish consumer recognition and preference. The division currently is working with more than 100 businesses in media advertising, point-of-purchase, label identification, brochures, hang tags and numerous other ways to get consumer attention. As Utah businesses and national and international corporations ask about Utah products, the division sends them information. Monies are available to Utah companies to help with costs on a cooperative basis.

Helping Utah food processors present their products and sales message to overseas buyers — like these visitors at a Mexico City trade show — is just one of the marketing efforts of this division at UDA.



Business development

During the past year, the division has been very involved in developing opportunities for Utah agriculture and agribusiness. Business recruitment, marketing studies and financial alternatives are areas in which the division has helped the past year. In addition, the division has worked with businesses to development export markets, especially in Mexico.

Milford hog project

Groundbreaking for the multi-million-dollar Circle Four hog project near Milford, Utah, in November 1993 was the beginning of a five-year phase-in that will include production of more than two million market hogs, a feed milling operation and ultimately a slaughter and processing facility. (The operation is a joint venture by Smithfield Foods, Carroll's Foods, Murphy Farms — a subsidiary of West Isle Partners, Inc. — and Prestage Farms.) The division worked with local and state officials in helping Circle Four move through the permitting process. In May 1994, the first hogs were delivered to the facilities to begin production. In the first year, they plan to have 5,000 sows which will increase to 100,000 sows in three to five years. The companies project that more than $400 million will be invested in the local economy and more than 1,000 direct and indirect jobs will be created. At full production, Circle Four will have an estimated $335 million or more in annual sales.

Market news reporting

The market news section provides vital help to Utah farmers and ranchers. Market information needed in making business decisions is provided through print and electronic media, a call-in auction line and a weekly summary report. More than 600 subscribers get the weekly Market News Report. Division personnel and contract market reporters cover five Utah auctions for the report: Cedar City, Salina, Smithfield, Spanish Fork and Weber. In addition, a hay market report is included that includes both seller and buyer information to provide an unbiased report.

The division works with the USDA Livestock Reporting Service under a cooperative agreement. The agreement provides USDA with needed country reports while providing the division with upgraded equipment and access to timely nationwide market information. This plan provides better service to Utah agriculture.

Junior livestock shows

This is a new program in the division, mandated by the legislature to give financial help to junior livestock shows across the state. To participate, shows must agree to comply with association rules that provide an educational opportunity for participants from anywhere in the state. During the last year, 18 junior livestock shows

participated in the program. Young people participated in shows ranging from traditional market livestock shows to broiler and turkey shows to dairy goat and horse shows.

Utah Horse Racing Commission

In 1992, the Utah legislature passed the Horse Regulatory Act which assigned broad industry responsibilities. Last year, the act was amended to narrow the responsibilities and set up a five-member racing commission to regulate the state horse racing industry and sanction tracks in Utah. To allow Utah quarter horse race times to be recognized, a sanctioning body was required by the American Quarter Horse Association. During the first official race season completed in October 1993, about 48 percent of the racehorses received a Rating of Merit, an index that helps establishes stud and mare values. Without the official sanctioning body, Utah horses would have been worth millions of dollars less.

To improve security at the sanctioned tracks, an amendment to the racing rules included photo identification and fingerprinting on all applications. The rules were further strengthened to require jockeys to wear protective jackets.

Agricultural Resource Development Loans (ARDL)

Low-interest ARDL loans are available through the Utah Soil Conservation Commission in cooperation with the department's ARDL program. ARDL loans are made for a maximum term of 12 years at 3 percent interest with a one-time technical assistance fee of 4 percent. The objectives of the program are to: (1) Conserve soil resources; (2) conserve water resources; (3) increase agricultural yields for cropland, orchards, pasture, range and livestock; 4) maintain and improve water quality; (5) conserve and improve wildlife habitat; (6) prevent flooding; (7) conserve and/or develop on-farm energy ; and (8) reduce damages to agriculture as a result of flooding, droughts, or other natural disasters.

Four consecutive years of drought prompted the 1991 legislature to appropriate $1.3 million in additional ARDL funds. In 1992, the appropriation was $190,000 because of a $1-million appropriation for rural rehabilitation loans. The ARDL program now has more than $20.9 million in assets and more than $15 million out in loans. More than $30 million has been advanced for improvement projects by the ARDL program since its beginning.

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. Total assets for this fund are more than $3 million, with $2.6 million out in loans.

Soil conservation

The soil conservation section works with Utah's Soil Conservation Commission (USCC) and the 39 soil conservation districts (SCDs). In conjunction with their federal and state counterparts, they make up the local, state and national conservation partnership that helps land owners and managers protect and enhance the state's soil and water resources. The USCC helps develop, coordinate and implement soil erosion and water pollution control programs in Utah.

The division staff helps with the Annual Utah Conservation Field Day, which is sponsored by a different SCD each year. The tenth annual field day took place in mid-June 1994 in the Rich County SCD.

The soil conservation section works with several federal agencies, including the Soil Conservation Service (SCS), which provides land managers with technical assistance, and the Agricultural Stabilization and Conservation Service (ASCS), which provides additional cost-sharing for projects.

Water Quality

The division's environmental quality section administers Utah's nonpoint-source (NPS) water pollution control and prevention program, which is partially funded through a federal grant from the Environmental Protection Agency. Projects are also supported by matching funds from state and local government agencies and private sources. The program is divided into several parts: watershed management projects, which are generally on-the-ground conservation efforts; groundwater monitoring, which is a combination of education and monitoring; and information and education — a combination of public information, including newsletters, brochures, video shows, etc., and school and adult education.

The program's most extensive watershed restoration project is taking place in the Little Bear River watershed of Cache County. More than $350,000 has gone toward stream stabilization, animal waste storage facilities, revegetation, and other work. Another demonstration project along Otter Creek in Piute and Sevier counties has used nearly $200,000 of local, state and federal money so far for stream stabilization, wetland construction and revegetation.

The Otter Creek project stands out because it marks the first time in Utah that EPA money has been used by another federal agency. In this case, the EPA grant money was awarded to a local rancher to conduct range improvements on his public-land grazing allotment, which is owned by the Bureau of Land Management. Both EPA and BLM are pleased with this trial in the Otter Creek area.

Animal Damage Control

Jim Winnat
Director

Every year, Utah wool growers lose about 10 percent of their animals to predators (10.8 percent in 1992, the last year for which statistics are available). Cattlemen suffer fewer but still costly losses to coyotes, mountain lions, bears, and other predators. Annual livestock losses to predators in Utah run about $3 million, even with a control program in place.

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

Utah's program, which includes 15 state hunters and 16 federal employees, is held up as a model of cooperation all over the nation.

The program is financed jointly, with the federal government paying about half and state government and livestock owners paying the balance. In Utah, livestock owners pay a fee — nicknamed a "head tax" — set by state law. The amount depends on the type of animals they produce; sheepmen pay 59 cents per ewe for all animals not in year-around confinement, cattlemen pay 25 cents per breeding cow, and turkey owners pay 10 cents per breeding hen. A 16-cent promotional assessment for lamb and wool sales-building is included with the sheep payments, making the billed amount 75 cents per ewe.

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

Methods used to control coyotes include aerial hunting in fixed-wing planes and helicopters, calling and shooting, trapping, denning, and M-44 cyanide ejectors which only kill offending coyotes.

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

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

Utah Sheep Losses to Predators - 1992
(Latest year for which figures are available)

Predators Causing Losses	Total Head Lost: Lambs Before Docking	Lambs After Docking	Sheep	Value of All Losses
Coyotes	7,100	19,900	6,300	$2,430,900
Mountain lions	1,500	5,500	2,200	671,600
Bears	100	2,100	800	219,000
Dogs	400	900	400	124,100
Eagles	1,400	300	0	124,100
Other	1,200	1,800	800	277.400
TOTALS	11,700	30,500	10,500	$3,847,100

Total of 52,700 sheep and lambs lost out of 490,000 total = 10.8% loss.

In the last half of 1993, in all five Bureau of Land Management districts in Utah, ADC was restricted to hunting only in emergency situations — after a confirmed kill of livestock by a predator. For one month (in parts of September and October), just before livestock were scheduled to go onto winter range and when the most effective preventive hunting can take place, the state department of agriculture took over aerial hunting in areas with a history of predator losses. The Utah Wildlife Damage Prevention Board directed UDA to take over the control; otherwise, livestock losses would have been terrible.

After cattle and sheep went onto BLM grazing land, ADC continued to hunt on an emergency basis; that is, hunters would have to confirm a kill and, within seven days after the loss, get BLM's permission to try to kill the offending predator. They could only hunt within three miles of the loss, and they would have to stop hunting the offending animal after seven days unless they confirmed another kill and got permission again.

Hunting predators from the air is the most effective way to keep livestock losses close to a tolerable level.

ADC hunters are still on emergency status in three districts — Salt Lake, Richfield and Moab. Environmental assessments (EAs) have been aapproved for the Vernal and Cedar City districts. In the Vernal district, an appeal was filed on the EA, but the stay was lifted and preventive hunting is now being done there. No appeal was filed in the Cedar City district; full hunting activities are also going on.

Livestock loss figures show that when lethal control of predators was halted in the Vernal district in the winter of 1992 and only non-lethal methods such as guard dogs, noisemakers, and strobe lights were used, losses were four to eight times as heavy as in prevous years.

Even with ADC taking 4,347 coyotes, 16 bear, and 36 cougars in 1991, the losses were still crippling. (Those kills were up to 5,827 coyotes, 10 bears and 54 cougars in 1993.)

Animal Industry

Dr. Michael R. Marshall
Director

Livestock accounts for about three-fourths of the agricultural revenue of the state, and the animal industry division of the Utah Department of Agriculture serves that industry with four main bureaus or programs:

(1) Animal health, with special attention to animal diseases which can be transmitted to humans.

(2) Serology laboratory testing of animal blood for disease detection and control.

(3) Meat and poultry inspection to assure consumers of wholesome products.

(4) Animal identification (brand registration and inspection) to discourage livestock theft.

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

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

Animal Health

Future animal health benefits were enhanced this year by the start of construction of a veterinary diagnostic laboratory in Logan. This new facility is owned by the Utah Department of Agriculture and will be staffed and maintained by Utah State University. Completion is scheduled for July 1994.

In 1993, Utah became the second state in the nation to have its swine industry qualify as pseudorabies-free (Stage V), and it continues to enjoy that status.

A new swine enterprise started construction in the Milford area in late 1993. The joint venture, called Circle Four Farms, is made up of four large swine industry companies: Smithfield Foods, Carroll's Foods, Murphy Farms — a subsidiary of West Isle Partners, Inc. — and Prestage Farms. They will add more than 12,000 sows to the swine population of the state in the very near future, with an eventual goal of marketing five million hogs a year.

The sheep industry continued to work on the scrapie rules and program.

Dog heartworms still continue to be monitored, and the division is working with the state mosquito abatement program staff on the problem.

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

The department veterinarians also reviewed 7,842 import health certificates for animals in 1993, working closely with ports-of-entry personnel to be sure animals coming into the state were properly inspected and certified. These activities generated 30 citations, which resulted in correcting deficiencies on incoming animal health requirements.

The bison herd on Antelope Island was checked again and found to be free of brucellosis and tuberculosis.

There is a growing ratite (ostrich) population in Utah, and the incoming birds' health certificates are monitored by the division. The rules for importation of animals were updated this year.

The National Poultry Improvement Plan (NPIP) for the state is now implemented and administered by the state veterinarian's office.

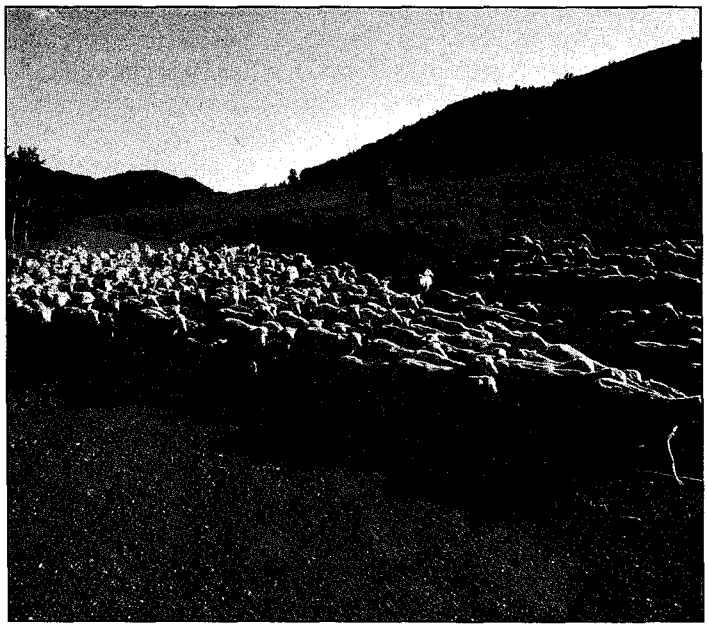
Serology laboratory

Testing for brucellosis was again the major activity of this lab. Of 72,066 total tests run in the laboratory last year, 62,727 were brucellosis blood tests and 8,994 were ring tests on milk to prevent this disease, which has serious implications for humans. The balance of the tests run last year were for a variety of diseases and for vaccine viability.

The laboratory also dispensed 144,000 doses of brucellosis vaccine; the supply ran out before all needs were met. Private veterinarians bought the additional vaccine so all calves could receive the protection.

The division regulates imported livestock, birds and other animals to protect Utah's animal and human population from imported diseases. During the year, the staff issued 2,182 permits as part of this effort.

Sheep numbers are declining in Utah due to several types of economic pressure on producers, but animal health is good.



Meat and poultry inspection

The meat and poultry inspection bureau has experienced some significant changes in inspection procedures to reduce pathogens in meat and poultry. This has resulted in increased inspectional effort and dramatic changes in the way meat and meat products are inspected to prevent any possibility of product contamination. All inspectors and meat producers have intensified their efforts to achieve zero tolerance for contaminants.

Hazard Analysis Critical Control Point (HACCP) is not a mandatory program right now, but it is the basis for future inspection. HACCP training has been provided for many of the bureau's inspection personnel. This program identifies critical control points where products are most likely to become contaminated or adulterated during production. This is a program which will be implemented throughout the country soon.

Training is a vital part of meat and poultry inspection, and it has top priority in the development of all Utah inspectors. Through the federal training facility at College Station, Texas, the bureau has established a training program equal to that of the federal training system. Our training officer has been certified to provide any and all training to inspectors that would be provided at the federal facility. By the bureau providing the training locally, the state realizes thousands of dollars in savings and gains greater program efficiency.

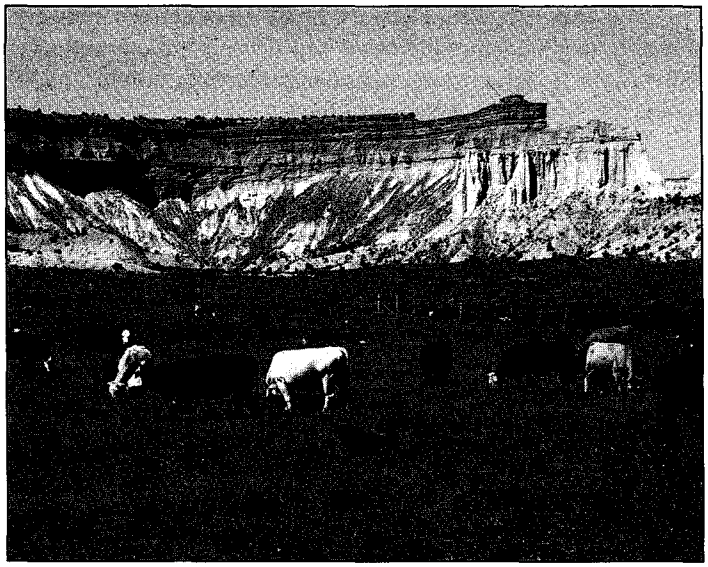
Four new custom meat processors opened their doors for business in the state during the past year, and one major meat processor completed an addition of 14,400 square feet to its facility to serve increasing demands. The industry served by inspection services continues to expand to meet consumers' demands for cleaner, safer products. Several individuals have inquired about the possibility of building meat packing plants here.

Because of the growth and complexity of the meat industry, the meat and poultry inspection bureau has added one veterinarian to its staff. This person will serve as a veterinary supervisor, assessing and evaluating the performance of the individual inspectors and providing additional training and direction to the inspectors.

Animal identification

The livestock (brand) inspection bureau consists of 11 full-time "special function officers" and 50 part-time inspectors whose job is to protect the livestock industry of the state from theft or loss of livestock. In addition to inspecting all cattle and horses at the state's ten weekly auctions, they do field inspections on all livestock before the animals change ownership, leave the state, or go to slaughter. During 1993, more than 700,000 individual cattle and horses were inspected and $1.3 million worth of livestock returned to the proper owners.

Besides providing inspection at a new auction which opened near Ogden during the past year, the bureau intensified its effort along the state borders by assigning a full-time inspector to work on a regular basis at each of the state's ports-of-entry. Their major efforts are to prevent stolen animals from leaving the state and to see that diseased animals do not enter.



Beef cattle continue to be the number one agricultural enterprise in the Beehive State. UDA inspectors make sure that beef products in the stores are wholesome.

All inspectors received additional training during the past year in order to provide better service and consistency among inspectors from one end of the state to the other.

A dairy calf self-inspection program was fully put into place last year, allowing dairymen the convenience and cost savings of giving an inspection certificate to buyers of calves less than 30 days old without having to call a brand inspector. It immediately resulted in the investigation and subsequent arrest of several individuals caught stealing this type of animal.

A heightened awareness of hide damage has caused many brand owners to start branding on an animal's shoulder or hip instead of a rib. These changes are listed in a new supplement to the 1990 brand book now in print which shows the latest brand recording information.

Finally, a new brand display case has been built and put in the main lobby of the Utah Department of Agriculture building. Besides the backdrop of a large quilt showing numerous Utah brands, a collection of old branding irons from each county, along with a short history of each, is included in the display. All Utahns and other visitors are invited to enjoy this when they are in Salt Lake City.

Chemistry Laboratory

Ahmad Salari
Director

Because the Utah Department of Agriculture chemistry laboratory operates as a service for various divisions in the department, both consumers and agricultural producers benefit from the chemical and microbiological analyses it provides.

Analysts in the lab help ensure that food and feed products are wholesome, free of unlawful additives or residues, and in conformity with label claims. The majority of the samples they analyze are collected and forwarded by various inspection units in UDA's divisions of plant industry and regulatory services and by inspectors in the state and federal meat inspection programs.

Products tested by the laboratory for specific ingredients listed in label guarantees include feed; fertilizer; meat and meat products; pesticide formulations; pesticide residues; and filling material in bedding, garments and furniture. Products are also examined for the presence of undesirable materials such as filth, insects, rodent contamination, adulterants and inferior contents.

Besides conducting analyses for UDA, the lab has a contract to perform analyses on meat and meat products for the state of Montana. Last year, 44 such samples were analyzed.

In recent years, emphasis has been placed on greater quality control and faster turn-around time for samples submitted. But even with an increased workload, new testing equipment bought for the lab in recent years has helped hold the increase in analysts to only one employee.

Following is a list of the number of analyses performed in the main categories of work in the chemistry laboratories during the past two years:

	Number of analyses	
Type of Analysis	1992	1993
Federal and state meat	2,073	1,613
State meat	1,337	1,450
Montana meat samples	82	44
Dairy microbiology lab	22,711	23,531
Fertilizer	940	757
Feed	1,126	1,010
Pesticide formulations	261	206
Pesticide residue	63	65
Pesticide residue in milk	792	3,346
Textile, bedding, upholstery	121	332
Special samples	79	166
TOTAL	29,585	32,520

Laboratory assignments

Two separate laboratories actually make up the division, the chemistry laboratory and the microbiology laboratory, with the chemistry laboratory containing several different test areas. Following are descriptions of the functions of the various laboratories.

Dairy microbiology laboratory

This facility tests in four major areas: Grade A raw milk, industry laboratory certification, quality milk, and consumer products. The section is certified by the U.S. Food and Drug Administration to test for standard plate count (SPC), coliform count, foss optical method, antibiotics, phosphates, and fat and water determinations.

Meat laboratory

This section analyzes meat and meat product samples obtained during regular inspections of plant and processing facilities to check their conformation to USDA standards. Tests are also performed on samples from Utah's meat sample program.

Pesticide formulation laboratory

This is primarily concerned with testing agricultural pesticides such as weed killers, insecticides, rodenticides and fungicides to see that labeling and active ingredient contents are proper.

Pesticide residue laboratory

Plants, fruit, soil, water and milk products are tested to detect levels of insecticides, herbicides and fungicides. This type of testing is becoming more important in Utah and the nation.

Feed laboratory

Commercial feed samples are brought to this laboratory to be analyzed for protein, fat and fiber as well as minerals and vitamins. This testing helps farmers get good value for their money.

In other testing, fertilizer samples are analyzed for primary and secondary micronutrient content. Bedding, upholstered furniture, and quilted clothing are also tested for accuracy of label guarantees. When a consumer complaint is received about a product, a special sample is submitted to the lab for examination for the presence of such undesirable materials as filth, insects and other adulterations.

Recent accomplishments

Several special accomplishments have allowed the laboratory to perform its duties more safely and efficiently.

- The Utah quality control/quality assurance and standard operating procedure was reviewed, completed, and forwarded to EPA Region VIII in Denver for their scrutiny.
- A gas chromatograph (sophisticated analysis equipment) was purchases with $60,000 of EPA funds.
- A quality control/quality assurance program and standard operating procedure was developed for the feed and fertilizer programs.
- The pesticide residue laboratory was remodeled and expanded.
- Chemicals were transferred to the new chemical storage building.

Plant Industry

G. Richard Wilson
Director

Plant industry division staff members perform a wide variety of duties in the following areas.

Entomological Activities

The state entomologist administers the Utah Bee Inspection Act, the Insect Infestation Emergency Control Act, and various entomological services. Major functions performed during 1993 are summarized below.

Apple Maggot — The apple maggot survey and detection program in Utah was implemented to provide for the state's continued access to export markets. Last year, 15,000 traps were used in a survey of adult maggots. Since the program's 1985 start, 140,000 trees have been removed from uncared-for and abandoned orchards. Also, more than 900 property owners are contacted annually on orchard spray management techniques.

Bee Inspection — The Utah Bee Inspection Act calls for a yearly inspection of all apiaries to detect infectious bee diseases. Without a thorough inspection program, highly contagious diseases could spread rapidly, which would result in serious losses to the bee industry in Utah and to fruit and seed crop producers who need bees for pollination. Last year, 35,000 colonies of bees were inspected with the incidence of disease below 3.5 percent.

Gypsy Moth — Gypsy moths were first found in Salt Lake City in the summer of 1988. Since that time, the Utah Department of Agriculture has been the lead agency in a major eradication program that has achieved a 95-percent success rate. Moth catches have been reduced from 2,274 in 1989 trapping to five in 1993. The major benefits of this program are cost effectiveness, reduction of a public nuisance, and protection of forests, natural resources and the watershed. No treatment will take place in 1994, but trapping programs will remain vigorous.

Cricket/grasshopper — During last year's control season, 1,289 acres on BLM, Forest Service and state land were baited for Mormon crickets in Utah. Various agencies have asked the Utah Department of Agriculture continue these treatments in 1994.

The 1993 adult grasshopper survey was completed last August. It indicated that about 35,300 acres were infested with grasshoppers and 65,850 acres infested with Mormon crickets.

Utah quarantines — The Utah Department of Agriculture administers eight insect quarantines which require inspection and enforcement by the state entomologist. Effective enforcement requires cooperation with federal agencies and regulatory officials of other states and countries. Quarantines now in effect are for European corn corer, gypsy moth, apple maggot, plum curculio, cereal leaf beetle, pine shoot beetle, Japanese beetle, and mint wilt. Quarantine enforcement is necessary to prevent serious plant pests from becoming established in Utah; once present, they could cause significant economic losses to agriculture and related industries. Quarantines also allow Utah agriculture to ship to domestic and foreign markets.

Fertilizer Program

In administering the Utah Commercial Fertilizer Act, the division performs these and other duties:

1. Regulates the registration, distribution, sale, use and storage of fertilizer products.
2. Regulates and licenses fertilizer blenders.
3. Monitors the applicators who spray or apply fertilizer and take samples for analysis.
4. Works closely with the state chemist on analysis of fertilizer products.
5. Formulates new regulations as necessary and develops programs by which to enforce them.
6. Works closely with district agricultural inspectors in a supervisory capacity to implement fertilizer programs in their districts and give them direction in those areas.
8. Works closely with Utah State University personnel on soil amendment registrations.
9. Responds to the numerous inquiries about fertilizers.
10. Sends representatives to pertinent meetings in and outside the state concerning fertilizers.
11. Investigates violations and provides evidence for use in hearings if necessary.

Major functions performed in the program in 1993 were:

Number of fertilizer manufacturers contacted	191
Number of products received and registered	1,543
Number of products registered because of investigations	40
Number of fertilizers sampled, collected, and analyzed	296
Number of samples which failed to meet guarantee	25
Number of inspection visits to establishments	1,062
Number of blenders licensed	25

Shipping Point and Cannery Grading Summary

Product	No. of Inspections in 1992/1993	Pounds Inspected
Onions	512	9,621,225
Cherries, fresh	61	1,422,502
Cherries	**	640,923
Peaches & nectarines	10	26,352
Apricots	0	**
Apples	0	518,850
Potatoes, chipping	0	**
Potatoes, seed	0	**

** Shipped without inspections or grading

Nursery Inspection

Every year, the division licenses all firms or individuals selling nursery stock, with 479 licenses issued in 1993.

Field representatives visit nurseries annually and enforce the law pertaining to proper labeling, condition of stock and freedom from serious insect pests, plant diseases and noxious weeds. They provide inspection certificates to permit interstate shipment of stock. They conducted 1,202 inspections in 1993.

All plant materials coming into the state require an origin certificate declaring the plant material free from insect pests, disease and noxious weeds. The field representatives inspect these materials as necessary.

Pesticide Program

Administration of the Utah Pesticide Control Act and adherence to the requirements of the state agreement with the Environmental Protection Agency result in comprehensive programs which require considerable time and effort. These programs include training and certifying pesticide applicators, licensing pesticide dealers, investigating violations, check on farmers' record-keeping of restricted pesticide use, and others.

Pesticide activities of the division for 1993 were as follows:

Number of pesticide manufacturers or registrants contacted	649
Number of pesticide products registered	6,531
Number of new products registered as a result of investigations	75
Number of inspections of pesticides sales establishments	192
Number of pesticide samples collected	100
Number of investigations of pesticide uses	146
Number of violations	42
Number of pesticide applicator training sessions	22
Number of applicators certified (Commercial, Non-Commercial, Private)	835
Number of applicators recertified (Commercial, Non-Commercial, Private)	1,125
Number of pesticide dealers licensed	94

Seed Inspection and Testing

Administration of the Utah Seed Act involves the inspection and testing of seeds offered for sale in Utah to check for proper labeling. Common tests include percent germinations, purity, and presence of noxious weeds, although a number of other tests are performed on request. Samples are submitted by agricultural inspectors, seed companies, and other interested parties.

Following is a summary of work performed in FY 1992-93:

Number of inspections conducted at 99 seed sales outlets	1,801
Quantity of seed representatively sampled (lbs.)	1,314,311
Number of seed samples tested	1,503
Number of laboratory tests performed	4,396
Number of violations determined	71
Number of interstate violations submitted to the Federal Seed Branch for prosecution	65

Noxious Weed Control Program

In administering the Utah Noxious Weed Control act, the state weed specialist coordinates and motivates weed control programs throughout the state. The 13 agricultural field representatives located throughout Utah made 1,807 visits and inspections at the following types of companies and agencies: retail establishments, weed supervisors and other county officials, state agencies, federal agencies, utility companies, private landowners, and those who requested hay and straw certification.

On January 1, 1994, the U.S. Forest Service closed forest lands to all feed and grain not certified noxious-weed-free. The department's field representatives conducted 47 inspections for hay producers in 15 counties late last year under that program, checking some 22,000 bales.

Commercial Feed Program

Administration of the Utah Commercial Feed Act involves inspection, registration, and sampling of commercial feed products. Following is a summary of activities performed in this program in 1993.

Number of feed manufacturers or registrants	515
Number of feed products registered	5,818
Number of feed products registered as a result	437
Number of inspections made to 548 establishments	1,421
Number of feed samples collected and tested	437
Number of samples failing to meet guarantees	27
Number of letters forwarded concerning violations	27

Grain Inspection

Grain inspection services are provided under the authority of the state code and under designated authority by the Federal Grain Inspection Service. Following is a summary of work performed during the past two fiscal years, with expenses paid by revenue received for grading services:

	1991-92	1992-93
No. of samples	35,074	31,791
No. of miscellaneous tests conducted	17,610	21,182
Total no. of activities performed	52,684	52,973

NOTE: Volume of work is influenced each year by a number of factors, including weather conditions, government crop programs, and marketing situations.

Regulatory Services

Kyle R. Stephens
Director

The mission of this division is to protect public health, safety, and finances by assuring consumers of receiving safe, wholesome, properly labeled, and correctly weighed, measured or counted food and other commercial products.

The following information summarizes its 1993 activities.

Food compliance program

Advancements in food technology have changed Utahns' lives. Longer shelf life, increased mechanization, and different methods of transporting food have created a worldwide market for Utah's products. The ample and diverse food supply available in Utah is a result of the many changes in technology.

Traditional methods of inspection are still very effective. However, new tools are needed in order to give inspectors the adaptability and flexibility they need to do their job effectively.

One concept taking hold in the scientific community is that of system analysis. The idea is to look at the manufacture of food as a whole process, to review the sub-systems of the operation as they relate to other interconnected systems within the processing plant. Inspectors can identify points where failure to follow correct procedures may lead to unacceptable risks. This process is know as HACCP or Hazard Analysis Critical Control Point.

The division is, during inspections, trying to teach the food industry to identify points in the process that are critical to monitor and modify, if necessary. Then when they make changes in the process without notifying us, they can do so safely because they will understand the concept and principles associated with safe food production.

Following is a summary of 1993 inspection numbers:

Establishment * Type *	Total Number	Inspections Done
Bakeries	268	417
Grain Processors	11	14
Grocery Stores	991	1,212
Meat Departments	266	433
Food Processors	295	377
Warehouses	263	320
TOTALS	2,094	2,773

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 hold orders and releases. Last year, the division issued 15 hold orders and 11 hold-order releases involving 15,913 pounds of food. During 1993, a total of 2,286 pounds of food was voluntarily destroyed in 32 establishments because it was suspected of being adulterated.

When voluntary compliance can't be achieved, additional regulatory action takes the form of warning notices and administrative actions. Last year, 34 warning notices went out concerning noncompliance with the Utah Wholesome Food Act and the Utah Food Establishment Sanitation Rule. Three notices of violation and hearings resulted in administrative orders.

Despite a number of new regulations issued by FDA during the past year — a new model food code, new seafood regulations, updates to the new labeling law, and the new dietary supplement regulations — FDA hasn't asked for any additional funds in the food area. These unfunded federal mandates are putting stress on the ability of states to adopt and enforce the new regulations.

Dairy compliance program

Consumer-driven issues continue to control the direction of the dairy industry. The dairy industry has responded by working with consumers, professional organizations and regulatory agencies to develop and implement pro-active programs that give consumers confidence in the dairy products they consume. The UDA dairy program implements and supports these programs.

Manufacturing producers were affected by significant changes during 1993. USDA moved to lower the somatic cell limit for manufacturing producers from 1,000,000 to 750,000 and adopted an animal drug residue policy which closely follows the FDA policy for grade A dairies. Changes to existing state rules will be made in 1994 to incorporate these actions.

Utah dairy farms committed fewer drug storage and labeling violations last year. The division started an education and enforcement program in 1991 on storage and labeling. The violation rate at that time was around 40 percent; 1993 data shows the violation rate was down to about 6 percent.

Fewer positive antibiotic loads of milk are being delivered to processors. Last year, only eight out of about 25,000 loads of milk delivered to Utah processors were positive for drug residue. Those eight loads were discarded before entering the plant.

The long-awaited approval of BST (bovine somatotropin) was official on February 3, 1994, after a 90-day moratorium. Original approval was in November 1993. Despite rigorous and favorable review by several world and national health organizations, special-interest groups have tried to sway public opinion against supplemental BST. It's too early to tell if they'll have any effect.

Labeling milk from BST-supplemented cows has become an issue. Traces of BST, which is naturally occurring, is found in all milk and there is no more BST present in products from supplemented than from non-supplemented cows. Thus, labeling milk from cows receiving supplemental BST provides no meaningful information — there is no difference in the milk.

Inspection protects public health as well as agricultural markets

by assuring consumers clean and safe products. In addition, it protects producers and processors by keeping their markets safe from poor products and careless processing. The following is a breakdown of the dairy inspection activity for 1993.

Inspection Type	Number of Facilities	Number of Inspections
Grade A farms	488	1,852
Manufacturing farms	149	507
Dairy processors	35	126
Raw to retail	9	56
Milk haulers	103	93

Meat compliance program

The meat compliance program's goal is to prevent the movement in commerce of adulterated or misbranded meat. An additional goal is to provide accurate information concerning complex meat laws to everyone in the meat business.

The most significant issue facing the meat and poultry industry is pathogen reduction. This gained additional importance following the mid-January 1993 outbreak of a severe food poisoning that led to four deaths among some 500 confirmed cases in Washington, Idaho, California, and Nevada. The outbreak was linked to the pathogenic bacterial strain *E. coli* 0157:H7. Most of the cases were associated with undercooked ground beef served at a fast-food restaurant chain.

USDA responded by mandating safe-handling labels on all ground-meat products. The initiative was challenged in court and has been temporary blocked. Safe-handling labels will probably be required soon on all ground meat and poultry products and a short time later on all raw meat products. Most "inspected" plants are voluntarily applying the label, and many retail outlets are providing the labels and educational literature to the public.

In addition to public education being done, meat plants have been held to "zero tolerance" for fecal contamination of carcasses. Initially, growing pains were experienced by several Utah companies, but changes and compliance have been achieved.

In all, 33 warning letters were issued last year and three informal hearings held. There were 975 reviews made at Utah businesses. A total of 19,815 pounds of adulterated and misbranded product was removed from commerce by Utah compliance officers. During 1993, more than 450 samples of ground beef were obtained and analyzed; results showed a high degree of compliance.

Egg and poultry grading program

The egg and poultry grading section provides needed services to the industry and to the consumers of Utah — eggs are highly nutritious and are an important part of the diet. But eggs are also a potentially hazardous product and require special processing and handling.

Shell eggs are inspected at both wholesale and retail establishments for wholesomeness, grade and size. The Utah Shell Egg Law provides authority for checking eggs to meet legal grading standards. Utah adopts the USDA's egg, egg product and poultry standards. Grading standards must be followed because about 10 percent of nest-run eggs fall in the restricted category — that is, checks, leakers, loss and dirties. Without egg grading, the percentage of restricted eggs in each carton would increase, and eggs wouldn't meet standards established to protect consumers.

USDA egg grading is a program for egg-plant owners who want their eggs to bear the USDA grade shield. This grading for quality and size is provided on a voluntary basis to those who request it and pay for it. The division administers this service using licensed department employees and USDA standards, regulations and supervision.

In 1993, there were 308,499 thirty-dozen cases of eggs graded in Utah. A 36-percent increase of eggs graded in 1993 was the result of one farm becoming an official USDA shell-egg plant. Of all the eggs graded in Utah, only 4,181 cases, or 1.4 percent, were embargoed due to excess restricted eggs or for being below USDA standards, indicating high compliance with the law.

Utah has two egg-breaking plants, which operate under continuous inspection. All inspectors are certified and licensed by USDA. Egg-breaking plants are inspected to see that eggs are properly received, refrigerated, washed, candled, sanitized, broken, pasteurized, formulated and packaged under the safe, clean, sanitary conditions that meet USDA standards and regulations. Egg products include dried, liquid and frozen eggs. Egg products are used extensively in the food industry for bakery items, pasta products, ice cream, eggnog, etc., and are used in restaurant and institutional meals.

In 1993, there were 197,887 cases of eggs broken and pasteurized in Utah — about the same as in 1992.

The shell-egg surveillance program requires egg producers and handlers to be registered with USDA, and licensed personnel conduct quarterly visits. The primary purpose of these inspections is to survey compliance to the Federal Egg Products Inspection Act. The law covers the handling and disposition of restricted eggs. Some restricted eggs, if sound and properly labeled, may be used at a breaking plant, but leakers, loss and inedible eggs must be denatured, destroyed or diverted to animal feed.

Poultry grading primarily involves the turkey industry, since Utah produces no broiler chickens but is a major turkey-producing state. Poultry grading is a voluntary program paid for by industry. Graders from the division, who are licensed by USDA, provide

grading services at the plants. Grading of whole birds and parts provides consumers with products meeting USDA standards of quality. Poultry grading also covers poultry used in federal food programs, such as school lunches and military and export activities.

In 1993, the graders at Moroni and Salina were responsible for grading 100,282,446 pounds of live turkeys. This represents about 5-1/4 million birds and is about a 12-percent increase over 1992. Production in 1994 is projected to see a slight increase.

Weights and measures program

The weights and measures program operates in seven areas:

General Inspection - Two areas of responsibility are package checking and scanner inspections. Every item is subject to inspection and last year, 52,466 packages were checked, representing a total of 352,840 products. The department bought more scanner inspection equipment last year and increased the number of inspections to 11,015 in 1993.

Small- and medium-scale inspections as well as motor-fuel dispensing and timing devices are a part of the section's general inspection responsibilities. During 1993, inspectors checked 5,828 small and medium scales, 10,393 motor-fuel dispensing devices, and 44 timing devices.

The legislature approved funds to construct large-capacity tanks for testing motor fuel dispensers. This was accomplished during the last half of 1993.

Large-capacity scales — This activity involves testing of scales used for weighing livestock, coal, gravel, vehicles, etc., with the inspections conducted at auction yards, ranches, ports of entry, mine sites, construction sites, gravel pits, railroad yards, etc. During 1993, the section conducted 1,537 such inspections.

Propane meters—These devices become inaccurate through normal wear and tear, and it is important that meters are checked often. With the high and growing volume of propane sales, it is important to look at these areas. One inspector is assigned to conduct the inspections in this area. During 1993, he inspected 203 propane meters and dispensing devices.

Large-capacity petroleum and water meters—Inspections are conducted on airport fuel trucks, oil and gas refinery pumps, cement batch-plant water meters, and other large meters. During 1993, inspectors conducted 348 of these types of inspections.

Metrology laboratory — This lab houses the primary weight, length and volume standards for the state of Utah. Industry relies on the services of this facility to certify weights used in commercial business.

During 1993, the state metrologist certified the following types and numbers of equipment for accuracy. Small weights (less than 25 lbs.) - 1,977; medium weights (10 to 100 lbs.) - 634; large weights (500 to 1000 lbs.) - 120; 5-gallon test measures - 27; large test measures - 8; wheel-load weighers - 110; glassware - 6; stopwatches - 7; balances - 22; and steel tapes - 2.

Motor fuel laboratory — Motor fuels are tested for octane or flash point to determine compliance with regulations. This inspector also responds to numerous consumer complaints about fuels.

Milk tanks — This testing is mostly done in response to requests from either dairy farmers or processing plants.

Bedding, upholstered furniture and quilted clothing program

The purpose of the Bedding, Upholstered Furniture, and Quilted Clothing Inspection Act is to protect consumers against economic fraud and misrepresentation of products, to assure Utahns a hygienically clean product, and to provide allergy awareness when they buy these articles.

Routine inspections of these articles wherever they are manufactured, stored or offered for sale plus an ongoing sampling and testing program have proven to be an effective way to regulate these industries and to deter falsely and insufficiently labeled and advertised products.

The law provides that each manufacturer, wholesaler, supply dealer and upholsterer who engages in a commercial activity relating to these products be charged a license fee, and these fees make the program self-supporting. This year, 1,700 licensees have generated about $90,000 in general revenue.

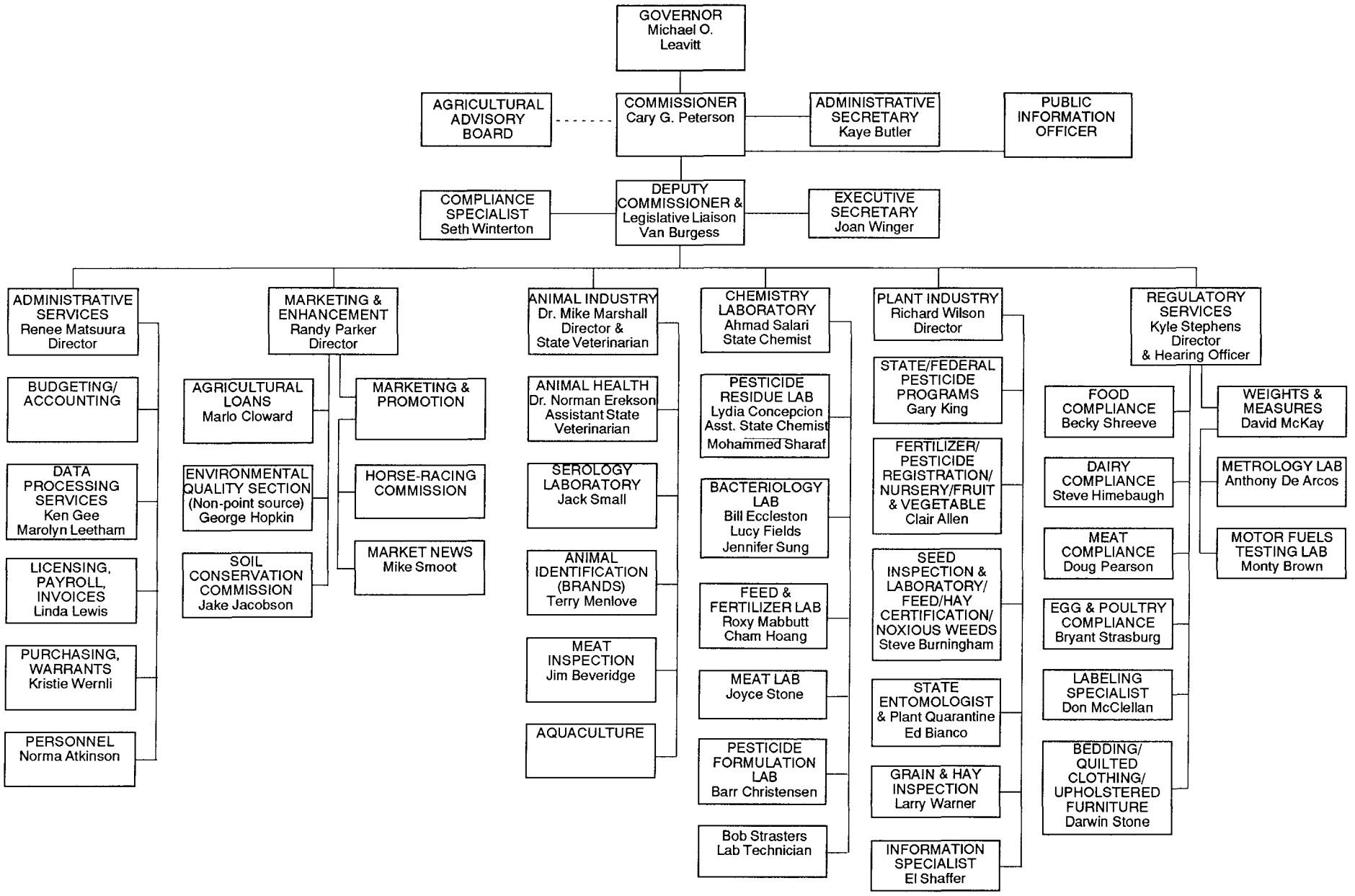
In 1993, more than 5,000 manufactured products were reviewed for appropriate labeling and advertisement. There were 332 analyses performed on 62 samples, with 53 violations, or 85 percent. Samples are generally submitted to the lab because of suspected violations, so the 85-percent ratio isn't out of line.

Adjudicative procedures program

The adjudicative proceedings of the department are assigned to this division. A review of this program and procedures a year ago has resulted in a more professional approach to the due-process procedures and requirements. The overall attitude and direction of the department is to gain voluntary compliance with the Utah Agricultural Code. When all resources have been exhausted and voluntary compliance is not obtained, then the department issues notices of violation and provides the parties involved with a chance for an informal hearing. (The administrative procedures process is an effective tool in gaining compliance without going through the time-consuming judicial process.)

As a result, the division's administrative law judge conducted 12 informal hearings during 1993. Administrative orders were issued on all 12 cases, and $8,543 in civil penalties was levied.

UTAH DEPARTMENT OF AGRICULTURE
ORGANIZATION CHART



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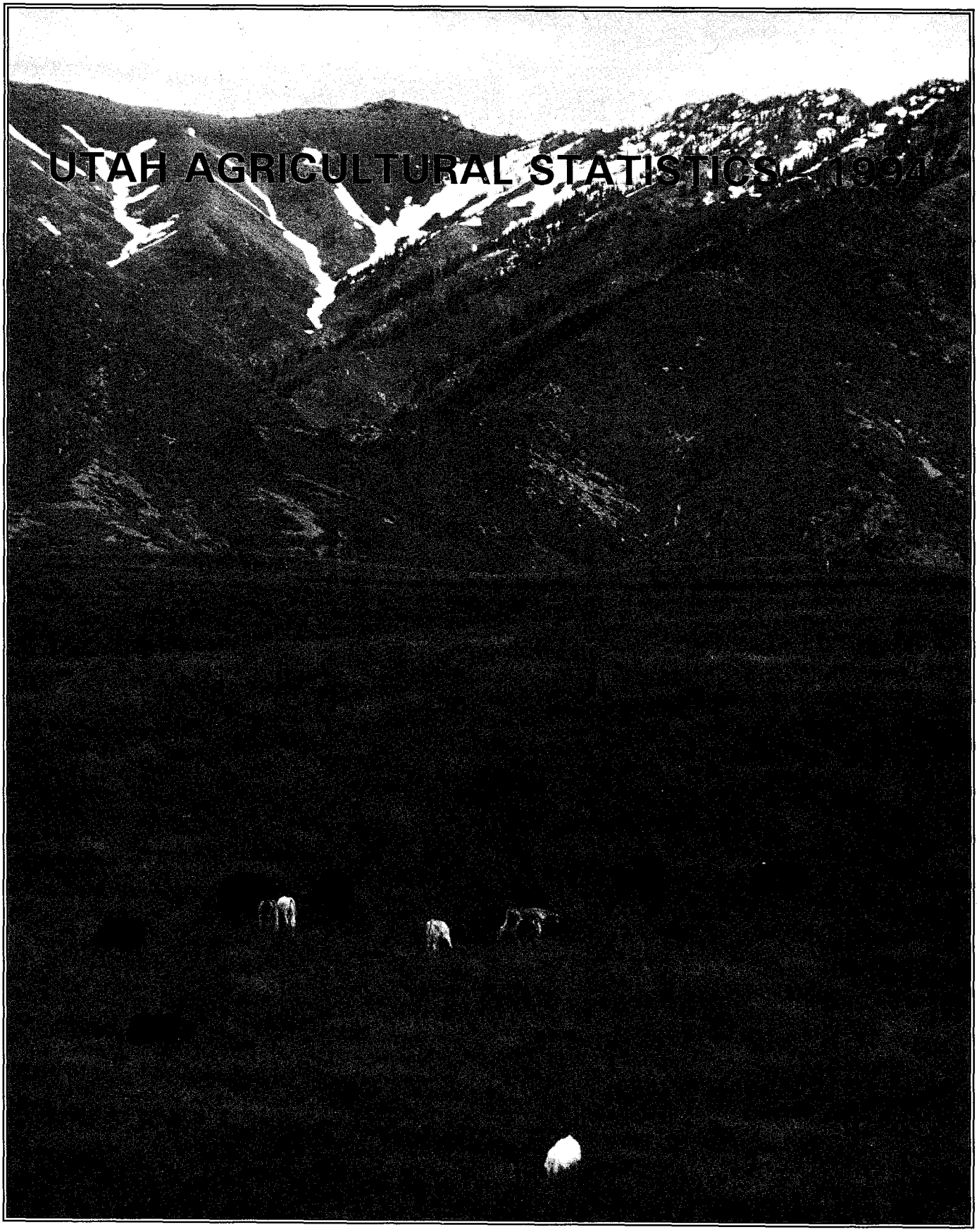

UTAH AGRICULTURAL STATISTICS - 1994

Area & Population of Counties, Utah

County	United States Census - 1990								July 1, 1993 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	5,001
Box Elder	5,724	36,485	19,852	54.4	16,633	45.6	1,328	3.6	38,102
Cache	1,165	70,183	55,232	78.7	14,951	21.3	1,429	2.0	76,096
Carbon	1,479	20,228	8,727	43.1	11,501	56.9	183	0.9	20,725
Daggett	698	690	--	--	690	100.0	119	17.2	718
Davis	305	187,941	186,544	99.3	1,397	0.7	154	0.1	205,635
Duchesne	3,238	12,645	3,915	31.0	8,730	69.0	1,239	9.8	13,160
Emery	4,452	10,332	--	--	10,332	100.0	414	4.0	10,389
Garfield	5,175	3,980	--	--	3,980	100.0	142	3.6	4,195
Grand	3,682	6,620	3,971	60.0	2,649	40.0	102	1.5	7,508
Iron	3,299	20,789	13,443	64.7	7,346	35.3	176	0.8	23,777
Juab	3,392	5,817	3,515	60.4	2,302	39.6	193	3.3	6,210
Kane	3,992	5,169	3,148	60.9	2,021	39.1	62	1.2	5,444
Millard	6,590	11,333	2,998	26.5	8,335	73.5	598	5.3	11,684
Morgan	609	5,528	--	--	5,528	100.0	214	3.9	6,133
Piute	758	1,277	--	--	1,277	100.0	84	6.6	1,362
Rich	1,029	1,725	--	--	1,725	100.0	87	5.0	1,796
Salt Lake	737	725,956	721,342	99.4	4,614	0.6	73	2/	777,655
San Juan	7,821	12,621	3,162	25.1	9,459	74.9	45	0.4	13,058
Sanpete	1,588	16,259	3,363	20.7	12,896	79.3	380	2.3	18,149
Sevier	1,910	15,431	5,593	36.2	9,838	63.8	225	1.5	16,378
Summit	1,871	15,518	4,468	28.8	11,050	71.2	440	2.8	19,724
Tooele	6,946	26,601	18,174	68.3	8,427	31.7	254	1.0	28,137
Uintah	4,477	22,211	9,242	41.6	12,969	58.4	893	4.0	23,623
Utah	1,998	263,590	244,834	92.9	18,756	7.1	1,539	0.6	290,836
Wasatch	1,181	10,089	4,782	47.4	5,307	52.6	183	1.8	11,152
Washington	2,427	48,560	35,898	73.9	12,662	26.1	89	0.2	58,693
Wayne	2,461	2,177	--	--	2,177	100.0	146	6.7	2,196
Weber	576	158,330	147,172	93.0	11,158	7.0	807	0.5	168,676
State Total	82,168	1,722,850	1,499,375	87.0	223,475	13.0	11,685	0.7	1,865,642

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

Farm Population vs. Total Population, Utah, 1930-1990 Census

Year	Total Population	Farm Population	
		Number	Percent of 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	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: Utah's Rank and United States Total, Top Six States, by Agricultural Category

Category	Unit	Top Six States						Utah's Rank	United States Total
		First	Second	Third	Fourth	Fifth	Sixth		
GENERAL									
No of Farms & Ranches, 1993	Farms	TX 185,000	MO 106,000	IA 100,000	KY 91,000	MN 87,000	TN 86,000	37 13,000	2,068,240
Land in Farms & Ranches, 1993	1,000 Acres	TX 130,000	MT 59,900	KS 47,800	NE 47,100	NM 44,200	SD 44,200	28 11,200	978,153
Cash Receipts from Farm Marketings 1992 1/	Million Dollars	CA 18,234	TX 11,620	IA 10,330	NE 8,783	IL 7,634	MN 7,082	38 738	171,168
FIELD CROPS									
Harvested Acreage Principal Crops, 1993 2/	1,000 Acres	IL 21,934	IA 21,916	KS 20,454	ND 19,782	TX 18,524	NE 17,917	36 1,031	295,918
All Wheat Production 1993	1,000 Bu	KS 388,500	ND 335,060	MT 204,484	WA 177,580	OK 162,000	TX 118,400	29 7,270	2,402,055
Other Spring Wheat Production 1993	1,000 Bu	ND 274,350	MT 98,050	MN 69,750	SD 54,540	ID 43,200	WA 15,080	9 1,225	563,971
Winter Wheat Production 1993	1,000 Bu	KS 388,500	WA 162,500	OK 162,000	TX 118,400	MT 102,900	CO 94,350	28 6,045	1,769,158
Barley Production 1993	1,000 Bu	ND 117,600	MT 63,800	ID 60,000	MN 37,700	WA 23,115	SD 15,120	10 9,350	400,225
Oats Production 1993	1,000 Bu	ND 37,100	SD 26,520	WI 24,150	MN 23,750	PA 10,000	IA 9,000	28 1,014	206,253
Field Corn for Grain Production 1993	1,000 Bu	IL 1,300,000	IA 880,000	NE 785,200	IN 712,800	OH 360,800	MN 322,000	39 2,860	6,344,045
Corn Silage Production 1993	1,000 Tons	WI 8,550	NY 7,952	MN 6,588	PA 5,655	CA 5,625	IA 4,400	26 880	82,052
All Potato Production 1993	1,000 Cwt	ID 121,460	WA 85,500	CO 27,680	OR 23,277	WI 22,240	ME 20,540	21 1,643	419,415
All Dry Beans Production 1993	1,000 Cwt	MI 6,080	ND 2,964	CO 2,831	CA 2,194	ID 2,091	NE 1,820	16 27	21,842
Alfalfa Hay Production 1993	1,000 Tons	CA 6,348	SD 5,980	WI 5,060	MI 5,040	MN 4,800	NE 4,760	16 2,200	80,878
All Hay Production 1993	1,000 Tons	SD 8,450	CA 7,590	NE 7,573	TX 7,506	MO 7,333	KS 6,430	25 2,530	148,854

1/ In accordance with USDA, ERS Ranking of States and Commodities by Cash Receipts, 1992.
2/ Crop acreages included are corn, sorghum, oats, barley, wheat, rice, rye, soybeans, flaxseed, peanuts, sunflowers, popcorn, cotton, all hay, dry edible beans, potatoes, tobacco, sugarcane, and sugarbeets.

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

Category	Unit	Top Six States						Utah's Rank	United States Total
		First	Second	Third	Fourth	Fifth	Sixth		
FRUITS & VEGETABLES									
Apples									
Utilized Production									
All Commercial	1,000	WA	MI	NY	CA	PA	VA	21	
1993	Lbs	5,000,000	1,000,000	870,000	850,000	590,000	340,000	49,000	10,495.4
Apricot									
Utilized Production		CA	WA	UT				3	
1993	Tons	88,000	8,100	240	--	--	--	240	96,340
Sweet Cherry									
Utilized Production		WA	OR	MI	CA	ID	UT	6	
1993	Tons	76,000	34,000	27,000	19,000	1,470	1,200	1,200	160,575
Tart Cherry									
Utilized Production	Million	MI	NY	PA	UT	WI	OR	4	
1993	Lbs	220.0	15.2	10.8	7.5	4.4	2.8	7.5	261.6
Pear									
Utilized Production		WA	CA	OR	NY	PA	MI	8	
1993	Tons	383,000	308,000	208,000	15,500	5,500	5,500	1,300	932,800
Peach									
Utilized Production	1,000	CA	SC	GA	PA	NJ	WA	24	
1993	Lbs	1,642,000	165,000	143,000	95,000	85,000	47,000	7,400	2,490,600
All Fresh									
Onion Production	1,000	CA	OR	CO	WA	ID	NM	12	
1993	Cwt	16,335	8,376	5,735	4,825	4,698	3,740	792	56,596
LIVESTOCK, MINK & POULTRY									
All Cattle & Calves	1,000	TX	NE	KS	OK	MO	CA	36	
Jan. 1, 1994 . . .	Head	14,800	6,100	5,950	5,200	4,800	4,550	850	101,749
Beef Cows	1,000	TX	MO	NE	OK	SD	MT	30	
Jan. 1, 1994 . . .	Head	5,810	2,240	1,908	1,870	1,595	1,438	340	34,891
All Hogs & Pigs	1,000	IA	IL	NC	MN	NE	IN	37	
Dec. 1, 1993 . . .	Head	14,600	5,300	5,250	4,600	4,250	4,150	40	56,798
Honey Production	1,000	CA	SD	FL	ND	MN	ID	22	
1993	Lbs	45,000	24,010	22,600	19,800	14,400	9,443	2,226	230,368
Mink Pelts		WI	UT	MN	OR	ID	WA	2	
Production 1992 .	Pelts	696,500	651,000	332,900	191,900	190,000	136,000	651,000	2,893,500
All Sheep	1,000	TX	CA	WY	CO	SD	MT	7	
Jan. 1, 1994 . . .	Head	1,710.0	840.0	810.0	645.0	543.0	502.0	440.0	9,078.9
Turkeys Raised	1,000	NC	MN	AR	CA	MO	VA	14	
1993	Head	61,000	42,000	25,000	22,500	21,000	21,000	3,850	287,220
Egg Production		CA	PA	IN	OH	GA	AR	32	
1993	Million	6,501	5,642	5,281	5,066	4,449	3,638	498	71,391
Milk Production	Million	WI	CA	NY	PA	MN	TX	28	
1993	Lbs	23,014	22,921	11,425	10,190	9,705	5,910	1,332	150,954

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

Item	Unit	Record High		Record Low		Year Record Started
		Quantity	Year	Quantity	Year	
CORN FOR GRAIN						
Acres Harvested	1,000 Acres	24	1992	2	1963 & 66	1919
Yield	Bushels	140.0	1987,90&91	17.0	1934	
Production	1,000 Bushels	3,240	1992	85	1934	
CORN FOR SILAGE						
Acres Harvested	1,000 Acres	80	1975 & 76	2	1920-22	1919
Yield	Tons	21.0	1987-1991	6.0	1934	
Production	1,000 Tons	1,501	1980	17	1921	
OATS						
Acres Harvested	1,000 Acres	82	1910	8	1991	1882
Yield	Bushels	78.0	1993	25.0	1882 & 83	
Production	1,000 Bushels	3,338	1914	550	1977	
BARLEY						
Acres Harvested	1,000 Acres	190	1957	8	1898	1882
Yield	Bushels	85	1993	22.0	1882	
Production	1,000 Bushels	12,880	1982	242	1882	
ALL WHEAT						
Acres Harvested	1,000 Acres	444	1953	65	1880 & 81	1879
Yield	Bushels	45.0	1987	15.4	1919	
Production	1,000 Bushels	9,750	1986	1,139	1882	
WINTER WHEAT						
Acres Harvested	1,000 Acres	342	1953	120	1909	1909
Yield	Bushels	43.0	1987	12.7	1919	
Production	1,000 Bushels	8,100	1986	1,862	1924	
SPRING WHEAT						
Acres Harvested	1,000 Acres	160	1918	16	1972	1909
Yield	Bushels	57.0	1987	18.7	1919	
Production	1,000 Bushels	4,000	1918	704	1972	
ALL HAY						
Acres Harvested	1,000 Acres	686	1930	402	1909	1909
Yield	Tons	3.89	1993	1.51	1934	
Production	1,000 Tons	2,530	1993	679	1934	
ALFALFA HAY						
Acres Harvested	1,000 Acres	562	1930	359	1934	1922
Yield	Tons	4.40	1993	1.67	1934	
Production	1,000 Tons	2,200	1993	600	1934	
OTHER HAY						
Acres Harvested	1,000 Acres	180	1947	92	1934	1924
Yield	Tons	2.20	1993	0.86	1934	
Utilized Prod.	1,000 Tons	336	1987	79	1934	
DRY EDIBLE BEANS						
Acres Harvested	1,000 Acres	20	1970	1	1934-35 & 77	1934
Yield Cleaned	Pounds	800	1957	200	1956,59,62,77	1954
Production Cleaned	1,000 Cwt	91	1947	2	1977	1934
FALL POTATOES						
Acres Harvested	1,000 Acres	19.6	1943	4.3	1972	1882
Yield	Cwt	275	1986 & 1992	45	1886	
Production	1,000 Cwt	2,153	1946	405	1886	
SUMMER STORAGE ONIONS						
Acres Harvested	Acres	2,400	1944	550	1954 & 66	1939
Yield	Cwt	525	1992	200	1940	
Production	1,000 Cwt	1,000	1992	150	1952	
APRICOTS						
Utilized Production	Tons	10,000	1957	0	1972	1929
SWEET CHERRIES						
Utilized Production	Tons	7,700	1968	0	1972	1938
PEARS						
Utilized Production	Tons	8,750	1954	200	1972	1909
APPLES						
Utilized Production	Million Lbs	63.0	1987	2.7	1889	1889
TART CHERRIES						
Utilized Production	Million Lbs	30.0	1992	1.3	1972	1938
PEACHES (Freestone)						
Utilized Production	Million Lbs	44.2	1922	1.5	1972	1899

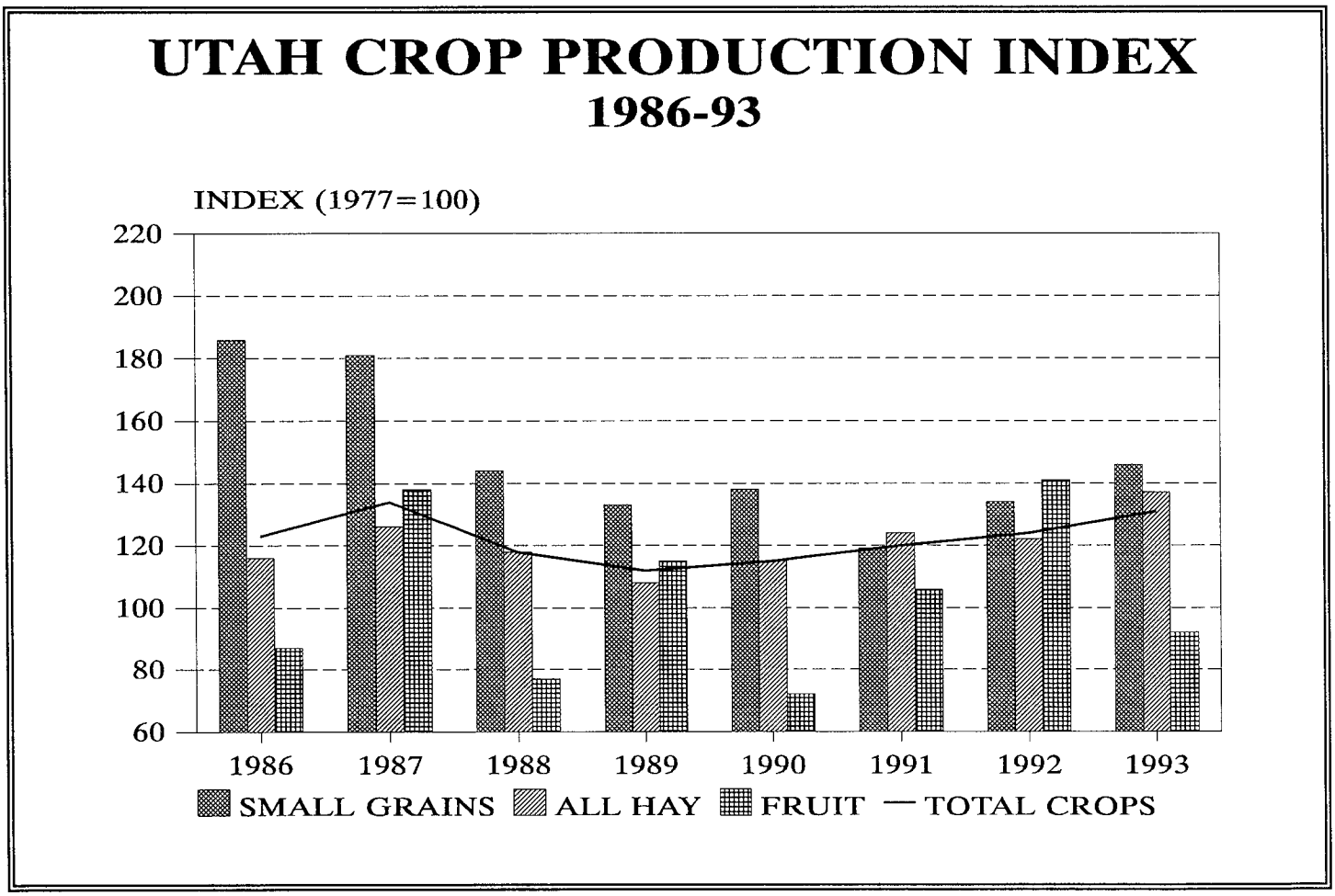
Record Highs and Lows: Utah Livestock, Poultry, Mink, and Honey

Item	Unit	Record High		Record Low		Year Record Started
		Quantity	Year	Quantity	Year	
Cattle & Calves						
Inventory Jan. 1	Thou Hd	950	1983	95	1867	1867
Calf Crop	Thou Hd	390	1975	128	1992	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	1,345	1992	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	196	1944	4	1867-69	1867
Sheep and Lambs						
Stock Sheep Inventory Jan. 1	Thou Hd	2,935	1931	167	1867	1867
Lamb Crop	Thou Hd	1,736	1930	350	1992-93	1924
Sheep & Lambs on Feed	Thou Hd	295	1937	18	1988	1920
Chickens						
Hens & Pullets of Laying Age Dec. 1	Thou Hd	2,750	1944	1,166	1965	1925
Egg Production Total for Year	Mil Eggs	498	1993	142	1924	1924
Turkeys						
Raised	Thou Hd	4,061	1973	215	1935	1929
Honey						
Production	Thou Lbs	4,368	1963	848	1946	1913
Mink						
Pelts Produced	Thousand	780.0	1989	283.0	1973	1969

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

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

Year	Small Grain	Hay	Fruit	Other Crops	Total Crops
			Percent		
1986	186	116	87	112	123
1987	181	126	138	120	134
1988	144	118	77	113	118
1989	133	108	115	106	112
1990	138	115	72	114	115
1991	119	124	106	117	120
1992	134	122	141	116	124
1993	146	137	92	112	131



Number of Farms

The number of farms in Utah in 1993 is estimated at 13,000, down from 13,200 in 1992. Total land in farms for 1993 is 11.2 million acres, down 100,000 acres from last year. The average size of farms in Utah increased to 862 acres from 856 acres last year.

The number of farms in the United States in 1993 is estimated at 2.068 million, down 1 percent from 1992. Total land in farms is 978 million acres, down 1.8 million acres from last year. The average farm size increased from 468 acres in 1992 to 473 in 1993.

Farm Numbers and Acreage: Utah and United States, Selected Years 1/, 2/

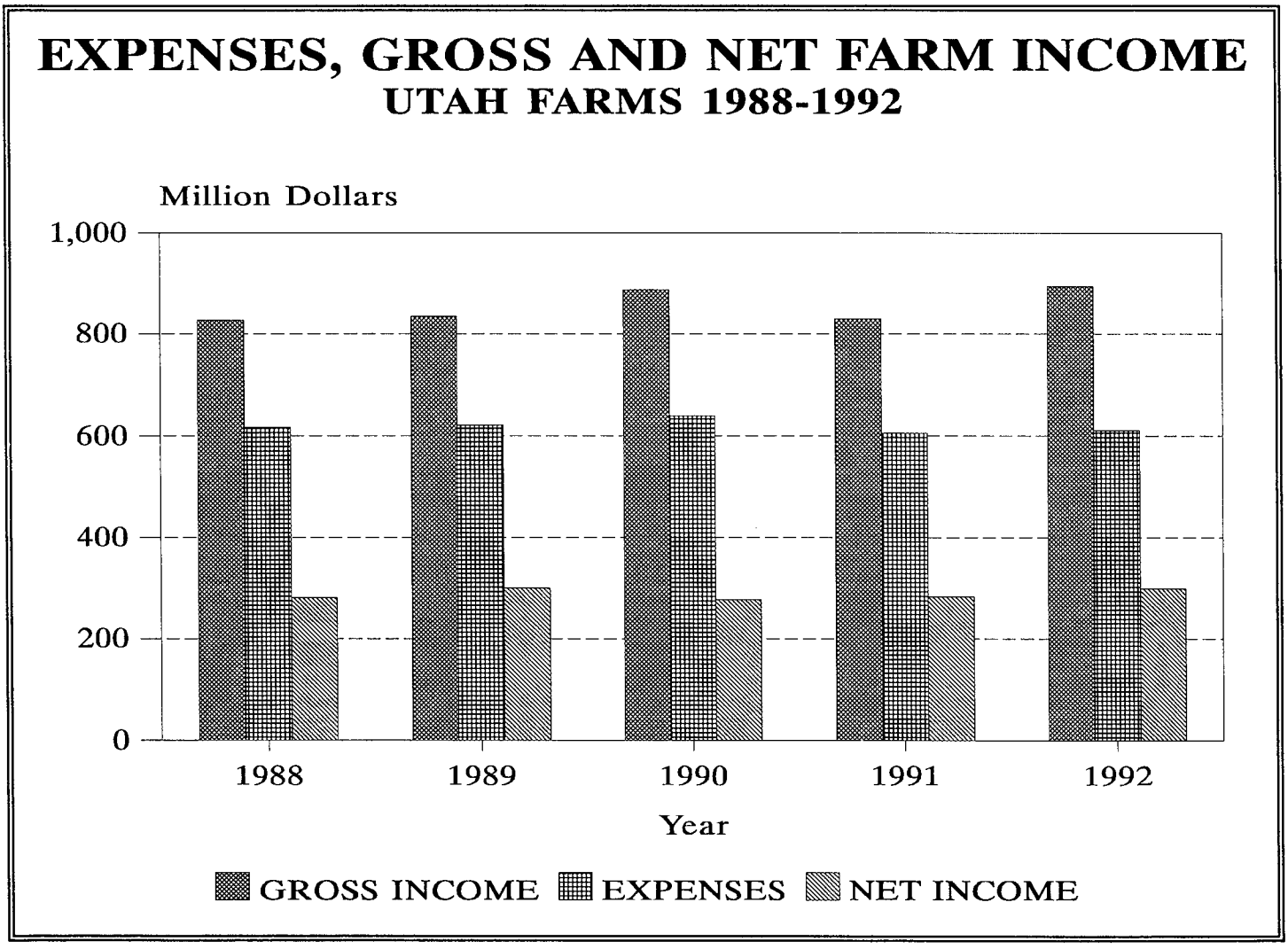
Year	Utah			United States		
	Farms	Land in Farms		Farms	Land in Farms	
		Average	Total		Average	Total
	Number	Acres	1,000 Acres	1,000 Farms	Acres	1,000,000 Acres
1850 . . .	926	51	47	1,449	203	294
1860 . . .	3,635	25	90	2,044	199	407
1880 . . .	9,452	69	656	4,009	134	536
1900 . . .	19,387	212	4,117	5,737	146	839
1920 . . .	25,662	197	5,050	6,448	148	956
1930 . . .	27,159	207	5,613	6,289	157	987
1940 . . .	28,500	354	10,100	6,097	174	1,061
1950 . . .	25,800	465	12,000	5,382	215	1,159
1960 . . .	19,000	716	13,600	3,963	297	1,176
1970 . . .	14,100	936	13,200	2,949	374	1,102
1975 . . .	12,600	1,000	12,600	2,521	420	1,059
1980 . . .	13,500	919	12,400	2,440	426	1,039
1987 . . .	13,600	831	11,300	2,213	451	999
1988 . . .	13,300	850	11,300	2,197	453	995
1989 . . .	13,000	869	11,300	2,171	457	991
1990 . . .	13,200	856	11,300	2,140	461	987
1991 . . .	13,300	850	11,300	2,105	467	983
1992 . . .	13,200	856	11,300	2,094	468	980
1993 3/	13,000	862	11,200	2,068	473	978

1/ 1850-1931 from U.S. Census of Agriculture--1940-93 are USDA estimates.
2/ Starting in 1975, the figures are based on the "new definition" which is a place with annual sales of agricultural products of $1,000 or more. Prior to this definition "a farm" included places of 10 or more acres that had annual sales of agricultural products of $50 or more, and places of less than 10 acres that had annual sales of $250 or more.
3/ Preliminary.

Farm Income

Marketing of Utah crops and livestock in 1993 produced cash receipts totaling $742.9 million according to preliminary data released by USDA'S Economic Research Service. This was less than 1 percent above 1992. Cash receipts from livestock, of $555.4 million, were virtually unchanged from 1992. Cash receipts from crops, at $187.6 million, were up 3 percent from the previous year.

Gross farm income in Utah during 1992 was $893.1 million, up 8 percent from 1991. Net farm income was 281.4 million compared with 223.6 million in 1991. Total production expenses during 1992 were $611.7 million, 1 percent above those of 1991.



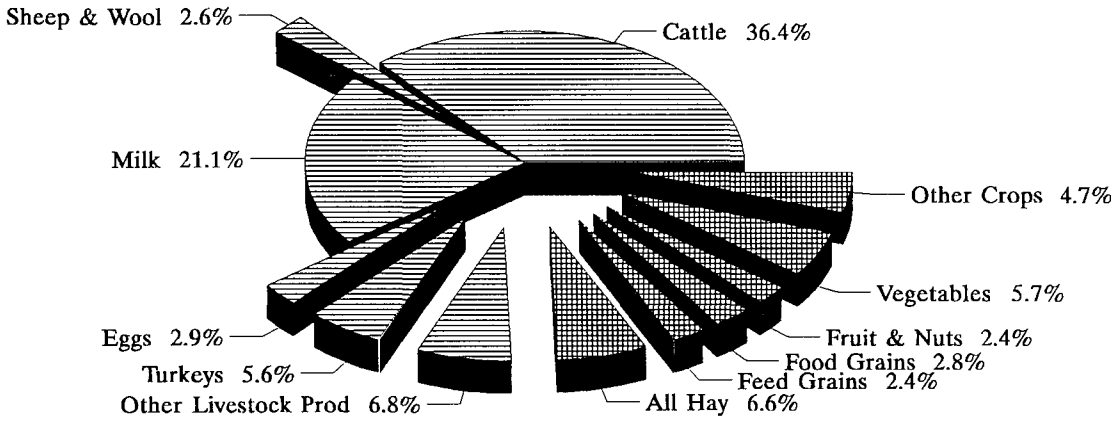
Cash Receipts: by Commodity, Utah, 1990-93 1/ 2/

Commodity	1990		1991		1992		1993 3/	
	1,000 Dollars	Percent	1,000 Dollars	Percent	1,000 Dollars	Percent	1,000 Dollars	Percent
ALL COMMODITIES	745,154	100.0	720,860	100.0	738,338	100.0	742,946	100.0
LIVESTOCK & PRODUCTS	569,376	76.4	549,606	76.2	556,362	75.4	555,393	74.8
Meat Animals	296,962	39.9	301,682	41.9	288,294	39.0		
Cattle & Calves	276,303	37.1	283,178	39.3	268,701	36.4		
Sheep & Lambs	15,549	2.1	13,573	1.9	15,158	2.1		
Hogs	5,110	0.7	4,931	0.7	4,435	0.6		
Dairy Products	164,763	22.1	148,580	20.6	169,532	23.0		
Milk, Wholesale	154,800	20.8	136,045	18.9	155,718	21.1		
Milk, Retail	9,963	1.3	12,535	1.7	13,814	1.9		
Poultry/Eggs	71,481	9.6	69,544	9.6	63,701	8.6		
Turkeys	46,798	6.3	45,158	6.3	41,344	5.6		
Chicken Eggs	24,320	3.3	23,895	3.3	21,774	2.9		
Other Poultry	263	*	403	*	487	*		
Miscellaneous Livestock	36,170	4.9	29,800	4.1	34,835	4.7		
Wool	3,401	0.5	2,418	*	3,414	0.5		
Other Livestock	10,943	1.5	10,041	1.4	12,186	1.7		
Honey	974	*	842	*	1,553	*		
CROPS	175,778	23.6	171,254	23.8	181,976	24.6	187,553	25.2
Food Grains	18,632	2.5	17,252	2.4	20,779	2.8		
Wheat	18,632	2.5	17,252	2.4	20,779	2.8		
Feed Crops	81,996	11.0	64,474	8.9	66,370	9.0		
Hay	64,285	8.6	47,857	6.6	48,538	6.6		
Barley	12,181	1.6	10,979	1.5	11,656	1.6		
Corn	4,891	0.7	5,217	0.7	5,727	0.8		
Oil Crops	NA	*	490	*	716	*		
Vegetables	30,718	4.1	31,498	4.4	42,454	5.7		
Potatoes	8,614	1.2	8,550	1.2	8,463	1.1		
Onions	6,878	0.9	7,517	1.0	14,785	2.0		
Miscellaneous Vegetables	13,736	1.8	13,320	1.8	17,063	2.3		
Fruits/Nuts	11,493	1.5	24,053	3.3	17,673	2.4		
Apples	4,342	0.6	9,235	1.3	7,575	1.0		
Cherries	2,777	*	12,283	1.7	6,237	0.8		
Peaches	2,760	*	850	*	2,134	*		
Other Berries	177	*	358	*	248	*		
Miscellaneous Fruits/Nuts	263	*	285	*	349	*		
All Other Crops	32,939	4.4	33,487	4.6	33,984	4.6		
Other Seeds	1,236	*	1,570	*	1,442	*		
Other Field Crops	1,432	*	721	*	669	*		
Greenhouse/Nursery	25,220	3.4	26,000	3.6	26,500	3.6		

1/ Source: State Income and Balance Sheet Statistics, Economic Research Service, USDA.
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.
3/ Preliminary.
* Less Than 0.5 percent.

The graph below displays the predominance of livestock in Utah's agricultural economy. Livestock accounted for 75.4 percent of farm cash receipts in 1992, down from 76.2 percent in 1991. Cattle was the single largest contributing commodity producing 36.4 percent of the cash receipts. Milk was second with 21.1 percent of the receipts. Hay was the largest cash producing crop and was the third highest contributing commodity overall.

Utah Cash Receipts By Commodities 1992



Livestock & Livestock Products = 75.4%
Crops = 24.6%

Farm Income: Cash Receipts, Gross & Net Income from Farming, Utah, 1988-92 1/

Item	1988	1989	1990	1991	1992
			Million Dollars		
GROSS FARM INCOME 2/	826.5	834.2	886.8	829.6	893.1
Cash Income	784.8	811.2	806.5	778.2	801.0
Marketings Crops & Lvstk.	726.5	754.2	745.2	720.9	738.3
Government Payments	38.4	34.5	34.9	33.2	36.0
Other Farm Income	19.9	22.5	26.4	24.1	26.7
Non-Cash Income 3/	51.9	49.7	49.6	49.2	51.5
Value of Inventory Adj.	-10.2	-26.7	30.7	2.2	40.6
TOTAL PRODUCTION EXPENSES 2/	617.2	621.9	639.0	605.9	611.7
NET FARM INCOME 4/	209.3	212.4	247.8	223.6	281.4
Cash Income 5/	784.8	811.2	806.5	778.2	801.0
Cash Expenses 5/	503.9	511.2	528.9	494.4	501.5
NET CASH INCOME	280.9	300.0	277.6	283.7	299.5

1/ Source: Data for 1988-92 from "Economic Indicators of the Farm Sector: State Financial Summary, 1992." Economic Research Service, USDA--1993 data preliminary from "Economic Indicators of the Farm Sector." 2/ Includes operator households. 3/ Includes value of home consumption and rental value of operators' and hired labors' dwellings. 4/ Gross farm income (including value of inventory adjustment) less total production expenses. 5/ Excludes operator households.

Farm Operating Expenses: Utah, 1988-92

Item	1988	1989	1990	1991	1992
			Million Dollars		
Feed	105.1	99.9	94.7	80.1	81.4
Livestock	57.2	54.7	58.3	55.2	57.1
Seed	9.6	10.4	10.7	12.1	11.6
Fertilizer & Lime	14.2	14.1	15.7	10.9	11.1
Pesticides	7.1	7.9	7.7	8.3	8.3
Fuel & Oil	26.0	26.0	31.5	30.5	27.4
Electricity	14.8	16.6	16.3	16.4	17.6
Repair & Maintenance	57.0	58.9	55.7	54.9	63.6
Other Miscellaneous 1/	78.8	86.5	94.2	92.6	90.8
Interest-Real Estate	40.0	38.5	36.1	32.7	30.6
Interest-Non-Real Estate	32.2	32.1	32.7	30.8	29.5
Contract & Hired Labor Expenses	48.7	51.0	56.9	53.3	50.3
Net Rent to Non-Operator Landlords	5.6	4.2	6.9	5.6	8.4
Capital Consumption	101.5	101.5	100.2	101.7	102.2
Property Taxes	19.3	19.9	21.4	20.9	21.8
TOTAL PRODUCTION EXPENSES 2/	617.2	621.9	639.0	605.9	611.7

1/ Includes machine hires and customwork expenses; marketing, storage, and transportation expenses; and miscellaneous expenses. 2/ Includes operator households.

Farm Balance Sheet: (Excluding Operator Households), Utah, December 31, 1988-92 1/

Item	1988	1989	1990	1991	1992
			Million Dollars		
Assets					
Total Farm Assets	5,296.4	5,063.1	5,333.0	5,427.8	5,857.5
Real Estate 2/	4,112.7	3,881.0	4,068.0	4,240.8	4,616.2
Livestock & Poultry 3/	536.5	572.0	582.7	566.3	637.9
Machinery & Motor Vehicles 4/	428.7	444.6	459.1	472.5	471.0
Crops 5/	123.5	94.9	114.6	95.0	90.2
Purchased Inputs	12.2	12.4	15.5	20.8	28.8
Financial	82.7	58.1	93.1	32.4	13.4
Claims					
Total Farm Debt	743.0	683.2	657.9	659.4	651.2
Real Estate Debt	428.2	390.3	368.6	354.4	351.9
Non-Real Estate Debt 6/	314.8	292.9	289.2	305.0	299.4
Equity	4,553.4	4,379.9	4,675.2	4,768.5	5,206.2
Ratios			Percent		
Debt/Equity	16.3	15.6	14.1	13.8	12.5
Debt/Assets	14.0	13.5	12.3	12.1	11.1

1/ Data are for farms with sales of $1,000 or more annually.
2/ Excludes value of operator dwellings.
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.

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

Field Crops

Water year was above normal for the western half of the State for the growing season varying from 110 to 151 percent of normal. For the eastern half of the State, precipitation was below normal ranging from 91 to 95 percent of normal. Temperatures were near normal across the state. Seeding and planting were behind 1992 and crops progressed behind normal. Harvests of small grain, fruit, and hay were up to three weeks behind 1992. Small grain yields varied with the districts where major portion of the crop was grown. Irrigation water supplies were reported adequate from about 80 percent of respondents. Hay crops were good. Corn for grain harvest was delayed due to high moisture in grain and yields were lower due to lighter test weights.

Utah farmers planted 1.08 million acres to principal crops in 1993, up 3 percent from 1992. Harvested acres were 1.03 million acres, up 4 percent from 1992. Total value of principal crops was $250.8 million compared with $227.4 million in 1992.

Hay is still Utah's largest cash crop. While most of the crop is fed to Utah's livestock herds, a large portion was marketed as baled and cubed alfalfa to neighboring States and overseas. Alfalfa hay harvested, at 500,000 acres, was up 2 percent from 1992. Yield averaged 4.4 tons per acre, up 0.4 tons from last year. Total production of 2.2 million tons was up 12 percent. Other hay harvested at 150,000 acres compared with 140,000 acres harvested in 1992. Average yield of 2.2 tons per acre was up 0.2 ton from the previous year. Production, at 330,000 tons, was up 18 percent from 1992. The 1993 all hay crop was valued at $158.5 million which was up $25.0 million from 1992.

Planted acreage for wheat was up 10 percent from 1992, barley planted was down 8 percent, and oats were up 11 percent. Yields for barley were higher, but wheat was lower. Winter wheat harvested acreage at 155,000 acres was up 19 percent from 1992, but the yield was down 1.0 bushel per acre. Total production, at 6.0 million bushels, was 16 percent above 1992. Value of production rose 14 percent to $19.3 million. Spring wheat harvested acreage at 25,000 was up 14 percent from 1992. The average yield, at 49 bushels per acre, was 1 bushel above the previous year, and production, at 1.2 million bushels, was 16 percent above the previous year. Value of production, at $4.4 million, was up 27 percent from 1992. Barley acreage harvested, at 110,000 acres, was 4 percent below 1992. Production, at 9.35 million bushels, was up 4 percent. The average yield of 85 bushels per acre was 7 bushels above the previous year. Oat production, at 1.0 million bushels, was 3 percent below the previous year. Growers harvested 13,000 acres for grain, down 13 percent from last year. The value of production was down 5 percent to $1.6 million.

Corn acreage planted for all purposes, at 68,000 acres, was unchanged from 1992. Acreage harvested for grain, at 22,000 acres, was down 8 percent from 1992. The average yield for grain, at 130 bushels, was down 5 bushels from the previous year. Grain production totaled 2.9 million bushels, 12 percent below 1992. The crop was valued at $8.3 million, down 7 percent from the previous year. Corn for silage production totaled 880,000 tons compared with 798,000 tons in 1992. A total of 44,000 acres was harvested. The value of the crop was $21.1 million compared with $19.2 million in 1992.

Utah Usual Planting and Harvesting Dates: by Crop, and Principal Producing Areas

Crop	1993 Harvested Acreage	Usual Planting Dates	Usual Harvesting Dates			Principal Producing Areas & Counties
			Begins	Most Active	Ends	
	1,000 Acres	. . . . . Month and Day				Location
Barley:						
Spring 1/	110.0	Mar 20-Apr 25	Jul 20	Jul 25-Aug 15	Sep 1	Statewide
Beans:						
Dry 1/	6.1	May 10-Jun 1	Sep 1	Sep 10-Sep 30	Oct 20	San Juan
Corn:						
Grain 1/	22.0	Apr 25-Jun 5	Sep 10	Sep 25-Oct 20	Dec 10	Utah, Box Elder
Silage 1/	44.0	May 1-Jun 5	Sep 5	Sep 10-Sep 25	Oct 10	Statewide
Hay:						
Alfalfa 1/	500.0		Jun 1		Oct 25	Statewide
Other 1/	150.0		Jul 10		Aug 25	Statewide
Oats:						
Spring 1/	13.0	Mar 20-May 15	Jul 20	Jul 25-Aug 10	Aug 25	Statewide
Onions,Summer						
Storage 2/ . . .	1.8	Mar 1-Apr 30	Sep 20	Sep 25-Oct 20	Oct 31	Davis, Weber, Salt Lake, Utah, Box Elder
Potatoes:						
Fall 3/	6.2	Apr 20-Jun 15	Jul 15	Sep 15-Oct 25	Nov 5	Statewide
Wheat:						
Winter 1/	155.0	Aug 25-Oct 20	Jul 5	Jul 15-Aug 5	Aug 20	Millard, San Juan, Box Elder, Cache
Spring 1/	25.0	Mar 20-May 1	Aug 1	Aug 5-Aug 25	Sep 1	Salt Lake, Utah, Juab

1/ Planting and harvesting dates are from the USDA Agriculture Handbook 628, April 1984. 2/ Planting and harvesting dates are from the USDA Agriculture Handbook 507, February 1977. 3/ Planting and harvesting dates are from the USDA Agriculture Handbook 460, December 1973.

Corn Planted and Harvested for Silage: Acreage, Yield, Production, and Value, Utah, Selected Years

Year	Planted for All Purposes	Acres Harvested	Yield Per Acre	Production	Marketing Year Average Price 1/	Value of Production
	1,000 Acres		Tons	1,000 Tons	Dollars per Ton	1,000 Dollars
1940	29	10	9.4	94	--	--
1950	31	21	11.0	231	7.50	1,732
1960	49	41	14.5	594	8.00	4,752
1970	63	49	18.0	882	9.80	8,644
1980	100	79	19.0	1,501	21.10	31,671
1987	70	47	21.0	987	22.00	21,714
1988	70	47	20.0	940	23.00	21,620
1989	65	44	19.0	836	24.00	20,064
1990	65	45	20.5	923	26.00	23,998
1991	68	44	21.0	924	22.00	20,328
1992	68	42	19.0	798	24.00	19,152
1993	68	44	20.0	880	24.00	21,120

1/ Price or value per ton in silo or pit.

Corn Planted and Harvested for Grain: Acreage Harvested, Yield, Production, Sales, and Value, Utah, Selected Years

Year	Planted for All Purposes	Acres Harvested	Yield Per Acre	Production	Marketing Year Average Price	Value of Production
	1,000 Acres		Bushels	1,000 Bushels	Dollars per Bushel	1,000 Dollars
1940	29	10	29.0	290	--	--
1950	31	5	50.0	250	--	--
1960	49	3	64.0	192	1.50	288
1970	63	10	90.0	900	1.40	1,260
1980	100	15	100.0	1,500	3.75	5,625
1987	70	20	140.0	2,800	2.40	6,720
1988	70	22	124.0	2,728	3.15	8,593
1989	65	20	132.0	2,640	2.80	7,392
1990	65	19	140.0	2,660	2.79	7,421
1991	68	21	140.0	2,940	2.92	8,585
1992	68	24	135.0	3,240	2.74	8,878
1993	68	22	130.0	2,860	2.90	8,294

Winter Wheat: Acreage, Yield, Production, and Value, Utah, Selected Years

Year	Acres		Yield per Acre	Production	Marketing Year Average Price 1/	Value of Production
	Planted	Harvested				
	1,000 Acres		Bushels	1,000 Bushels	Dollars per Bushel	1,000 Dollars
1940	191	180	19.0	3,420	0.63	2,155
1950	344	326	16.0	5,216	1.86	9,702
1960	193	181	18.5	3,348	1.71	5,725
1970	200	191	27.0	5,157	1.41	7,271
1980	260	242	31.0	7,502	3.95	29,633
1987	180	170	43.0	7,310	2.50	18,275
1988	160	155	36.0	5,580	3.84	21,427
1989	165	155	32.0	4,960	3.75	18,600
1990	155	150	40.0	6,000	2.83	16,980
1991	140	130	36.0	4,680	3.45	16,146
1992	145	130	40.0	5,200	3.27	17,004
1993	160	155	39.0	6,045	3.20	19,344

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

Spring Wheat: Acreage, Yield, Production, and Value, Utah, Selected Years

Year	Acres		Yield per Acre	Production	Marketing Year Average Price 1/	Value of Production
	Planted	Harvested				
	1,000 Acres		Bushels	1,000 Bushels	Dollars per Bushel	1,000 Dollars
1940	68	66	31.0	2,046	0.65	1,330
1950	84	82	32.0	2,624	1.86	4,881
1960	52	48	40.5	1,944	1.61	3,130
1970	23	21	44.0	924	1.36	1,257
1980	32	30	48.0	1,440	3.80	5,472
1987	32	29	57.0	1,653	2.55	4,215
1988	24	22	54.0	1,188	3.71	4,407
1989	25	22	45.0	990	3.70	3,663
1990	30	26	45.0	1,170	2.92	3,416
1991	25	23	49.0	1,127	3.20	3,606
1992	25	22	48.0	1,056	3.30	3,485
1993	27	25	49.0	1,225	3.60	4,410

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

All Wheat: Acreage, Yield, Production, and Value, Utah, Selected Years

Year	Acres		Yield per Acre	Production	Marketing Year Average Price 1/	Value of Production
	Planted	Harvested				
	1,000 Acres		Bushels	1,000 Bushels	Dollars per Bushel	1,000 Dollars
1940	259	246	22.2	5,466	0.64	3,485
1950	428	408	19.2	7,840	1.86	14,583
1960	245	229	23.1	5,292	1.67	8,855
1970	223	212	28.7	6,081	1.40	8,528
1980	292	272	32.9	8,942	3.93	35,105
1987	212	199	45.0	8,963	2.51	22,490
1988	184	177	38.2	6,768	3.82	25,834
1989	190	177	33.6	5,950	3.74	22,263
1990	185	176	40.7	7,170	2.83	20,396
1991	165	153	38.0	5,807	3.40	19,752
1992	170	152	41.2	6,256	3.28	20,489
1993	187	180	40.4	7,270	3.25	23,754

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

Barley: Acreage, Yield, Production, and Value, Utah, Selected Years

Year	Acres		Yield per Acre	Production	Marketing Year Average Price 1/	Value of Production
	Planted	Harvested				
	1,000 Acres		Bushels	1,000 Bushels	Dollars per Bushel	1,000 Dollars
1940	109	107	41.0	4,387	0.46	2,018
1950	146	141	44.0	6,204	1.16	7,197
1960	160	147	43.5	6,394	1.00	6,394
1970	148	141	58.5	8,249	1.07	8,826
1980	162	148	79.0	11,692	2.88	31,116
1987	152	142	83.0	11,786	1.84	21,686
1988	139	125	77.0	9,625	2.64	25,410
1989	134	114	79.0	9,006	2.23	20,083
1990	115	105	81.0	8,505	2.37	20,157
1991	105	95	83.0	7,885	2.25	17,741
1992	125	115	78.0	8,970	2.23	20,003
1993	115	110	85.0	9,350	2.20	20,570

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

Oats: Acreage, Yield, Production, and Value, Utah, Selected Years

Year	Acres		Yield per Acre	Production	Marketing Year Average Price 1/	Value of Production
	Planted	Harvested				
	.... 1,000 Acres		Bushels	1,000 Bushels	Dollars per Bushel	1,000 Dollars
1940	46	39	39.0	1,521	0.34	517
1950	56	51	45.0	2,295	0.89	2,043
1960	29	23	46.0	1,058	0.83	878
1970	24	17	60.0	1,020	0.76	775
1980	26	15	61.0	915	1.95	1,784
1987	28	14	69.0	966	1.70	1,642
1988	32	14	72.0	1,008	2.56	2,580
1989	36	17	74.0	1,258	1.70	2,139
1990	40	12	68.0	816	1.68	1,371
1991	50	8	77.0	616	1.60	986
1992	45	15	70.0	1,050	1.65	1,712
1993	50	13	78.0	1,014	1.65	1,622

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

Dry Beans: Acreage, Yield, Production, and Value, Utah, Selected Years

Year	Acres		Yield per Acre	Production	Marketing Year Average Price	Value of Production
	Planted	Harvested				
	.... 1,000 Acres		Pounds	1,000 Cwt	Dollars per Cwt	1,000 Dollars
1940	9	9	500	40	3.55	142
1950	12	11	280	27	6.40	173
1960	8	6	300	18	7.10	128
1970	20	20	430	86	7.90	679
1980	12	11	380	42	28.00	1,176
1987	6.8	6.7	700	47	15.30	719
1988	4.5	4.5	580	26	33.20	863
1989	5.6	5.0	300	15	31.70	476
1990	5.5	4.0	330	13	19.00	247
1991	6.0	5.5	480	26	14.00	364
1992	6.0	5.7	700	40	20.30	796
1993	6.4	6.1	440	27	28.00	729

Potatoes: Acreage, Yield, Production, and Value, Utah, Selected Years

Year	Acres		Yield per Acre	Production	Marketing Year Average Price	Value of Production
	Planted	Harvested				
	1,000 Acres		Cwt	1,000 Cwt	Dollars per Cwt	1,000 Dollars
1940	13.0	12.9	102	1,316	0.70	921
1950	13.5	13.0	147	1,911	1.75	3,344
1960	8.3	7.9	170	1,343	2.28	3,062
1970	6.0	5.9	170	1,003	2.38	2,387
1980	5.3	5.2	225	1,170	5.15	6,026
1987	6.6	6.6	240	1,584	4.50	7,128
1988	6.8	6.6	245	1,617	5.20	8,408
1989	6.3	6.1	245	1,495	6.60	9,867
1990	6.3	6.2	265	1,643	6.00	9,858
1991	6.1	6.0	270	1,620	5.25	8,505
1992	6.1	6.0	275	1,650	5.40	8,910
1993	6.3	6.2	265	1,643	5.55	9,119

Potatoes: Production, Farm Use, Sales, and Value, Utah, Selected Years

Year	Production	Total Used for Seed 1/	Farm Disposition			Price per Cwt	Value of Sales
			Used on Farms Where Grown		Sold		
			For Seed, Feed, & Household Use	Shrinkage, & Loss			
	1,000 Cwt					Dollars	1,000 Dollars
1940	1,316	--	--	--	915	0.70	640
1950	1,911	--	--	--	1,540	1.75	2,695
1960	1,343	118	119	117	1,107	2.28	2,524
1970	1,003	81	49	90	864	2.38	2,056
1980	1,170	149	31	119	1,020	5.15	5,253
1987	1,584	156	22	111	1,451	4.50	6,530
1988	1,617	139	30	81	1,506	5.20	7,831
1989	1,495	156	51	136	1,308	6.60	8,633
1990	1,643	153	53	158	1,432	6.00	8,592
1991	1,620	146	18	200	1,402	5.25	7,361
1992 2/	1,650	153	20	105	1,525	5.40	8,235
1993	1,643	3/	3/	3/	3	5.55	

1/ Includes seed purchased and seed used on farms where grown. 2/ Preliminary. 3/ Available September 22, 1994.

All Hay: Acreage, Yield, Production, and Value, Utah, Selected Years

Year	Acres Harvested	Yield per Acre	Production	Marketing Year Average Price 1/	Value of Production 2/
	1,000 Acres	Tons	1,000 Tons	Dollars per Ton	1,000 Dollars
1940	553	1.92	1,059	10.50	11,120
1950	534	1.91	1,020	22.20	22,644
1960	566	2.26	1,281	26.40	33,818
1970	563	2.91	1,638	25.00	40,950
1980	605	3.43	2,076	70.00	144,060
1987	645	3.60	2,324	67.00	155,708
1988	630	3.46	2,177	76.00	165,452
1989	600	3.31	1,986	82.50	165,723
1990	625	3.40	2,123	79.50	173,269
1991	640	3.55	2,275	56.00	126,525
1992	630	3.56	2,240	61.00	133,560
1993	650	3.89	2,530	63.50	158,510

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

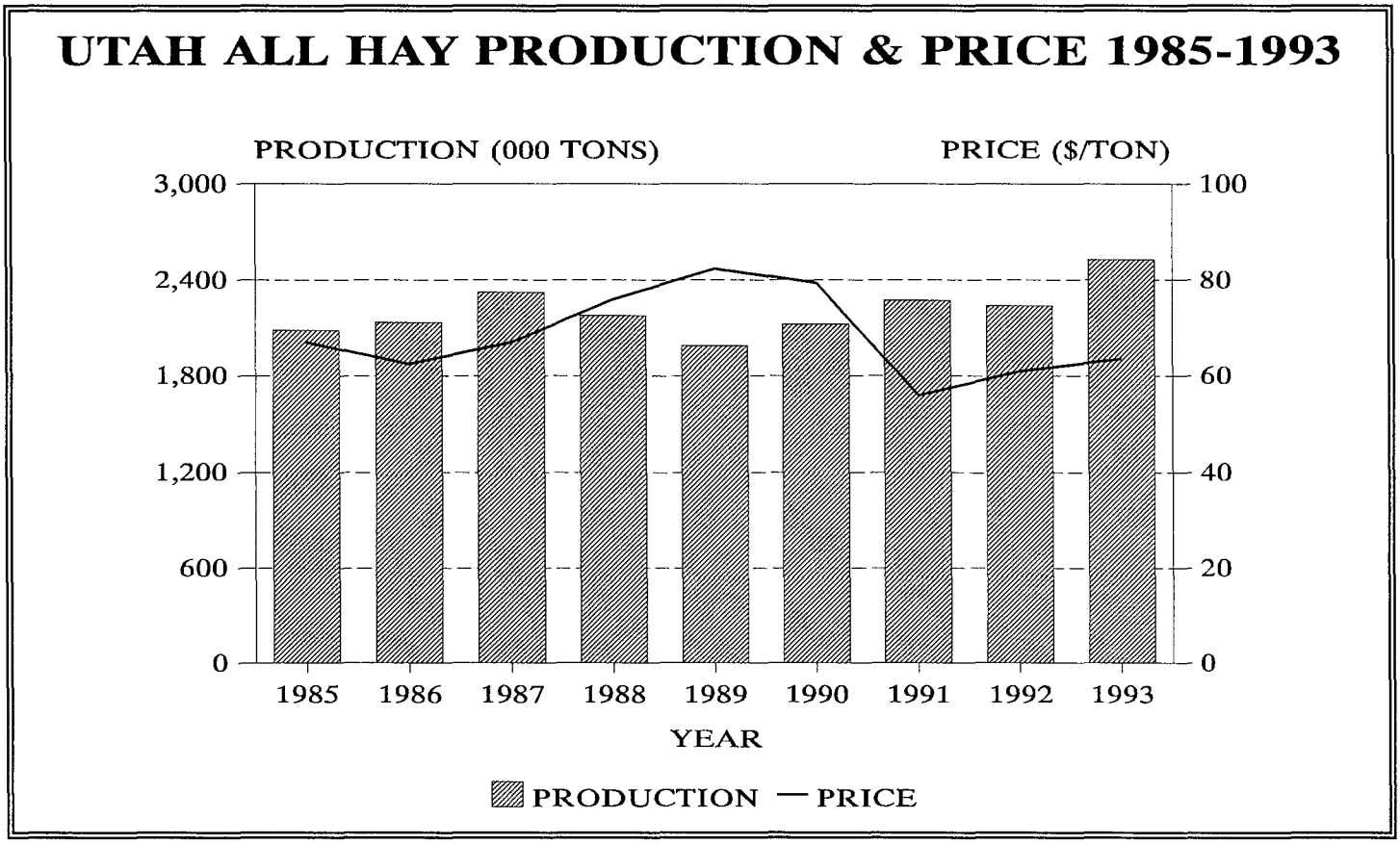
Hay, Alfalfa & Alfalfa Mixture: Acreage, Yield, Production, and Value, Utah, Selected Years

Year	Acres Harvested	Yield per Acre	Production	Marketing Year Average Price	Value of Production
	1,000 Acres	Tons	1,000 Tons	Dollars per Ton	1,000 Dollars
1940	431	2.10	905	NA	NA
1950	361	2.20	794	NA	NA
1960	439	2.55	1,119	NA	NA
1970	441	3.25	1,433	NA	NA
1980	470	3.90	1,833	NA	NA
1987	485	4.10	1,988	NA	NA
1988	490	3.90	1,911	NA	NA
1989	470	3.70	1,739	85.00	147,815
1990	485	3.80	1,843	83.00	152,969
1991	490	4.00	1,960	57.00	111,720
1992	490	4.00	1,960	62.00	121,520
1993	500	4.40	2,200	65.00	143,000

Hay, All Other: Acreage, Yield, Production, and Value, Utah, Selected Years 1/

Year	Acres Harvested	Yield per Acre	Production	Marketing Year Average Price	Value of Production
	1,000 Acres	Tons	1,000 Tons	Dollars per Ton	1,000 Dollars
1940	122	1.26	154	NA	NA
1950	173	1.31	226	NA	NA
1960	127	1.28	162	NA	NA
1970	122	1.68	205	NA	NA
1980	135	1.80	243	NA	NA
1987	160	2.10	336	NA	NA
1988	140	1.90	266	NA	NA
1989	130	1.90	247	72.50	17,908
1990	140	2.00	280	72.50	20,300
1991	150	2.10	315	47.00	14,805
1992	140	2.00	280	43.00	12,040
1993	150	2.20	330	47.00	15,510

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



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

Year Beginning	September 1	December 1	Following Year	
			March 1	June 1
		1,000 Bushels		
ALL WHEAT				
1960	7,116	5,867	4,369	2,105
1970	5,424	5,323	4,252	2,264
1980	7,527	5,898	4,748	3,881
1990	7,196	5,024	6,564	4,923
1991	6,170	6,435	6,504	3,429
1992	6,711	6,808	5,881	4,404
1993	4,765	5,908	6,542	3/
BARLEY				
1960	1,653	1,087	848	477
1970	3,990	3,110	1,364	755
1980	5,563	3,356	1,585	856
1990	2,698	1,194	1,734	706
1991	2,117	2,103	1,427	605
1992	2,872	2,538	1,694	973
1993	2,799	3,284	2,356	3/
OATS				
1990	177	181	170	102
1991	114	179	193	174
1992	232	278	151	119
1993	88	143	191	3/

Year Beginning	December 1	Following Year		
		March 1	June 1	September 1
	1,000 Bushels			
CORN				
1989	3,066	1,517	561	169
1990	865	908	480	475
1991	826	775	432	384
1992	675	543	519	306
1993	581	646	3/	

1/ Includes stocks at mills, elevators, warehouses, terminals, and processors. 2/ Beginning September 1, 1986, quarterly reference dates were changed from October 1 to September 1; January 1 to December 1; and April 1 to March 1. 3/ Estimates available June 30, 1994.

Fruits

Utah's 1993 fruit crop production was below the previous year for all fruits. Prices were lower for apples and apricots but higher for peaches and sweet cherries. Total value of fruit crops was lower than last year.

Apple production, at 53 million pounds, was down 12 percent from 1992. Utilized production was 49 million pounds. Producers received an average price of 14.2 cents per pound, 1.3 cents more than last year. The total value of utilized production, at $7.0 million, was 5 percent lower than the previous year.

Apricot production of 250 tons was 58 percent less than the 1992 production. Utilized production was 240 tons. Producers received an average of $525 per ton, $95 per ton less than the previous year. Total value of production was $126,000, down 41 percent from 1992.

Peach production, at 7.7 million pounds, was down 29 percent from 1992. Utilized production, at 7.4 million pounds, was 24 percent below the previous year. Average price per pound was 24.0 cents bringing total value of the crop to $1.8 million, 17 percent below 1992.

Pear production in Utah, at 1,400 tons, was 22 percent lower than the year before. The average price received by growers was $400 per ton, same level as 1992. Total value for the crop was $520,000, down 28 percent from the year earlier.

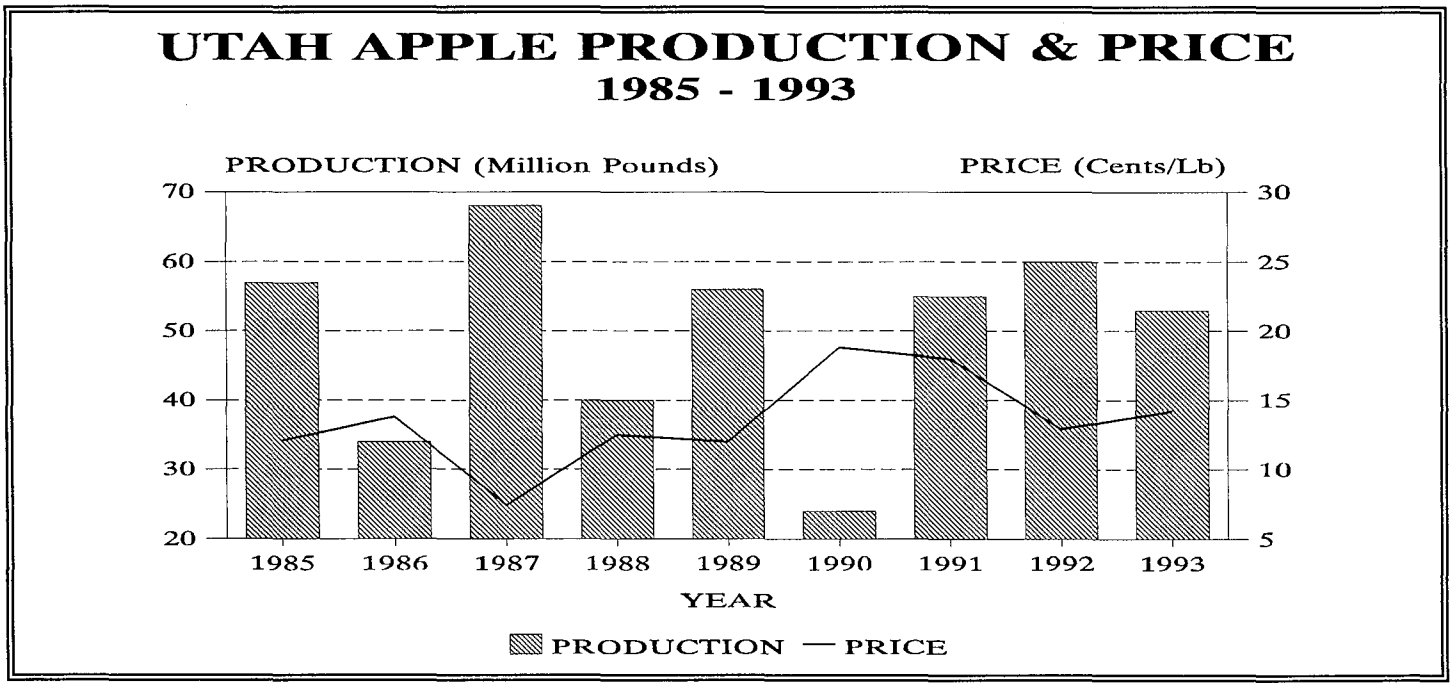
Sweet Cherry producers harvested 1,250 tons, 1,950 tons less than 1992. Utilized production was 1,200 tons. Average price received by growers was $967 per ton, up $320 from the previous year. The total value of the crop was $1.2 million, down 43 percent from 1992.

Tart Cherry production was 15 million pounds, 55 percent lower than 1992. Utilized production was 7.5 million pounds. Tart cherry prices for the 1993 crop will not be published until July 8, 1994.

Usual Blooming and Harvesting Dates: Fruits, Utah 1/

Fruit Crop	1993 Total Production	Usual Dates of Full Bloom	Usual Harvesting Dates			Principal Producing Counties
			Begins	Most Active	Ends	
	Tons	. . . . . Month and Day				Counties
Apricots	250	Apr 5-10	Jun 10	Jun 15-Jul 30	Aug 5	Washington, Box Elder, Weber, Davis, Utah
Sweet Cherries	1,250	Apr 15-24	Jun 10	Jun 15-Jul 15	Jul 20	Washington, Utah, Davis, Box Elder, Weber
Pears	1,400	Apr 25-30	Aug 5	Aug 10-Sep 15	Sep 23	Washington, Utah, Cache, Weber, Salt Lake, Box Elder
	Million Lbs	. . . . . Month and Day				
Apples	53.0	May 5	Sep 19	Sep 19-Oct 8	Nov 1	Utah, Box Elder, Weber, Davis, Salt Lake
Tart Cherries .	15.0	Apr 24	Jul 10	Jul 15-Jul 30	Aug 10	Utah, Box Elder, Weber, Davis, Salt Lake
Peaches	7.7	Apr 10-20	Jul 25	Aug 25-Sep 15	Sep 20	Utah, Box Elder, Davis, Weber, Salt Lake

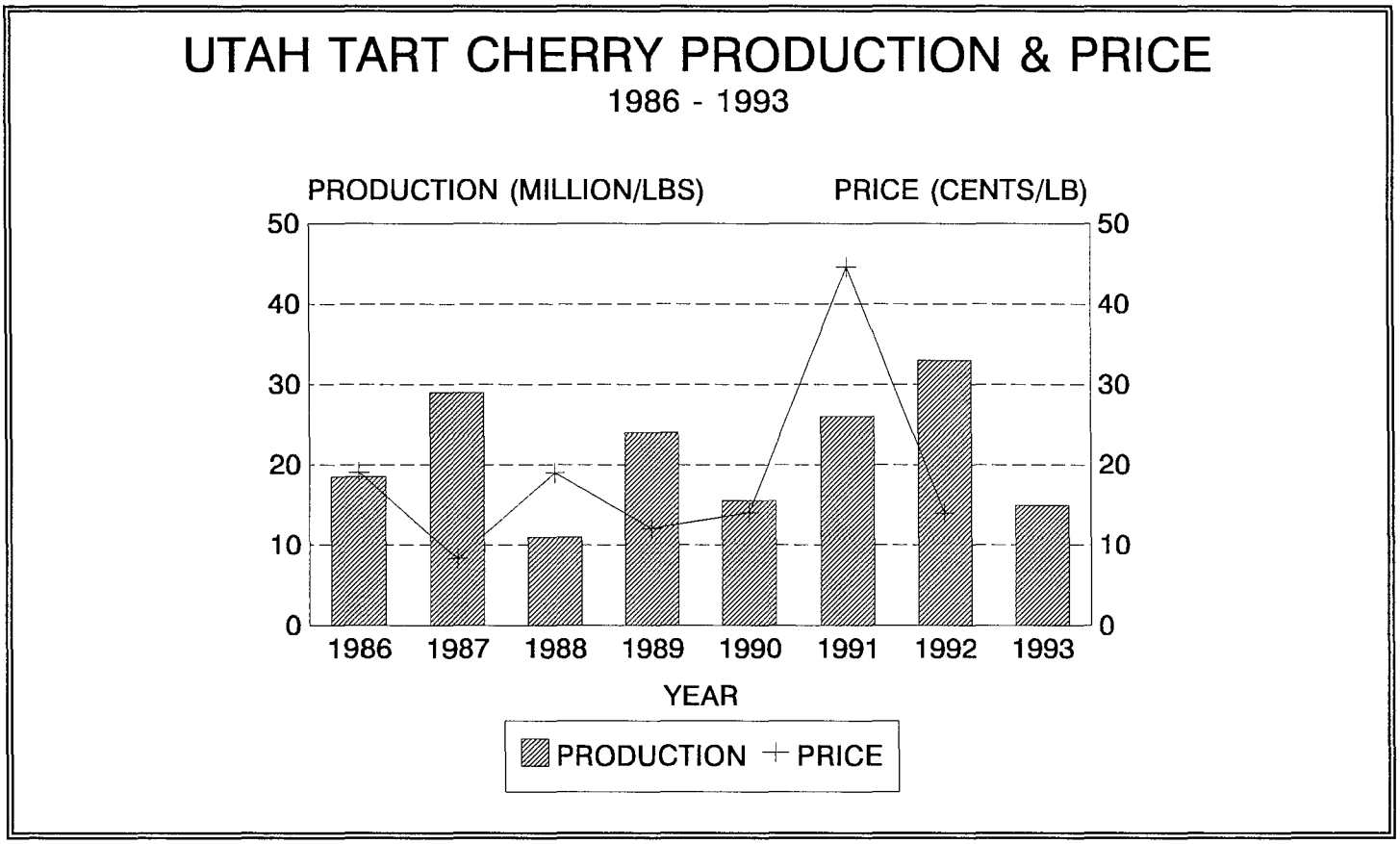
1/ Bloom and Usual Harvesting Dates are from the USDA Agriculture Handbook 186, December 1975.



Fruit: Value, Utah, Selected Years

Year	Apples	Peaches	Pears	Sweet Cherries	Tart Cherries	Apricots	Total
				1,000 Dollars			
1940 . . .	339	590	172	248	101	212	1,662
1950 . . .	733	431	126	124	142	72	1,658
1960 . . .	496	587	451	488	389	242	2,653
1970 . . .	1,570	826	439	830	696	176	4,537
1980 . . .	5,472	1,925	900	2,464	2,438	540	13,739
1987 . . .	4,635	1,760	680	1,181	1,654	147	10,057
1988 . . .	4,860	2,242	768	1,505	1,826	152	11,353
1989 . . .	6,458	2,258	884	1,280	2,716	165	13,761
1990 . . .	4,132	2,760	1,064	871	1,906	110	10,843
1991 . . .	9,740	850	968	700	11,583	74	23,915
1992 . . .	7,360	2,134	720	2,037	4,200	310	16,761
1993 . . .	6,958	1,776	520	1,160	1/	126	2/ 11,590

1/ The preliminary 1993 price and value will be published in the Non-Citrus Fruits and Nuts Annual published July 8, 1994. 2/ The 1992 tart cherry price times the 1993 production was used to calculate the 1993 total value.



Commercial Apples: Production, Use, and Value, Utah, Selected Years

Year	Production			Utilization		Average Price	Value of Utilized Production
	Total	Not Utilized	Utilized	Fresh	Processed		
	Million Pounds					Cents per Lb	1,000 Dollars
1940	22.3	2.7	19.6	--	--	1.7	339
1950	13.5	--	13.5	--	--	5.4	733
1960	10.3	--	10.3	--	--	4.8	496
1970	28.0	0.5	27.5	21.3	6.2	5.7	1,570
1980	52.0	2.0	50.0	42.0	8.0	10.9	5,472
1987	68.0	5.0	63.0	36.0	27.0	7.4	4,635
1988	40.0	1.0	39.0	30.0	9.0	12.5	4,860
1989	56.0	2.0	54.0	40.0	14.0	12.0	6,458
1990	24.0	2.0	22.0	18.0	4.0	18.8	4,132
1991	55.0	1.0	54.0	38.0	16.0	18.0	9,740
1992	60.0	3.0	57.0	41.0	16.0	13.0	7,360
1993 1/	53.0	4.0	49.0	2/	2/	14.0	6,958

1/ Preliminary estimates. Estimates subject to revision in the Non-Citrus Fruits and Nuts annual July 8, 1994.
2/ Estimates available July 8, 1994.

Apricots: Production, Use, and Value, Utah, Selected Years

Year	Production			Utilization		Average Price	Value of Utilized Production
	Total	Not Utilized	Utilized	Fresh 1/	Processed		
	Tons					Dollars per Ton	1,000 Dollars
1940	7,800	--	7,800	--	--	27.20	212
1950	400	--	400	--	--	180.00	72
1960	2,500	--	2,500	--	--	96.60	242
1970	1,300	--	1,300	1,300	--	135.00	176
1980	1,500	--	1,500	1,500	--	360.00	540
1987	450	100	350	350	--	420.00	147
1988	500	100	400	400	--	380.00	152
1989	400	50	350	350	--	470.00	165
1990	250	10	240	240	--	460.00	110
1991	100	10	90	90	--	820.00	74
1992	600	100	500	500	--	620.00	310
1993 2/	250	10	240	240	--	525.00	126

1/ Small quantities processed are included in "fresh" to avoid disclosure of individual operations. 2/ Preliminary estimates.

Peaches: Production, Use, and Value, Utah, Selected Years

Year	Production			Utilization		Average Price	Value of Utilized Production
	Total	Not Utilized	Utilized	Fresh	Processed		
	Million Pounds					Cents per Lb	1,000 Dollars
1940	35.4	--	35.4	--	--	1.7	590
1950	5.4	--	5.4	--	--	8.0	431
1960	8.6	--	8.6	--	--	6.8	587
1970	13.0	--	13.0	13.0	--	6.4	826
1980	11.0	--	11.0	11.0	--	17.5	1,925
1987	12.0	1.0	11.0	11.0	--	16.0	1,760
1988	12.5	0.7	11.8	11.8	--	19.0	2,242
1989	11.0	0.5	10.5	10.5	--	21.5	2,258
1990	12.0	0.5	11.5	11.5	--	24.0	2,760
1991	2.5	--	2.5	2.5	--	34.0	850
1992	10.8	1.1	9.7	2/	2/	22.0	2,134
1993 1/	7.7	0.3	7.4	7.4	--	24.0	1,776

1/ Preliminary estimates. 2/ Not published to avoid disclosure of individual operations.

Pears: Production, Use, and Value, Utah, Selected Years

Year	Production			Utilization		Average Price	Value of Utilized Production
	Total	Not Utilized	Utilized	Fresh	Processed		
	Tons					Dollars per Ton	1,000 Dollars
1940	4,525	--	4,525	--	--	38.00	172
1950	875	--	875	--	--	144.00	126
1960	4,380	200	4,180	--	--	108.00	451
1970	4,300	--	4,300	--	--	102.00	439
1980	3,000	--	3,000	3,000	--	300.00	900
1987	2,600	100	2,500	2,500	--	272.00	680
1988	2,000	--	2,000	2,000	--	384.00	768
1989	2,600	--	2,600	2,600	--	340.00	884
1990	2,800	--	2,800	2,800	--	380.00	1,064
1991	2,200	--	2,200	2,200	--	440.00	968
1992	1,800	--	1,800	1,800	--	400.00	720
1993 1/	1,400	100	1,300	1,300	--	400.00	520

1/ Preliminary estimates.

Sweet Cherries: Production, Use, and Value, Utah, Selected Years

Year	Production			Utilization		Average Price	Value of Utilized Production
	Total	Not Utilized	Utilized	Fresh	Processed		
	Tons					Dollars per Ton	1,000 Dollars
1940	3,100	--	3,100	--	--	80.00	248
1950	440	--	440	--	--	282.00	124
1960	1,200	--	1,200	--	--	407.00	488
1970	2,300	--	2,300	2,030	270	361.00	830
1980	4,100	--	4,100	3,500	600	601.00	2,464
1987	1,800	30	1,770	940	830	667.00	1,181
1988	2,000	60	1,940	1,430	510	776.00	1,505
1989	1,700	100	1,600	1,200	400	800.00	1,280
1990	1,400	50	1,350	500	850	645.00	871
1991	800	--	800	460	340	875.00	700
1992	3,200	50	3,150	1,050	2,100	647.00	2,037
1993	1,250	50	1,200	650	550	967.00	1,160

Tart Cherries: Production, Use and Value, Utah, Selected Years

Year	Production			Utilization		Average Price	Value of Utilized Production
	Total	Not Utilized	Utilized	Fresh	Processed		
	Million Pounds					Cents per Pound	1,000 Dollars
1940	4.6	--	4.6	--	--	2.2	101
1950	1.6	--	1.6	--	--	8.9	142
1960	5.6	--	5.6	--	--	6.9	389
1970	9.8	--	9.8	0.8	9.0	7.1	696
1980	13.0	0.1	12.9	0.3	12.6	18.9	2,438
1987	29.0	9.0	20.0	0.2	19.8	8.3	1,654
1988	11.0	1.4	9.6	0.1	9.5	19.0	1,826
1989	24.0	1.5	22.5	0.1	22.4	12.1	2,716
1990	15.5	2.0	13.5	0.1	13.4	14.1	1,906
1991	26.0	--	26.0	0.1	25.9	44.6	11,583
1992	33.0	3.0	30.0	0.3	29.7	14.0	4,200
1993	15.0	7.5	7.5	0.1	7.4	1/	1/

1/ Estimates to be published July 8, 1994 in the Non-Citrus Fruits and Nuts Annul.

Utah Fruit Tree Counts - 1993

The 1993 Utah Fruit Tree Survey indicates there were 1,531,140 fruit trees in commercial orchards in Utah. There were a total of 9,870 acres of fruit trees operated by 306 operations. Trees of bearing age totaled 1,336,967 which accounted for 87 percent of the total fruit trees in Utah.

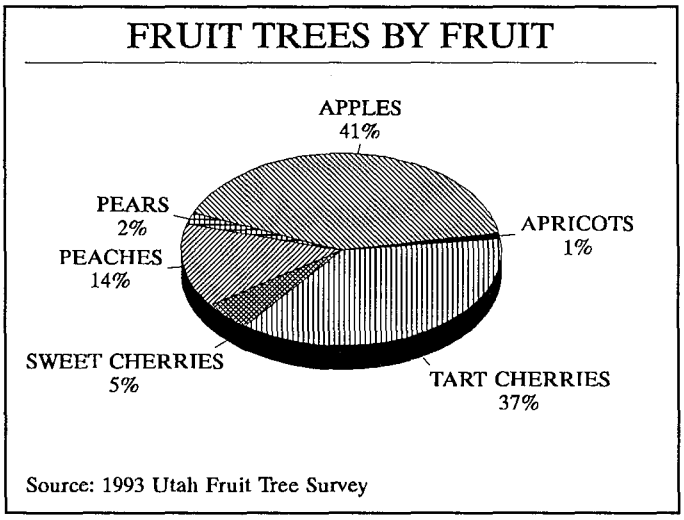
Apples had the largest number of trees with 631,544 which was 41 percent of the total trees. Tart cherries were second in the state for tree numbers with 565,243 trees, accounting for 37 percent of the total trees.

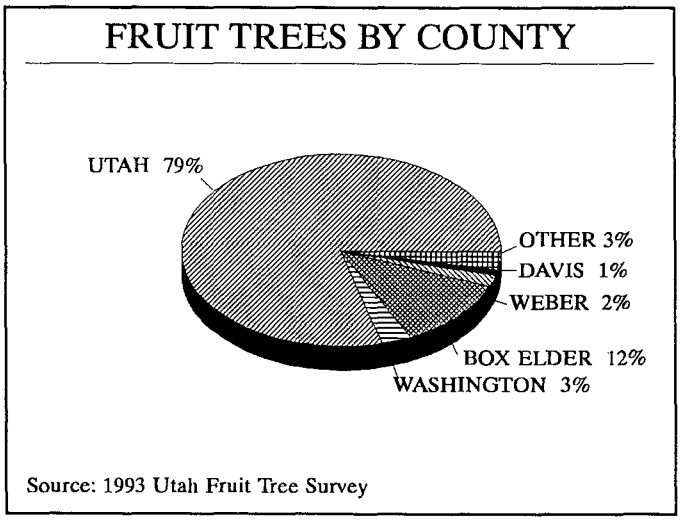
See page 100 for county detail on fruit trees. Additional detail on age and varieties is available in the "Utah Fruit Tree Survey 1993." This publication may be obtained by contacting the Utah Agricultural Statistics Service at 801-524-5003.

Number of Non-bearing, Bearing, and Total Trees, by Fruit, Utah 1993

Fruit	Non-bearing Trees	Bearing Age Trees	Total Trees	No. Reporting Orchards/Operations
Apples	83,197	1/ 548,347	631,544	2/ 181
Density 1-200	24,680	3/ 225,865	250,545	161
Density 201-500	34,765	3/ 264,940	299,705	32
Density 501 +	23,752	4/ 57,542	81,294	7
Pears	8,098	3/ 24,800	32,898	64
Peaches	40,953	4/ 162,046	202,999	173
Sweet Cherries	15,277	5/ 64,495	79,772	85
Tart Cherries	43,697	6/ 521,546	565,243	104
Apricots	2,951	3/ 15,733	18,684	41

1/ Bearing age varies by planting density. 2/ Does not add to density total because some operations have plantings for more than one density. 3/ Bearing age trees includes trees 4 years old and older. 4/ Bearing age trees includes trees 3 years old and older. 5/ Bearing age trees includes trees 7 years old and older. 6/ Bearing age trees includes trees 5 years old and older.





Onions

Utah onion growers produced 792,000 cwt of onions in 1993. This was 25 percent below the previous year's estimate. Growers planted 2,100 acres, the same as 1992, and harvested 1,800 acres during the year, down 200 acres from 1992. The yield per acre was 440 cwt, 85 cwt below the previous year.

Farmers received an average of $12.40 per cwt for their onions. Total value of the crop was $7.9 million, down 9 percent from 1992.

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

Year	Acreage		Yield per Acre	Production	Quantity Not Sold 1/	Sales	Value of Sales	
	Planted	Harvested					Per Cwt	Total
	Acres		Cwt	1,000 Cwt			Dollars	1,000 Dollars
1940	--	1,100	200	220	38	182	0.50	91
1950	1,150	1,100	270	297	83	214	1.80	385
1960	750	700	325	228	63	165	2.80	462
1970	1,000	1,000	300	300	55	245	2.75	674
1980	2,000	1,900	345	656	98	558	13.20	7,366
1987	1,800	1,700	485	825	115	710	8.27	5,872
1988	1,900	1,800	380	684	101	583	8.26	4,816
1989	2,000	1,900	445	846	85	761	8.33	6,339
1990	2,000	1,900	480	912	100	812	8.40	6,821
1991	2,000	1,900	460	874	157	717	7.80	5,593
1992	2,100	2,000	525	1,050	158	892	9.65	8,608
1993	2,100	1,800	440	792	158	634	12.40	7,862

1/ Includes shrinkage, waste, and cullage.

Floriculture

In 1993 there were 87 growers of floriculture with wholesale sales of $10,000 or more in Utah with 3.5 million square feet of total covered growing area. The total wholesale value of all reported crops for growers with more than $100,000 in sales was $20.8 million. Of the $20.8 million, the value of sales for total cut flowers was $3.5 million, total potted flowering plants was $5.0 million, foliage for indoor or patio use was $2.7 million, and total bedding/garden plants was $9.7 million.

Floriculture Crops: Wholesale Value of Sales, Utah, Selected Types 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

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

Floriculture Crops: Quantity Sold, Wholesale, Utah, Selected Types 1/

Year	Potted Poinsettias	Other Flowering and Foliage Type Bedding Plants	Vegetable Type Bedding Plants	Potted Hardy Garden Chrysanthemums
	1,000 Pots	1,000 Flats	1,000 Flats	1,000 Pots
1992	447	749	124	110
1993	701	764	102	246

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

Cattle and Calves

Utah cattlemen had a total of 850,000 cattle and calves on farms and ranches on January 1, 1994, the same as the previous year. Beef cows, at 340,000 head, decreased 1 percent from the 1993 level and milk cows, at 80,000 head, decreased 4 percent. Beef cow replacement heifers weighing 500 pounds or more were estimated at 69,000 head, up 11 percent from January 1, 1993. Milk cow replacements totaled 45,000 head compared with 50,000 head in 1993. Other heifers, at 45,000 head, increased 1,000 head from the previous year's level. The January 1, 1994 level for steers 500 pounds and over was 115,000 head, an increase of 4,000 head from the previous year. Bulls, at 20,000 head, decreased 1,000 head from 1993. Calves weighing less than 500 pounds were estimated at 136,000 head, the same as January 1, 1993.

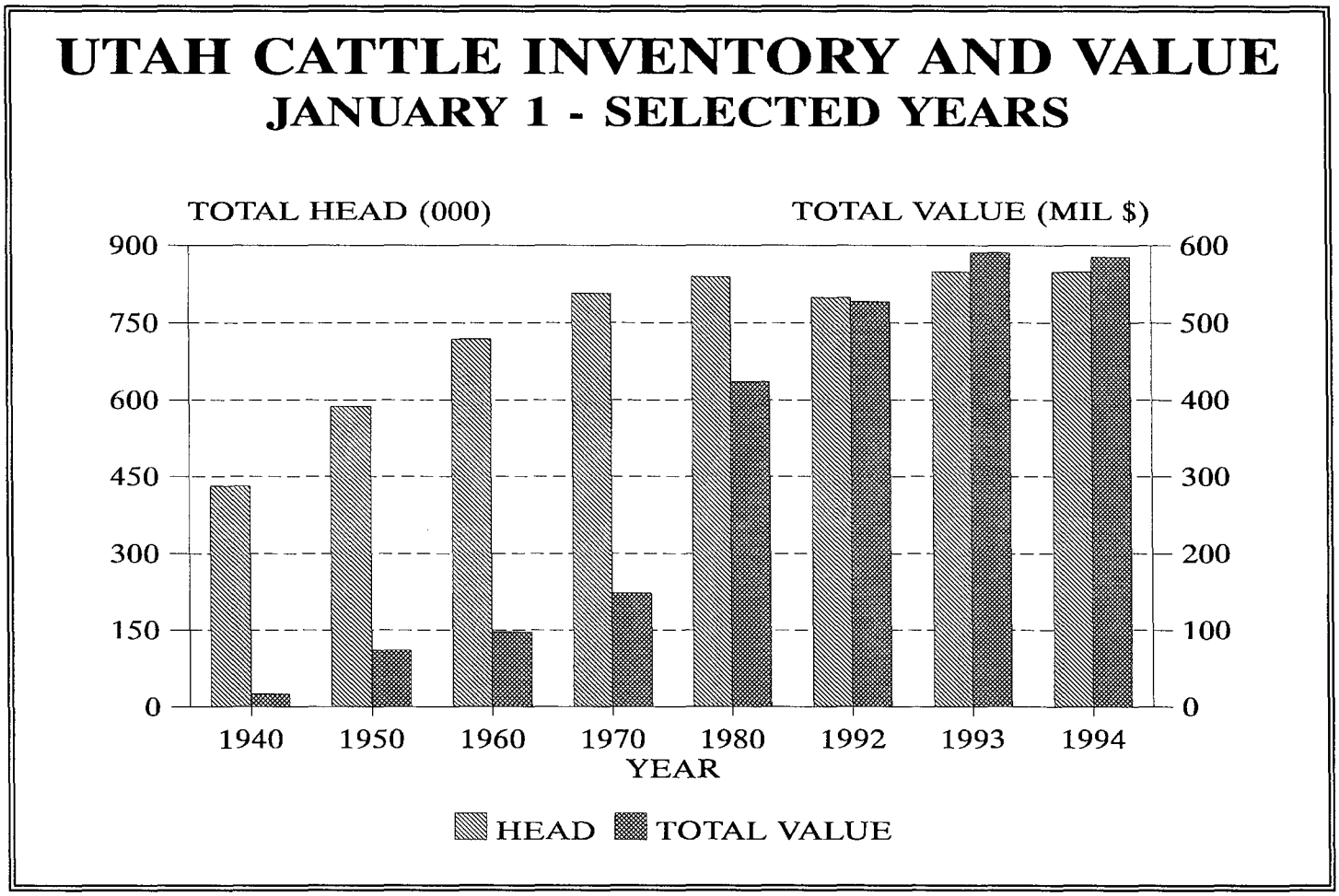
Utah's 1993 calf crop totaled 360,000 head, down 3 percent from the previous year. The calving rate was 86 percent, 1 percentage point below 1992. Cattle and calves on full feed for slaughter totaled 45,000 head January 1, 1994, a 13,000 head decrease from 1993. The average value per head was $690.00 on January 1, 1994 compared to $695.00 per head on January 1, 1993. The total inventory was valued at $586.5 million, down 1 percent from the 1993 level.

The 1993 estimate of the number of cattle operations was 7,800, the same as the previous year. The breakdown by size group is as follows: 4,400 operations with 1 to 49 head; 1,100 with 50 to 99 head; 1,900 with 100 to 499 head; 260 with 500 to 999 head; and 140 with 1,000 head or more. Operations with more than 500 head accounted for 41 percent of the Utah cattle inventory and those with 100 to 499 head accounted for 43 percent. Operations with less than 100 head accounted for only 16 percent of the cattle inventory.

Beef production during 1993 totaled 358.0 million pounds, up 1 percent from the previous year. Marketings during the year, at 395.1 million pounds, were up 7 percent from 1992. Total cash receipts for 1993 were $315.6 million, up 17 percent from the previous year. The average price per hundredweight (cwt) of cattle was $78.10, a $6.50 increase from the 1992 average. Calves, at $98.00 per cwt, were up $7.60 from the previous year.

Cattle: Farms, Inventory, and Value, Utah, January 1, Selected Years

Year	Farms		All Cattle and Calves on Farms January 1			
	With Cattle	With Milk Cows	Total Number	Value		On Feed For Market
				Per Head	Total	
	. . . . . Number		1,000 Head	Dollars	1,000 Dollars	1,000 Head
1940 . .	--	--	432	38.20	16,502	--
1950 . .	--	--	588	126.00	74,088	40
1960 . .	--	--	719	136.00	97,784	61
1970 . .	10,000	3,800	808	185.00	149,480	57
1980 . .	10,000	2,600	840	505.00	424,200	60
1987 . .	8,600	2,000	770	410.00	315,700	36
1988 . .	8,500	1,600	800	540.00	432,000	45
1989 . .	8,300	1,500	800	610.00	488,000	48
1990 . .	7,800	1,500	780	665.00	518,700	41
1991 . .	7,600	1,500	810	670.00	542,700	52
1992 . .	7,800	1,500	800	660.00	528,000	50
1993 . .	7,800	1,400	850	695.00	590,750	58
1994 . .	--	--	850	690.00	586,500	45



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

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

1/ Beginning with January 1, 1970, the classification estimates for cattle were changed from sex and age, to sex and weight -- see table below.

Cattle: Inventory by Classes and Weight, Utah, January 1, Selected Years 1/

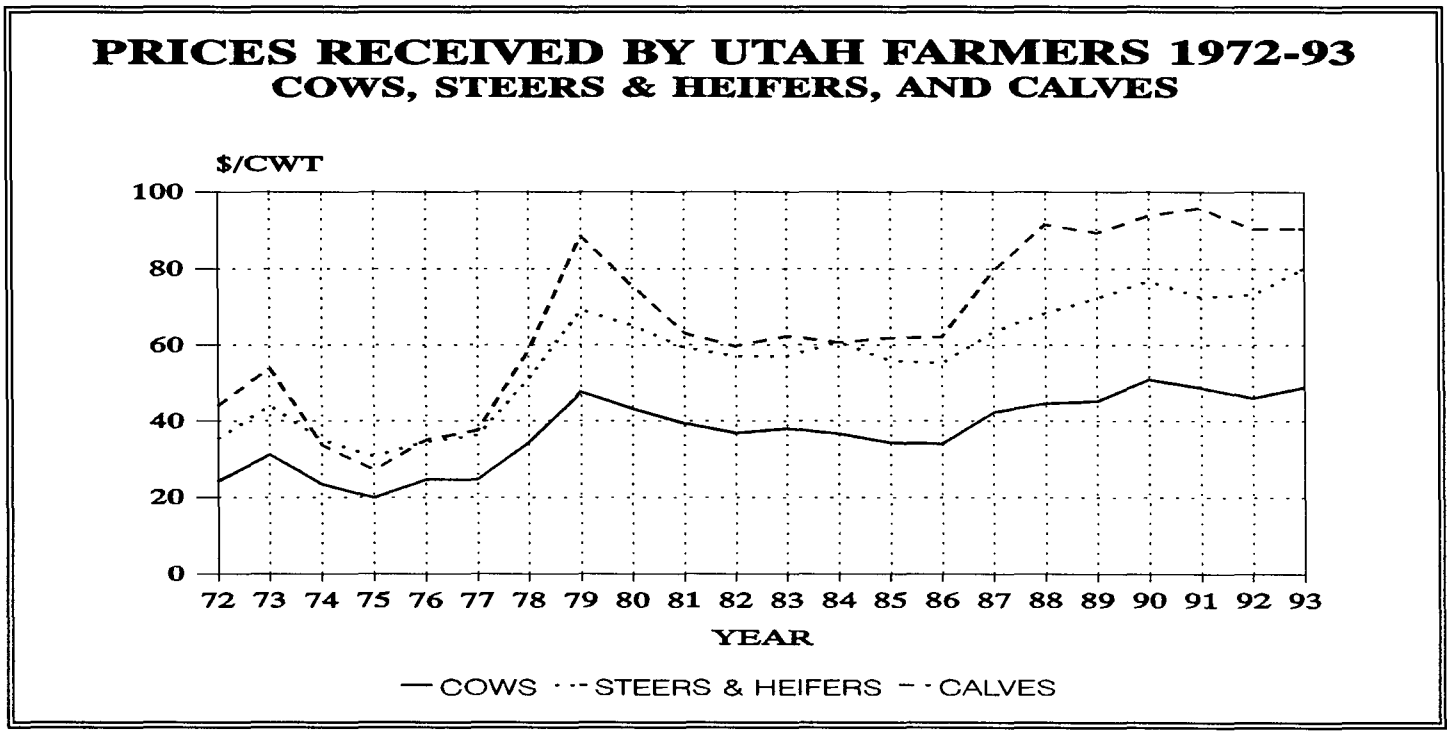
Year	All Cattle and Calves	All Cows & Heifers that have Calved			Heifers 500 Pounds & Over				Steers 500 Lbs & Over	Bulls 500 Lbs & Over	Steers, Heifers & Bulls Under 500 Lbs
		Total	Beef Cows	Milk Cows	Total	Beef Cow Replace-ments	Milk Cow Replace-ments	Other			
	1,000 Head										
1970	808	392	316	76	122	52	44	26	75	17	202
1980	840	400	325	75	129	54	42	33	80	18	213
1987	770	394	320	74	122	45	36	41	90	19	145
1988	800	410	337	73	136	54	38	44	95	19	140
1989	800	410	336	74	141	56	40	45	98	21	130
1990	780	405	325	80	145	57	48	40	88	20	122
1991	810	401	321	80	146	58	52	36	109	19	135
1992	800	400	324	76	145	58	48	39	107	20	128
1993	850	426	343	83	156	62	50	44	111	21	136
1994	850	420	340	80	159	69	45	45	115	20	136

1/ Beginning with January 1, 1970, the classification estimates for cattle were changed from sex and age, to sex and weight.

Calf Crop: Utah, Selected Years

Year	Cows & Heifers 2 yrs. & Older January 1	Cows That Have Calved January 1	Calf Crop	Calf Crop As Percent of Cows & Heifers 2+ January 1 1/	Calf Crop As Percent of Cows Calved January 1 2/
	1,000 Head			Percent	Percent
1940	218	--	174	80	--
1950	302	--	263	87	--
1960	360	--	317	88	--
1970	424	392	372	88	95
1980	--	400	358	--	90
1987	--	394	365	--	93
1988	--	410	375	--	91
1989	--	410	360	--	88
1990	--	405	350	--	86
1991	--	400	330	--	83
1992	--	426	370	--	87
1993	--	420	360	--	86

1/ Not strictly a calving rate. Figure represents calf crop expressed as percentage of number of cows and heifers 2 years old and over on farms and ranches January 1 beginning of year. 2/ 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: Inventory, Supply, and Disposition, Utah, Selected Years

Year	Inventory Beginning of Year	Calf Crop	Inshipments	Marketings 1/		Farm Slaughter 2/	Deaths		Inventory End of Year
				Cattle	Calves	Cattle & Calves	Cattle	Calves	
	1,000 Head								
1940	432	174	25	101	45	11	8	12	454
1950	588	263	41	139	98	12	16	15	612
1960	719	317	54	234	111	11	14	22	698
1970	808	372	50	213	140	4	17	24	832
1980	840	358	50	205	106	5	16	41	875
1987	770	365	77	250	102	3	15	42	800
1988	800	375	90	313	101	2	14	35	800
1989	800	360	85	311	110	4	10	30	780
1990	780	350	89	291	75	5	12	26	810
1991	810	330	86	310	72	5	11	28	800
1992	800	370	90	296	68	4	12	30	850
1993	850	360	85	312	86	2	15	30	850

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

Cattle and Calves: Production, Marketings and Income, Utah, Selected Years

Year	Production 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		1,000 Dollars			
1940	105,545	103,170	6.80	8.90	--	7,478	198	7,676
1950	157,125	158,135	23.20	26.80	--	38,794	850	39,644
1960	217,665	257,715	18.40	23.40	41,993	49,373	1,172	50,545
1970	256,121	259,978	25.60	34.20	70,803	71,552	2,189	73,741
1980	257,490	251,370	60.30	75.50	161,267	156,938	7,518	164,456
1987	301,765	319,570	61.80	79.40	192,893	204,227	5,729	209,956
1988	341,570	397,040	66.50	91.50	236,559	274,384	4,309	278,693
1989	335,220	404,810	67.00	89.40	234,027	281,325	5,574	286,899
1990	330,355	366,020	73.80	93.90	250,963	276,303	7,675	283,978
1991	327,505	387,020	71.30	95.80	240,100	283,178	7,415	290,593
1992	352,920	367,960	71.60	90.40	258,497	268,701	7,446	276,147
1993	358,010	395,100	78.10	98.00	286,217	315,590	5,686	321,276

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.

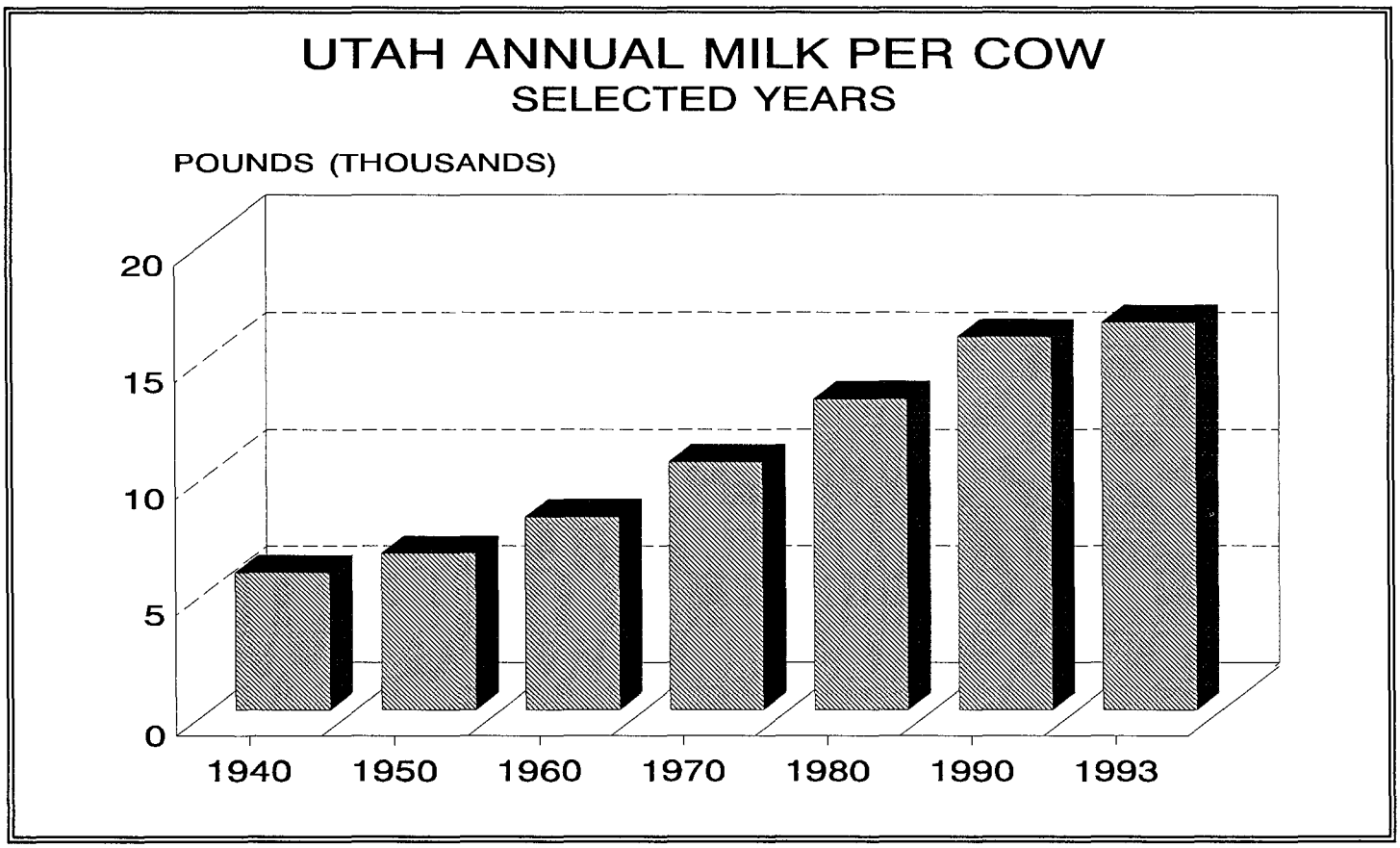
Dairy

Milk production in Utah reached 1.3 billion pounds in 1993, a decrease of 1 percent from 1992. Production per cow, at 16,444 pounds, increased 42 pounds from the previous year and marked the eighth straight year of record high milk per cow. The 1993 milkfat per cow was 592 pounds, same level as the previous year.

There were an estimated 1,400 farms with 1 or more milk cows during 1993, 100 fewer than 1992. The breakdown of dairy farms by herd size was as follows: 660 farms with 1 to 29 head, 100 with 30 to 49 head, 290 with 50 to 99 head, 220 with 100 to 199 head, and 130 with 200 or more cows. The largest percent of the Utah milk cow inventory fell in the 200 cows or more herd size which accounted for 43 percent. The herd size with the second largest percent of inventory was the 100 to 199 size group with 28.9 percent. The 1 to 29 head category only accounted for 1.8 percent.

Cash receipts from milk marketings during the year totaled $152 million, down 10 percent from 1992. The price per hundredweight of all milk was $12.10 compared to $12.30 received the previous year.

Utah's 1993 total cheese production was 78.4 million pounds, 10 percent below the previous year. American cheese, at 34.4 million pounds, decreased 35 percent from the 1992 level. Cheddar cheese accounted for 71 percent of the total American cheese produced. Production of Swiss cheese totaled 27.1 million pounds, a 12 percent increase from 1992. Swiss cheese accounted for 35 percent of the total cheese produced. Other types of cheese accounted for the remainder of the cheese produced. Hard ice cream production, at 9.4 million gallons, was 1 percent above 1992. There were 20 dairy plants in Utah that produced 1 or more dairy products in 1993.



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

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total 1/
						Milk Cows 2/ (Thousand Head)							
1940	96	96	96	96	96	96	96	96	96	96	97	97	96
1950	100	100	100	100	100	100	100	100	100	100	99	99	100
1960	95	94	94	94	94	94	94	94	94	94	94	93	94
1970	76	76	77	77	78	78	78	78	79	79	80	80	78
1980	75	76	76	77	78	78	79	80	79	79	78	79	78
1987 3/	--	--	76	--	--	79	--	--	79	--	--	76	78
1988 3/	--	--	75	--	--	77	--	--	78	--	--	76	77
1989 3/	--	--	74	--	--	76	--	--	77	--	--	75	76
1990 3/	--	--	80	--	--	81	--	--	80	--	--	80	80
1991 3/	--	--	79	--	--	80	--	--	80	--	--	78	79
1992 3/	--	--	81	--	--	83	--	--	83	--	--	82	82
1993 3/	--	--	81	--	--	83	--	--	81	--	--	80	81
						Milk per Cow 4/ (Pounds)							
1940	427	426	483	518	597	566	537	485	436	437	398	414	5,730
1950	527	487	546	587	659	665	625	557	479	479	451	483	6,550
1960	660	640	710	720	770	735	700	670	630	650	610	635	8,130
1970	840	800	900	900	940	920	920	910	860	860	810	840	10,500
1980	1,080	1,010	1,120	1,115	1,195	1,150	1,190	1,140	1,075	1,075	1,015	1,040	13,179
1987 5/	--	--	3,539	--	--	3,684	--	--	3,646	--	--	3,592	14,372
1988 5/	--	--	3,613	--	--	3,935	--	--	3,897	--	--	3,803	15,156
1989 5/	--	--	3,703	--	--	3,947	--	--	3,948	--	--	3,893	15,395
1990 5/	--	--	3,750	--	--	4,025	--	--	4,038	--	--	3,975	15,838
1991 5/	--	--	3,772	--	--	4,063	--	--	4,088	--	--	4,000	15,975
1992 5/	--	--	3,914	--	--	4,157	--	--	4,145	--	--	4,134	16,402
1993 5/	--	--	3,963	--	--	4,181	--	--	4,173	--	--	4,075	16,444
						Milk Produced 4/ (Million Pounds)							
1940	41	41	46	50	57	54	52	47	42	42	38	40	550
1950	53	49	55	59	60	66	62	56	48	48	45	48	655
1960	63	60	67	68	72	69	66	63	59	61	57	59	764
1970	64	61	69	69	73	72	72	71	68	68	65	67	819
1980	81	77	85	86	93	90	94	91	85	85	79	82	1,028
1987 6/	--	--	269	--	--	291	--	--	288	--	--	273	1,121
1988 6/	--	--	271	--	--	303	--	--	304	--	--	289	1,167
1989 6/	--	--	274	--	--	300	--	--	304	--	--	292	1,170
1990 6/	--	--	300	--	--	326	--	--	323	--	--	318	1,267
1991 6/	--	--	298	--	--	325	--	--	327	--	--	312	1,262
1992 6/	--	--	317	--	--	345	--	--	344	--	--	339	1,345
1993 6/	--	--	321	--	--	347	--	--	338	--	--	326	1,332

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

Dairy: Farms, Milk Production and Milkfat, Utah, Selected Years

Year	Farms with Milk Cows	Number of Milk Cows on Farms 1/	Production of Milk & Milkfat				
			Per Cow		Total		
			Milk	Milkfat	Milk	Milkfat	Percentage Milkfat
	Number	1,000 Head	..... Pounds		.... Million Pounds		Percent
1940	--	96	5,730	215	550	21	3.75
1950	--	100	6,550	246	655	25	3.75
1960	--	94	8,130	297	764	28	3.65
1970	3,800	78	10,500	382	819	30	3.64
1980	2,600	78	13,179	468	1,028	36.5	3.55
1987	1,700	78	14,372	516	1,121	40.2	3.59
1988	1,600	77	15,156	549	1,167	42.2	3.62
1989	1,500	76	15,395	556	1,170	42.2	3.61
1990	1,500	80	15,838	569	1,267	45.5	3.59
1991	1,500	79	15,975	575	1,262	45.4	3.60
1992	1,500	82	16,402	592	1,345	48.6	3.61
1993	1,400	81	16,444	592	1,332	48.0	3.60

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

Milk Disposition: Milk Used and Marketed by Farmers, Utah, Selected Years

Year	Milk Used on Farms Where Produced				Milk Marketed by Farmers			
					Sold to Plants and Dealers		Sold Directly to Consumers	Total
	Fed to Calves	Consumed as Fluid Milk and Cream	Used for Farm-Churned Butter	Total	As Whole Milk	As Farm Separated Cream		
	Million Pounds							
1940 ...	17	61	22	100	296	116	35	1/ 450
1950 ...	22	51	13	86	515	26	28	569
1960 ...	18	33	5	56	675	11	22	708
1970 ...	9	18	--	27	740	2	50	792
1980 ...	9	9	--	18	985	--	25	1,010
1987 ...	21	4	--	25	1,045	--	51	1,096
1988 ...	20	4	--	24	1,095	--	48	1,143
1989 ...	17	3	--	20	1,111	--	39	1,150
1990 ...	22	3	--	25	1,200	--	42	1,242
1991 ...	21	3	--	24	1,183	--	55	1,238
1992 ...	22	3	--	25	1,266	--	54	1,320
1993 ...	22	3	--	25	1,259	--	48	1,307

1/ Includes 3,000,000 pounds for farm churned butter sold.

Milk & Cream Sold: Quantity, Price & Cash Receipts, Utah, Selected Years

Year	Milk Sold to Plants & Dealers				Cream Sold to Plants and Dealers			Milk Sold Directly to Consumers 2/		
	Quantity	Percent Fluid Grade 1/	Price per 100 Lb	Cash Receipts	Quantity Milkfat	Price per Lb Fat	Cash Receipts	Quantity	Price per Quart	Cash Receipts
	Million Pounds	Percent	Dollars	1,000 Dollars	1,000 Pounds	Cents	1,000 Dollars	1,000 Quarts	Cents	1,000 Dollars
1940	296	--	1.45	4,292	4,330	30	1,299	16,000	7.7	1,232
1950	515	--	3.69	19,004	970	62	601	13,000	16.0	2,080
1960	675	--	4.07	27,472	400	55	220	10,000	18.0	1,800
1970	740	71	5.48	40,552	71	59	42	23,256	21.5	5,000
1980	985	70	12.50	123,125	--	--	--	11,628	38.0	4,419
1987	1,045	82	11.90	124,355	--	--	--	23,721	42.0	9,963
1988	1,095	80	11.60	127,020	--	--	--	22,326	42.0	9,377
1989	1,111	82	12.60	139,986	--	--	--	18,140	46.0	8,344
1990	1,200	82	12.90	154,800	--	--	--	19,535	51.0	9,963
1991	1,183	85	11.50	136,045	--	--	--	25,581	49.0	12,535
1992	1,266	85	12.30	155,718	--	--	--	25,116	55.0	13,814
1993	1,259	88	12.10	152,339	--	--	--	22,326	57.0	12,726

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

Milk & Cream: Marketings, Used on Farm, Income, and Value, Utah, Selected Years

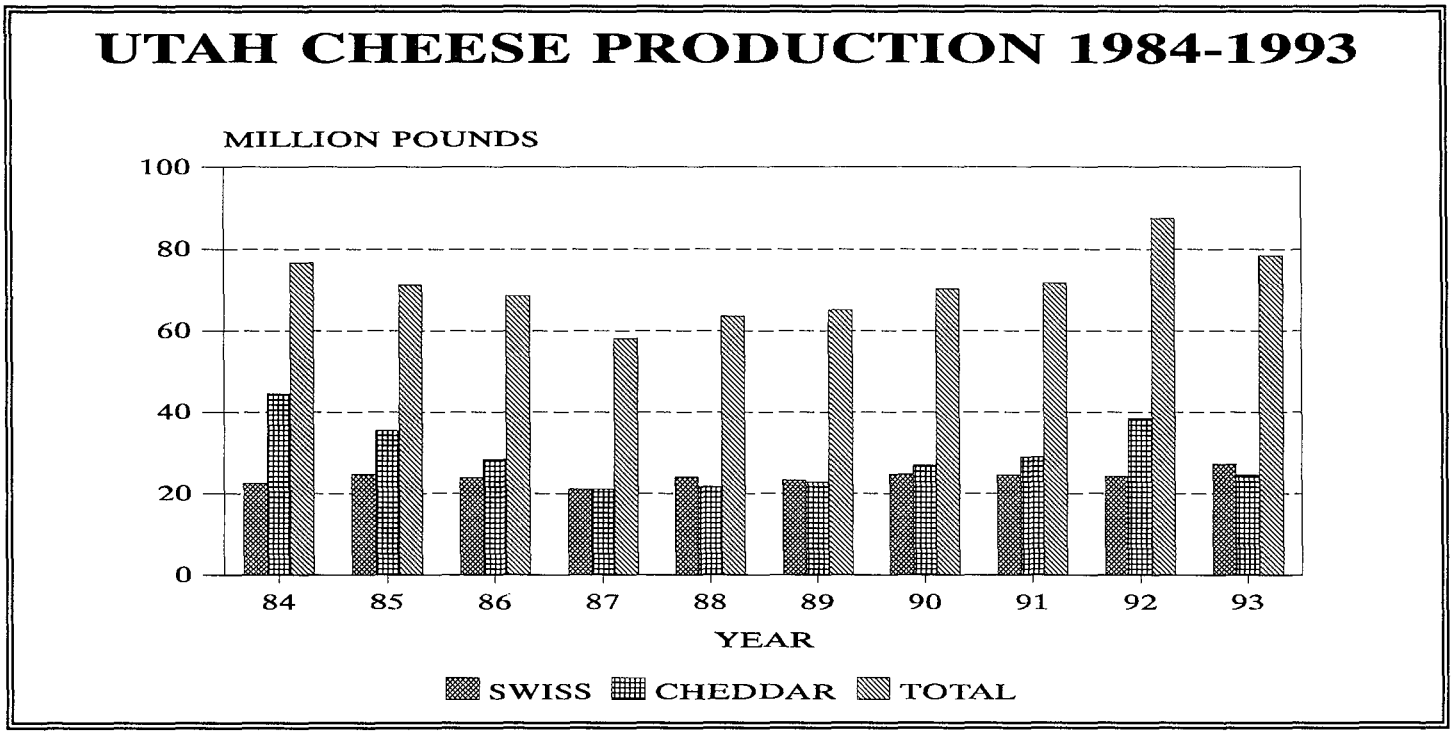
Year	Combined Marketings of Milk & Cream				Used for Milk, Cream, and Butter on Farms Where Produced		Gross Farm Income from Milk 1/	Farm Value of Milk Produced 2/
	Milk Utilized	Average Returns		Cash Receipts from Marketings	Milk Utilized	Value		
		Per 100 Pounds Milk	Per Pound Milkfat					
	Million Pounds	Dollars	Dollars	1,000 Dollars	Million Pounds	1,000 Dollars	1,000 Dollars	1,000 Dollars
1940	450	1.53	0.41	6,868	83	1,270	8,138	8,423
1950	570	3.81	1.02	21,717	63	2,400	24,117	24,956
1960	708	4.17	1.14	29,492	38	1,585	31,077	31,859
1970	792	5.76	1.58	45,594	18	1,037	46,631	47,174
1980	1,010	12.63	3.56	127,544	9	1,137	128,680	129,817
1987	1,096	12.26	3.41	134,318	4	490	134,808	137,382
1988	1,143	11.93	3.30	136,397	4	477	136,874	139,261
1989	1,150	12.90	3.57	148,330	3	387	148,717	150,910
1990	1,242	13.27	3.70	164,763	3	398	165,161	168,079
1991	1,238	12.00	3.33	148,580	3	360	148,940	151,460
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	165,443	168,222

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.

Butter and Cheese: Production, Utah, Selected Years

	Butter	Cheese				
		American			Swiss 1/	Total 2/
		Cheddar	Other	All		
	1,000 Pounds					
1940	10,426	--	--	4,496		4,496
1950	5,834	--	--	6,901	5,163	12,246
1960	7,106	5,460	608	6,068	5,890	11,958
1970	8,411	18,279	3,911	22,190	10,776	32,966
1980	5,592	40,554	9,709	50,263	21,144	71,659
1987	9,007	21,098	11,999	33,097	21,000	58,017
1988	10,686	21,678	14,219	35,897	24,031	63,563
1989	3/	22,842	14,874	37,716	23,320	65,042
1990	3/	26,814	13,953	40,767	24,598	70,204
1991	3/	28,900	14,167	43,067	24,473	71,574
1992	3/	38,447	14,281	52,728	24,227	87,455
1993	3/	24,539	9,858	34,397	27,134	78,353

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



Cottage Cheese & Dry Whey: Production, Utah, Selected Years

Year	Cottage Cheese		Dry Whey		
	Curd 1/	Creamed	Human Food	Animal Feed	Total
	1,000 Pounds				
1940	670	966	--	--	--
1950	2,476	3,563	--	--	--
1960	4,796	7,458	--	--	--
1970	5,236	8,795	2/	2/	12,190
1980	5,427	3/ 8,980	20,309	520	20,829
1987	4,131	3/ 6,776	16,497	326	16,823
1988	4,314	3/ 7,107	2/	2/	2/
1989	2/	2/	2/	2/	2/
1990	2/	2/	2/	2/	2/
1991	2/	2/	2/	2/	2/
1992	2/	2/	22,087	2,683	24,770
1993	2/	2/	25,283	1,459	26,742

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

Frozen Products: Production, Utah, Selected Years

Year	Ice Cream 1/	Ice Milk			Sherbet 1/	Water Ices
		Hard	Soft	Total		
	1,000 Gallons					
1940	1,235	--	--	201	60	--
1950	2,532	--	--	578	76	--
1960	3,849	563	771	1,334	350	181
1970	4,456	1,189	1,547	2,736	449	292
1980	8,198	804	2,078	2,882	593	127
1987	9,824	527	1,980	2,507	660	1,050
1988	9,791	1,678	2,204	3,882	588	2/
1989	7,969	1,373	2,319	3,692	525	2/
1990	7,728	1,124	2,290	3,414	559	2/
1991	7,130	2/	2/	2,469	456	2/
1992	9,243	2/	2/	2,451	598	2/
1993	9,370	2/	2/	2,445	479	2/

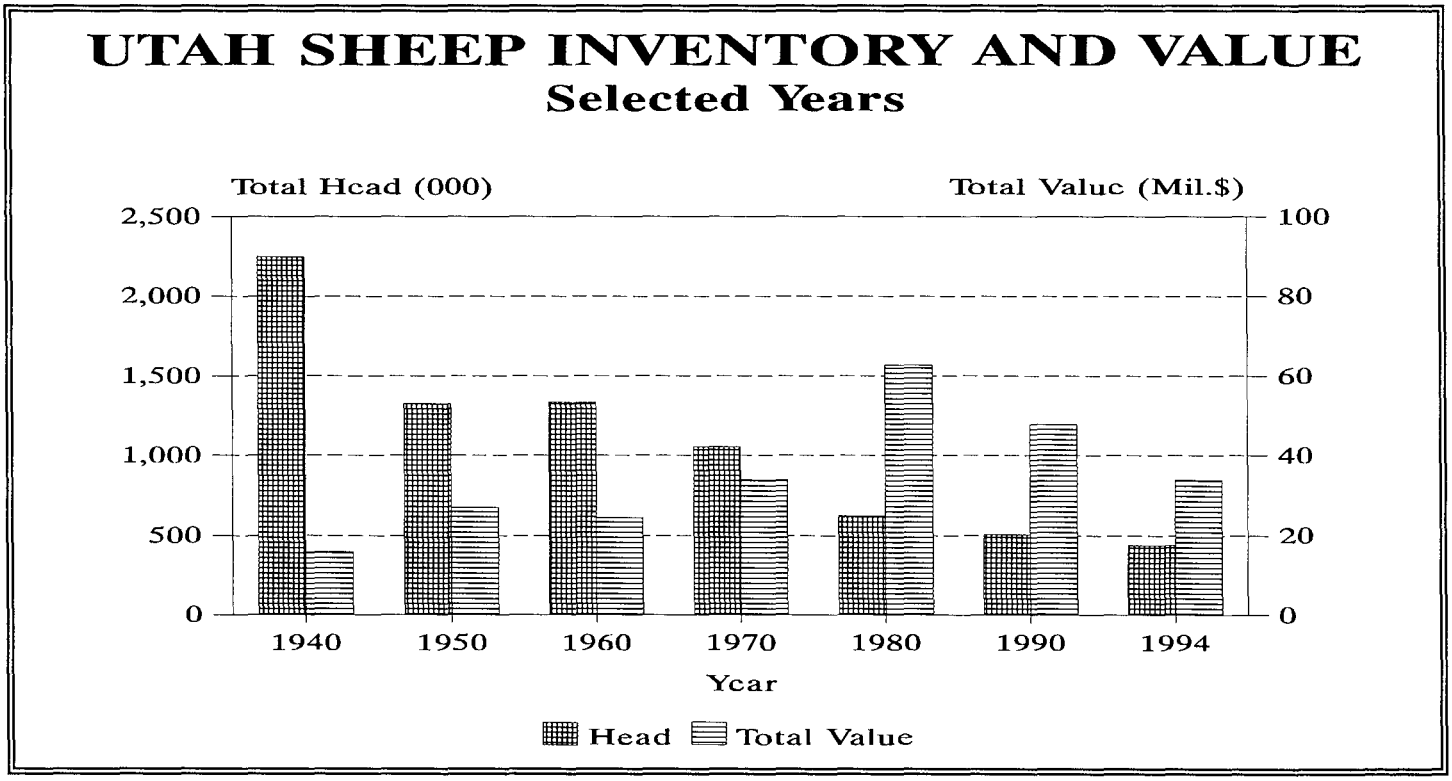
1/ Essentially all hard frozen. 2/ Not published to avoid disclosure of individual plants.

Sheep and Wool

Utah sheep and lamb inventory on January 1, 1994 totaled 440,000 head, a decrease of 50,000 head from the previous year. Inventory of stock sheep and lambs at the beginning of 1994 was 410,000 head, a 9 percent decrease from the 1993 level. Ewes one year old and older totaled 340,000 head, down 38,000 head from a year earlier. Rams and wethers over one year of age totaled 13,000 head, up 1,000 head from January 1, 1993. Ewe lambs 3 months old and older were at 49,000 head, down 4,000 head from 1993. Ram and wether lambs, at 8,000 head, were up 1,000 head from the previous year. Sheep and lambs on feed for slaughter, at 30,000 head, were down 25 percent from a year earlier. The 1993 lamb crop was estimated at 350,000 head, 50,000 below the previous year.

There were an estimated 2,100 sheep operations in 1993, two hundred fewer than in 1992. The January 1, 1994 sheep and lamb inventory had an average value per head of $77.00, down $4.00 from the 1993 level of $81.00. The total value of Utah's sheep inventory was $33.9 million, down 15 percent from the previous year. Cash receipts during 1993 totaled $17.2 million, 14 percent above the 1992 level. Marketings of sheep and lambs totaled 35.3 million pounds, up 8 percent from the previous year. The average sheep price during 1993 was $21.50 per hundredweight (cwt), $2.80 below the 1992 average. Lambs averaged $60.40 per cwt during 1993, $8.60 above the previous year.

Wool production totaled 3.9 million pounds during 1993, down 10 percent from the 1992 production level. Average fleece weight, at 9.7 pounds, was down 2 percent from the previous year.



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

Year	Farms With Sheep	Sheep on Farms January 1				
		Number	Value		Stock Sheep Number	Sheep & Lambs on Feed
			Per Head	Total		
	Number	1,000 Head	Dollars	1,000 Dollars	1,000 Head	
1940	--	2,248	--	15,895	2,095	153
1950	--	1,329	--	27,028	1,269	60
1960	--	1,336	--	24,461	1,249	87
1970	3,000	1,053	--	33,998	978	75
1980	2,400	625	100.50	62,813	595	30
1987	2,200	464	83.00	38,512	440	24
1988	2,100	478	95.50	45,649	460	18
1989	2,100	503	84.50	42,504	480	23
1990	2,100	509	94.00	47,846	485	24
1991	2,200	508	64.00	32,512	480	28
1992	2,300	488	65.00	31,720	460	28
1993	2,100	490	81.00	39,690	450	40
1994	1/	440	77.00	33,880	410	30

1/ Estimate published with January 1, 1995 sheep inventory.

Stock Sheep: Inventory by Classes, Utah, January 1, Selected Years

Year	All Stock Sheep	Lambs		Sheep One Year & Over	
		Ewes	Rams & Wethers	Ewes	Rams & Wethers
	1,000 Head				
1940	2,095	310	23	1,706	56
1950	1,269	165	5	1,066	33
1960	1,249	144	6	1,065	34
1970	978	125	7	821	25
1980	595	80	9	491	15
1987	440	50	4	375	11
1988	460	52	6	390	12
1989	480	57	6	405	12
1990	485	58	7	407	13
1991	480	58	7	403	12
1992	460	53	7	388	12
1993	450	53	7	378	12
1994	410	49	8	340	13

Lamb Crop: Utah, Selected Years

Year	Breeding Ewes One Year and Older January 1	Lamb Crop 1/	
		Number	As Percent of Ewes One Year and Older 2/
	1,000 Head		Percent
1940	1,706	1,365	80
1950	1,066	895	84
1960	1,065	927	87
1970	821	780	95
1980	491	476	97
1987	375	380	101
1988	390	380	97
1989	405	430	106
1990	407	430	106
1991	403	400	99
1992	388	400	103
1993	378	350	93

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

Wool: Production and Value, Utah, Selected Years

Year	All Sheep Shorn 1/	Weight per Fleece	Shorn Wool Production	Average Price per Pound 2/	Value 3/
	1,000 Head	Pounds	1,000 Pounds	Dollars	1,000 Dollars
1940	1,990	9.3	18,507	0.27	4,997
1950	1,180	9.4	11,092	0.58	6,433
1960	1,203	9.9	11,950	0.39	4,660
1970	985	9.8	9,637	0.32	3,084
1980	575	9.9	5,670	0.90	5,103
1987	440	9.8	4,320	0.93	4,018
1988	467	9.8	4,575	1.36	6,222
1989	452	10.2	4,598	1.30	5,977
1990	464	10.2	4,723	0.72	3,401
1991	456	10.4	4,741	0.51	2,418
1992	440	9.9	4,377	0.78	3,414
1993	405	9.7	3,930	0.57	2,240

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

Sheep & Lambs: Inventory Numbers, Lamb Crop & Disposition, Utah, Selected Years

Year	Inventory Beginning of Year	Lambs Saved	Inshipments	Marketings 1/		Farm Slaughter 2/	Deaths		Inventory End of Year
				Sheep	Lambs		Sheep	Lambs	
				1,000 Head					
1940	2,248	1,365	40	127	894	38	236	110	2,248
1950	1,329	895	92	39	668	22	125	70	1,392
1960	1,336	927	54	59	759	21	125	76	1,277
1970	1,053	780	100	74	646	25	94	85	1,009
1980	625	476	30	20	346	9	56	50	650
1987	464	380	19	24.5	292.5	3	24	41	478
1988	478	380	10	22	281	5	30	27	503
1989	503	430	11	40	331	4	25	35	509
1990	509	430	11	50	328	5	25	34	508
1991	508	400	11	62	305	5	26	33	488
1992	488	400	11	42	297	5	26	39	490
1993	490	350	8	69	277	5	25	32	440

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

Sheep & Lambs: Production, Marketings & Income, Utah, Selected Years

Year	Production 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			
1940	75,523	76,550	3.35	7.50	--	5,201	147	5,348
1950	56,611	56,624	10.60	24.90	--	13,535	278	13,813
1960	62,307	71,459	5.30	17.00	10,352	11,367	191	11,558
1970	60,909	73,550	7.10	25.40	15,009	16,992	608	17,600
1980	35,234	33,530	16.50	61.60	19,751	19,527	542	20,069
1987	33,173	32,832	21.40	71.60	21,443	21,663	271	21,934
1988	31,010	28,420	20.00	61.50	17,038	16,109	387	16,496
1989	35,674	35,728	19.20	60.50	19,200	19,137	261	19,398
1990	35,800	36,670	18.70	48.50	15,575	15,550	393	15,943
1991	33,165	36,330	20.40	43.20	12,970	13,574	389	13,963
1992	32,300	32,610	24.30	51.80	15,307	15,159	466	15,625
1993	28,744	35,270	21.50	60.40	15,226	17,219	326	17,545

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.

Hogs and Pigs

The Utah hog and pig inventory on December 1, 1993 was 40,000 head, 9 percent below the December 1, 1992 level. The total pig crop for the year was 59,000 head, 3 percent below the previous year. A total of 8,100 sows farrowed during 1993, down 2 percent from 1992. The number of farms with hogs or pigs totaled 1,000, the same level as last year.

The December 1 average value per head of Utah's hogs and pigs was $82.00, up $2.00 from the 1992 level. The total inventory value was $3.3 million, down 7 percent from a year earlier. Cash receipts during the December 1, 1992 - November 30, 1993 period totaled $5.7 million, up 27 percent from 1992. Marketings during 1993 were at 14.9 million pounds, 13 percent above the previous year. Hog prices averaged $38.00 per cwt, up $4.40 from the 1992 average price.

Hogs and Pigs: Farms and Inventory and Value, Utah, Selected Years

Year	Farms with Hogs	Hogs and Pigs on Farms December 1		
		Number	Value	
			Per Head	Total
	Number	1,000 Head	Dollars	1,000 Dollars
1940	--	105	6.80	714
1950	--	84	29.70	2,495
1960	--	68	24.00	1,632
1970	2,000	45	23.00	1,035
1980	2,200	58	63.00	3,654
1987	900	30	80.50	2,415
1988	900	33	69.50	2,294
1989	900	27	76.50	2,066
1990	900	33	93.00	3,069
1991	900	38	77.00	2,926
1992	1,000	44	80.00	3,520
1993	1,000	40	82.00	3,280

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

Year	Total	Breeding	Market	Market Hogs & Pigs by Weight Group			
				Under 60 Lbs	60-119 Lbs	120-179 Lbs	180 Lbs & Over
	1,000 Head						
1963 1/	50	8	42	19	8	7	8
1970	45	8	37	16	9	6	6
1980	58	7	51	15	16	14	6
1987	30	4	22	9	5	4	4
1988	33	5	28	12	6	5	5
1989	27	4	23	8	6	5	4
1990	33	5	28	10	7	5	6
1991	38	5	33	11	8	7	7
1992	44	6	38	14	9	9	6
1993	40	5	35	12	9	8	6

1/ First year on record.

Pig Crop: Sows Farrowing and Pigs Saved, Utah, Selected Years

Year	Spring Pig Crop 1/			Fall Pig Crop 2/			Total Pig Crop Spring & Fall	
	Sows Farrowing	Pigs per Litter	Pigs Saved	Sows Farrowing	Pigs per Litter	Pigs Saved	Sows Farrowing	Pigs Saved
	1,000 Head	Head	. . . 1,000 Head . .		Head	. . . . .	1,000 Head	. . . . .
	16.0	6.0	96.0	10.0	6.8	68.0	26.0	164.0
1950	10.0	6.4	64.0	7.0	6.9	48.0	17.0	112.0
1960	5.8	6.7	39.0	6.2	7.3	45.0	12.0	84.0
1970	4.8	7.1	34.0	4.6	7.2	33.0	9.4	67.0
1980	5.0	7.0	35.0	8.0	6.0	48.0	13.0	83.0
1987	2.3	7.4	17.0	2.1	7.9	17.0	4.4	34.0
1988	2.9	7.4	22.0	3.0	8.0	24.0	5.9	46.0
1989	2.8	7.3	20.4	2.3	7.8	17.9	5.1	38.3
1990	3.2	7.2	23.0	3.8	7.6	29.0	7.0	52.0
1991	3.8	7.1	26.0	4.0	7.7	31.0	7.8	57.0
1992	3.9	7.1	28.0	4.4	7.5	33.0	8.3	61.0
1993	3.8	7.1	27.0	4.3	7.4	32.0	8.1	59.0

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

Hogs and Pigs: Inventory, Supply, and Disposition, Utah, Selected Years 1/

Year	Inventory Beginning of Year	Annual Pig Crop	Inship-ments	Marketings 2/	Farm Slaughter 3/	Deaths	Inventory End of Year
				1,000 Head			
1940	125	164	3	139	32	16	105
1950	88	112	1	83	19	15	84
1960	68	84	1	64	11	10	68
1970	43	67	2	58	3	6	45
1980	55	83	2	73	2	7	58
1987	25	34	3	26.6	0.2	5.2	30
1988	30	46	3	42.5	0.8	2.7	33
1989	33	38.3	2	42.3	1.4	2.6	27
1990	27	52	4	45	1	4	33
1991	33	57	3	49	1	5	38
1992	38	61	6	56	1	4	44
1993	44	59	5	63	1	4	40

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

Hogs and Pigs: Production and Income, Utah, Selected Years

Year	Production 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			
1940	31,760	27,800	5.70	--	1,734	268	2,002
1950	23,272	18,687	18.60	--	3,779	544	4,323
1960	16,611	13,676	15.70	2,608	2,210	331	2,541
1970	13,852	12,488	22.40	3,103	2,797	269	3,066
1980	18,483	16,125	36.70	6,762	5,918	488	6,406
1987	7,149	6,428	47.70	3,369	3,066	50	3,116
1988	10,789	10,046	37.70	4,056	3,787	157	3,944
1989	9,746	9,984	38.80	3,773	3,874	196	4,070
1990	11,706	10,601	48.20	5,619	5,110	212	5,322
1991	12,494	11,520	42.80	5,332	4,931	205	5,136
1992	13,949	13,200	33.60	4,663	4,435	161	4,596
1993	14,590	14,880	38.00	5,508	5,654	182	5,836

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.

Chickens and Eggs

The value of eggs produced in Utah during 1993 totaled $23.7 million, 9 percent above the 1992 level. Total production, at 498 million eggs, was up 1 percent from 1992. The average price of eggs was 57 cents per dozen, 4 cents above 1992. The average number of layers during the year was 1.88 million, 4 percent below the 1992 level. Eggs produced per layer was 248 compared with 251 for 1992.

Pounds of chicken sold (primarily cull laying hens) at 4.8 million increased slightly from 1992. The average price per pound of chickens sold was 3.0 cents, one cent more than 1992. The value of chickens sold in 1993 was $145,000, up 51 percent from 1992.

Layers and Eggs: Number, Production and Value of Production, Utah, Selected Years 1/

Year	Average Number of Layers	Eggs per Layer	Total Egg Production	Price per Dozen	Value of Production
	1,000	Number	Millions	Cents	1,000 Dollars
1940	1,739	155	269	18.7	4,176
1950	2,310	184	425	39.5	13,989
1960	1,377	223	307	34.9	8,928
1970	1,256	216	271	36.0	8,130
1980	1,762	236	416	49.0	16,987
1987	1,906	259	493	45.0	18,487
1988	1,933	253	490	52.0	21,233
1989	1,849	248	460	65.0	24,917
1990	1,817	250	456	64.0	24,320
1991	1,876	259	486	59.0	23,895
1992	1,964	251	493	53.0	21,774
1993	2,001	248	498	57.0	23,655

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

Chicken Inventory: Number and Value, Utah, Selected Years 1/

Date	Hens and Pullets of Laying Age	Pullets 3 Months and Over Not Laying	Pullets Under 3 Months	Other Chickens	Total Chickens		
					Number	Value	
						Average	Total
	1,000 Head					Dollars	1,000 Dollars
Jan. 1, 1940	2/ 2,191	3/	4/	175	2,366	0.63	1,491
Jan. 1, 1950	2/ 2,871	3/	4/	150	3,021	1.22	3,686
Jan. 1, 1960	2/ 1,691	3/	4/	69	1,760	0.94	1,654
Jan. 1, 1970	1,320	190	219	10	1,739	1.20	2,087
Dec. 1, 1970	1,182	218	327	10	1,737	1.10	1,911
Dec. 1, 1980	1,871	91	134	4	2,100	1.65	3,465
Dec. 1, 1987	1,921	232	260	3	2,416	1.80	4,349
Dec. 1, 1988	1,868	202	186	4	2,260	1.65	3,729
Dec. 1, 1989	1,779	158	193	3	2,133	1.60	3,413
Dec. 1, 1990	1,858	273	208	1	2,340	1.90	4,446
Dec. 1, 1991	1,954	155	183	1	2,293	1.60	3,669
Dec. 1, 1992	1,958	147	220	1	2,326	1.70	3,954
Dec. 1, 1993	1,880	187	267	1	2,335	1.40	3,269

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

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

Year	Number Lost 2/	Number Sold	Pounds Sold	Price per Pound	Value of Sales
	1,000 Head		1,000 Pounds	Cents	1,000 Dollars
1940	426	2,044	6,132	11.0	675
1950	634	3,562	13,892	20.7	2,876
1960	334	1,018	4,174	8.2	342
1970	200	638	2,552	4.0	102
1980	260	804	3,055	8.0	244
1987	212	955	3,820	6.0	229
1988	202	1,070	4,280	6.7	287
1989	170	930	3,720	7.0	260
1990	160	1,190	4,760	2.1	100
1991	195	1,095	4,380	2.0	88
1992	153	1,200	4,800	2.0	96
1993	168	1,210	4,840	3.0	145

1/ Estimates exclude broilers and cover the 12 month period December 1 previous year through November 30. Prior to 1970, the estimating period was January 1 through December 31. 2/ Includes death and other losses during the 12 month period.

Turkeys

Utah turkeys raised in 1993, at 3.85 million birds, was 3 percent above the previous year. The average price received per pound for turkeys was 52 cents, up 3 cents from the previous year. Total value produced was $46.0 million, 11 percent above the 1992 total value. Turkey production of 88.6 million pounds was 5 percent above a year earlier. The average live weight per bird was 23.0 pounds, compared with 22.5 pounds during 1992. Utah turkey farms are located primarily in Sanpete County.

Turkeys: Production and Gross Income, Utah, Selected Years

Year	Number Raised 1/	Average Weight	Pounds Produced 2/	Price Per Pound 3/	Value of Production 3/
	1,000 Head	Pounds	1,000 Pounds	Cents	1,000 Dollars
1940	854	16.0	13,656	17.4	2,376
1950	1,673	21.5	35,914	27.8	9,984
1960	2,801	20.2	56,515	24.3	13,733
1970	3,946	21.6	85,234	22.1	18,837
1980	2,409	22.2	53,480	50.0	26,740
1987	3,731	24.2	90,290	42.0	37,922
1988	3,900	23.1	90,090	54.0	48,649
1989	3,590	23.6	84,724	52.0	44,056
1990	3,930	22.9	89,997	52.0	46,798
1991	4,050	22.3	90,315	50.0	45,158
1992	3,750	22.5	84,375	49.0	41,344
1993	3,850	23.0	88,550	52.0	46,046

1/ Based on turkeys placed August 1 through July 31. Excludes young turkeys lost. 2/ Includes home consumption. 3/ Live weight equivalent price.

Bees and Honey

Honey production in Utah totaled 2.2 million pounds in 1993, down 15 percent from the 1992 level. The number of colonies at 42,000 was down 11 percent from the previous year. The price received per pound of honey averaged 55 cents, down 3 cents from 1992 and the same as 1990. The total value of the honey produced in 1993 was $1,224,000, a decrease of 20 percent from 1992.

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

Honey: Colonies of Bees, Production, & Value, Utah, Selected Years

Year	Colonies of Bees	Honey			
		Production		Value	
		Per Colony	Total	Per Pound	Total
	1,000	Pounds	1,000 Pounds	Cents	1,000 Dollars
1940	53	45	2,385	3.6	86
1950	49	51	2,499	11.0	275
1960	52	34	1,768	15.6	276
1970	50	36	1,800	18.1	326
1980	46	33	1,518	58.1	882
1987	35	48	1,688	54	912
1988	36	41	1,476	61	900
1989	47	44	2,068	54	1,117
1990	47	37	1,739	56	974
1991	45	34	1,530	55	842
1992	47	56	2,632	58	1,527
1993	42	53	2,226	55	1,224

Mink

Mink production in Utah during 1992 totaled 651,000 pelts, 3 percent below 1991. The number of females bred to produce kits in 1993 was 170,000, down 3 percent from the previous year. Utah ranked second in the nation in mink pelt production in 1992.

Standard was the most common type of pelt produced accounting for 55 percent of all pelts taken. Mahogany and Demi-Buff accounted for 18 and 16 percent respectively.

In 1992 there were 150 mink farms in Utah, 10 less than 1991. Leading mink producing counties were Utah and Morgan producing over 50 percent of all pelts taken. Other leading counties were Summit, Cache, and Salt Lake.

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

Year	Utah			United States				
	Ranches Producing Pelts	Pelts Produced	Females Bred	Ranches Producing Pelts	Pelts Produced	Females Bred	Average Pelt Price	Value of Pelts
	Number	..... 1,000		Number	..... 1,000		Dollars	Million Dollars
1971	261	340.0	108.0	1,615	3,380	1,011	N/A	N/A
1972	225	285.0	94.5	1,380	2,965	858	N/A	N/A
1973	218	283.0	100.0	1,329	3,037	902	N/A	N/A
1974	198	315.0	103.0	1,221	3,128	905	N/A	N/A
1975	186	308.0	99.0	1,084	3,067	870	24.10	73.9
1976	168	323.0	97.7	1,015	3,026	847	29.00	87.8
1977	185	359.0	113.0	1,040	3,076	887	28.30	87.1
1978	191	411.0	129.0	1,095	3,358	925	39.30	132.0
1979	190	413.3	141.0	1,105	3,394	978	41.10	139.5
1980	190	465.7	149.0	1,122	3,501	1,037	35.30	123.6
1981	N/A	N/A	152.1	N/A	N/A	1,074	32.20	N/A
1982	175	545.4	N/A	1,116	4,085	N/A	28.90	118.1
1983	145	505.5	166.8	1,098	4,137	1,132	29.90	123.7
1984	159	487.5	156.0	1,084	4,220	1,115	30.80	130.0
1985	132	501.7	148.3	1,042	4,171	1,115	28.00	116.8
1986	121	479.4	144.3	989	4,096	1,073	41.30	170.0
1987	165	690.0	137.6	1,027	4,122	1,077	43.00	177.2
1988	175	770.0	208.0	1,027	4,453	1,198	32.30	143.8
1989	175	780.0	225.0	940	4,604	1,202	20.40	93.9
1990	165	680.0	189.0	771	3,366	922	25.50	85.8
1991	160	670.0	180.0	683	3,268	874	21.90	71.6
1992	150	651.0	175.0	571	2,894	782	24.80	71.8
1993	1/	1/	170.0	1/	1/	706	1/	1/

N/A = Not Available
1/ Data available July 21, 1994.

Farm Labor

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

The number of farm workers in the Mountain II region during the July 1993 through April 1994 quarterly survey periods peaked in July 1993 at 63,000 workers, 4,000 fewer than in July 1992. The number of self-employed, unpaid, and hired workers also peaked in July at 27,000 workers, 12,000 workers and 24,000 workers respectively.

Wage rates were generally higher during the April survey period when the average rate for all hired workers was $6.35 per hour. Workers paid on an hourly basis earned their highest wages in October when the average rate was $5.88 per hour. Field workers received the highest wage rates of any non-supervisor workers during the April survey periods, where field workers peaked at $5.79 during the October survey period and livestock workers peaked at $5.57 during the April survey period.

Farm Labor & Wage Rates: Mountain II Region, July 1993, October 1993, January 1994, and April 1994 1/ 2/

	July 11-17, 1993	October 10-16, 1993	January 9-15, 1994	April 10-17, 1994
		Workers on Farms (000)		
Total	63	53	45	48
Self Employed	27	23	23	25
Unpaid	12	7	4	7
Hired	24	23	18	16
		Hours Worked per Worker		
Self Employed	49.7	46.4	32.4	41.1
Unpaid Workers	33.4	33.3	27.2	29.1
Hired Workers	46.1	38.3	41.1	42.3
		Method of Pay - Dollars per Hour		
Hourly	5.72	5.88	5.62	5.57
Piece Rate	3/	3/	3/	3/
Other	6.04	6.74	7.00	7.07
All	5.86	6.31	6.19	6.35
		Type of Work - Dollars per Hour		
Field Workers	5.60	5.79	5.62	5.72
Livestock Workers	5.18	5.45	5.51	5.57
Field & Livestock Workers	5.39	5.63	5.55	5.65
Supervisory	7.93	9.05	9.19	3/
Other	3/	3/	3/	7.24

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

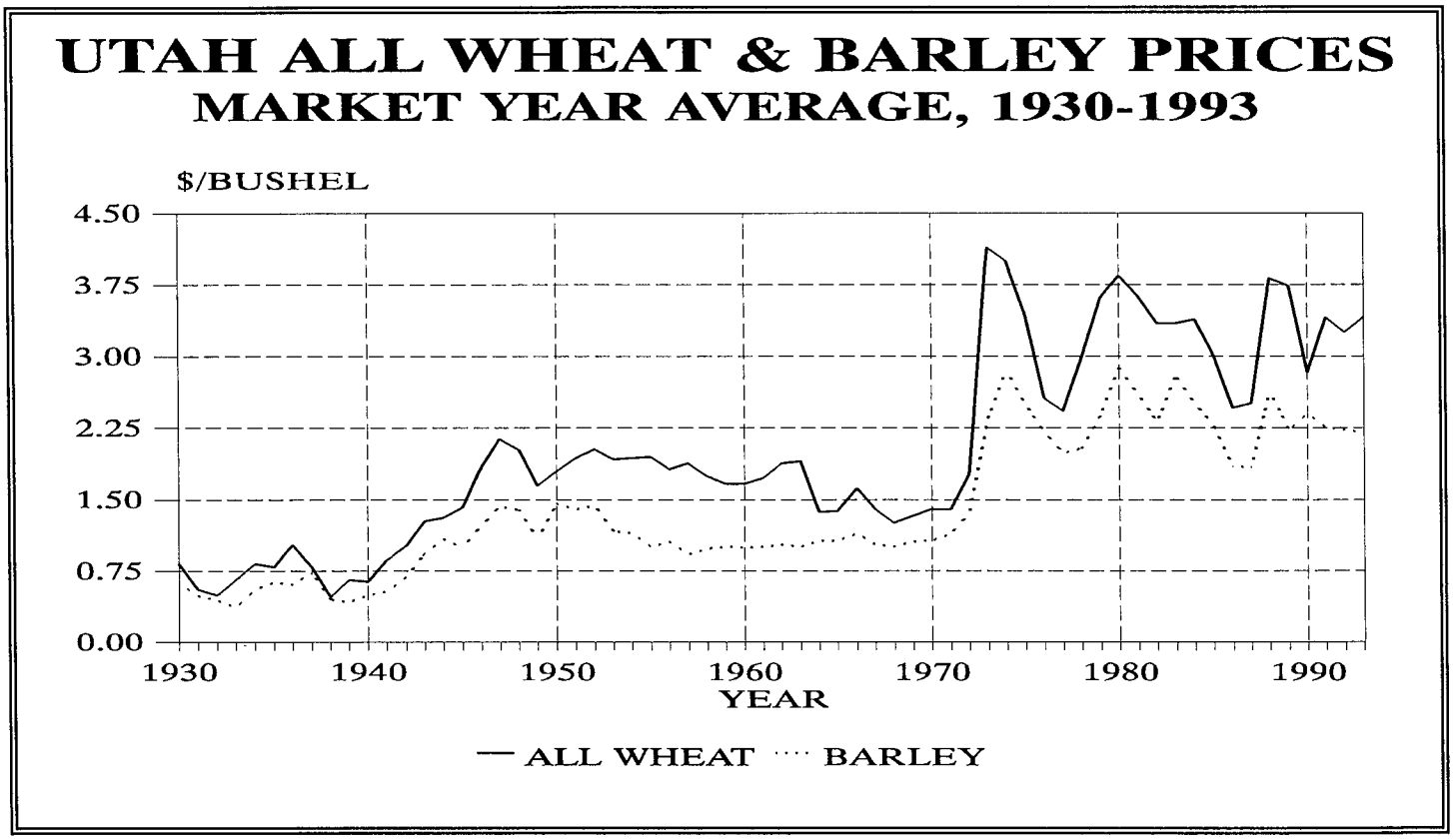
Agricultural Prices

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

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

The 1993 market year average price for calves was $98.00, up from last years price. Steer and heifer prices for 1993 increased from the 1992 prices and ended the year with an average price of $80.20 per cwt. Sheep market year average prices for 1993 were lower than the 1992 levels while lamb 1993 market year average price was higher than 1992. Milk prices were mostly below the previous years prices. The market year average alfalfa hay price for 1993 was higher than the 1992 price.

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



Average Prices Received: by Farmers, Utah, Selected Years

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mktg Year Avg 1/
						BARLEY (Dollars per Bushel) 2/							
1950	1.09	1.07	1.13	1.08	1.08	1.11	1.18	1.12	1.14	1.11	1.11	1.18	1.16
1960	1.02	1.00	1.00	1.00	1.00	1.02	0.98	0.98	0.98	1.00	1.00	1.01	1.00
1970	1.10	1.10	1.09	1.04	1.03	1.05	1.01	0.98	0.99	1.04	1.07	1.12	1.07
1980	2.49	2.51	2.64	2.58	2.50	2.46	2.53	2.56	2.67	2.89	2.93	2.92	2.88
1987	1.91	1.88	1.82	1.83	1.93	1.78	1.75	1.74	1.79	1.83	1.88	1.93	1.84
1988	1.93	2.05	1.92	1.90	2.05	1.98	2.46	2.58	2.68	2.72	2.89	2.65	2.64
1989	2.70	2.72	2.76	2.59	2.55	2.57	2.20	2.12	2.11	2.18	2.29	2.36	2.23
1990	2.30	2.35	2.38	2.40	2.46	2.45	2.28	2.29	2.33	2.49	2.47	2.35	2.40
1991	2.46	2.54	2.47	2.46	2.50	2.50	2.14	2.11	2.16	2.19	2.33	2.35	2.25
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	2.20
						ALFALFA & ALFALFA HAY MIXTURES, BALED (Dollars per Ton) 3/							
1950	21.60	20.00	18.30	18.30	18.80	20.00	22.00	22.50	22.50	22.90	22.90	24.00	NA
1960	27.00	27.50	26.50	26.50	26.70	26.70	26.40	26.40	27.00	27.00	28.00	28.50	NA
1970	25.50	26.00	26.00	25.50	25.50	25.50	24.00	24.00	24.50	24.50	25.50	25.50	NA
1980	65.00	73.00	71.00	69.00	60.50	71.50	73.50	69.50	70.00	75.00	74.00	76.00	NA
1987	66.00	67.00	66.00	63.00	59.00	69.00	71.00	66.00	72.00	69.00	70.00	70.00	NA
1988	74.00	74.00	75.00	74.00	74.00	75.00	75.00	76.00	77.00	79.00	77.00	77.00	NA
1989	84.00	86.00	87.00	85.00	83.00	79.00	87.00	86.00	85.00	85.00	85.00	85.00	85.00
1990	85.00	85.00	86.00	86.00	85.00	86.00	86.00	85.00	80.00	85.00	86.00	84.00	83.00
1991	84.00	74.00	69.00	69.00	66.00	64.00	61.00	59.00	59.00	55.00	52.00	53.00	57.00
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	68.00	72.00	68.00	61.00	60.00	61.00	69.00	71.00	65.00
						ALL HAY, BALED (Dollars per Ton) 3/							
1950	21.10	19.20	17.50	17.50	18.30	19.00	21.00	21.50	21.50	22.50	22.50	23.50	22.20
1960	26.20	26.80	25.70	25.70	25.70	26.00	25.50	25.60	26.40	26.50	27.40	27.80	26.40
1970	25.00	25.50	25.50	25.00	25.00	25.00	23.50	23.40	23.80	23.90	24.90	24.90	25.00
1980	63.50	62.00	63.00	65.00	60.00	69.50	71.50	67.50	67.00	73.00	72.00	72.00	70.00
1987	63.00	64.00	63.00	60.00	56.00	65.00	66.00	63.00	68.00	64.00	66.00	67.00	67.00
1988	71.00	70.00	71.00	71.00	71.00	72.00	72.00	73.00	75.00	77.00	75.00	75.00	76.00
1989	81.00	83.00	85.00	83.00	82.00	76.00	84.00	83.00	83.00	83.00	83.00	83.00	82.50
1990	83.00	83.00	83.00	83.00	84.00	84.00	84.00	83.00	79.00	83.00	83.00	82.00	81.50
1991	82.00	72.00	67.00	67.00	65.00	63.00	60.00	58.00	58.00	54.00	51.00	52.00	56.00
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	66.00	70.00	66.00	59.00	59.00	60.00	67.00	69.00	63.50

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

Average Prices Received: by Farmers, Utah, Selected Years

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mktg Year Avg
						COWS (Dollars per Cwt) 1/							
1960	14.00	14.70	16.00	15.70	16.00	14.60	13.10	13.30	13.50	13.10	12.90	13.70	14.10
1970	20.00	21.50	22.50	21.80	21.30	20.90	20.70	20.10	19.90	18.40	17.70	18.10	20.20
1980	44.10	46.10	44.90	43.60	40.00	41.60	42.10	43.80	44.80	45.30	42.20	40.90	43.30
1987	38.20	41.30	42.80	42.50	43.30	42.90	42.70	43.70	44.10	43.20	41.00	43.70	42.40
1988	45.20	47.30	47.50	48.00	48.00	44.60	45.30	45.80	44.80	42.40	40.60	40.70	44.70
1989	43.50	46.20	45.90	45.10	45.20	45.70	46.20	47.10	48.20	44.20	43.40	44.50	45.30
1990	46.20	51.30	52.70	52.90	53.70	55.00	54.20	53.50	51.40	49.00	45.00	47.30	50.90
1991	45.80	50.30	52.60	52.70	52.80	52.70	50.20	49.20	48.00	45.80	42.70	46.90	48.80
1992	46.60	47.90	48.10	47.90	47.50	45.60	46.60	46.70	45.60	44.50	43.90	45.00	46.10
1993 2/													49.00
						STEERS & HEIFERS (Dollars per Cwt) 1/							
1960	20.50	21.10	22.30	22.40	22.70	21.30	20.60	19.70	19.70	18.80	18.80	20.30	20.60
1970	27.50	28.70	31.50	28.80	29.00	29.00	28.50	26.80	26.90	26.70	26.90	25.80	27.90
1980	70.10	70.60	68.10	62.60	61.70	63.00	65.20	65.30	64.70	64.90	63.70	62.70	65.20
1987	57.70	60.90	62.00	64.90	66.80	66.50	63.50	64.10	64.30	63.80	64.00	63.80	63.50
1988	64.20	66.90	68.70	70.70	70.70	67.30	64.70	67.00	67.60	70.60	68.20	69.40	68.40
1989	74.10	74.00	74.40	72.90	71.50	70.00	72.50	71.90	69.20	71.40	72.70	74.90	72.30
1990	76.40	76.50	77.00	78.60	77.20	76.50	74.50	74.80	74.00	76.90	78.10	79.20	76.80
1991	78.00	77.90	79.30	78.80	76.20	73.20	70.40	65.50	66.60	68.70	69.80	70.50	72.60
1992	70.40	74.00	74.00	75.20	73.90	71.50	71.00	71.80	72.50	73.10	72.90	73.90	72.90
1993 2/													80.20
						BEEF CATTLE (Dollars per Cwt) 1/							
1960	18.10	18.90	20.40	20.30	20.50	18.70	17.50	17.20	17.50	17.20	16.90	18.00	18.40
1970	25.20	26.30	28.70	26.70	26.70	26.70	25.90	24.60	24.70	24.40	24.60	23.70	25.60
1980	64.10	65.00	63.20	58.60	57.10	59.40	60.10	60.80	60.50	60.80	57.50	55.90	60.30
1987	55.80	59.50	60.90	63.30	64.20	64.70	62.30	62.80	62.40	62.10	61.50	61.80	61.80
1988	62.70	65.10	66.50	69.30	69.40	65.30	63.50	65.50	66.40	68.60	64.70	66.30	66.50
1989	66.70	67.70	67.60	67.20	65.60	65.00	66.30	67.50	66.70	65.40	66.70	70.90	67.00
1990	71.40	73.40	74.80	76.10	73.10	71.40	72.40	72.30	71.10	75.00	74.00	76.40	73.80
1991	76.00	76.70	78.00	76.80	74.80	71.90	69.70	64.80	66.00	67.60	67.60	69.10	71.30
1992	69.10	73.10	72.90	74.10	72.70	70.20	70.10	70.70	71.50	71.60	70.80	72.80	71.60
1993 2/													78.10

1/ Mid-month average price through 1979. Prices after 1979 are revised full month prices.
2/ Monthly prices discontinued after 1992.

Average Prices Received: by Farmers, Utah, Selected Years

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mktg Year Avg
						CALVES (Dollars per Cwt) 1/							
1960	24.00	25.00	25.20	25.80	26.00	23.50	22.00	20.50	21.30	22.50	22.30	23.50	23.40
1970	35.00	37.20	38.00	34.50	34.40	34.90	33.00	31.00	31.70	33.00	32.60	33.30	34.20
1980	82.00	85.50	83.30	72.60	72.20	77.20	77.70	75.10	72.70	75.70	71.50	73.20	75.50
1987	66.50	70.50	72.60	74.60	74.40	72.50	77.20	80.00	85.70	84.80	81.80	84.00	79.40
1988	85.80	89.00	92.50	89.90	92.10	84.60	79.10	86.00	93.40	95.80	86.50	86.20	91.50
1989	90.20	93.50	96.60	87.40	83.40	84.50	90.10	96.50	91.80	85.80	87.70	90.20	89.40
1990	90.10	95.00	93.20	96.30	93.80	98.50	97.90	99.50	97.70	91.70	91.20	92.10	93.90
1991	95.60	98.60	102.00	104.00	102.00	105.00	96.40	96.80	94.00	92.80	91.80	88.80	95.80
1992	91.60	90.50	94.90	89.90	88.10	87.60	91.90	89.90	90.40	90.70	89.10	89.60	90.40
1993 2/	--	--	--	--	--	--	--	--	--	--	--	--	98.00
						MILK COWS (Dollars per Head) 3/							
1960 4/	220	220	220	225	225	235	225	225	215	205	205	215	220
1970 4/	320	320	330	330	330	330	325	315	310	320	340	320	324
1980 4/	1,160	1,190	1,220	1,220	1,200	1,200	1,190	1,210	1,210	1,220	1,220	1,220	1,210
1987	810	--	--	900	--	--	900	--	--	980	--	--	900
1988	980	--	--	1,050	--	--	1,030	--	--	1,000	--	--	1,020
1989	970	--	--	1,040	--	--	1,060	--	--	1,060	--	--	1,030
1990	1,070	--	--	1,140	--	--	1,190	--	--	1,250	--	--	1,160
1991	1,040	--	--	1,090	--	--	1,100	--	--	1,070	--	--	1,080
1992	1,070			1,190			1,200			1,140			1,150
1993	1,100	--	--	1,130	--	--	1,180	--	--	1,180	--	--	1,150

1/ Mid-month average price through 1979. Prices after 1979 are revised full month prices.
2/ Monthly prices discontinued after 1992.
3/ Published only by quarters starting 1982.
4/ Mid-month average price.

Average Prices Received: by Farmers, Utah, Selected Years

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

1/ Average for the month.
2/ Includes surplus diverted to manufacturing.

Average Prices Received, by Farmers, Utah, Selected Years

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Mktg Year Avg
						SHEEP (Dollars per Cwt) 1/							
1950	8.60	8.60	9.30	9.50	9.00	8.50	9.00	9.00	11.00	11.50	12.00	12.50	10.60
1960	6.50	7.00	7.00	7.00	6.50	6.50	5.50	5.00	4.50	4.80	4.50	5.00	5.30
1970	7.60	7.60	7.70	8.20	7.50	8.30	8.50	8.00	7.50	6.50	6.00	6.00	7.10
1980	17.80	16.40	21.90	16.90	14.60	15.50	16.60	16.30	15.90	14.90	15.10	14.40	16.50
1987	23.30	22.40	24.50	20.40	17.50	18.80	17.90	21.70	24.10	21.20	20.80	22.80	21.40
1988	28.00	24.70	24.80	19.00	17.40	18.50	20.70	19.70	17.00	19.20	19.80	25.30	20.00
1989	30.20	35.00	27.40	17.80	13.50	15.40	16.30	19.90	15.90	15.70	20.30	27.80	19.20
1990	27.10	22.00	19.40	16.50	13.50	15.40	22.40	22.40	18.30	17.50	16.30	19.90	18.70
1991	21.70	19.30	21.40	22.80	16.90	17.30	22.60	20.50	22.80	19.30	21.60	23.10	20.40
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
						LAMBS (Dollars per Cwt) 1/							
1950	21.30	22.00	22.40	23.00	23.30	24.00	24.00	24.00	25.50	25.50	26.70	27.00	24.90
1960	17.80	18.30	20.00	20.00	20.00	19.50	17.80	16.70	16.10	15.20	15.20	16.20	17.00
1970	28.00	27.50	27.00	26.00	25.50	26.00	26.00	26.20	25.80	25.00	23.30	21.50	25.40
1980	63.20	59.10	60.70	55.00	51.60	63.10	64.10	63.00	66.20	66.60	56.80	53.80	61.60
1987	72.30	70.30	75.10	71.20	75.70	76.80	74.80	72.30	72.10	69.50	68.80	69.10	71.60
1988	81.00	77.80	64.30	61.90	67.00	58.10	55.40	54.30	58.50	61.80	62.30	63.30	61.50
1989	62.00	60.20	64.70	59.60	64.30	65.50	63.00	62.80	62.70	57.40	53.30	55.00	60.50
1990	53.00	52.70	55.90	51.30	46.60	47.30	48.80	46.00	49.40	47.40	41.20	44.20	48.50
1991	41.20	39.80	40.90	42.30	45.10	45.50	48.00	45.60	42.40	42.70	40.30	43.80	43.20
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
						WOOL (Dollars per Pound) 2/							
1950	0.51	0.51	0.54	0.54	0.54	0.57	0.59	0.61	0.63	0.66	0.72	0.80	0.58
1960	0.44	0.47	0.42	0.44	0.44	0.44	0.39	0.40	0.36	0.35	0.37	0.37	0.39
1970	0.40	0.35	0.36	0.36	0.34	0.37	0.36	0.33	0.35	0.32	0.29	0.26	0.32
1980	3/	0.84	0.98	0.90	0.80	0.83	0.87	0.98	0.98	0.93	0.94	0.96	0.90
1987	0.41	0.66	0.78	0.93	0.98	0.95	0.94	0.91	0.88	0.71	0.61	0.94	0.93
1988	0.99	1.20	1.40	1.40	1.38	1.34	1.37	1.42	1.31	3/	0.99	1.12	1.36
1989	0.87	1.21	1.24	1.31	1.34	1.30	1.32	1.30	1.30	1.56	0.69	0.67	1.30
1990	0.64	0.45	0.64	0.76	0.77	0.69	0.81	0.79	0.64	0.63	0.66	0.51	0.72
1991	0.39	0.35	0.44	0.47	0.53	0.56	0.50	0.55	0.49	0.57	0.48	0.49	0.51
1992	3/	0.61	0.70	0.80	0.79	0.82	0.78	0.81	0.82	0.83	0.82	0.58	0.78
1993	3/	3/	0.50	0.50	0.55	0.49	0.52	0.50	0.64	0.47	0.52	0.63	0.57

1/ Mid-month average price through 1979. Prices after 1979 are revised full month prices.
2/ Average local market price for wool sold; does not include incentive payment.
3/ Insufficient sales.

County Estimates

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

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

Box Elder County was the State's largest producer of winter wheat producing 45 percent of the State total. Cache county ranked second followed by San Juan, Utah, and Millard counties.

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

Barley production was led by Box Elder county followed closely by Cache, Millard, Utah, and Sevier counties. The top five counties' production was 70 percent of the State total.

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

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

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

Box Elder County had the largest inventory of cattle and calves as of January 1, 1994 followed by Cache, Millard, Duchesne, and Utah. Cache county continued as the major county for milk cows with over twice the number as Box Elder which ranked in second place. Utah, Weber, and Sanpete were also major dairy counties.

Sanpete was once again the "Number one" sheep county. Other major sheep producing counties were Utah, Iron, Box Elder, and Summit. The top five counties accounted for 56 percent of the totals.

Preliminary indications of 1992 total cash receipts show Cache County as the "Number one" county. Utah is second, followed by Box Elder, and Sanpete. Cache was the leading county for livestock cash receipts followed by Sanpete. Crops cash receipts were topped by Box Elder county and followed closely by Davis county.

County Estimates: by County, Selected Items & Years, Utah

Item	Unit	State	County					
			Beaver	Box Elder	Cache	Carbon	Daggett	Davis
1993 Production								
All Wheat	Bu	7,270,000	1/	2,955,200	957,500	1/	1/	263,700
All Barley	Bu	9,350,000	85,400	1,784,600	1,780,400	1/	1/	224,000
Corn for Grain	Bu	2,860,000	10,200	928,400	50,500	2/	2/	382,500
Corn for Silage	Tons	880,000	21,400	138,900	125,500	2/	2/	33,800
Oats	Bu	1,014,000	26,600	89,100	68,500	15,100	1/	1/
All Hay	Tons	2,530,000	130,400	203,400	220,600	20,800	14,600	35,600
Alfalfa & Alfalfa Mix Hay	Tons	2,200,000	112,300	185,000	203,500	19,300	6,900	30,200
Jan. 1, 1994 Inventory								
All Cattle & Calves	Head	850,000	37,000	79,000	71,000	10,000	3,000	18,000
Beef Cows	Head	340,000	13,700	26,300	8,700	7,600	2,500	6,300
Milk Cows	Head	80,000	2,700	8,800	21,700	3/	3/	1,200
Stock Sheep & Lambs	Head	410,000	3/	36,800	5,000	6,300	700	14,000
Cash Receipts, 1992								
Livestock & Livestock Products	Mill $	556.3	17.8	45.9	79.9	3.5	1.0	11.5
Crops	Mill $	182.0	3.2	28.8	12.9	0.4	0.3	28.7
Total	Mill $	738.3	21.0	74.7	92.8	3.9	1.3	40.2
1992 Census of Agriculture								
Number of Farms	Num	13,520	215	1,085	1,189	182	29	582
Land in Farms	Acres	9,624,463	192,288	1,449,976	267,924	291,860	21,958	50,357
Harvested Cropland 4/	Acres	1,043,347	27,149	171,708	120,044	5,592	3,544	18,573
Irrigated Land 5/	Acres	1,142,514	33,519	120,583	87,475	7,895	6,891	20,965

Item	Unit	County						
		Duchesne	Emery	Garfield	Grand	Iron	Juab	Kane
1993 Production								
All Wheat	Bu	51,400	35,200	1/	1/	51,000	162,800	1/
All Barley	Bu	260,200	21,500	1/	1/	235,000	186,700	1/
Corn for Grain	Bu	120,400	38,700	2/	2/	10,300	7,500	2/
Corn for Silage	Tons	17,100	12,300	2/	2/	12,300	9,250	2/
Oats	Bu	84,200	36,200	53,100	1/	27,000	1/	14,700
All Hay	Tons	153,300	55,000	39,800	10,600	175,100	51,600	12,900
Alfalfa & Alfalfa Mix Hay	Tons	119,700	50,400	33,100	9,100	164,200	48,000	10,800
Jan. 1, 1994 Inventory								
All Cattle & Calves	Head	58,000	26,000	18,000	4,000	22,000	12,000	12,000
Beef Cows	Head	32,000	12,400	10,000	2,000	10,700	6,000	5,500
Milk Cows	Head	2,700	600	3/	3/	800	500	3/
Stock Sheep & Lambs	Head	11,600	6,600	2,100	600	42,100	4,200	1,900
Cash Receipts, 1992								
Livestock & Livestock Products	Mill $	25.3	10.8	7.0	1.4	10.4	5.1	3.7
Crops	Mill $	3.5	1.5	1.0	0.7	8.1	2.3	0.4
Total	Mill $	28.8	12.3	8.0	2.1	18.5	7.4	4.1
1992 Census of Agriculture								
Number of Farms	Num	733	420	249	88	365	203	136
Land in Farms	Acres	399,011	240,535	137,530	63,116	434,183	332,686	209,819
Harvested Cropland 4/	Acres	57,788	18,787	16,819	2,355	48,916	25,270	3,337
Irrigated Land 5/	Acres	117,280	31,669	29,231	3,096	51,857	20,097	4,999

1/ Less than 500 acres planted. 2/ Less than 500 acres of corn planted for all purposes. 3/ Less than 500 head. 4/ Includes land from which crops were harvested or hay was cut, and land in orchards. 5/ 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 & Years, Utah

Item	Unit	County							
		Millard	Morgan	Piute	Rich	Salt Lake	San Juan	Sanpete	Sevier
1993 Production									
All Wheat	Bu	438,600	55,300	1/	61,500	306,400	627,500	108,700	48,500
All Barley	Bu	1,302,400	127,500	1/	101,100	110,000	1/	556,800	597,200
Corn for Grain	Bu	354,700	2/	2/	2/	97,300	2/	11,400	56,500
Corn for Silage	Tons	42,300	2/	2/	2/	14,900	2/	32,500	95,450
Oats	Bu	62,400	1/	8,400	22,500	24,000	18,200	58,300	48,700
All Hay	Tons	339,100	32,800	39,700	93,600	47,400	16,100	150,900	121,000
Alfalfa & Alfalfa Mix Hay	Tons	328,500	27,800	32,100	33,600	44,000	14,000	130,000	112,500
Jan. 1, 1993 Inventory									
All Cattle & Calves	Head	58,000	8,000	11,000	46,000	15,000	26,000	44,000	53,000
Beef Cows	Head	21,100	3,100	4,500	29,300	5,200	15,200	14,000	13,000
Milk Cows	Head	2,100	1,600	1,700	3/	2,900	3/	6,200	4,400
Stock Sheep & Lambs	Head	4,100	11,000	4,800	11,500	24,500	3,000	74,600	11,000
Cash Receipts, 1992									
Livestock & Lvst Products	Mill $	24.5	10.9	6.4	16.8	24.2	6.8	70.7	25.4
Crops	Mill $	18.6	1.1	0.8	2.2	10.2	2.6	3.8	3.1
Total	Mill $	43.1	12.0	7.2	19.0	34.4	9.4	74.5	28.5
1992 Census of Agriculture									
Number of Farms	Num	612	258	109	143	686	206	696	406
Land in Farms	Acres	484,156	234,576	58,522	493,073	107,663	324,921	447,463	158,189
Harvested Cropland 4/	Acres	86,933	9,474	10,923	45,631	26,308	48,031	49,073	31,129
Irrigated Land 5/	Acres	88,841	7,960	13,789	56,389	16,299	5,491	99,061	43,919

Item	Unit	County							
		Summit	Tooele	Uintah	Utah	Wasatch	Washington	Wayne	Weber
1993 Production									
All Wheat	Bu	1/	117,300	56,500	575,100	1/	22,700	1/	313,500
All Barley	Bu	1/	224,000	80,000	1,035,500	64,000	143,800	131,900	199,500
Corn for Grain	Bu	2/	2/	69,000	550,000	2/	2/	2/	162,100
Corn for Silage	Tons	2/	2/	31,000	172,100	2/	2/	2/	88,200
Oats	Bu	22,400	12,700	93,500	1/	16,700	7,400	41,100	44,400
All Hay	Tons	45,600	52,900	115,300	152,500	37,200	46,400	40,100	75,700
Alfalfa & Alfalfa Mix Hay	Tons	24,500	47,600	104,500	131,000	31,600	42,500	35,000	68,300
Jan. 1, 1993 Inventory									
All Cattle & Calves	Head	19,000	17,000	48,000	57,000	10,000	19,000	18,000	31,000
Beef Cows	Head	9,200	10,100	22,200	18,900	3,900	9,800	9,800	7,000
Milk Cows	Head	1,800	3/	1,700	7,800	2,000	3/	600	7,000
Stock Sheep & Lambs	Head	29,500	9,300	18,200	46,100	12,500	3/	8,300	8,900
Cash Receipts, 1992									
Livestock & Lvst Products	Mill $	13.4	7.2	19.4	58.5	9.5	6.9	8.6	23.8
Crops	Mill $	0.9	2.4	3.1	27.5	1.1	5.0	1.1	6.7
Total	Mill $	14.3	9.6	22.5	86.0	10.6	11.9	9.7	30.5
1992 Census of Agriculture									
Number of Farms	Num	419	300	716	1,696	274	389	189	945
Land in Farms	Acres	373,582	437,238	1,294,703	450,315	139,347	167,374	105,576	256,522
Harvested Cropland 4/	Acres	17,217	13,882	42,273	83,047	10,130	8,515	13,039	27,860
Irrigated Land 5/	Acres	29,417	16,479	70,011	83,601	15,000	11,987	16,955	31,758

1/ Less than 500 acres planted. 2/ Less than 500 acres of corn planted for all purposes. 3/ Less than 500 head. 4/ Includes land from which crops were harvested or hay was cut, and land in orchards. 5/ Includes all land watered by any artificial or controlled means, such as sprinklers, furrows or ditches, and spreader dikes.

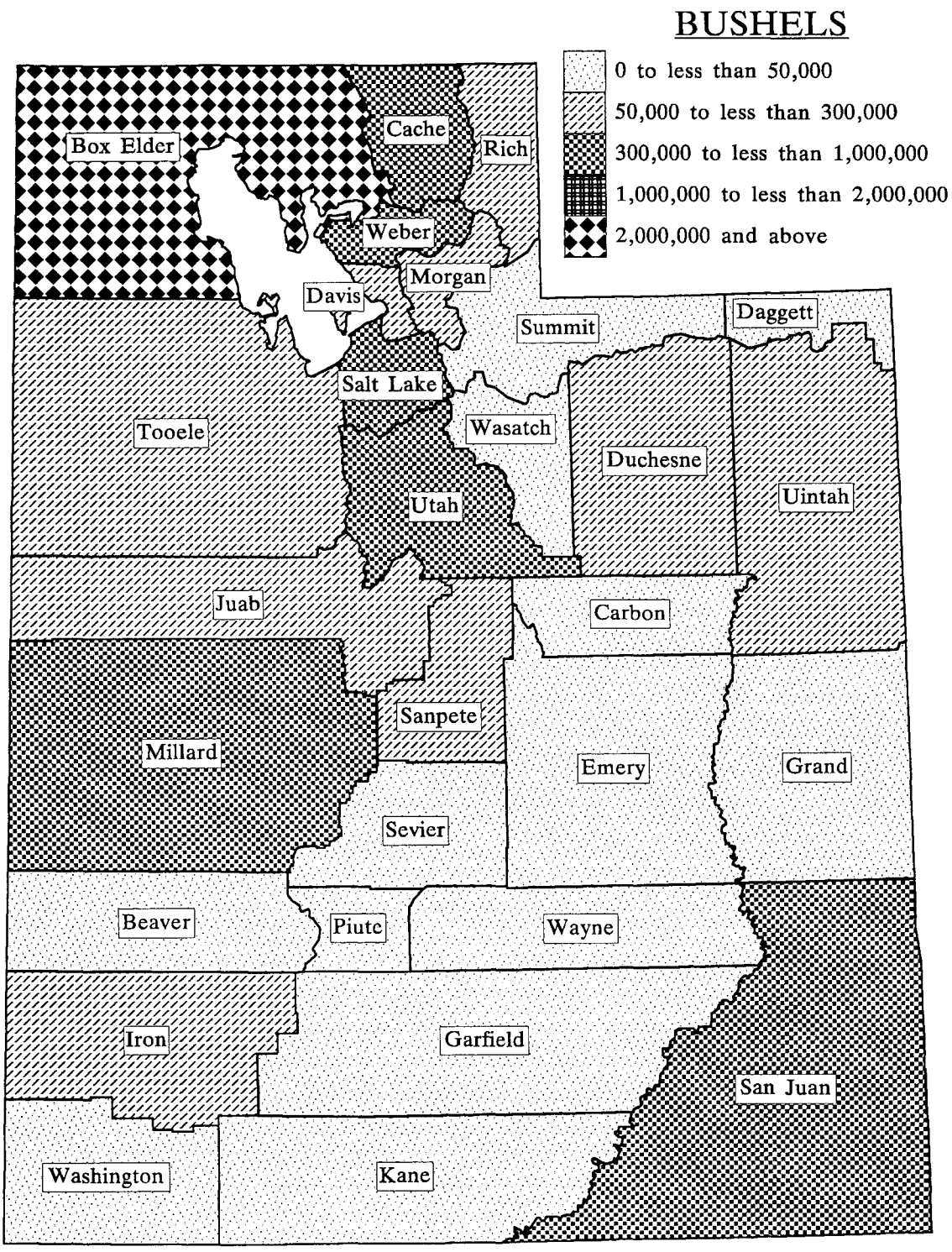
County Estimates: All Wheat, All Cropping Practices, Utah, 1993

District and County	Acres Planted	Acres Harvested for Grain	Yield per Harvested Acre	Production
	Acres		Bushels	
NORTHERN				
Box Elder	69,500	67,900	43.5	2,955,200
Cache	21,700	20,900	45.8	957,500
Davis	3,300	3,100	85.1	263,700
Morgan	800	800	69.1	55,300
Rich	1,800	1,600	38.4	61,500
Salt Lake	11,000	10,500	29.2	306,400
Tooele	2,800	2,700	43.4	117,300
Weber	3,500	3,400	92.2	313,500
Total	114,400	110,900	45.4	5,030,400
CENTRAL				
Juab	5,700	5,500	29.6	162,800
Millard	8,800	8,200	53.5	438,600
Sanpete	1,800	1,600	67.9	108,700
Sevier	800	700	69.3	48,500
Utah	19,300	18,800	30.6	575,100
Total	36,400	34,800	38.3	1,333,700
EASTERN				
Carbon	*	*	*	*
Daggett	*	*	*	*
Duchesne	1,300	900	57.1	51,400
Emery	700	600	58.7	35,200
Grand	*	*	*	*
San Juan	30,100	29,100	21.6	627,500
Summit	*	*	*	*
Uintah	1,100	1,100	51.4	56,500
Wasatch	*	*	*	*
Other	500	500	56.6	28,300
Total	33,700	32,200	24.8	798,900
SOUTHERN				
Beaver	*	*	*	*
Garfield	*	*	*	*
Iron	1,100	900	56.7	51,000
Kane	*	*	*	*
Piute	*	*	*	*
Washington	600	500	45.4	22,700
Wayne	*	*	*	*
Other	800	700	47.6	33,300
Total	2,500	2,100	51.0	107,000
STATE	187,000	180,000	40.4	7,270,000

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

UTAH ALL WHEAT PRODUCTION

By Counties, 1993



County Estimates: All Wheat, by Cropping Practice, Utah, 1993

District and County	Irrigated				Non-Irrigated			
	Acreage		Harvested Yield	Production	Acreage		Harvested Yield	Production
	Planted	Harvested			Planted	Harvested		
	Acres		Bushels		Acres		Bushels	
NORTHERN								
Box Elder	21,000	20,900	91.1	1,903,900	48,500	47,000	22.4	1,051,300
Cache	6,600	6,600	74.4	491,000	15,100	14,300	32.6	466,500
Davis	2,800	2,700	95.0	256,500	500	400	18.0	7,200
Morgan	500	500	91.0	45,500	300	300	32.7	9,800
Rich	300	300	83.0	24,900	1,500	1,300	28.2	36,600
Salt Lake	1,000	1,000	86.4	86,400	10,000	9,500	23.2	220,000
Tooele	1,100	1,100	68.1	74,900	1,700	1,600	26.5	42,400
Weber	3,300	3,200	96.3	308,300	200	200	26.0	5,200
Total	36,600	36,300	87.9	3,191,400	77,800	74,600	24.7	1,839,000
CENTRAL								
Juab	1,300	1,300	62.6	81,400	4,400	4,200	19.4	81,400
Millard	4,400	4,300	82.0	352,600	4,400	3,900	22.1	86,000
Sanpete	1,500	1,400	74.4	104,200	300	200	22.5	4,500
Sevier	800	700	69.3	48,500	0	0	0	0
Utah	3,400	3,300	83.3	274,800	15,900	15,500	19.4	300,300
Total	11,400	11,000	78.3	861,500	25,000	23,800	19.8	472,200
EASTERN								
Carbon	*	*	*	*	*	*	*	*
Daggett	*	*	*	*	*	*	*	*
Duchesne	600	500	84.6	42,300	700	400	22.8	9,100
Emery	700	600	58.7	35,200	*	*	*	*
Grand	*	*	*	*	*	*	*	*
San Juan	1,300	1,300	72.3	94,000	28,800	27,800	19.2	533,500
Summit	*	*	*	*	*	*	*	*
Uintah	600	600	71.3	42,800	500	500	27.4	13,700
Wasatch	*	*	*	*	*	*	*	*
Other	400	400	65.3	26,100	100	100	22.0	2,200
Total	3,600	3,400	70.7	240,400	30,100	28,800	19.4	558,500
SOUTHERN								
Beaver	*	*	*	*	*	*	*	*
Garfield	*	*	*	*	*	*	*	*
Iron	800	600	71.7	43,000	300	300	26.7	8,000
Kane	*	*	*	*	*	*	*	*
Piute	*	*	*	*	*	*	*	*
Washington	200	200	69.5	13,900	400	300	29.3	8,800
Wayne	*	*	*	*	*	*	*	*
Other	400	300	77.0	23,100	400	400	25.5	10,200
Total	1,400	1,100	72.7	80,000	1,100	1,000	27.0	27,000
STATE	53,000	51,800	84.4	4,373,300	134,000	128,200	22.6	2,896,700

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

County Estimates: Winter Wheat, All Cropping Practices, Utah, 1993

District and County	Acres Planted	Acres Harvested for Grain	Yield per Harvested Acre	Production
	Acres		Bushels	
NORTHERN				
Box Elder	63,800	62,500	43.6	2,722,100
Cache	17,000	16,500	45.9	758,000
Davis	2,400	2,300	84.2	193,700
Morgan	400	400	81.3	32,500
Rich	1,300	1,200	37.9	45,500
Salt Lake	10,000	9,500	28.5	270,400
Tooele	2,300	2,200	41.0	90,300
Weber	2,500	2,400	99.0	237,500
Total	99,700	97,000	44.8	4,350,000
CENTRAL				
Juab	4,600	4,500	28.0	126,000
Millard	6,500	6,200	49.2	304,800
Sanpete	700	600	70.0	42,000
Sevier	500	400	72.5	29,000
Utah	15,400	15,100	29.0	438,200
Total	27,700	26,800	35.1	940,000
EASTERN				
Carbon	*	*	*	*
Daggett	*	*	*	*
Duchesne	500	300	40.0	12,000
Emery	500	400	63.0	25,200
Grand	*	*	*	*
San Juan	29,300	28,400	21.4	607,500
Summit	*	*	*	*
Uintah	400	400	63.0	25,200
Wasatch	*	*	*	*
Other	300	300	67.0	20,100
Total	31,000	29,800	23.2	690,000
SOUTHERN				
Beaver	*	*	*	*
Garfield	*	*	*	*
Iron	600	500	50.0	25,000
Kane	*	*	*	*
Piute	*	*	*	*
Washington	500	400	40.5	16,200
Wayne	*	*	*	*
Other	500	500	47.6	23,800
Total	1,600	1,400	46.4	65,000
STATE	160,000	155,000	39.0	6,045,000

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

County Estimates: Spring Wheat, All Cropping Practices, Utah, 1993

District and County	Acres Planted	Acres Harvested for Grain	Yield per Harvested Acre	Production
	Acres		Bushels	
NORTHERN				
Box Elder	5,700	5,400	43.2	233,100
Cache	4,700	4,400	45.3	199,500
Davis	900	800	87.5	70,000
Morgan	400	400	57.0	22,800
Rich	500	400	40.0	16,000
Salt Lake	1,000	1,000	36.0	36,000
Tooele	500	500	54.0	27,000
Weber	1,000	1,000	76.0	76,000
Total	14,700	13,900	48.9	680,400
CENTRAL				
Juab	1,100	1,000	36.8	36,800
Millard	2,300	2,000	66.9	133,800
Sanpete	1,100	1,000	66.7	66,700
Sevier	300	300	65.0	19,500
Utah	3,900	3,700	37.0	136,900
Total	8,700	8,000	49.2	393,700
EASTERN				
Carbon	*	*	*	*
Daggett	*	*	*	*
Duchesne	800	600	65.7	39,400
Emery	200	200	50.0	10,000
Grand	*	*	*	*
San Juan	800	700	28.6	20,000
Summit	*	*	*	*
Uintah	700	700	44.7	31,300
Wasatch	*	*	*	*
Other	200	200	41.0	8,200
Total	2,700	2,400	45.4	108,900
SOUTHERN				
Beaver	*	*	*	*
Garfield	*	*	*	*
Iron	500	400	65.0	26,000
Kane	*	*	*	*
Piute	*	*	*	*
Washington	100	100	65.0	6,500
Wayne	*	*	*	*
Other	300	200	47.5	9,500
Total	900	700	60.0	42,000
STATE	27,000	25,000	49.0	1,225,000

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

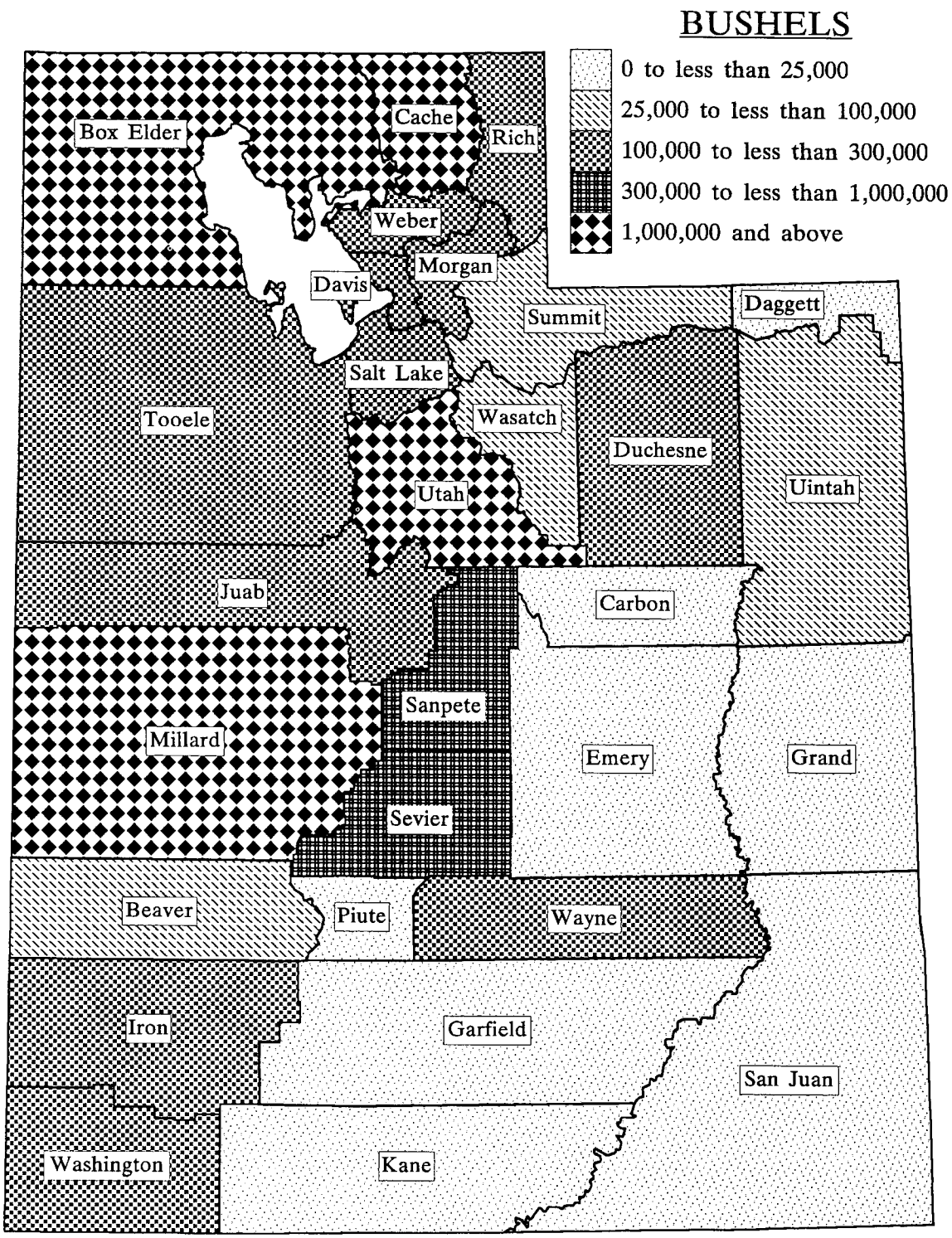
County Estimates: All Barley, All Cropping Practices, Utah, 1993

District and County	Acres Planted	Acres Harvested for Grain	Yield per Harvested Acre	Production
	Acres		Bushels	
NORTHERN				
Box Elder	22,700	20,800	85.80	1,784,600
Cache	23,900	22,800	78.10	1,780,400
Davis	2,900	2,800	80.00	224,000
Morgan	1,600	1,500	85.00	127,500
Rich	1,600	1,500	67.40	101,100
Salt Lake	1,200	1,200	91.70	110,000
Tooele	2,900	2,800	80.00	224,000
Weber	2,200	2,100	95.00	199,500
Total	59,000	55,500	82.00	4,551,100
CENTRAL				
Juab	2,500	2,400	77.80	186,700
Millard	14,000	13,900	93.70	1,302,400
Sanpete	6,300	6,200	89.80	556,800
Sevier	7,200	7,100	84.10	597,200
Utah	11,000	10,900	95.00	1,035,500
Total	41,000	40,500	90.80	3,678,600
EASTERN				
Carbon	*	*	*	*
Daggett	*	*	*	*
Duchesne	3,500	3,400	76.50	260,200
Emery	600	500	43.00	21,500
Grand	*	*	*	*
San Juan	*	*	*	*
Summit	*	*	*	*
Uintah	1,100	1,000	80.00	80,000
Wasatch	900	900	71.10	64,000
Other	900	900	55.60	50,000
Total	7,000	6,700	71.00	475,700
SOUTHERN				
Beaver	1,000	1,000	85.40	85,400
Garfield	*	*	*	*
Iron	2,600	2,400	97.90	235,000
Kane	*	*	*	*
Piute	*	*	*	*
Washington	2,200	1,800	79.90	143,800
Wayne	1,600	1,500	87.90	131,900
Other	600	600	80.80	48,500
Total	8,000	7,300	88.30	644,600
STATE	115,000	110,000	85.00	9,350,000

* Less than 500 planted acres combined with other counties.

UTAH BARLEY PRODUCTION

By Counties, 1993



County Estimates: All Barley, by Cropping Practice, Utah, 1993

District and County	Irrigated				Non-Irrigated			
	Acreage		Yield per Harvested acre	Production	Acreage		Yield per Harvested acre	Production
	Planted	Harvested			Planted	Harvested		
	Acres		Bushels		Acres		Bushels	
NORTHERN								
Box Elder	19,500	17,900	94.70	1,695,000	3,200	2,900	30.90	89,600
Cache	19,200	18,300	88.70	1,623,200	4,700	4,500	34.90	157,200
Davis	2,700	2,600	83.00	215,800	200	200	41.00	8,200
Morgan	1,400	1,400	88.80	124,300	200	100	32.00	3,200
Rich	1,400	1,300	72.80	94,700	200	200	32.00	6,400
Salt Lake	1,000	1,000	102.30	102,300	200	200	38.50	7,700
Tooele	2,400	2,400	88.00	211,200	500	400	32.00	12,800
Weber	2,000	1,900	101.20	192,300	200	200	36.00	7,200
Total	49,600	46,800	91.00	4,258,800	9,400	8,700	33.60	292,300
CENTRAL								
Juab	2,200	2,200	82.70	181,900	300	200	24.00	4,800
Millard	13,900	13,800	94.20	1,299,600	100	100	28.00	2,800
Sanpete	6,200	6,100	91.00	554,800	100	100	20.00	2,000
Sevier	7,100	7,000	85.10	595,600	100	100	16.00	1,600
Utah	10,800	10,800	95.60	1,032,700	200	100	28.00	2,800
Total	40,200	39,900	91.80	3,664,600	800	600	23.30	14,000
EASTERN								
Carbon	*	*	*	*	*	*	*	*
Daggett	*	*	*	*	*	*	*	*
Duchesne	3,400	3,300	78.10	257,800	100	100	24.00	2,400
Emery	500	400	49.80	19,900	100	100	16.00	1,600
Grand	*	*	*	*	*	*	*	*
San Juan	*	*	*	*	*	*	*	*
Summit	*	*	*	*	*	*	*	*
Uintah	900	900	86.20	77,600	200	100	24.00	2,400
Wasatch	900	900	71.10	64,000				
Other	600	600	75.70	45,400	300	300	15.30	4,600
Total	6,300	6,100	76.20	464,700	700	600	18.30	11,000
SOUTHERN								
Beaver	1,000	1,000	85.40	85,400				
Garfield	*	*	*	*	*	*	*	*
Iron	2,600	2,400	97.90	235,000				
Kane	*	*	*	*	*	*	*	*
Piute	*	*	*	*	*	*	*	*
Washington	2,100	1,700	83.00	141,100	100	100	27.00	2,700
Wayne	1,600	1,500	87.90	131,900				
Other	600	600	80.80	48,500				
Total	7,900	7,200	89.20	641,900	100	100	27.00	2,700
STATE	104,000	100,000	90.30	9,030,000	11,000	10,000	32.00	320,000

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

County Estimates: Corn, All Cropping Practices, Utah, 1993

District and County	Acres Planted All Purposes	Corn for Grain			Corn for Silage		
		Acres Harvested	Yield	Production	Acres Harvested	Yield	Production
	Acres		Bushels		Acres	Tons	
NORTHERN							
Box Elder	12,700	6,500	142.80	928,400	6,100	22.80	138,900
Cache	6,700	400	126.30	50,500	6,200	20.20	125,500
Davis	4,700	3,100	123.40	382,500	1,500	22.50	33,800
Morgan	*	*	*	*	*	*	*
Rich	*	*	*	*	*	*	*
Salt Lake	1,600	700	139.00	97,300	800	18.60	14,900
Tooele	*	*	*	*	*	*	*
Weber	5,600	1,200	135.10	162,100	4,300	20.50	88,200
Other	500				500	19.40	9,700
Total	31,800	11,900	136.20	1,620,800	19,400	21.20	411,000
CENTRAL							
Juab	600	100	75.00	7,500	500	18.50	9,250
Millard	5,500	2,800	126.70	354,700	2,600	16.30	42,300
Sanpete	2,000	100	114.00	11,400	1,800	18.10	32,500
Sevier	5,400	500	113.00	56,500	4,800	19.90	95,450
Utah	12,400	4,400	125.00	550,000	7,900	21.80	172,100
Total	25,900	7,900	124.10	980,100	17,600	20.00	351,600
EASTERN							
Carbon	*	*	*	*	*	*	*
Daggett	*	*	*	*	*	*	*
Duchesne	2,200	1,000	120.40	120,400	1,000	17.10	17,100
Emery	1,600	300	129.00	38,700	1,000	12.30	12,300
Grand	*	*	*	*	*	*	*
San Juan	*	*	*	*	*	*	*
Summit	*	*	*	*	*	*	*
Uintah	2,600	600	115.00	69,000	1,800	17.20	31,000
Wasatch	*	*	*	*	*	*	*
Other	1,000	100	105.00	10,500	800	16.80	13,400
Total	7,400	2,000	119.30	238,600	4,600	16.00	73,800
SOUTHERN							
Beaver	1,300	100	102.00	10,200	1,100	19.50	21,400
Garfield	*	*	*	*	*	*	*
Iron	1,000	100	103.00	10,300	700	17.60	12,300
Kane	*	*	*	*	*	*	*
Piute	*	*	*	*	*	*	*
Washington	*	*	*	*	*	*	*
Wayne	*	*	*	*	*	*	*
Other	600				600	16.50	9,900
Total	2,900	200	102.50	20,500	2,400	18.20	43,600
STATE	68,000	22,000	130.00	2,860,000	44,000	20.00	880,000

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

County Estimates: Oats, All Cropping Practices, Utah, 1993

District and County	Acres Planted	Acres Harvested for Grain	Yield per Harvested Acre	Production
	Acres		Bushels	
NORTHERN				
Box Elder	2,300	1,000	89.1	89,100
Cache	2,400	900	76.1	68,500
Davis	*	*	*	*
Morgan	*	*	*	*
Rich	1,600	300	75.0	22,500
Salt Lake	700	300	80.0	24,000
Tooele	1,000	200	63.5	12,700
Weber	1,100	500	88.8	44,400
Other	1,000	400	83.0	33,200
Total	10,100	3,600	81.8	294,400
CENTRAL				
Juab	*	*	*	*
Millard	4,000	800	78.0	62,400
Sanpete	2,900	700	83.3	58,300
Sevier	3,200	600	81.2	48,700
Utah	*	*	*	*
Other	2,800	900	81.6	73,400
Total	12,900	3,000	80.9	242,800
EASTERN				
Carbon	1,000	200	75.5	15,100
Daggett	*	*	*	*
Duchesne	4,400	1,000	84.2	84,200
Emery	2,100	500	72.4	36,200
Grand	*	*	*	*
San Juan	1,500	700	26.0	18,200
Summit	900	300	74.7	22,400
Uintah	2,500	1,200	77.9	93,500
Wasatch	1,000	200	83.5	16,700
Other	400	200	61.0	12,200
Total	13,800	4,300	69.4	298,500
SOUTHERN				
Beaver	3,100	300	88.7	26,600
Garfield	2,200	600	88.5	53,100
Iron	3,600	300	90.0	27,000
Kane	1,200	200	73.5	14,700
Piute	800	100	84.0	8,400
Washington	500	100	74.0	7,400
Wayne	1,800	500	82.2	41,100
Total	13,200	2,100	84.9	178,300
STATE	50,000	13,000	78.0	1,014,000

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

County Estimates: All Hay, All Cropping Practices, Utah, 1993

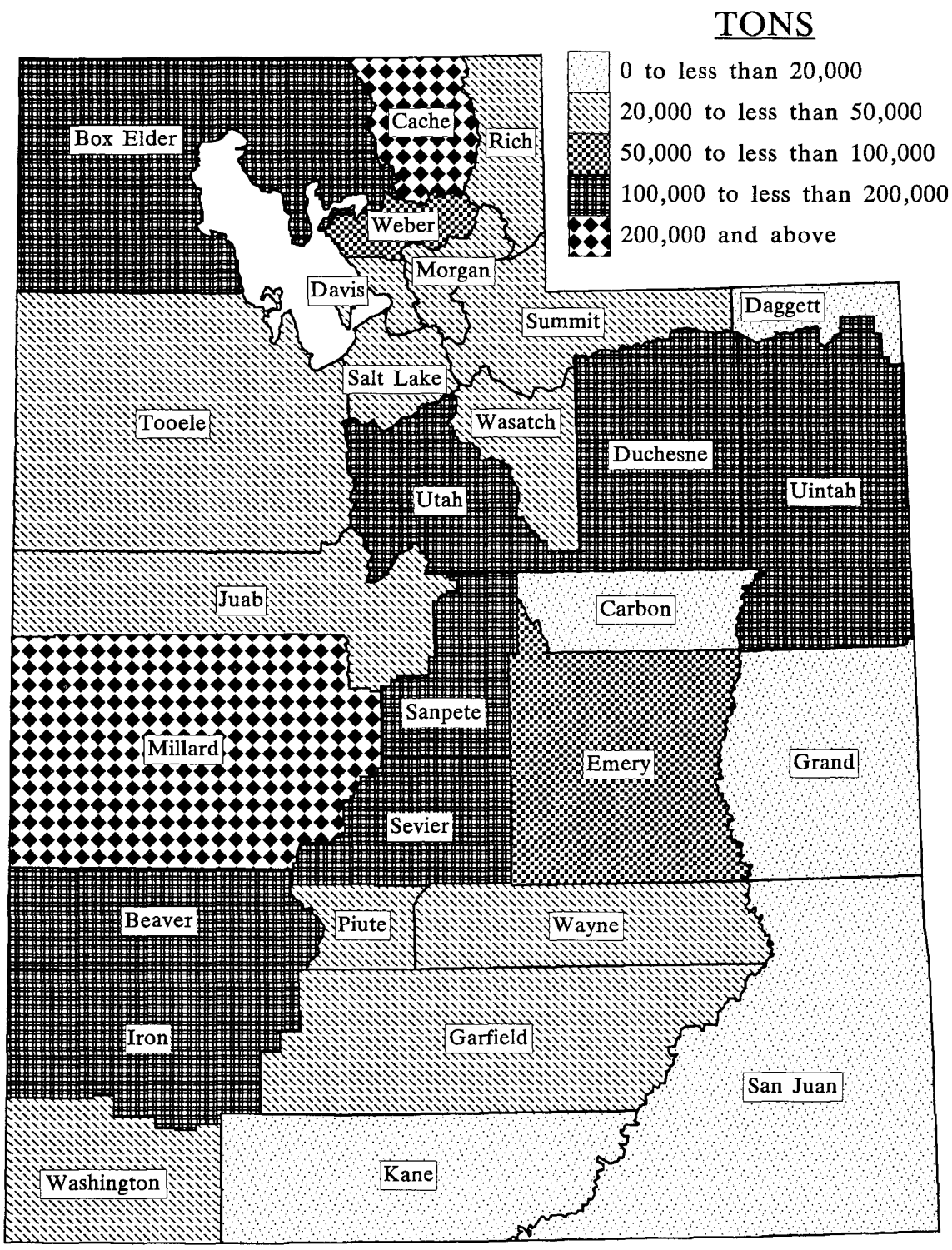
District and County	Acres Harvested	Yield per Harvested Acre	Production
	Acres	Tons	
NORTHERN			
Box Elder	48,600	4.19	203,400
Cache	57,500	3.84	220,600
Davis	8,200	4.34	35,600
Morgan	8,900	3.69	32,800
Rich	46,700	2.00	93,600
Salt Lake	11,200	4.23	47,400
Tooele	14,600	3.62	52,900
Weber	15,800	4.79	75,700
Total	211,500	3.60	762,000
CENTRAL			
Juab	13,800	3.74	51,600
Millard	76,400	4.44	339,100
Sanpete	37,800	3.99	150,900
Sevier	26,100	4.64	121,000
Utah	35,400	4.31	152,500
Total	189,500	4.30	815,100
EASTERN			
Carbon	5,900	3.53	20,800
Daggett	5,800	2.52	14,600
Duchesne	44,100	3.48	153,300
Emery	16,200	3.40	55,000
Grand	2,500	4.24	10,600
San Juan	5,800	2.78	16,100
Summit	16,200	2.81	45,600
Uintah	29,000	3.98	115,300
Wasatch	9,000	4.13	37,200
Total	134,500	3.48	468,500
SOUTHERN			
Beaver	27,700	4.71	130,400
Garfield	12,600	3.16	39,800
Iron	37,300	4.69	175,100
Kane	3,500	3.69	12,900
Piute	11,700	3.39	39,700
Washington	10,200	4.55	46,400
Wayne	11,500	3.49	40,100
Total	114,500	4.23	484,400
STATE	650,000	3.89	2,530,000

County Estimates: Alfalfa & Alfalfa Mixtures for Hay, All Cropping Practices, Utah, 1993

District and County	Acres Harvested	Yield per Harvested Acre	Production
	Acres	Tons	
NORTHERN			
Box Elder	39,000	4.74	185,000
Cache	48,500	4.20	203,500
Davis	6,200	4.87	30,200
Morgan	6,800	4.09	27,800
Rich	11,200	3.00	33,600
Salt Lake	9,800	4.49	44,000
Tooele	11,400	4.18	47,600
Weber	13,100	5.21	68,300
Total	146,000	4.38	640,000
CENTRAL			
Juab	12,300	3.90	48,000
Millard	71,700	4.58	328,500
Sanpete	28,900	4.50	130,000
Sevier	22,500	5.00	112,500
Utah	26,600	4.92	131,000
Total	162,000	4.63	750,000
EASTERN			
Carbon	5,200	3.71	19,300
Daggett	1,900	3.63	6,900
Duchesne	29,500	4.06	119,700
Emery	14,000	3.60	50,400
Grand	1,900	4.79	9,100
San Juan	4,800	2.92	14,000
Summit	8,200	2.99	24,500
Uintah	24,000	4.35	104,500
Wasatch	7,000	4.51	31,600
Total	96,500	3.94	380,000
SOUTHERN			
Beaver	22,300	5.04	112,300
Garfield	10,200	3.25	33,100
Iron	33,500	4.90	164,200
Kane	2,700	4.00	10,800
Piute	8,400	3.82	32,100
Washington	8,800	4.83	42,500
Wayne	9,600	3.65	35,000
Total	95,500	4.50	430,000
STATE	500,000	4.40	2,200,000

UTAH ALFALFA HAY PRODUCTION

By Counties, 1993



County Estimates: Other Hay, All Cropping Practices, Utah, 1993

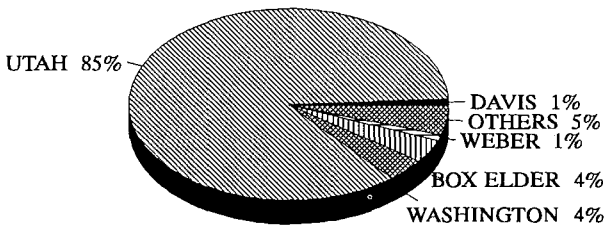
District and County	Acres Harvested	Yield per Harvested Acre	Production
	Acres	Tons	
NORTHERN			
Box Elder	9,600	1.92	18,400
Cache	9,000	1.90	17,100
Davis	2,000	2.70	5,400
Morgan	2,100	2.38	5,000
Rich	35,500	1.69	60,000
Salt Lake	1,400	2.43	3,400
Tooele	3,200	1.66	5,300
Weber	2,700	2.74	7,400
Total	65,500	1.86	122,000
CENTRAL			
Juab	1,500	2.40	3,600
Millard	4,700	2.26	10,600
Sanpete	8,900	2.35	20,900
Sevier	3,600	2.36	8,500
Utah	8,800	2.44	21,500
Total	27,500	2.37	65,100
EASTERN			
Carbon	700	2.14	1,500
Daggett	3,900	1.97	7,700
Duchesne	14,600	2.30	33,600
Emery	2,200	2.09	4,600
Grand	600	2.50	1,500
San Juan	1,000	2.10	2,100
Summit	8,000	2.64	21,100
Uintah	5,000	2.16	10,800
Wasatch	2,000	2.80	5,600
Total	38,000	2.33	88,500
SOUTHERN			
Beaver	5,400	3.35	18,100
Garfield	2,400	2.79	6,700
Iron	3,800	2.87	10,900
Kane	800	2.63	2,100
Piute	3,300	2.30	7,600
Washington	1,400	2.79	3,900
Wayne	1,900	2.68	5,100
Total	19,000	2.86	54,400
STATE	150,000	2.20	330,000

Number of Total Fruit Trees, by County, Utah, 1993

Kind of Fruit	County						
	Utah	Box Elder	Washington	Weber	Davis	Other	Total
Apples	535,874	26,853	24,901	5,334	3,983	34,599	631,544
Density 1-200	189,067	20,601	1,471	5,334	3,673	30,399	250,545
Density 201-500	265,513	6,252	23,430	-	310	4,200	299,705
Density 501+	81,294	-	-	-	-	-	81,294
Pears	15,200	2,232	3,767	7,364	-	4,335	32,898
Peaches	108,278	65,583	13,941	5,737	2,760	6,700	202,999
Sweet Cherries	56,362	14,791	-	2,200	5,999	420	79,772
Tart Cherries	487,458	61,256	-	16,394	1/	135	565,243
Apricots	2,614	13,371	1/	409	685	1,605	18,684
Total	1,205,786	184,086	42,609	37,438	13,427	47,794	1,531,140
% of Total	79	12	3	2	1	3	100

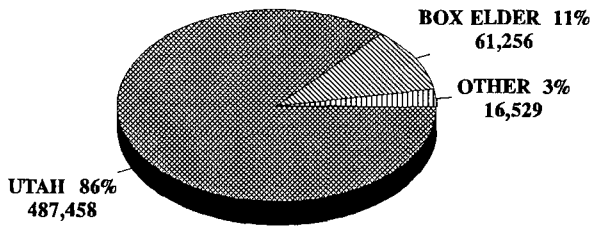
1/ Included in Other Counties to avoid disclosure of individual operations.

APPLE TREES BY COUNTY



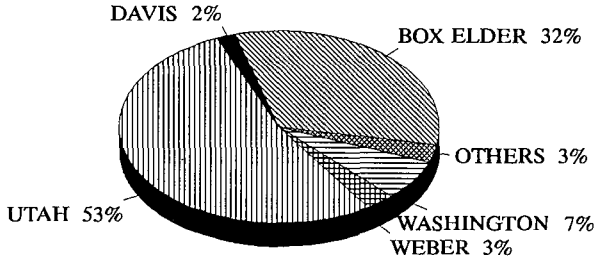
Source: 1993 Utah Fruit Tree Survey

TART CHERRY TREES BY COUNTY



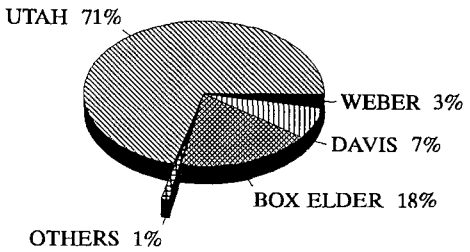
Source: 1993 Utah Fruit Tree Survey

PEACH TREES BY COUNTY



Source: 1993 Utah Fruit Tree Survey

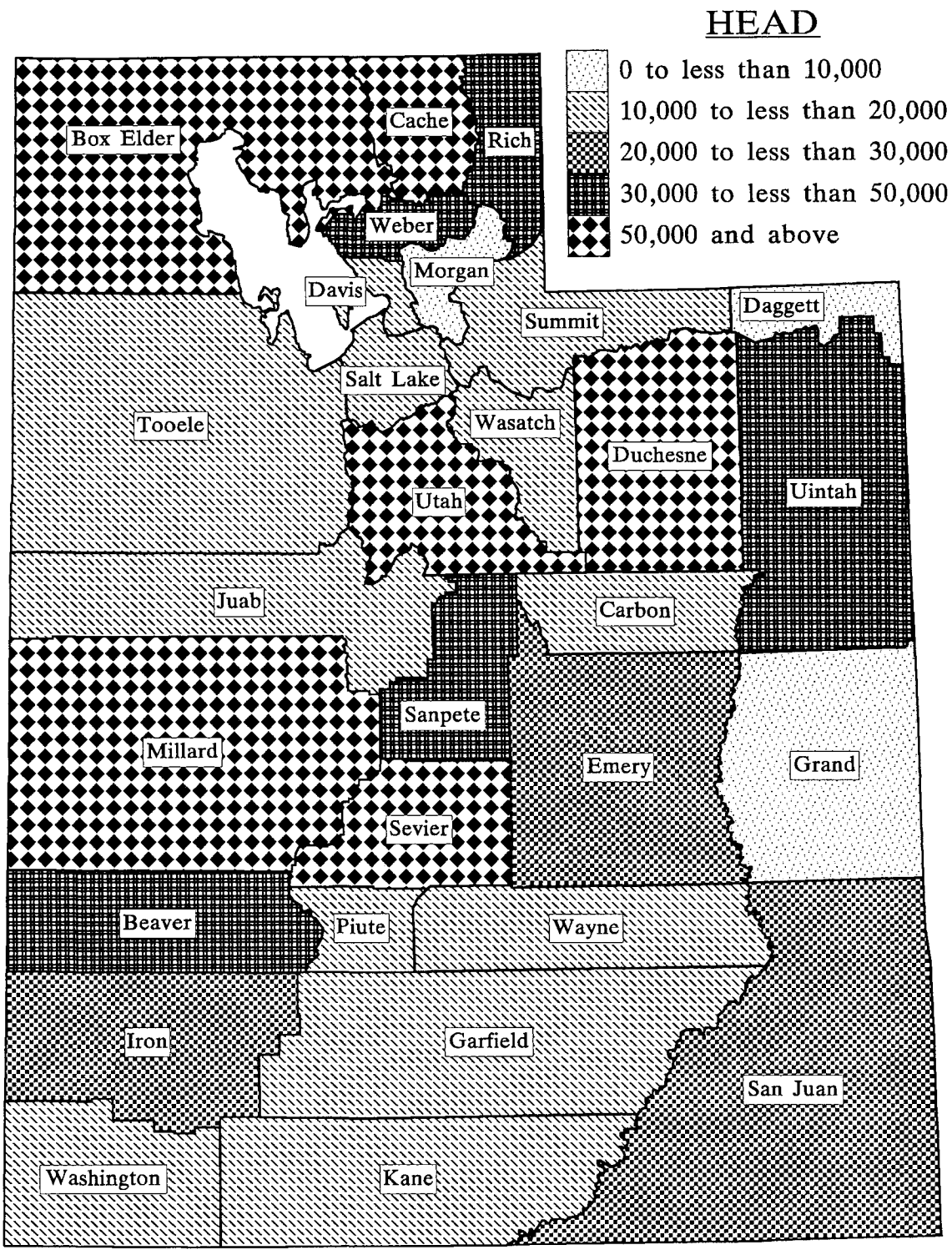
SWEET CHERRY TREES BY COUNTY



Source: 1993 Utah Fruit Tree Survey

UTAH ALL CATTLE INVENTORY

By Counties, January 1, 1994



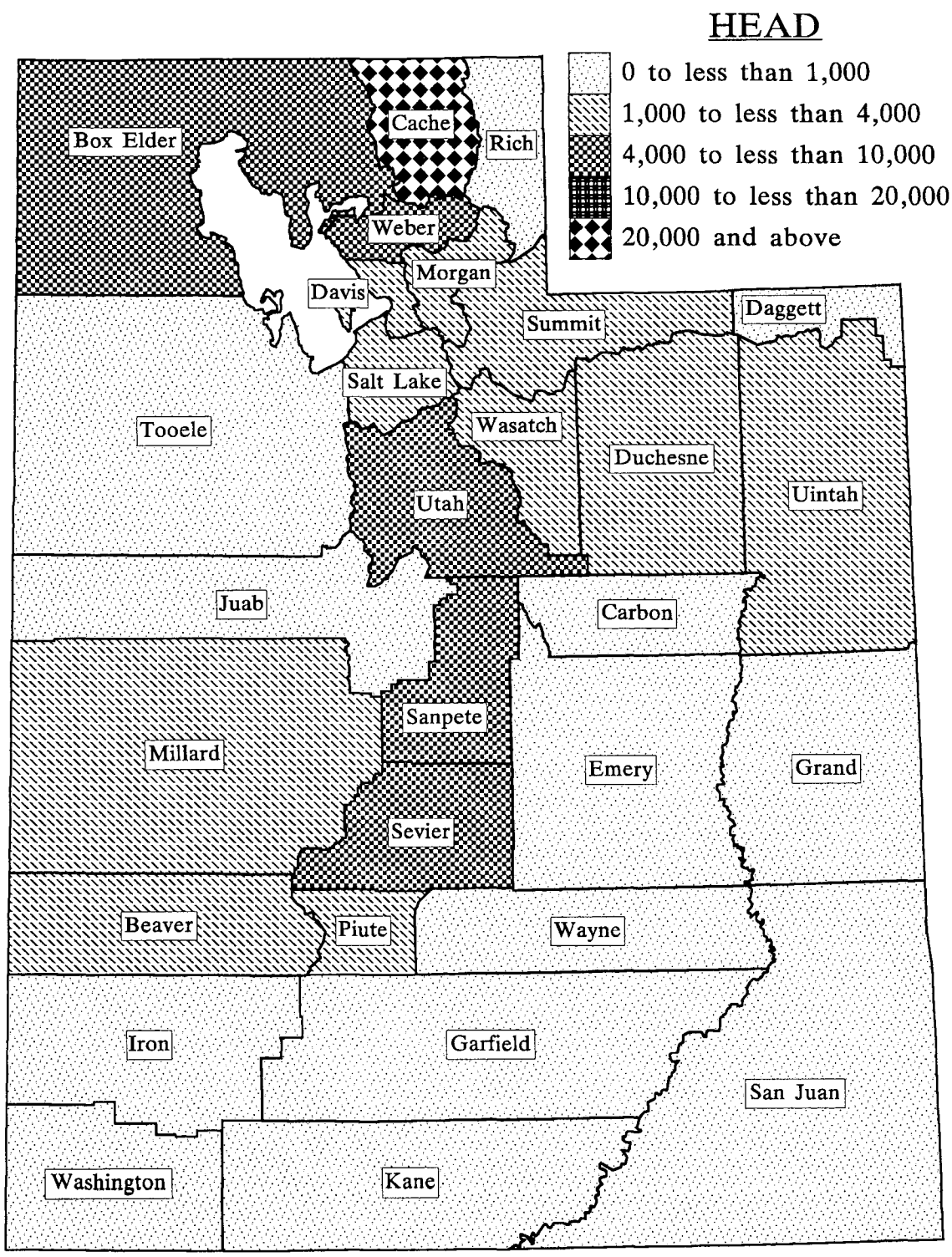
County Estimates: Cattle, Utah, January 1, 1993-94

County	All Cattle		All Cows		Beef Cows		Milk Cows	
	1993	1994	1993	1994	1993	1994	1993	1994
	Number							
NORTHERN								
Box Elder . .	82,000	79,000	36,600	35,100	28,000	26,300	8,600	8,800
Cache	73,000	71,000	29,800	30,400	6,900	8,700	22,900	21,700
Davis	18,000	18,000	7,800	7,500	6,200	6,300	1,600	1,200
Morgan . . .	9,000	8,000	4,600	4,700	3,000	3,100	1,600	1,600
Rich	48,000	46,000	1/30,000	1/ 29,300	30,000	29,300	2/	2/
Salt Lake . .	14,000	15,000	7,000	8,100	4,800	5,200	2,200	2,900
Tooele	17,000	17,000	1/12,200	1/ 10,100	12,200	10,100	2/	2/
Weber	30,000	31,000	12,600	14,000	5,900	7,000	6,700	7,000
Total	291,000	285,000	140,600	139,200	97,000	96,000	43,600	43,200
CENTRAL								
Juab	14,000	12,000	1/ 7,300	6,500	7,300	6,000	2/	500
Millard	59,000	58,000	24,100	23,200	21,500	21,100	2,600	2,100
Sanpete . . .	50,000	44,000	21,900	20,200	15,500	14,000	6,400	6,200
Sevier	49,000	53,000	17,400	17,400	13,400	13,000	4,000	4,400
Utah	59,000	57,000	28,000	26,700	19,300	18,900	8,700	7,800
Total	231,000	224,000	98,700	94,000	77,000	73,000	21,700	21,000
EASTERN								
Carbon . . .	9,000	10,000	1/6,400	1/ 7,600	6,400	7,600	2/	2/
Daggett . . .	4,000	3,000	1/2,100	1/ 2,500	2,100	2,500	2/	2/
Duchesne . .	58,000	58,000	34,000	34,700	31,100	32,000	2,900	2,700
Emery	25,000	26,000	13,000	13,000	12,300	12,400	700	600
Grand	3,000	4,000	1/2,500	1/ 2,000	2,500	2,000	2/	2/
San Juan . .	19,000	26,000	1/13,300	1/ 15,200	13,300	15,200	2/	2/
Summit . . .	19,000	19,000	11,500	11,000	9,600	9,200	1,900	1,800
Uintah	43,000	48,000	24,400	23,900	22,500	22,200	1,900	1,700
Wasatch . .	11,000	10,000	5,600	5,900	3,200	3,900	2,400	2,000
Total	191,000	204,000	112,800	115,800	103,000	107,000	9,800	8,800
SOUTHERN								
Beaver	37,000	37,000	15,100	16,400	12,200	13,700	2,900	2,700
Garfield . . .	20,000	18,000	1/ 12,000	1/ 10,000	12,000	10,000	2/	2/
Iron	21,000	22,000	10,700	11,500	9,700	10,700	1,000	800
Kane	11,000	12,000	1/ 5,800	1/ 5,500	5,800	5,500	2/	2/
Piute	10,000	11,000	7,500	6,200	5,900	4,500	1,600	1,700
Washington	18,000	19,000	10,100	1/ 9,800	9,600	9,800	500	2/
Wayne	20,000	18,000	11,400	10,400	10,800	9,800	600	600
Total	137,000	137,000	72,600	69,800	66,000	64,000	6,600	5,800
Counties with less than 500 head			1,300	1,200			1,300	1,200
State	850,000	850,000	426,000	420,000	343,000	340,000	83,000	80,000

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

UTAH MILK COW INVENTORY

By Counties, January 1, 1994



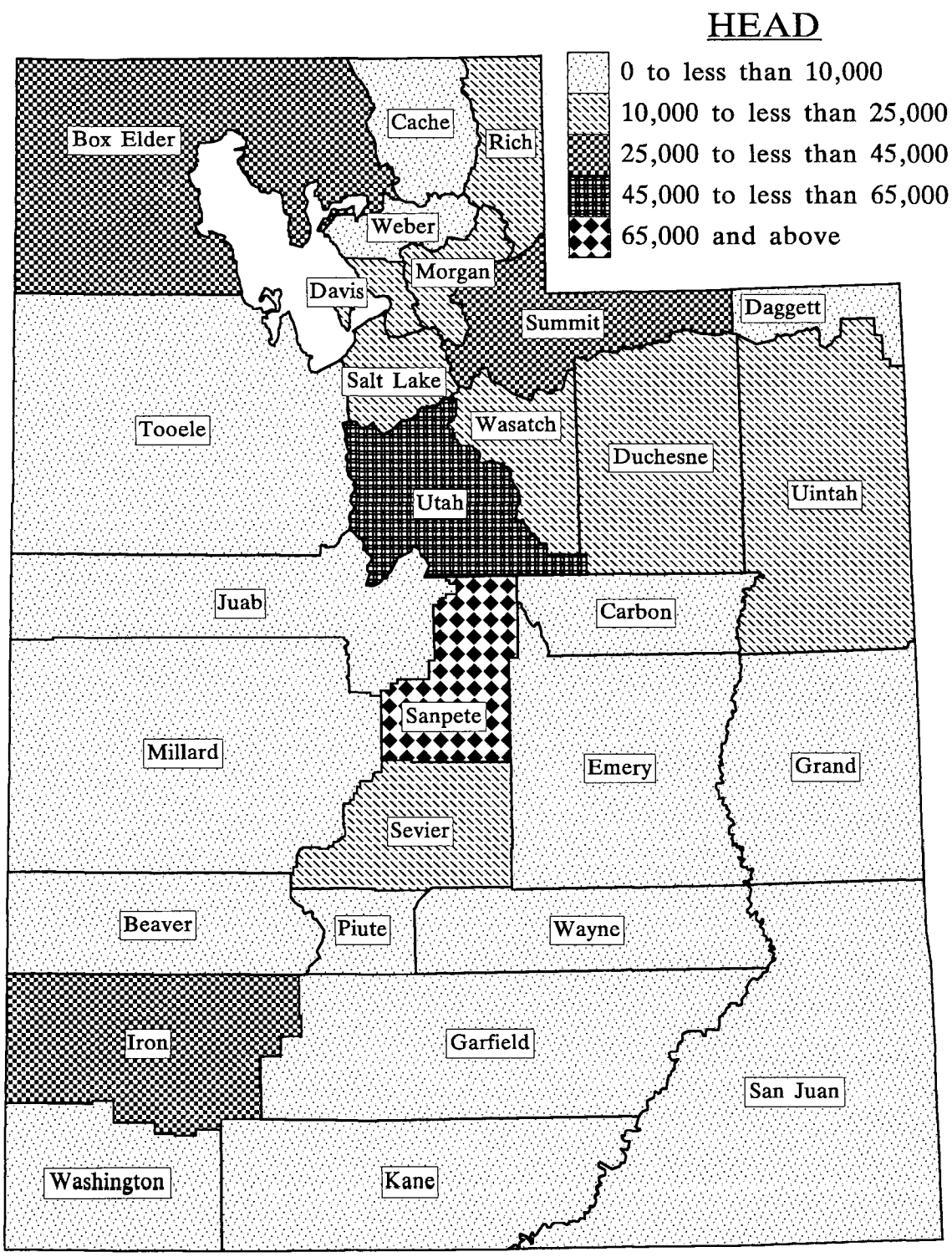
County Estimates: Stock Sheep and Lambs, Utah, January 1, 1993-94

District and County	1993	1994
NORTHERN		
Box Elder	40,000	36,800
Cache	5,600	5,000
Davis	13,000	14,000
Morgan	14,200	11,000
Rich	13,400	11,500
Salt Lake	26,300	24,500
Tooele	10,000	9,300
Weber	8,500	8,900
Total	131,000	121,000
CENTRAL		
Juab	4,800	4,200
Millard	4,800	4,100
Sanpete	82,600	74,600
Sevier	10,400	11,000
Utah	51,400	46,100
Total	154,000	140,000
EASTERN		
Carbon	7,400	6,300
Daggett	700	700
Duchesne	13,000	11,600
Emery	7,500	6,600
Grand	1,000	600
San Juan	2,500	3,000
Summit	32,700	29,500
Uintah	20,700	18,200
Wasatch	13,500	12,500
Total	99,000	89,000
SOUTHERN		
Beaver	600	1/
Garfield	2,900	2,100
Iron	45,500	42,100
Kane	1,600	1,900
Piute	5,300	4,800
Washington	600	1/
Wayne	9,500	8,300
Other Counties		800
Total	66,000	60,000
STATE	450,000	410,000

1/ Counties with less than 500 head combined into "Other Counties."

UTAH STOCK SHEEP INVENTORY

By Counties, January 1, 1994



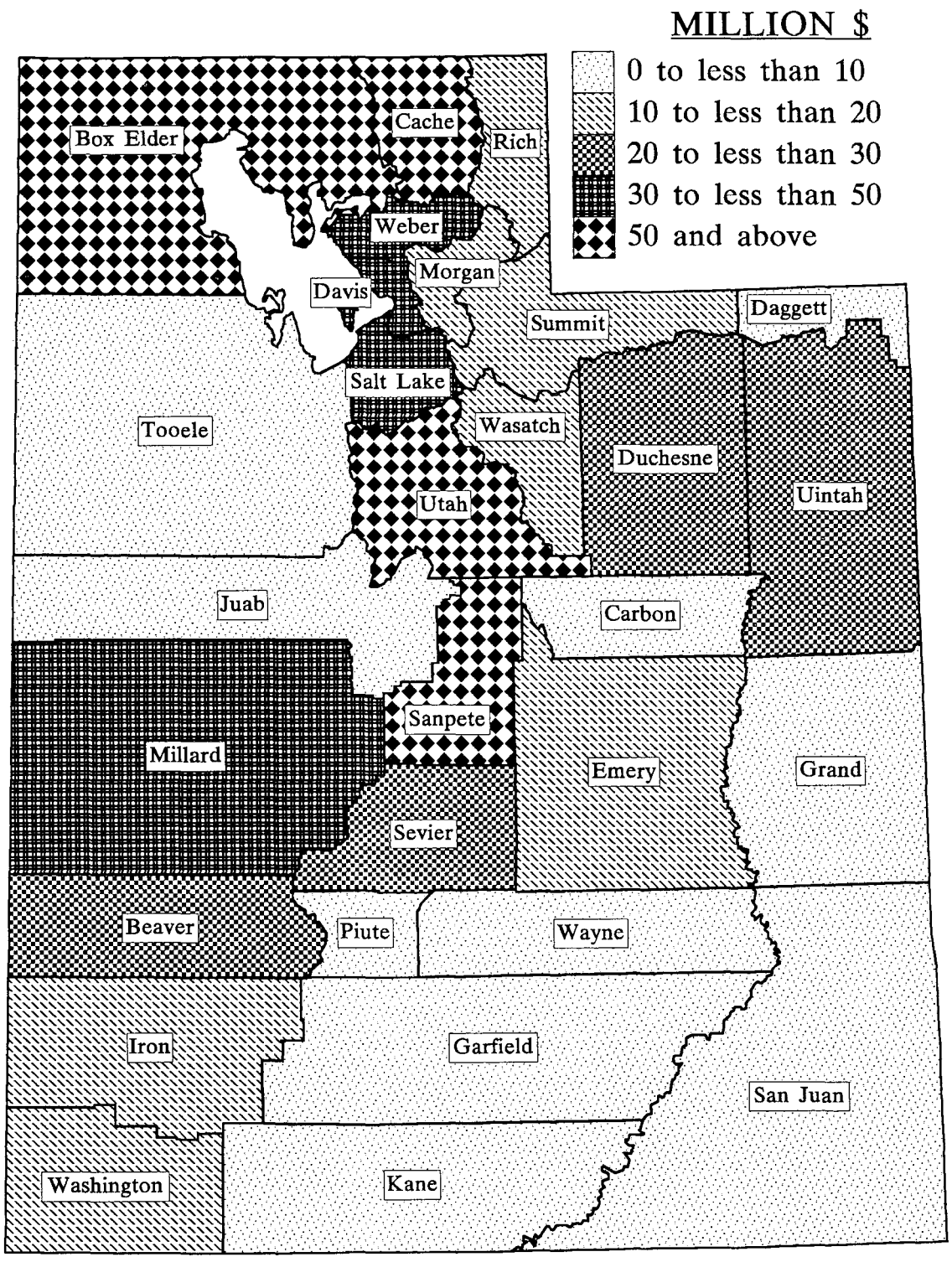
County Estimates: Cash Receipts from Farming, by County - 1991 Revised, 1992 Preliminary

County	Livestock and Livestock Products		Crops		Total	
	1991 1/	1992	1991 1/	1992	1991 1/	1992
	Million Dollars					
NORTHERN						
Box Elder	44.4	45.9	25.5	28.8	69.9	74.7
Cache	74.8	79.9	12.1	12.9	86.9	92.8
Davis	11.3	11.5	22.7	28.7	34.0	40.2
Morgan	10.5	10.9	1.0	1.1	11.5	12.0
Rich	18.4	16.8	1.2	2.2	19.6	19.0
Salt Lake	23.1	24.2	8.9	10.2	32.0	34.4
Tooele	7.6	7.2	2.4	2.4	10.0	9.6
Weber	24.5	23.8	6.1	6.7	30.6	30.5
Total	214.6	220.2	79.9	93.0	294.5	313.2
CENTRAL						
Juab	5.2	5.1	2.3	2.3	7.5	7.4
Millard	26.0	24.5	18.6	18.6	44.6	43.1
Sanpete	71.5	70.7	3.8	3.8	75.3	74.5
Sevier	25.7	25.4	3.2	3.1	28.9	28.5
Utah	54.7	58.5	32.1	27.5	86.8	86.0
Total	183.1	184.2	60.0	55.3	243.1	239.5
EASTERN						
Carbon	3.5	3.5	0.5	0.4	4.0	3.9
Daggett	1.4	1.0	0.1	0.3	1.5	1.3
Duchesne	25.1	25.3	3.5	3.5	28.6	28.8
Emery	10.6	10.8	1.5	1.5	12.1	12.3
Grand	1.5	1.4	0.6	0.7	2.1	2.1
San Juan	7.0	6.8	1.6	2.6	8.6	9.4
Summit	14.7	13.4	0.6	0.9	15.3	14.3
Uintah	18.1	19.4	3.1	3.1	21.2	22.5
Wasatch	9.5	9.5	1.0	1.1	10.5	10.6
Total	91.4	91.1	12.5	14.1	103.9	105.2
SOUTHERN						
Beaver	16.9	17.8	2.9	3.2	19.8	21.0
Garfield	7.4	7.0	0.9	1.0	8.3	8.0
Iron	11.8	10.4	8.0	8.1	19.8	18.5
Kane	3.4	3.7	0.3	0.4	3.7	4.1
Piute	5.6	6.4	0.8	0.8	6.4	7.2
Washington	6.5	6.9	4.9	5.0	11.4	11.9
Wayne	8.9	8.6	1.1	1.1	10.0	9.7
Total	60.5	60.8	18.9	19.6	79.4	80.4
STATE	549.6	556.3	171.3	182.0	720.9	738.3

1/ Revised

UTAH CASH RECEIPTS FROM FARMING

By Counties, 1992



County Estimates: Utah Mink Pelts Produced 1991-92, Females Bred to Produce Kits 1992-93 1/

County	Pelts Produced		Females Bred to Produce Kits	
	1991	1992	1992	1993
	Number			
NORTHERN				
Cache	80,000	79,000	19,000	18,000
Morgan	146,000	134,000	38,000	37,000
Salt Lake	66,000	52,000	15,000	13,000
Other	10,000	14,000	3,000	2,000
Total	302,000	279,000	75,000	70,000
CENTRAL				
Utah	251,000	280,000	65,000	69,000
Other	12,000	11,000	4,000	4,000
Total	263,000	291,000	69,000	73,000
EASTERN & SOUTHERN				
Summit	101,000	79,000	30,000	26,000
Other	4,000	2,000	1,000	1,000
Total	105,000	81,000	31,000	27,000
STATE	670,000	651,000	175,000	170,000

1/ Pelt estimates for 1993 not available until after July 21, 1994.

1992 Census of Agriculture: Farms, Land in Farms, and Selected Items, by County, Utah 1/

County	Number of Farms	Land in Farms	Average Size of Farms	Total Cropland	Harvested Cropland	Irrigated Land	Estimated Market Value of Land & Buildings	
							Average per Farm	Average per Acre
	Number			Acres			Dollars	
NORTHERN								
Box Elder	1,085	1,449,976	1,336	363,843	171,708	120,583	464,879	360
Cache	1,189	267,924	225	175,063	120,044	87,475	263,915	1,162
Davis	582	50,357	87	27,242	18,573	20,965	322,845	4,009
Morgan	258	234,576	909	17,012	9,474	7,960	414,725	473
Rich	143	493,073	3,448	78,618	45,631	56,389	861,753	255
Salt Lake	686	107,663	157	D	26,308	16,299	328,402	2,158
Tooele	300	437,238	1,457	37,063	13,882	16,479	360,822	244
Weber	945	256,522	271	50,283	27,860	31,758	231,593	832
CENTRAL								
Juab	203	332,686	1,639	71,294	25,270	20,097	632,776	376
Millard	612	484,156	791	181,377	86,933	88,841	451,119	604
Sanpete	696	447,463	643	107,147	49,073	99,061	327,858	482
Sevier	406	158,189	390	50,994	31,129	43,919	222,098	541
Utah	1,696	450,315	266	151,347	83,047	83,601	260,092	1,018
EASTERN								
Carbon	182	291,860	1,604	18,537	5,592	7,895	457,355	290
Daggett	29	21,958	757	D	3,544	6,891	419,810	554
Duchesne	733	399,011	544	124,081	57,788	117,280	275,612	481
Emery	420	240,535	573	55,447	18,787	31,669	209,940	377
Grand	88	63,116	717	5,293	2,355	3,096	384,654	536
San Juan	206	324,921	1,577	133,713	48,031	5,491	453,919	285
Summit	419	373,582	892	36,967	17,217	29,417	507,088	641
Uintah	716	1,294,703	1,808	D	42,273	70,011	288,422	161
Wasatch	274	139,347	509	17,547	10,130	15,000	648,324	1,013
SOUTHERN								
Beaver	215	192,288	894	39,958	27,149	33,519	290,607	327
Garfield	249	137,530	552	41,286	16,819	29,231	441,225	791
Iron	365	434,183	1,190	75,427	48,916	51,857	481,928	385
Kane	136	209,819	1,543	12,296	3,337	4,999	563,983	364
Piute	109	58,522	537	20,968	10,923	13,789	322,525	602
Washington	389	167,374	430	36,612	8,515	11,987	333,929	770
Wayne	189	105,576	559	D	13,039	16,955	280,672	530
STATE TOTAL	13,520	9,624,463	712	2,093,779	1,043,347	1,142,514	347,982	491

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

1/ Source: 1992 Census of Agriculture, U.S. Department of Commerce, Bureau of the Census.

1992 Census of Agriculture: Number of Farms by Value of Sales, by County, Utah 1/

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
	Number of Farms						
NORTHERN							
Box Elder	232	114	124	202	118	118	177
Cache	287	126	172	174	112	104	214
Davis	232	91	76	84	23	25	51
Morgan	93	40	24	36	10	18	37
Rich	12	11	15	19	21	29	36
Salt Lake	314	112	72	90	40	14	44
Tooele	110	35	45	51	28	17	14
Weber	398	153	113	121	52	38	70
CENTRAL							
Juab	48	22	31	38	35	7	22
Millard	92	44	80	128	94	74	100
Sanpete	155	67	78	132	77	59	128
Sevier	75	51	56	93	49	31	51
Utah	634	243	238	224	104	85	168
EASTERN							
Carbon	81	28	24	24	9	10	6
Daggett	5	2	4	6	2	7	3
Duchesne	152	98	113	151	89	82	48
Emery	131	66	70	70	45	21	17
Grand	35	11	7	13	9	7	6
San Juan	54	14	39	31	17	20	31
Summit	102	65	64	74	48	19	47
Uintah	234	127	103	107	59	47	39
Wasatch	110	40	41	30	19	13	21
SOUTHERN							
Beaver	46	17	23	36	25	17	51
Garfield	54	25	40	63	34	26	17
Iron	81	48	45	53	38	37	53
Kane	32	18	26	32	13	9	6
Piute	11	8	18	21	20	14	17
Washington	145	53	70	60	28	22	11
Wayne	24	22	34	54	23	17	15
STATE TOTAL	3,979	1,751	1,845	2,217	1,241	987	1,500

1/ Source: 1992 Census of Agriculture, U.S. Department of Commerce, Bureau of the Census.

1992 Census of Agriculture: Number of Farms by Total Land in Farms, by County, Utah 1/

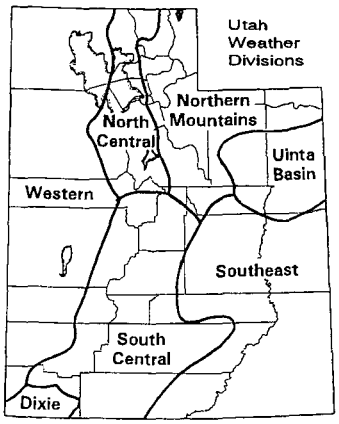
County	1 - 9 Acres	10 - 49 Acres	50 - 179 Acres	180 - 499 Acres	500 - 999 Acres	1,000 Plus Acres
			Number of Farms			
NORTHERN						
Box Elder	184	221	253	158	88	181
Cache	159	342	332	239	75	42
Davis	192	221	116	42	7	4
Morgan	57	86	45	31	12	27
Rich	6	15	17	25	23	57
Salt Lake	310	236	96	24	4	16
Tooele	51	70	58	35	33	53
Weber	238	401	201	71	21	13
CENTRAL						
Juab	10	19	53	38	30	53
Millard	41	82	154	153	74	108
Sanpete	55	138	210	153	63	77
Sevier	39	108	133	87	18	21
Utah	475	644	333	134	46	64
EASTERN						
Carbon	30	48	41	17	11	35
Daggett	2	2	6	8	1	10
Duchesne	37	144	223	183	81	65
Emery	23	92	116	107	36	46
Grand	26	26	14	10	4	8
San Juan	10	24	26	29	30	87
Summit	47	121	98	58	30	65
Uintah	72	227	179	106	62	70
Wasatch	35	113	66	33	11	16
SOUTHERN						
Beaver	19	48	55	46	19	28
Garfield	6	53	62	69	29	30
Iron	32	82	71	66	34	80
Kane	9	18	18	23	24	44
Piute	3	11	35	30	21	9
Washington	80	96	94	44	33	42
Wayne	14	47	71	38	7	12
STATE TOTAL	2,262	3,735	3,176	2,057	927	1,363

1/ Source: 1992 Census of Agriculture, U.S. Department of Commerce, Bureau of the Census.

Weather

Gaylen L. Ashcroft, Associate Director, Utah Climate Center
Utah State University, Logan, Utah 84322-4825

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



Precipitation Summary: Overall, 1993 was a wet year with the months of January, February, and October being well above normal for all divisions. All divisions were exceptionally dry in September, reporting less than 50 percent of normal. November and December were also notably dry.

PRECIPITATION, Percent of Normal, by Climate Division, 1993

Division	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Western	398	233	113	37	86	116	56	80	43	102	59	32
Dixie	461	371	93	16	75	34	0	110	6	162	120	67
No. Central	202	128	108	86	138	175	193	81	40	156	28	52
So. Central	369	281	109	37	114	114	25	98	34	160	71	55
N. Mountains	205	157	101	97	188	187	136	121	35	133	55	41
Uinta Basin	223	156	291	109	135	65	33	180	45	180	84	9
Southeast	385	207	88	99	407	9	8	106	6	183	34	65

Temperature Summary: The 1993 year was slightly warmer than normal throughout most of the state. The Uintah Basin division was cooler than normal for most of the year. All divisions in March and May were notably cooler than normal, while June, July, and November were warmer than normal.

MEAN TEMPERATURE, Departure from Normal, by Climate Division, 1993

Division	Month											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Western	2.9	4.9	-2.4	0.4	-2.3	4.3	5.7	2.4	0.9	1.1	5.6	-0.2
Dixie	-1.1	1.5	-3.4	-1.1	-2.3	2.2	2.2	0.2	-0.9	0.2	3.8	-0.3
No. Central	2.4	4.3	-0.9	1.3	-4.0	4.5	7.4	2.7	0.4	0.5	5.1	-1.4
So. Central	-0.7	2.6	-2.2	-0.6	-2.5	2.6	3.1	1.2	0.1	1.0	4.0	0.5
N. Mountains	1.8	4.0	-1.2	2.1	-2.4	4.6	6.0	2.8	0.7	1.3	5.1	-0.8
Uinta Basin	5.4	5.7	-2.6	-5.5	-8.9	-4.0	-1.7	-3.5	-4.6	-2.6	2.3	-2.1
Southeast	2.2	4.2	-1.7	-0.7	-4.5	1.9	3.7	0.8	-0.9	0.0	4.1	-0.9

Freeze Dates and Freeze-Free Period, Utah, 1993 and Averages

Station	1993			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						
Delta	May 09	Sep 14	128	May 16	Sep 28	135
Enterpirse Beryl Jct	Jun 03	Aug 13	71	Jun 08	Sep 14	97
Eskdale	May 09	Sep 14	128	May 28	Sep 23	118
Modena	Jun 03	Sep 14	103	May 31	Sep 22	114
Rosette/Pk Valley	May 05	Oct 08	156	May 28	Sep 22	117
Wendover AUTOB	Apr 13	Oct 24	194	Apr 16	Oct 23	190
DIXIE						
St. George	Mar 02	Nov 06	249	Mar 29	Nov 01	216
Zion Nat'l Park	May 05	Oct 27	175	Apr 15	Nov 01	200
NORTH CENTRAL						
Corinne	Apr 27	Oct 19	175	May 13	Sep 29	139
Farmington Fld Stn	May 09	Oct 29	173	May 05	Oct 10	158
Logan USU	Apr 15	Oct 27	195	May 06	Oct 11	158
Ogden Pioneer PH	Apr 12	Oct 30	201	May 04	Oct 12	161
Pleasant Grove	Apr 20	Oct 27	190	May 11	Oct 10	152
Provo BYU	Apr 08	Oct 10	185	Apr 23	Oct 15	175
SLC Airport	Apr 14	Oct 29	198	Apr 26	Oct 16	173
Tooele	May 08	Oct 29	204	May 03	Oct 14	164
Tremonton	Apr 14	Oct 28	197	Apr 21	Oct 28	189
Trenton/Lewiston	Jun 13	Aug 30	78	May 26	Sep 15	112
SOUTH CENTRAL						
Bryce Can N P HQ	Jun 10	Sep 14	96	Jun 19	Sep 03	75
Cedar City FAA	May 09	Sep 14	128	May 19	Oct 02	135
Escalante	May 06	Oct 09	156	May 17	Oct 02	138
Fillmore	Apr 19	Oct 09	173	May 14	Oct 05	144
Kanab PH	May 05	Oct 23	177	May 04	Oct 23	171
Levan	May 09	Sep 14	128	May 22	Sep 28	129
Loa	Jun 12	Aug 13	62	Jun 13	Sep 05	83
Manti	May 09	Sep 14	128	May 22	Sep 27	128
Nephi	May 09	Sep 14	128	May 15	Oct 01	138
Panguitch	Jul 18	Aug 13	26	Jun 20	Sep 02	73
Richfield Radio	May 10	Sep 14	127	May 26	Sep 19	116
NORTHERN MOUNTAINS						
Heber	Jun 31	Sep 13	75	Jun 11	Sep 04	84
Morgan	M	Sep 13	M	Jun 05	Sep 10	96
Orem	May 09	Oct 28	166	May 03	Oct 15	165
Scofield-Skyline	Jul 05	Sep 24	81	Jun 24	Sep 05	72
Silver Lk Brighton	Jul 06	Jul 27	21	Jul 01	Aug 27	57
Woodruff	Jul 09	Aug 27	49	Jun 25	Aug 21	56
UINTA BASIN						
Duchesne	May 08	Oct 10	155	May 24	Sep 20	119
Fort Duchesne	May 09	Sep 13	127	May 24	Sep 20	119
Jensen	May 10	Sep 14	127	May 22	Sep 17	118
Myton	May 10	Sep 14	127	May 21	Sep 29	130
SOUTHEAST						
Arches N P Hq	Mar 14	Oct 27	166	Apr 08	Oct 26	201
Blanding	May 05	Oct 27	175	May 14	Oct 11	149
Ferron	May 09	Oct 09	153	May 18	Oct 01	136
Green River Avn	May 09	Oct 27	171	May 02	Oct 04	154
Hanksville	May 02	Sep 27	148	May 07	Oct 08	154
Moab	Mar 14	Oct 30	169	Apr 18	Oct 16	181
Price Warehouse	Apr 21	Oct 10	181	May 12	Oct 06	147

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

Mean Monthly Temperature (°F), Utah, 1993

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
WESTERN													
Delta	24.3	29.6	44.1	47.9	60.1	62.5	69.6	70.8	62.2	49.5	32.5	28.2	48.4
Enterprise	30.3	30.9	41.6	45.8	55.2	60.5	67.8	67.1	57.2	47.5E	33.1	27.8	47.1E
Eskdale	20.9	26.7	43.8	49.6	61.4	64.2	72.1	72.6	62.9	49.8	33.4	29.1	48.9
Modena	29.3	29.6	42.6	47.5	56.8	62.1	69.1	69.0	60.9	49.6	33.9	29.4	48.3
Rosette	20.9	23.4	37.7	41.5	55.2	56.8	61.1	64.6	59.0	47.0	28.6	26.3	43.5
Wendover	15.4	24.5	42.5	48.6	63.6	64.5	71.3	73.0	64.5	50.8	30.6	26.3	48.0
Average	23.5	27.5	42.1	46.8	58.7	61.8	68.5	69.5	61.1	49.0	32.0	27.9	40.6
DIXIE													
St. George	42.8	45.9	56.0	62.0	73.0	78.6	84.4	84.0	76.2	64.4	47.4	41.6	63.0
Zion Nat'l Park	40.0	42.7	53.3	58.3	68.6	73.9	80.8	80.5	74.7	61.7	45.0	40.6	60.0
Average	41.4	44.3	54.7	60.2	70.8	76.3	82.6	82.3	75.5	63.1	46.2	41.1	61.5
NORTH CENTRAL													
Corinne	21.2	25.7	40.4	46.6	60.6	61.1	65.6	69.2	61.1	50.0	32.4	29.6	47.0
Farmington	26.2	30.9	43.6	48.9	61.7	63.3	67.9	72.4	64.5	52.2	34.5	31.4	49.8
Logan USU	20.8	23.7	37.8	44.9	59.6	60.3	64.5	68.3	61.1	49.4	31.7	26.3	45.7
Ogden Pioneer PH	25.9	28.9	43.3	49.3	63.5	64.6	69.3	72.6	64.3	52.2	36.0	31.0	50.1
Pleasant Grove	28.6E	30.7	43.4	49.7	62.0	63.6	69.7	70.9	64.1	52.2	36.1	31.8	50.2E
Provo BYU	29.6	31.9	44.6	51.2	63.7	66.2	72.6	73.0	64.5	52.2	36.1	32.3	51.5
SLC Airport	24.9	29.5	45.4	48.5	63.4	63.7	69.9	72.5	65.4	52.6	34.8	31.5	50.2
Tooele	22.2	25.5	39.1	46.1	61.9	62.1	68.5	69.9	64.1	51.1	34.0	30.0	47.9
Tremonton	21.0	24.8	40.0	46.6	60.4	61.1	65.7	69.6	61.5	49.6	31.8	28.7	46.7
Trenton	15.7	20.2	34.5	43.1	56.3	57.1	59.0	62.4	54.2	45.0	27.0	22.5	41.4
Average	23.6	27.2	41.2	47.5	61.3	62.3	67.3	70.1	62.5	50.7	33.4	29.5	48.1
SOUTH CENTRAL													
Bryce Can N P HQ	21.4	22.9	32.1	38.5	48.7	53.9	62.8	59.7	52.0	41.8	27.9	22.7	40.4
Cedar City FAA	31.6	32.8	43.6	47.5	58.8	62.9	70.9	71.2	63.0	50.5	36.4	30.1	50.0
Escalante	29.5	32.5	43.9	50.4	59.3	64.9	71.4	69.3	62.7	50.7	36.3	29.4	50.0
Fillmore	28.2	30.8	45.1	49.7	62.0	64.6	71.0	72.0	64.5	51.7	35.4	30.0	50.4
Kanab PH	36.2	39.0	48.3	52.7	61.7	68.1	73.6	73.6	66.8	55.8	41.9	36.2	54.5
Levan	27.4	29.9	39.9	48.8	61.1	63.7	69.0	70.5	64.7	51.9	34.7	29.5	49.3
Loa	22.6	21.8	34.6	40.6	50.9	55.4	61.7	60.6	54.3	43.1	29.0	22.8E	41.5E
Manti	26.0	27.4	38.5	45.1	56.8	59.7	66.2	67.2	59.4	48.2	32.5	26.7	46.2
Nephi	27.5	29.6	41.8	48.0	60.3	63.0	69.8	70.1	62.8	49.9	33.7	29.5	48.8
Panguitch	25.4	26.6	36.3	42.9	51.7	57.2	63.1	62.6	54.4	44.6	31.2	24.3	43.4
Richfield Radio	27.1E	31.3	42.5	47.5	57.4	62.2	67.4	67.2	59.6	48.3	33.2	26.0	47.5E
Average	27.5	29.5	40.6	46.5	57.2	61.4	67.9	67.6	60.4	48.8	33.8	27.9	47.5
NORTHERN MOUNTAINS													
Heber	20.0	23.2	34.9	45.2	56.5	59.1	64.1	65.3	58.0	47.1	31.0	28.2	44.4
Olmstead PH	27.5	30.3	42.3	48.7	62.0	63.1	69.0	70.4	64.1	53.0	36.7	32.9	50.0
Scofield-Skyline	21.5	21.1	31.5	33.3	45.8	49.0	55.9	56.6	50.4	39.7	24.8	22.1	37.6
Silver Lk Brighton	19.9	20.6	30.7	30.2	42.6	45.9	52.4	54.2	47.8	35.9	21.9	20.1	35.2
Woodruff	8.3	7.8	27.9	37.8	50.2	52.5	55.8	57.5	50.2	40.9	21.4	14.2	35.4
Average	19.4	20.6	33.5	39.0	51.4	53.9	59.4	60.8	54.1	43.3	27.2	23.5	40.5
UINTA BASIN													
Duchesne	16.6	17.9	35.3	46.6	57.4	61.8	66.8	65.8	59.6	47.2	29.8	25.3	44.2
Fort Duchesne	16.2	18.8	35.1	46.9	58.8	63.2	68.5	68.2	59.6	47.5	29.9	24.8	44.8
Jensen	13.7	19.6	34.2	47.0	58.6	63.3	66.7	67.3	59.4	47.4	29.6	24.5	44.3
Myton	16.8	19.3	35.0	46.1	56.8	61.8	66.6	67.0	59.2	46.9	30.6	24.5	44.2
Average	15.8	18.9	34.9	46.7	57.9	62.5	67.2	67.1	59.5	47.3	30.0	24.8	44.4
SOUTHEAST													
Arches N P Hq	34.9	39.2	50.4	55.3	66.5	74.0	80.1	79.4	70.3	55.7	39.3	33.2	56.5
Blanding	32.3	35.1	44.9	50.6	60.2	66.9	73.7	70.7	64.6	51.9	37.2	32.4	51.7
Ferron	24.4	28.9	42.0	47.8	59.3	64.3	69.2	69.2	62.7	49.2	31.7	26.6	47.9
Green River Avn	32.0	37.6	48.3	53.8	65.3	71.3	75.5	75.5	66.1	53.0	36.0	30.7	53.8
Hanksville	31.2	37.0	46.3	53.0	63.4	71.8	77.3	75.6	66.0	51.6	34.5	28.5	53.0
Moab	32.9	36.9	50.0	59.0	69.9	77.3	82.9	81.5	73.2	59.0	42.7	36.3	58.5
Average	31.3	35.8	47.0	53.3	64.1	70.9	76.5	75.3	67.2	53.4	36.9	31.3	53.6

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

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

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
WESTERN													
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	59.5	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	33.6	39.4	46.7	55.3	65.1	72.0	70.2	61.2	50.5	38.3	29.0	49.1
Rosette/Park Valley	24.2	28.7	37.4	47.8	57.4	66.3	73.0	70.8	61.1	49.3	34.6	20.4	47.2
Wendover AUTOB	26.8	33.7	42.2	50.7	60.8	70.5	79.8	76.6	65.5	52.0	38.5	27.7	52.1
Average	26.20	35.52	39.92	47.93	57.18	66.62	74.18	71.90	62.05	50.32	37.40	26.55	49.31
DIXIE													
St. George	40.3	46.5	52.8	60.5	70.0	79.3	85.6	83.4	75.0	63.3	50.1	40.6	62.3
Zion Nat'l Park	40.2	45.0	49.7	57.5	67.1	77.5	83.9	81.5	74.2	63.3	49.8	41.1	60.9
Average	40.25	45.75	51.25	59.00	68.55	78.40	84.75	82.45	74.60	63.30	49.95	40.85	61.60
NORTH CENTRAL													
Corinne	24.0	30.4	39.0	47.4	56.9	65.9	73.7	71.8	61.4	50.0	37.0	26.8	48.7
Farmington USU	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	23.4	28.5	37.0	46.2	55.5	64.4	72.9	71.4	61.2	50.0	36.9	25.7	47.8
Ogden Pioneer PH	27.7	33.4	41.1	49.6	58.9	68.6	76.9	74.7	64.4	52.9	39.8	29.6	51.5
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
Prove 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	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/Garland	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
Trenton	20.0	26.2	37.5	46.3	52.9	62.1	68.4	66.8	57.9	47.1	34.2	23.8	45.3
Average	25.96	31.52	40.36	48.76	57.33	66.85	74.64	72.77	62.84	51.14	38.58	28.11	49.92
SOUTH CENTRAL													
Bryce Canyon N P 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	75.5	73.4	66.2	56.4	44.7	36.4	54.4
Levan	25.3	31.4	38.8	46.8	55.7	65.4	73.2	71.2	62.2	50.8	38.3	27.5	48.9
Loa	23.7	28.2	34.0	41.9	50.1	58.6	65.0	62.7	55.0	45.0	33.4	25.0	43.6
Manti	25.4	30.7	37.9	45.9	54.4	63.6	70.7	68.6	59.9	49.6	37.3	27.2	47.6
Nephi	27.5	33.0	40.1	48.1	57.2	67.0	75.1	73.1	63.5	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	34.5	25.8	44.3
Richfield Radio	27.0	33.0	39.6	46.9	55.2	64.0	70.9	68.9	60.4	49.7	37.9	28.5	48.5
Average	26.88	32.12	38.37	45.96	54.66	63.98	70.97	68.83	60.45	49.81	37.79	28.45	48.20
NORTHERN MOUNTAINS													
Heber	21.2	26.3	34.8	43.5	51.9	60.1	67.4	65.7	57.1	47.0	34.9	24.0	44.5
Olmstead PH	28.0	32.9	41.5	50.6	57.5	68.8	75.1	73.4	64.3	53.2	39.9	30.4	51.3
Scofield-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 Lk Brighton	19.6	21.1	25.0	32.2	40.7	50.1	58.2	56.3	48.4	38.6	27.0	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	20.96	24.02	31.54	40.44	48.08	57.80	64.64	62.84	54.18	44.00	31.72	22.30	41.88
UINTA BASIN													
Duchesne	18.4	25.4	36.6	46.8	56.0	64.7	71.2	69.4	59.6	48.1	34.2	21.1	46.0
Fort Duchesne	14.4	21.6	35.7	46.3	56.0	65.0	72.1	69.5	59.4	47.8	33.6	19.7	45.1
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
Myton	15.2	23.5	36.4	47.1	56.1	65.5	72.3	69.9	60.6	48.3	33.6	20.1	45.7
Average	15.73	23.33	36.28	46.80	56.20	65.10	71.90	69.53	59.85	48.05	33.78	20.08	45.55
SOUTHEAST													
Arches N P 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	25.7	47.8
Green River Avn	22.8	33.2	42.9	52.4	61.9	71.6	78.6	75.6	65.3	52.9	39.1	27.1	51.9
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	48.1	56.9	66.2	75.3	81.6	79.7	70.1	57.6	44.4	33.2	56.8
Average	26.28	34.47	43.37	52.20	61.73	71.60	78.03	75.58	66.17	53.80	40.47	29.48	52.75

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

Total Precipitation (Inches), Utah, 1993

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
WESTERN													
Delta	1.75	0.96	1.24	0.04	0.87	0.78	0.40	0.46	0.64	0.64	0.50	0.28	8.56
Enterprise Beryl Jct	2.89	2.76	1.04	0.52	1.48	0.66	0.37	0.50	0.04	0.76E	0.49	0.38	11.89E
Eskdale	0.91	0.64	0.73	0.25	0.55	0.18	0.19	0.56	0.46	0.78	0.25	0E	5.50E
Modena	4.38	2.94	0.91	0.27	0.51	0.57	0.42	0.89	0.00	0.66	1.02	0.18	12.75
Rosette/Pk Valley	1.95	1.36	1.69	0.66	0.81	1.77	0.82	1.74	0.67	1.53	0.11	0.23	13.34
Wendover	1.00	0.13	0.19	0.04	0.13	0.37	0.60	0.01	0.24	0.51	0.01	0.00	3.23
Average	2.15	1.47	0.97	0.30	0.73	0.72	0.47	0.69	0.34	0.81	0.40	0.18	9.21
DIXIE													
St. George	4.74	2.69	0.83	0.09	0.10	0.09	0.00	0.76	0.00	0.91	0.54	0.34	11.09
Zion Nat'l Park	7.53	6.37	2.10	0.17	0.82	0.13	0.00	2.05	0.10	1.42	2.23	0.99	23.91
Average	6.14	4.53	1.47	0.13	0.46	0.11	0.00	1.41	0.05	1.17	1.39	0.67	17.50
NORTH CENTRAL													
Corinne	2.55	1.54	2.14	2.01	1.91	2.63	2.67	1.19	1.38	2.33	0.43	0.36	21.14
Farmington Fld Stn	4.25	2.60	2.83	1.92	4.20	2.80	1.41	0.49	0.88	3.46	0.59	1.05	26.48
Logan USU	1.16	1.19	2.35	3.18	2.32	2.42	2.79	0.78	0.37	2.62	0.50	0.91	20.59
Ogden Pioneer PH	2.86	2.42	1.83	2.38	3.47	3.91	2.73	0.88	0.37	4.38	0.76	0.91	26.90
Pleasant Grove	3.39E	2.69	2.25	0.52	2.89	1.09	1.00	1.02	0.98	1.67	0.51	0.96	18.97E
Provo BYU	4.60	3.21	2.87	0.87	3.15	1.70	1.09	1.03	0.94	2.54	0.68	1.24	23.92
SLC Airport	3.23	1.35	1.37	1.54	3.99	1.14	1.38	0.46	0.22	2.77	0.54	0.88	18.87
Tooele	3.31	2.31	2.27	1.03	3.96	0.99	1.41	0.46	0.20	2.66	0.67	1.46	20.73
Tremonton	2.30	1.67	2.01	1.91	1.85	2.67	2.05	0.69	0.47	2.91	0.07	0.31	18.91
Trenton/Lewiston	2.12	1.75	2.51	2.72	2.46	2.13	1.67	0.79	0.73	1.98	0.14	0.62	19.62
Average	2.98	2.07	2.24	1.81	3.02	2.15	1.82	0.78	0.65	2.73	0.49	0.87	21.61
SOUTH CENTRAL													
Bryce Can N P HQ	7.38	6.07	0.91	0.05	1.92	0.42	0.18	3.85	0.16	2.51	1.20	0.41	25.06
Cedar City FAA	2.49	2.00	0.95	0.97	0.54	0.74	0.29	0.29	0.04	1.52	0.80	0.37	11.00
Escalante	4.44	3.06	0.52	0.02	0.44	0.24	0.12	1.72	0.03	1.56	0.33	0.06	12.54
Fillmore	2.73	2.08	1.23	0.76	1.77	1.13	0.52	0.79	0.41	1.96	1.60	0.98	15.96
Kanab PH	7.45	4.13	1.42	0.06	0.22	0.56	0.01	1.67	0.00	2.61	0.78	0.66	19.57
Levan	3.24	2.91	2.32	0.59	1.74	1.05	0.40	1.49	0.79	1.31	0.55	0.78	17.17
Loa	1.11	1.27	1.20	0.00	0.90	0.48	0.00	0.64	0.48	1.06	0.28	0.08E	7.50E
Manti	2.20	1.96	2.37	0.69	1.04	1.13	0.48	0.71	0.73	1.41	1.12	0.89	14.73
Nephi	2.89	2.20	2.45	0.59	1.67	1.25	0.29	1.54	0.82	1.65	0.91	1.04	17.30
Panguitch	2.45	2.46	0.65	0.12	0.64	0.41	0.22	1.14	0.00	1.77	0.36	0.26	10.48
Richfield	1.40E	0.96	1.59	0.48	1.85	0.39	0.34	0.30	0.89	1.16	0.21	0.25	9.82E
Average	3.43	2.65	1.42	0.39	1.16	0.71	0.26	1.29	0.40	1.68	0.74	0.53	14.65
NORTHERN MOUNTAINS													
Heber	3.94	2.31	1.45	1.22	3.20	1.65	1.67	0.67	0.51	1.92	0.69	0.32	19.55
Olmstead PH	3.53	3.66	3.00	0.91	3.92	1.96	1.00	0.94	0.97	2.72	0.66	1.01	24.28
Scofield-Skyline	4.47	5.33	2.58	2.04	2.35	1.62	0.61	2.44	0.74	2.23	2.03	0.93	27.37
Silver Lk Brighton	8.13	5.91	4.90	4.74	5.69	4.21	3.57	1.58	0.63	4.06	2.68	1.91	48.01
Woodruff	1.56	0.80	0.37	0.95	2.23	1.25	0.60	1.70	0.18	1.78	0.45	0.13	12.00
Average	4.33	3.60	2.46	1.97	3.48	2.14	1.49	1.47	0.61	2.54	1.30	0.86	26.24
UINTA BASIN													
Duchesne	0.96	0.79	1.87	0.82	1.11	0.45	0.13	1.73	0.68	1.47	0.32	0.10	10.43
Fort Duchesne	0.88	0.67	1.41	0.78	1.30	0.71	0.23	1.07	0.25	1.65	0.23	0.06	9.24
Jensen	1.34	0.74	1.97	0.73	1.06	0.35	0.38	1.07	0.48	2.03	0.49	0.00	10.64
Myton	0.46	0.45	1.21	0.67	0.77	0.31	0.18	1.38	0.15	1.39	0.56	0.03	7.56
Average	0.91	0.66	1.62	0.75	1.06	0.46	0.23	1.31	0.39	1.64	0.40	0.05	9.47
SOUTHEAST													
Arches N P HQ	2.48	1.67	0.75	0.45	2.20	0.05	0.10	1.36	0.27	2.97	0.40	0.10	12.80
Blanding	5.31	3.73	0.73	0.59	1.62	0.12	0.01	1.79	0.83	1.43	1.08	0.42	17.66
Ferron	1.82	2.01	1.40	0.31	0.23	0.26	0.01	0.68	0.10	2.21	0.90	0.10	10.03
Green River Avn	1.79	1.42	0.95	0.37	1.03	0.08	0.05	0.47	0.11	2.16	0.48	0.15	9.06
Hanksville	1.25	0.66	0.31	0.24	0.97	0.07	0.11	0.38	0.07	1.20	0.12	0.06	5.44
Moab	2.06	1.04	0.66	0.62	2.60	0.04	0.07	1.04	0.05	1.93	0.22	0.38	10.71
Average	2.45	1.76	0.80	0.43	1.44	0.10	0.06	0.95	0.24	1.98	0.53	0.20	10.95

Source: Utah Climate Center, Utah State University, Logan, Utah 84322-4825
E = Estimated.

Normal Precipitation (Inches), Utah, 1961-90

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
WESTERN													
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	8.11
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	10.21
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	6.18
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/Park Valley	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
Wendover AUTOB	0.22	0.32	0.42	0.56	0.90	0.65	0.29	0.45	0.38	0.54	0.39	0.28	5.39
Average	0.52	0.62	0.81	0.77	0.86	0.64	0.83	0.85	0.76	0.78	0.66	0.54	8.63
DIXIE													
St. George	1.07	0.84	1.11	0.51	0.39	0.17	0.60	0.76	0.54	0.52	0.84	0.71	8.06
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	15.42
Average	1.33	1.22	1.58	0.83	0.62	0.33	0.93	1.28	0.77	0.72	1.15	1.00	11.74
NORTH CENTRAL													
Corinne	1.42	1.56	1.54	1.79	1.91	1.34	0.77	0.89	1.63	1.64	1.59	1.55	17.63
Farmington USU	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	19.47
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	1.59	17.10
Provo BYU	1.59	1.94	2.50	1.77	2.12	1.21	1.29	1.41	2.08	2.13	2.05	1.91	21.99
SLC Airport	1.11	1.24	1.91	2.12	1.80	0.93	0.81	0.86	1.28	1.44	1.29	1.40	16.20
Tooele	1.08	1.33	2.32	2.49	1.91	1.12	0.92	0.94	1.42	1.81	1.69	1.48	18.49
Tremonton/Garland	1.36	1.46	1.88	1.59	2.61	1.00	1.49	0.76	1.89	1.45	1.63	1.45	18.58
Trenton/Lewiston	1.34	1.64	1.97	1.89	2.63	1.11	0.94	0.98	1.63	1.56	1.68	1.41	18.78
Average	1.47	1.62	2.07	2.11	2.19	1.23	0.94	0.96	1.62	1.75	1.72	1.66	19.35
SOUTH CENTRAL													
Bryce Canyon N P Hq	1.16	1.35	1.52	0.95	1.03	0.57	1.51	2.20	1.70	1.20	1.20	1.10	15.47
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	11.49
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	10.04
Fillmore	1.27	1.26	2.08	1.82	1.43	0.90	0.75	0.87	1.21	1.38	1.46	1.48	15.91
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
Levan	1.21	1.23	1.65	1.52	1.45	0.87	0.82	0.97	1.38	1.36	1.29	1.39	15.15
Loa	0.42	0.26	0.51	0.43	0.73	0.51	1.11	1.52	0.99	0.64	0.39	0.34	7.85
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	13.74
Nephi	1.19	1.19	1.71	1.51	1.39	0.82	0.86	1.01	1.19	1.26	1.39	1.33	14.85
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	10.32
Richfield Radio	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	0.93	0.94	1.31	1.05	1.02	0.62	1.03	1.32	1.16	1.05	1.04	0.95	12.43
NORTHERN MOUNTAINS													
Heber	1.78	1.56	1.37	1.37	1.23	0.90	0.87	0.98	1.26	1.45	1.64	1.62	16.01
Olmstead PH	1.91	2.02	2.54	1.63	2.38	0.75	0.92	1.27	2.01	1.94	2.19	1.57	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	23.68
Silver Lk Brighton	4.92	4.76	5.31	4.42	2.96	1.84	1.69	1.95	2.58	3.49	4.87	4.90	43.68
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	2.17	2.38	2.53	1.97	1.83	1.11	1.18	1.25	1.75	1.95	2.45	2.13	22.71
UINTA BASIN													
Duchesne	0.43	0.50	0.64	0.84	0.91	0.90	0.97	1.00	1.17	0.94	0.52	0.73	9.55
Fort Duchesne	0.35	0.32	0.46	0.59	0.72	0.63	0.61	0.66	0.70	0.86	0.37	0.45	6.72
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	8.13
Myton	0.39	0.36	0.51	0.61	0.73	0.64	0.59	0.66	0.70	0.82	0.42	0.37	6.80
Average	0.41	0.43	0.56	0.69	0.78	0.70	0.71	0.73	0.87	0.91	0.48	0.55	7.80
SOUTHEAST													
Arches N P 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	12.60
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 Avn	0.40	0.32	0.59	0.50	0.61	0.41	0.57	0.74	0.71	0.87	0.41	0.39	6.52
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	0.74	0.65	9.00
Average	0.61	0.46	0.75	0.66	0.64	0.42	0.88	0.99	0.85	1.03	0.66	0.60	8.53

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

Accumulated Growing Degree Days Base 50, by Months, Utah, 1993

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
WESTERN													
Delta	0	2	142	199	412	421	578	610	459	226	30	25	3,101
Enterprise Beryl Jct	3	0	138	225	390	424	577	571	460	182E	65	20	3,052E
Eskdale	0	0	127	238	449	472	631	649	471	250	42	24	3,351
Modena	2	0	130	225	394	440	580	595	473	269	53	16	3,173
Rosette/Pk Valley	0	0	42	68	292	306	404	485	363	160	12	3	2,133
Wendover AUTOB	0	0	77	125	459	439	639	698	446	156	3	0	3,041
Average	1	0	109	180	399	417	568	601	445	207	34	14	2,975
DIXIE													
St. George	44	83	307	427	653	716	850	861	670	477	182	97	5,363
Zion Nat'l Park	35	43	276	371	575	625	775	779	646	423	151	78	4,774
Average	40	63	291	399	614	670	812	820	658	450	166	87	5,068
NORTH CENTRAL													
Corinne	0	0	77	134	401	375	495	583	417	209	23	9	2,721
Farmington Fld Stn	0	0	96	173	430	427	538	648	473	235	22	20	3,060
Logan USU	0	1	48	83	366	356	459	568	388	158	5	3	2,431
Ogden Pioneer PH	0	1	87	146	474	458	582	678	456	197	14	11	3,101
Pleasant Grove	0E	2	100	190	438	437	584	633	465	228	36	20	3,131E
Provo BYU	2	4	119	221	480	488	615	646	484	252	42	26	3,377
SLC Airport	0	0	97	140	468	425	586	660	476	218	15	19	3,101
Tooele	0	1	79	149	444	399	560	601	461	201	13	14	2,918
Tremonton	0	0	67	117	385	372	493	605	409	173	7	5	2,631
Trenton	0	0	51	96	348	341	421	493	367	171	9	0	2,294
Average	0	1	82	145	423	408	533	611	439	204	18	12	2,876
SOUTH CENTRAL													
Bryce Can N P Hq	0	0	7	73	219	297	455	385	297	108	4	0	1,843
Cedar City FAA	2	1	124	193	377	443	617	629	474	249	57	22	3,185
Escalante	1	0	138	245	412	479	600	577	476	243	41	12	3,222
Fillmore	0	1	127	200	436	462	609	657	482	221	29	24	3,245
Kanab	16	5	198	265	450	517	644	668	531	318	99	45	3,752
Levan	0	2	93	211	432	433	550	597	490	257	42	16	3,122
Loa	0	0	40	123	265	356	476	447	377	170	13	11E	2,276E
Manti	1	0	53	122	332	363	522	539	395	176	14	12	2,527
Nephi	0	3	119	213	425	439	586	602	479	239	37	23	3,162
Panguitch	0	0	76	193	343	421	535	512	445	221	36	8	2,787
Richfield Radio	0E	2	123	200	380	431	559	563	448	223	34	20	2,981E
Average	2	1	100	185	370	422	559	561	445	220	37	17	2,918
NORTHERN MOUNTAINS													
Heber	0	0	40	158	375	397	514	541	443	208	31	14	2,718
Olmstead PH	2	2	90	180	449	424	562	605	465	234	39	21	3,070
Scofield-Skyline	0	0	2	14	169	207	319	321	237	66	0	0	1,334
Silver Lk Brighton	0	0	1	2	114	150	248	277	185	53	0	0	1,029
Woodruff	0	0	19	54	263	271	383	403	317	125	2	0	1,834
Average	0	0	30	82	274	290	405	429	329	137	14	7	1,997
UINTA BASIN													
Duchesne	0	0	60	157	345	411	536	506	398	163	7	2	2,584
Fort Duchesne	0	0	61	174	377	444	548	564	431	181	5	0	2,783
Jensen	0	0	69	191	405	455	546	555	447	194	7	0	2,868
Myton	0	0	63	174	247	424	532	536	420	178	23	0	2,594
Average	0	0	63	174	343	433	540	540	424	179	10	0	2,707
SOUTHEAST													
Arches N P Hq	7	21	221	292	536	633	767	784	577	294	57	12	4,198
Blanding	1	5	127	221	384	510	670	614	474	229	31	9	3,272
Ferron	0	0	95	175	371	467	578	575	451	207	14	0	2,931
Green River Avn	0	14	248	294	515	569	644	685	531	277	41	8	3,823
Hanksville	5	19	232	308	483	579	664	679	525	274	50	5	3,820
Moab	5	11	229	372	587	696	799	802	620	352	93	31	4,595
Average	3	12	192	277	479	575	687	690	529	272	47	11	3,773

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

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

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
WESTERN													
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	425	280	93	21	3,191
Eskdale	20	49	125	222	391	519	662	624	460	280	94	21	3,466
Modena	18	39	108	218	365	498	612	587	442	293	94	22	3,295
Rosette/Pk Valley	0	4	32	111	252	397	609	570	369	187	30	0	2,566
Wendover AUTOB	5	15	69	180	377	579	815	747	474	202	30	4	3,497
Average	11	30	91	193	352	498	659	622	437	254	70	13	3,229
DIXIE													
St. George	79	157	272	403	568	697	838	812	628	456	220	80	5,208
Zion Nat'l Park	67	120	204	338	539	705	845	818	665	460	192	77	5,030
Average	73	139	238	370	553	701	841	815	647	458	206	79	5,119
NORTH CENTRAL													
Corinne	1	13	59	166	329	481	656	623	418	232	37	2	3,016
Farmington Fld Stn	4	22	82	195	360	524	707	669	461	247	60	5	3,338
Logan USU	1	6	38	128	281	450	672	636	390	196	33	2	2,831
Ogden Pioneer PH	3	18	72	180	356	542	744	703	461	250	57	5	3,391
Pleasant Grove	6	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	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
Trenton	0	6	51	181	283	445	568	545	391	223	38	2	2,733
Average	3	17	70	181	335	509	692	657	440	237	53	5	3,199
SOUTH CENTRAL													
Bryce Can N P 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	33	98	200	361	525	687	654	470	273	82	12	3,407
Kanab	41	81	149	258	416	550	678	657	505	352	149	54	3,890
Levan	3	20	82	184	336	487	648	615	443	269	77	7	3,171
Loa	7	17	51	138	266	398	510	460	341	205	53	11	2,456
Manti	4	15	67	162	306	458	612	571	394	235	62	7	2,893
Nephi	7	26	92	199	359	509	662	640	460	286	88	13	3,341
Panguitch	9	21	69	165	300	439	536	500	387	253	78	14	2,771
Richfield Radio	14	39	107	211	353	484	605	578	444	289	95	21	3,239
Average	11	30	84	182	329	475	609	574	420	260	80	16	3,070
NORTHERN MOUNTAINS													
Heber	1	8	44	142	289	419	556	527	383	238	55	5	2,667
Olmstead PH	5	22	79	218	337	538	688	659	465	266	70	12	3,357
Scofield-Skyline	0	0	6	46	112	286	375	347	202	88	10	0	1,474
Silver Lk 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	30	104	209	359	492	462	310	167	34	4	2,178
UINTA BASIN													
Duchesne	2	10	66	187	352	469	613	583	396	216	37	1	2,931
Fort Duchesne	1	7	61	183	341	470	589	557	400	223	41	1	2,875
Jensen	1	11	76	210	373	486	608	549	423	250	48	2	3,035
Myton	1	11	67	187	316	455	580	561	390	220	42	2	2,831
Average	1	10	67	192	346	470	597	582	403	227	42	1	2,918
SOUTHEAST													
Arches N P 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	238	55	3	2,981
Green River Avn	6	43	142	278	434	568	708	649	486	309	88	6	3,716
Hanksville	12	51	167	304	473	594	717	684	518	341	104	11	3,974
Moab	16	67	194	339	514	644	776	744	573	385	137	20	4,408
Average	8	41	136	265	433	584	721	682	500	310	93	9	3,783

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

Accumulated Growing Degree Days Base 40, by Months, Utah, 1993

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
WESTERN													
Delta	14	25	287	354	593	606	760	786	605	378	119	67	4,590
Enterprise Beryl Jct	37	39	276	378	526	550	691	690	553	342E	176	89	4,343E
Eskdale	18	19	266	394	622	631	704	823	611	397	135	78	4,796
Modena	29	19	271	375	549	585	727	748	586	412	156	85	4,539
Rosette/Pk Valley	3	11	139	206	509	494	633	711	543	326	81	15	3,667
Wendover AUTOB	0	1	196	292	696	691	878	916	686	365	43	15	4,777
Average	17	19	239	333	582	593	749	779	597	370	118	58	4,452
DIXIE													
St. George	176	225	511	621	834	894	1,020	1,029	838	672	339	250	7,408
Zion Nat'l Park	136	176	461	551	756	799	945	950	819	635	295	220	6,740
Average	156	200	486	586	795	847	982	989	828	654	317	235	7,074
NORTH CENTRAL													
Corinne	4	3	177	286	609	594	708	775	588	378	120	36	4,275
Farmington Fld Stn	15	15	229	332	631	627	740	826	660	411	119	56	4,657
Logan USU	4	6	137	225	597	578	706	786	606	339	68	22	4,070
Ogden Pioneer PH	8	13	213	321	690	682	809	871	679	394	110	33	4,820
Pleasant Grove	26E	22	233	353	649	640	790	821	654	398	141	62	4,787E
Provo BYU	37	26	262	388	661	675	803	823	634	413	153	82	4,953
SLC Airport	11	13	241	303	679	657	806	859	688	410	110	55	4,830
Tooele	17	19	193	299	658	611	779	807	651	377	98	49	4,554
Tremonton	2	3	158	265	609	600	726	816	608	348	78	23	4,233
Trenton/Lewiston	3	5	130	240	510	504	558	629	486	318	82	17	3,480
Average	12	12	197	301	629	617	742	801	625	378	108	43	4,466
SOUTH CENTRAL													
Bryce Can N P Hq	6	1	76	189	369	450	678	601	448	247	49	15	3,128
Cedar City FAA	51	41	268	344	593	611	792	808	625	405	167	87	4,790
Escalante	30	53	291	398	578	637	762	766	604	399	154	74	4,744
Fillmore	23	24	272	363	652	662	796	844	676	400	118	70	4,898
Kanab	90	109	354	427	623	695	815	841	668	491	236	158	5,503
Levan	15	24	208	362	608	623	710	771	639	410	148	60	4,576
Loa	21	3	145	269	422	493	615	618	516	322	108	54E	3,574E
Manti	13	9	155	262	536	564	724	755	568	341	95	48	4,067
Nephi	28	28	246	367	594	611	756	770	610	391	138	72	4,608
Panguitch	13	15	200	343	489	520	601	626	538	366	146	57	3,912
Richfield Radio	21E	22	255	354	546	605	706	719	575	374	134	62	4,371E
Average	28	30	224	333	546	588	723	738	588	377	136	69	4,379
NORTHERN MOUNTAINS													
Heber	13	12	133	307	526	540	633	661	543	353	125	53	3,896
Olmstead PH	32	24	223	334	634	622	745	782	642	416	143	72	4,668
Scofield-Skyline	1	1	46	79	296	349	508	518	394	165	21	12	2,387
Silver Lk Brighton	5	0	48	47	240	281	432	460	338	120	11	6	1,986
Woodruff	0	1	76	189	415	424	523	570	456	261	46	1	2,960
Average	10	7	105	191	422	443	568	598	475	263	69	29	3,179
UINTA BASIN													
Duchesne	1	3	149	309	555	605	715	721	572	326	59	27	4,041
Fort Duchesne	2	2	150	322	570	616	707	724	570	310	69	21	4,060
Jensen	0	0	163	341	565	622	673	709	565	337	76	24	4,073
Myton	2	8	154	321	378	592	686	718	554	322	101	31	3,864
Average	1	3	154	323	517	609	695	718	565	323	76	26	4,009
SOUTHEAST													
Arches N P Hq	69	123	395	471	723	826	942	955	742	480	182	79	5,984
Blanding	41	65	276	385	617	699	844	817	672	408	140	70	5,031
Ferron	10	20	233	320	587	659	761	774	622	365	88	27	4,463
Green River Avn	50	118	404	467	675	740	810	854	646	436	164	68	5,428
Hanksville	55	121	387	461	637	741	835	853	638	424	160	61	5,371
Moab	47	98	401	561	765	876	969	972	781	561	238	116	6,382
Average	45	91	349	444	667	756	860	871	683	446	162	70	5,443

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

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

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
WESTERN													
Delta	40	106	231	356	536	682	834	804	612	432	186	54	4,871
Enterprise Beryl Jct	71	117	234	356	498	600	737	724	563	428	207	88	4,621
Eskdale	83	139	264	373	550	679	831	788	610	436	213	86	5,051
Modena	78	123	234	358	507	632	770	750	583	435	209	91	4,769
Rosette/Pk Valley	14	40	120	242	436	597	801	767	566	344	112	22	4,066
Wendover AUTOB	30	75	194	357	619	798	992	936	703	396	121	27	5,249
Average	53	100	213	340	524	665	828	795	606	412	176	61	4,771
DIXIE													
St. George	212	294	437	575	748	861	1,004	981	789	618	375	215	7,107
Zion Nat'l Park	192	258	378	528	734	875	1,016	991	842	672	367	205	7,058
Average	202	276	407	551	741	868	1,010	986	816	645	371	210	7,082
NORTH CENTRAL													
Corinne	15	60	167	314	517	670	832	802	593	389	126	25	4,510
Farmington Fld Stn	35	86	210	358	556	719	882	846	652	421	166	39	4,970
Logan USU	16	38	122	269	487	672	865	836	605	368	111	24	4,414
Ogden Pioneer PH	32	77	190	345	571	752	923	890	672	437	158	41	5,087
Pleasant Grove	40	95	215	348	544	694	863	828	637	431	180	54	4,927
Provo BYU	41	90	239	410	578	743	882	855	667	438	191	56	5,187
SLC Airport	34	87	203	345	563	747	927	895	675	437	172	41	5,123
Tooele	41	78	180	329	555	744	929	891	662	406	148	46	5,009
Tremonton	9	47	163	346	514	717	885	857	637	379	125	22	4,698
Trenton/Lewiston	10	41	153	322	442	595	724	696	532	371	119	25	4,031
Average	27	70	184	338	533	705	871	840	633	408	149	37	4,796
SOUTH CENTRAL													
Bryce Can N P Hq	29	41	93	203	362	519	655	617	457	302	103	38	3,418
Cedar City FAA	75	120	210	334	524	687	853	828	640	435	203	94	5,002
Escalante	61	115	228	359	528	663	800	763	602	422	199	76	4,814
Fillmore	57	110	222	357	545	698	858	829	648	441	192	64	5,020
Kanab	138	195	292	410	587	719	850	837	689	520	287	160	5,684
Levan	37	82	196	326	505	657	822	790	611	420	181	51	4,677
Loa	51	77	153	270	418	538	678	639	499	352	151	62	3,887
Manti	35	69	174	304	480	640	799	766	580	390	162	47	4,445
Nephi	50	95	210	343	533	679	833	811	625	440	194	66	4,878
Panguitch	58	90	178	300	445	552	673	652	526	400	185	77	4,135
Richfield Radio	70	122	233	358	506	626	766	737	585	439	210	85	4,737
Average	60	101	199	324	494	634	781	752	587	415	188	74	4,609
NORTHERN MOUNTAINS													
Heber	21	46	134	276	443	558	702	671	527	385	145	36	3,943
Olmstead PH	34	80	200	379	531	723	867	843	658	444	170	55	4,982
Scofield-Skyline	16	19	51	144	242	460	600	564	359	208	51	10	2,723
Silver Lk Brighton	15	18	35	93	208	370	568	520	336	183	44	15	2,404
Woodruff	8	19	73	200	371	491	638	603	460	310	86	16	3,285
Average	19	36	98	220	359	520	675	640	468	306	99	26	3,467
UINTA BASIN													
Duchesne	19	49	170	333	515	646	794	767	566	370	123	21	4,374
Fort Duchesne	10	39	160	324	496	630	749	715	538	367	128	18	4,173
Jensen	13	48	188	355	524	637	773	693	558	398	141	24	4,351
Myton	12	50	168	320	463	617	745	731	541	361	128	21	4,155
Average	14	46	171	333	500	632	765	726	551	374	130	21	4,263
SOUTHEAST													
Arches N P Hq	61	150	333	509	714	868	1,001	974	779	525	252	83	6,247
Blanding	39	92	192	331	535	703	844	814	638	417	170	56	4,831
Ferron	26	65	169	308	513	682	821	797	595	394	154	38	4,563
Green River Avn	44	132	284	425	596	727	875	810	629	457	212	60	5,251
Hanksville	65	149	311	454	629	754	887	854	669	491	232	76	5,571
Moab	80	179	355	516	701	816	945	913	736	550	283	102	6,175
Average	52	128	274	424	615	758	896	860	674	472	217	69	5,440

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

Enterprise Budgets

Prepared by the Economics Department, Utah State University

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

An Enterprise Budget workbook will be available later this year through the Utah Department of Agriculture. It will include the budget information on pages 123-138, plus additional profitability tips. Contact Joan Winder, phone 538-7103, in Salt Lake City for ordering individual or bulk supplies of the workbook. A nominal printing and postage fee will be charged.

Any questions or suggestions to these budgets should be referred to the appropriate contact person in the Economics Department at Utah State University, phone 801-797-2310 in Logan.

The budgets presented this year are available as a Lotus 123 template, which also runs on Quattro, for IBM and compatible computers. A stand-alone version, for those who do not have Lotus or Quattro, is available, but requires 512K of memory and comes only on a High Density disk. To order send $3.00 to:

Extension Publications Office
Utah State University
Logan, Utah 84322-5015

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

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

Alfalfa Hay Establishment Budget with Oat Hay
Estimated Costs and Receipts for Production (1993)
Wheel Line Irrigated System - Grand County - Per Acre Basis

Item	Unit	Quantity	Price		Total	Your Farm
			Dollars			
Receipts						
Oat Hay	Ton	2.50	60.00		150.00	
Residue	AUM	0.25	9.55		2.39	
Total Receipts					152.39	
Costs						
Purchases						
Potash	Lb	70.00	0.05		3.50	
Ammonium Phosphate	Lb	200.00	0.24		48.80	
Oat Seed	Lb	70.00	0.12		8.40	
Alfalfa Seed	Lb	16.00	2.50		40.00	
Roundup	Qt	1.00	11.45		11.45	
Operations	Times	Ownership	Operating	Labor 1/		
			Dollars			
Herbicide Applic.	1	4.08	0.91	0.46	5.45	
Fertilizer Applic.	1	9.55	1.19	0.35	11.09	
Triple K	2	12.10	3.15	0.99	32.48	
Planting	1	72.20	5.86	1.73	79.79	
Swathing	1	13.25	3.94	1.25	18.44	
Baling	1	13.99	4.84	1.73	20.56	
Hauling (pt bw)	1	17.24	4.11	1.15	22.50	
Disking	1	56.56	4.75	1.15	62.46	
Plowing	1	45.10	9.52	3.45	58.07	
Irrigation						
Water Shares	1		30.75		30.75	
Wheeline	4	14.35	0.27	1.27	63.56	
Interest on Operating Capital for 6 months @ 11.00%					11.21	
Total Listed Costs					528.51	
Return to Land, Family Labor, and Management					-376.12	

Prepared by Gilbert D. Miller, Dan Nelson, and E. Bruce Godfrey

Alfalfa Hay Budget
Estimated Costs and Receipts for Production (1993)
Wheel Line Irrigation - Uintah County - Per Acre Basis

Item	Unit	Quantity	Price		Total	Your Farm
			Dollars			
Receipts						
Alfalfa Hay	Ton	4.15	73.00		302.95	
Residue	AUM	0.25	9.55		2.39	
Total Receipts					305.34	
Costs						
Purchases						
Phosphate	Lb	20.00	0.32		6.40	
Operations	Times	Ownership	Operating	Labor 1/		
			Dollars			
Fertilizer Applic.	1	9.55	1.19	0.35	11.09	
Swathing	4	11.09	3.58	1.17	63.36	
Turning	1	2.21	1.69	1.15	5.05	
Baling	4	8.60	3.20	1.15	51.80	
Hauling (pt bw)	4	13.29	3.49	0.99	71.08	
Irrigation						
Water Shares	1		30.00		30.00	
Wheeline	7	14.35	3.22	1.27	131.88	
Interest on Operating Capital for 6 months @ 11.00%					6.96	
Establishment Cost of $250.22 for 7 years @ 11.00%					53.10	
Total Listed Costs					430.72	
Return to Land, Labor, and Management					-125.38	

Note: The establishment cost to be capitalized is the profit or return found on the last line of the appropriate alfalfa Establishment budget. It will usually be a negative value, found by subtracting total costs from total receipts.

Prepared by Gilbert D. Miller, Chad Reid, and E. Bruce Godfrey

Corn Silage Budget
Estimated Costs and Receipts for Corn Silage Production (1993)
Flood Irrigation System - Utah County - Per Acre Basis

Item	Unit	Quantity	Price		Total	Your Farm
			Dollars			
Receipts						
Corn Silage	Ton	19.21	22.25		427.42	
Costs						
Purchases						
Nitrogen	Lb	100	0.24		24.00	
Phosphate	Lb	25	0.24		6.10	
Corn Seed	Lb	16	1.50		24.00	
Phorate	Lb	6.75	1.70		11.48	
2-4-D	Lb	0.50	3.90		1.95	
Operations	Times	Ownership	Operating	Labor		
		Dollars				
Landplane	2	10.29	3.26	1.38	29.86	
Fertilizer Application	1	5.64	1.05	0.35	7.04	
Triple K	2	3.72	2.15	0.99	13.72	
Planting	1	24.93	4.50	1.73	31.16	
1st Cultivation	1	9.02	3.53	2.30	14.85	
Herbicide Application	1	2.33	0.81	0.46	3.60	
2nd Cultivation	1	6.76	2.65	1.73	11.14	
Chopping	1	140.42	37.36	7.20	184.98	
Packing & Pushing	1	27.38	11.66	6.90	45.94	
Trucking	1	37.55	31.13	6.90	75.58	
Disking	1	8.48	3.14	1.15	12.77	
Plowing	1	14.97	10.35	3.45	28.77	
Irrigation						
Water Shares	1		10.00		10.00	
Flood	5	0.35	0.52	1.60	12.35	
Interest on Operating Capital for 6 months @ 11.00%					13.31	
Total Listed Costs					562.60	
Return to Land, Family Labor, and Management					-135.17	

Prepared by Gilbert D. Miller, Dean Miner, and E. Bruce Godfrey

Corn for Grain Budget
Estimated Costs and Receipts for Corn Production (1993)
Flood Irrigation System - Duchesne County - Per Acre Basis

Item	Unit	Quantity	Price		Total	Your Farm
			Dollars			
Receipts						
Corn Grain	Bu	110	3.00		330.00	
Costs						
Purchases						
Nitrogen	Lb	150	0.24		36.00	
Phosphate	Lb	50	0.24		12.20	
Alachlor	Qt	2	6.00		12.00	
Corn Seed	Lb	16	1.50		24.00	
2-4-D	Lb	0.33	3.90		1.29	
Operations	Times	Ownership	Operating	Labor 1/		
		Dollars				
Landplane	2	11.03	3.99	1.38	32.80	
Fertilizer Application	1	9.55	1.19	0.35	11.09	
Triple K	2	7.46	1.61	0.99	20.12	
Planting	1	24.93	4.50	1.73	31.16	
1st Cultivation	1	11.34	3.61	2.30	17.25	
Herbicide Application	1	1.82	0.79	0.46	3.07	
2nd Cultivation	1	8.51	2.71	1.73	12.95	
Combining	1	24.87	9.64	2.40	36.91	
Hauling	1	6.26	5.19	1.15	12.60	
Disking	2	10.49	3.21	1.15	29.70	
Plowing	1	20.60	9.16	3.45	33.21	
Irrigation						
Water Shares	1		25.00		25.00	
Flood	6	0.22	0.12	1.60	11.64	
Interest on Operating Capital for 6 months @ 11.00%					10.77	
Total Listed Costs					373.76	
Return to Land, Family Labor, and Management					-43.76	

Prepared by Gilbert D. Miller, Troy Cooper, and E. Bruce Godfrey

Oat Hay Budget
Estimated Costs and Receipts for Oat Hay Production (1993)
Wheel Line Irrigation System - Panguitch & Garfield County - Per Acre Basis

Item	Unit	Quantity	Price		Total	Your Farm
			Dollars			
Receipts						
Oat Hay	Ton	4	60.00		240.00	
Residue	AUM	0.25	9.55		2.39	
Total Receipts					242.39	
Costs						
Purchases						
Nitrogen	Lb	100	0.24		24.00	
Phosphate	Lb	25	0.24		6.10	
Oat Seed	Lb	100	0.12		12.00	
Operations	Times	Ownership	Operating	Labor		
		Dollars				
Fertilizer Application	1	6.19	0.95	0.35	7.49	
Harrowing	2	1.88	1.23	0.69	7.60	
Planting	1	15.26	3.26	1.73	20.25	
Herbicide Application	0	2.40	0.69	0.46	0.00	
Swathing	2	11.77	2.71	1.25	31.46	
Baling	2	11.95	3.15	1.73	33.66	
Hauling (pt bw)	2	16.22	2.98	1.15	40.70	
Plowing	1	16.26	7.02	4.60	27.88	
Irrigation						
Water Shares	1		30.00		30.00	
Wheeline	4	14.35	3.22	1.27	75.36	
Interest on Operating Capital for 6 months @ 11.00%					7.58	
Total Listed Costs					324.08	
Return to Land, Family Labor, and Management					-81.69	

Prepared by Gilbert D. Miller, Verl Matthews, and E. Bruce Godfrey

Chipper Potato Budget
Estimated Costs and Returns for Potato Production (1993)
Center Pivot Irrigation - Box Elder County - Per Acre Basis

Item	Unit	Quantity	Price		Total	Your Farm
			..... Dollars			
Receipts						
Total Receipts	Cwt	310	5.00		1,550.00	
Costs						
Purchases						
Seed	Cwt	25	9.50		237.50	
Seed Cut & Treat	Cwt	25	1.60		40.00	
Fertilizer						
Nitrogen - preplant	Lb	125	0.27		33.75	
Phosphate - preplant	Lb	155	0.18		27.90	
Sulfur	Lb	30	0.12		3.60	
Micro Nutrients	Acre	1	18.00		18.00	
Liquid phosphate	Lb	20	0.28		5.60	
Nitrogen - postplant	Lb	125	0.28		35.00	
Pesticides						
Thimet	Lb	20	1.75		35.00	
Eptam 7e	Pt	6	7.25		43.50	
Sencor df	Lb	1	26.50		26.50	
Dithane	Qt	1.50	13.50		20.25	
Bravo/Ridmil	Qt	1.50	13.50		20.25	
Operations						
Custom air spray		2	6.50		13.00	
Custom fertilize		2	5.00		10.00	
Custom ground spray		1	4.95		4.95	
Consultant		1	13.50		13.50	
Water assessment		1	7.50		7.50	
Inspection fees			0.12		37.20	
Crop Insurance		1	32.50		32.50	
Storage			0.51		158.10	
Irrig. electricity		1	46.28		46.28	
Labor (tractor and mach)	Hrs	6.26	8.00		50.08	
Labor (irrigation)	Hrs	4.55	5.00		22.75	
Interest on Purchases & Oper Expenses @ 11.00%					51.85	
Machinery Costs		Times	Fixed	Variable		
Tractors		1	84.94	60.88	146.82	
Machinery		1	266.44	55.50	322.94	
Total Listed Costs:					1,464.32	
Return to Land, Labor, and Management					85.68	

Prepared by Gilbert Lyle Holmgren.

Spring Wheat Budget
Estimated Costs and Receipts for Wheat Production (1993)
Flood Irrigation System - Juab County - Per Acre Basis

Item	Unit	Quantity	Price		Total	Your Farm
			Dollars			
Receipts						
Wheat	Bu	64.30	3.26		209.62	
Straw	Ton	0.64	25.00		16.00	
Total Receipts					225.62	
Costs						
Purchases						
Nitrogen	Lb	50	0.24		12.00	
Phosphate	Lb	25	0.24		6.10	
Chlorsulfron	Oz	0.17	26.40		4.49	
Seed	Lb	100	0.12		12.00	
Operations	Times	Ownership	Operating	Labor 1/		
			Dollars			
Landplane	2	9.58	3.23	1.38	28.38	
Fertilizer Application	1	5.15	1.03	0.35	6.53	
Triple K	2	3.89	2.17	0.99	14.10	
Planting	1	13.48	3.68	1.73	18.89	
Herbicide Application	1	2.02	0.80	0.46	3.28	
Combining	1	26.35	6.89	2.65	35.89	
Hauling	1	6.26	5.06	1.25	12.57	
Swathing	1	11.33	3.88	1.25	16.46	
Baling	1	12.17	4.78	1.73	18.68	
Hauling (pto bw)	1	14.40	4.04	1.15	19.59	
Disking	1	9.17	3.06	1.15	13.38	
Plowing	1	15.41	10.00	4.06	29.47	
Irrigation						
Water Shares	1		18.00		18.00	
Siphon	2	0.35	0.52	1.50	4.74	
Interest on Operating Capital for 6 months @ 11.00%					7.21	
Total Listed Costs					281.76	
Return to Land, Family Labor, and Management					-56.14	

Prepared by Gilbert D. Miller, Jeff Banks, and E. Bruce Godfrey

Apple Budget
Utah County, per Acre Basis, Furrow Irrigation

				Year					
				1	2	3	4	5	6
Production:									
Trees/Acre (tree spacing 11' X 18' less 10% roadways)				200	200	200	200	200	200
Yield/Tree (Bushels)				0	0	0	0.25	0.75	1.75
Total Bushels/Acre				0	0	0	50	150	350
Total Pounds/Acre (48 Pounds/Bushel)				0	0	0	2,398	7,193	16,785
Weather Discount (30% of Pounds/Acre)				0	0	0	719	2,158	5,035
Net Pounds/Acre				0	0	0	1,678	5,035	11,749
				Dollars					
Receipts (Net Pounds/Acre @ $.15 per pound)				0	0	0	249	748	1,745
Establishment:									
Land Preparation Custom at $80 per acre				80					
Layout				20					
Planting Trees				100					
Hand Water (2 times @ $10)				20					
Trees @ $6 each				999					
Total				1,219					
Purchases:	Unit	Quantity	Price						
Fertilizers									
Nitrogen, 46% UREA	Lbs		0.15			7.49	7.49	7.49	14.99
Zinc	Lbs	20	0.72				14.40	14.40	14.40
Insecticides									
Azinphos-Methyl	Lbs	16	3.50				56.00	56.00	56.00
Dormant Oil	Gal	5	2.25		11.25	11.25	11.25	11.25	11.25
Propargite	Lbs	5	5.37				26.85	26.85	26.85
Thinning Sprays									
Carbaryl	Lbs	2	2.32				4.64	4.64	4.64
Herbicides									
Glythosate	Gal	1.50	67.63	86.30	86.30	86.30	86.30	86.30	86.30
Terbacil	Qt	0.75	19.53	14.65	14.65	14.65	14.65	14.65	14.65
Growth Regulator									
Promoline	Gal	0.25	43.00				10.75	10.75	10.75
Mouse Bait	Lbs	5	3.00	15.00	15.00	15.00	15.00	15.00	15.00
Bee Rental	Hive	2	10.00				20.00	20.00	20.00
Water	Acre Feet	3.50	18.00	63.00	63.00	63.00	63.00	63.00	63.00
Total Purchases				178.94	190.19	197.69	330.33	330.33	337.82
Operations	Times	Ownership	Operating	Labor					
		Dollars							
Pruning	1	0.78	8.00			56.74	68.72	92.70	128.67	156.64
Fertilizer Application	1	10.04	1.81	0.77	12.62	12.62	12.62	12.62	12.62	12.62
Spraying	10	5.71	3.61	2.30				116.20	116.20	116.20
Mowing	4	2.51	4.56	1.73	35.20	35.20	35.20	35.20	35.20	35.20
Herbicide Application	2	4.13	1.44	1.25	13.64	13.64	13.64	13.64	13.64	13.64
Water Application	16	0.22	0.52	1.60	13.31	13.31	13.31	13.31	13.31	13.31
Total Operations					74.77	131.51	143.50	283.67	319.64	347.62
Harvest Costs: (1,260 Pounds/Bin)									
Picking Costs @ $10.00 per Bin								16.65	49.95	116.56
Moving of Bins & Management Costs @ $5.00 per Bin								8.33	24.98	58.28
Total Harvest Costs								24.98	74.93	174.84
Interest on Operating Capital for 6 months @ 11.50%					84.68	18.50	19.62	35.31	37.37	39.41
Subtotal costs					1,557.39	340.20	360.80	674.28	762.27	899.69
Interest on Establishment Costs					140.18	140.18	140.18	140.18	140.18	140.18
Total Costs					1,697.57	480.38	500.98	814.47	902.46	1,039.87
Net Income					-1,697.57	-480.38	-500.98	-565.22	-154.70	704.89

Apple Budget
Utah County, per Acre Basis, Furrow Irrigation (continued from page 130)

Year													
7	8	9	10	11	12	13	14	15	16	17	18	19	20
200	200	200	200	200	200	200	200	190	180	171	163	155	147
2.50	3.00	3.50	4.00	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
500	599	699	799	899	899	899	899	854	812	771	732	696	661
23,978	28,774	33,569	38,365	43,160	43,160	43,160	43,160	41,002	38,952	37,005	35,154	33,397	31,727
7,193	8,632	10,071	11,509	12,948	12,948	12,948	12,948	12,301	11,686	11,101	10,546	10,019	9,518
16,785	20,142	23,498	26,856	30,212	30,212	30,212	30,212	28,701	27,266	25,904	24,608	23,378	22,209
Dollars													
2,493	2,991	3,490	3,988	4,487	4,487	4,487	4,487	4,262	4,049	3,847	3,654	3,472	3,298
44.96	52.45	68.94	68.94	68.94	68.94	68.94	68.94	68.94	65.49	62.22	59.10	56.15	53.34
14.40	14.40	14.40	14.40	14.40	14.40	14.40	14.40	14.40	14.40	14.40	14.40	14.40	14.40
56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00	56.00
11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25
26.85	26.85	26.85	26.85	26.85	26.85	26.85	26.85	26.85	26.85	26.85	26.85	26.85	26.85
4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64
86.30	86.30	86.30	86.30	86.30	86.30	80.30	86.30	86.30	86.30	86.30	86.30	86.30	86.30
14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
10.75	10.75	10.75	10.75	10.75	10.75	10.75	10.75	10.75	10.75	10.75	10.75	10.75	10.75
15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
63.00	63.00	63.00	63.00	63.00	63.00	63.00	63.00	63.00	63.00	63.00	63.00	63.00	63.00
367.79	375.28	391.77	391.77	391.77	391.77	391.77	391.77	391.77	388.32	385.05	381.94	378.98	376.17
208.60	304.51	356.46	408.41	408.41	408.41	408.41	408.41	388.43	369.45	351.42	334.28	318.01	302.55
12.62	12.62	12.62	12.62	12.62	12.62	12.62	12.62	12.62	12.62	12.62	12.62	12.62	12.62
116.20	116.20	116.20	116.20	116.20	116.20	116.20	116.20	116.20	116.20	116.20	116.20	116.20	116.20
35.20	35.20	35.20	35.20	35.20	35.20	35.20	35.20	35.20	35.20	35.20	35.20	35.20	35.20
13.64	13.64	13.64	13.64	13.64	13.64	13.64	13.64	13.64	13.64	13.64	13.64	13.64	13.64
13.31	13.31	13.31	13.31	13.31	13.31	13.31	13.31	13.31	13.31	13.31	13.31	13.31	13.31
399.57	495.48	547.43	599.39	599.39	599.39	599.39	599.39	579.40	560.42	542.39	525.26	508.98	493.52
166.51	199.82	233.12	266.42	299.72	299.72	299.72	299.72	284.74	270.50	256.98	244.13	231.92	220.33
83.26	99.91	116.56	133.21	149.86	149.86	149.86	149.86	142.37	135.25	128.49	122.06	115.96	110.16
249.77	299.72	349.68	399.63	449.59	449.59	449.59	449.59	427.11	405.75	385.46	366.19	347.88	330.49
44.12	50.07	54.00	56.99	56.99	56.99	56.99	56.99	55.84	54.56	53.33	52.16	51.06	50.01
1,061.25	1,220.56	1,342.88	1,447.78	1,497.73	1,497.73	1,497.73	1,497.73	1,454.12	1,409.05	1,366.23	1,325.55	1,286.90	1,250.19
140.18	140.18	140.18	140.18	140.18	140.18	140.18	140.18	140.18	140.18	140.18	140.18	140.18	140.18
1,201.44	1,360.74	1,483.07	1,587.96	1,637.92	1,637.92	1,637.92	1,637.92	1,594.31	1,549.23	1,506.41	1,465.73	1,427.09	1,390.37
1,291.07	1,630.27	2,006.45	2,400.06	2,848.60	2,848.60	2,848.60	2,848.60	2,667.89	2,499.85	2,340.22	2,188.57	2,044.50	1,907.63

Peach Budget
Box Elder County, per Acre Basis, Furrow Irrigation

				Year					
				1	2	3	4	5	6
Production:									
Trees/Acre (tree spacing 11' X 18' less 10% roadways)				200	200	200	200	200	200
Yield/Tree (Bushels)				0	0	0	0.50	1.00	2.00
Total Bushels/Acre				0	0	0	100	200	400
Total Pounds/Acre (42 pounds/bushel)				0	0	0	4,106	8,392	16,785
Frost Discount (25% of pounds/acres)				0	0	0	1,049	2,098	4,196
Net Pounds/Acre				0	0	0	3,147	6,294	12,589
				Dollars					
Receipts (Net Pounds/Acre @ $.20 per pound)				0	0	0	635	1,270	2,540
Establishment:									
Land Preparation Custom at $80 per acre				80					
Layout				20					
Planting Trees				100					
Hand Water (2 times @ $10)				20					
Trees @ $5 each				999					
Total Establishment Costs				1,219					
Purchases:	Unit	Quantity	Price						
Fertilizers									
Nitrogen, 46% UREA	Lbs		0.15			29.97	29.97	29.97	44.96
Phosphorus & Potassium	Lbs	5	0.32	1.60	1.60	1.60	1.60	1.60	1.60
Insecticides									
Larsban	Gal	0.6	52.00				26.00	26.00	26.00
Dormant Oil	Gal	5	2.25		11.25	11.25	11.25	11.25	11.25
Propargite	Lbs	14	3.75				52.50	52.50	52.50
Hand Thinning	Tree	1	5.00				59.84	219.80	499.54
Herbicides									
Glythosate	Gal	0.25	57.53	14.38	14.38	14.38	14.38	14.38	14.38
2-4-D	Lbs	0.5	1.90	0.95	0.95	0.95	0.95	0.95	0.95
Mouse Bait	Lbs	1.50	2.00	3.00	3.00	3.00	3.00	3.00	3.00
Bee Rental	Hive	1	10.00				10.00	10.00	10.00
Water	Acre Feet	3	11.50	34.50	34.50	34.50	34.50	34.50	34.50
Total Purchases				54.43	65.68	95.65	244.10	403.95	698.68
Operations	Times	Ownership	Operating	Labor					
		Dollars							
Pruning	1	0.78	8.00		0	108.69	158.64	158.64	208.60	208.60
Fertilizer Application	1	10.04	1.81	0.77	12.62	12.62	12.62	12.62	12.62	12.62
Spraying	3	5.71	3.61	2.30				34.86	34.86	34.86
Disking	3	4.95	1.87	1.73	25.65	25.65	25.65	25.65	25.65	25.65
Furrowing	3	1.75	1.49	1.73	14.91	14.91	14.91	14.91	14.91	14.91
Herbicide Application	1	2.75	1.44	1.25	5.44	5.44	5.44	5.44	5.44	5.44
Water Application	16	0.22	0.52	1.60	13.31	13.31	13.31	13.31	13.31	13.31
Total Operations					71.93	180.62	230.57	265.43	315.39	315.39
Harvest Costs:									
Picking Costs @ $.03 per pound								94.44	188.83	377.85
Moving & Management Costs								9.44	18.88	37.77
Total Harvest Costs								103.85	207.71	415.42
Interest on Operating Capital for 6 months @ 11.50%					77.36	14.16	18.76	29.30	41.36	58.31
Subtotal costs					1,422.71	260.47	344.99	642.69	968.41	1,487.80
Interest on Establishment Costs					467.00	146.28	146.28	146.28	146.28	146.28
Total Costs					1,889.71	406.74	491.27	788.97	1,114.69	1,634.08
Net Income					-1,889.71	-406.74	-491.27	-153.88	155.48	906.27

Peach Budget
Box Elder County, per Acre Basis, Furrow Irrigation (continued from page 132)

Year													
7	8	9	10	11	12	13	14	15	16	17	18	19	20
200	200	200	200	200	200	200	200	190	180	171	163	155	147
3.00	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25
599	649	649	649	649	649	649	649	617	586	557	529	502	477
25,177	27,275	27,275	27,275	27,275	27,275	27,275	27,275	25,911	24,616	23,385	22,216	21,105	20,050
6,294	6,819	6,819	6,819	6,819	6,819	6,819	6,819	6,478	6,154	5,846	5,554	5,276	5,012
18,883	20,456	20,456	20,456	20,456	20,456	20,456	20,456	19,433	18,462	17,539	16,662	15,829	15,038
Dollars													
3,811	4,128	4,128	4,128	4,128	4,128	4,128	4,128	3,922	3,726	3,539	3,362	3,194	3,035
44.96	52.45	52.45	68.94	68.94	68.94	68.94	68.94	68.94	65.49	62.22	59.10	56.15	53.34
1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00	26.00
11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25	11.25
52.50	52.50	52.50	52.50	52.50	52.50	52.50	52.50	52.50	52.50	52.50	52.50	52.50	52.50
749.31	999.08	999.08	999.08	999.08	999.08	999.08	999.08	949.13	901.67	856.59	813.76	773.07	734.42
14.38	14.38	14.38	14.38	14.38	14.38	14.38	14.38	14.38	14.38	14.38	14.38	14.38	14.38
0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
34.50	34.50	34.50	34.50	34.50	34.50	34.50	34.50	34.50	34.50	34.50	34.50	34.50	34.50
948.45	1,205.72	1,205.72	1,222.20	1,222.20	1,222.20	1,222.20	1,222.20	1,172.25	1,121.34	1,072.99	1,027.06	983.40	941.94
308.50	358.46	408.41	408.41	408.41	408.41	408.41	408.41	388.43	369.45	351.42	334.28	318.01	302.55
12.62	12.62	12.62	12.62	12.62	12.62	12.62	12.62	12.62	12.62	12.62	12.62	12.62	12.62
34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86	34.86
25.65	25.65	25.65	25.65	25.65	25.65	25.65	25.65	25.65	25.65	25.65	25.65	25.65	25.65
14.91	14.91	14.91	14.91	14.91	14.91	14.91	14.91	14.91	14.91	14.91	14.91	14.91	14.91
5.44	5.44	5.44	5.44	5.44	5.44	5.44	5.44	5.44	5.44	5.44	5.44	5.44	5.44
13.31	13.31	13.31	13.31	13.31	13.31	13.31	13.31	13.31	13.31	13.31	13.31	13.31	13.31
415.30	465.25	515.21	515.21	515.21	515.21	515.21	515.21	495.22	476.24	458.21	441.08	424.80	409.34
566.48	613.69	613.69	613.69	613.69	613.69	613.69	613.69	583.00	553.85	526.16	499.85	474.86	451.12
56.65	61.37	61.37	61.37	61.37	61.37	61.37	61.37	58.30	55.39	52.62	49.99	47.49	45.11
623.13	675.06	675.06	675.06	675.06	675.06	675.06	675.06	641.30	609.24	578.78	549.84	522.34	496.23
78.42	96.08	98.95	99.90	99.90	99.90	99.90	99.90	95.88	91.86	88.04	84.42	80.97	77.70
2,065.29	2,442.10	2,494.93	2,512.36	2,512.36	2,512.36	2,512.36	2,512.36	2,404.65	2,298.88	2,198.01	2,102.38	2,011.52	1,925.21
146.28	146.28	146.28	146.28	146.28	146.28	146.28	146.28	146.28	146.28	146.28	146.28	146.28	146.28
2,211.57	2,588.38	2,641.21	2,658.64	2,658.64	2,658.64	2,658.64	2,658.64	2,650.93	2,444.96	2,344.29	2,248.65	2,157.80	2,071.49
1,598.95	1,539.68	1,486.86	1,469.42	1,469.42	1,489.42	1,469.42	1,469.42	1,370.73	1,280.62	1,195.01	1,113.68	1,036.42	983.02

Sheep Operation Budget
Estimated Costs and Returns Based on 1,000 Head
Ewe Operation Located in Southern Utah (1993)

Item	Number	Weight	Price	Unit	Total	Per Ewe	Your Farm
			Dollars		. . . . . Dollars		
Receipts							
Sheep and Lambs							
Lambs	850	105	51.00	Cwt	45,518	45.52	
Cull Ewes	76		30.00	Head	2,280	2.28	
Cull Rams	4		35.00	Head	142	0.14	
Wool							
Sold	9,994	9.7	0.70	Lb	6,996	7.00	
Incentive Payment					20,388	20.39	
Total Receipts					75,323	75.32	
Cash Costs							
Federal and State Grazing	1,227		1.86	AUM	2,282	2.28	
Hay	443		65.00	Ton	28,795	28.80	
Aftermath	290		6.00	AUM	1,740	1.74	
Feed Supplements					3,729	3.73	
Replacement Rams	6		200.00	Head	1,212	1.21	
Vet/Medicine	1,000		1.05	Head	1,050	1.05	
Trucking					3,428	3.43	
Shearing	1,180		2.00	Head	2,360	2.36	
Fuel/Oil	500		1.10	Gal	550	0.55	
Repairs					1,100	1.10	
Horse Use (Shoeing, Vet)	4		200.00	Horse	800	0.80	
Hired Labor					5,687	5.69	
Predator Control					1,335	1.34	
Insurance					571	0.57	
Taxes					400	0.40	
Supplies					1,500	1.50	
Misc. and Other					183	0.18	
Interest on Operating Loan of $27,927 for 6 months @ 11.00%					1,536	1.54	
Total Cash Costs					58,258	58.26	
Noncash Costs							
Depreciation					8,000	8.00	
Total Noncash Costs					8,000	8.00	
Total Listed Costs					66,258	66.26	
Return to Land and Management					9,065	9.06	

Assumptions:

Number of ewes	1,000	Percent Slaughter Lambs	85
Percent of ewes replaced	15	Percent Lambs weaned	100
Percent of rams replaced	20	Months on BLM	3.5
Number of ewes per ram	33	Months on Forest Service	2.3
Percent ewe death loss	7.40	Months on leased land	1.3
Percent ram death loss	33		

Budget prepared by Darwin B. Nielsen

Cow/Calf Operation Budget
Estimated Costs and Returns Based on a 350 Cow/Calf Operation
Located in San Juan County Utah (1993)
86% Weaning Percentage

Item	Number	Weight	Price	Unit	Total	Per Cow	Your Farm
			Dollars		. . . . . Dollars		
Receipts							
Calves							
Steers	158	530	92.00	Cwt	77,041	220.12	
Heifers	103	510	86.00	Cwt	45,176	129.07	
Culled Animals							
Bulls	2.5	1,700	51.00	Cwt	2,168	6.19	
Cows	38	1,000	43.00	Cwt	16,340	46.69	
Total Receipts					140,724	402.07	
Cash Costs							
Federal Grazing Fees	1,560		1.96	AUM	3,058	8.74	
Private Grazing Fees	520		13.00	AUM	6,760	19.31	
Hay	847		65.00	Ton	55,055	157.30	
Aftermath	910		12.00	AUM	10,920	31.20	
Salt/Minerals	42		2.25	Cwt	95	0.27	
Supplement	52		23.00	Cwt	1,196	3.42	
Replacement Bulls	2.5		1,600.00	Head	4,000	11.43	
Vet/Medicine	364		7.20	Head	2,621	7.49	
Trucking					924	2.64	
Fuel/Oil (Hay Feeding)	1,560		1.26	Gal	1,966	5.62	
Repairs (Lvstk Equip)					1,000	2.86	
Repairs (Fences & Bldgs)					650	1.86	
Horse Use (Shoeing, Vet)	4		150.00	Horse	600	1.71	
Hired Labor	12		1,000.00	Man	12,000	34.29	
Pickup	15,000		0.28	Mile	4,200	12.00	
Insurance			1.00	Head	350	1.00	
Property Tax	2,000		1.25	Acre	2,500	7.14	
Interest on Operating Loan of $150,000 for 6 months @ 11.00%					8,250	23.57	
Total Cash Costs					116,144	331.84	
Noncash Costs (Depreciation)							
Fences					1,262	3.60	
Livestock Handling Equipment					7,579	21.65	
Horse					240	0.69	
Buildings					932	2.66	
Total Noncash Costs					10,012	28.61	
Total Costs					126,156	360.44	
Return to Land and Management					14,568	41.62	

Assumptions:

Brood Cows	350
Weaning Percentage	86
Bull Replacement Rate (Percent)	33
Cows replaced every year	30-42

Feed costs for breeding bulls, replacement heifers, and stock horses have been factored into the per cow feed costs.

Budget prepared by Jim Keyes and Donald Snyder in cooperation with beef producers in San Juan County.

Dairy Budget
Estimated Costs and Returns Per Cow (1993)
for Four Herd Sizes

Item	60 Cows	80 Cows	110 Cows	200 Cows	Your Farm
			Dollars		
Receipts					
Milk Sales	2,183	2,308	2,245	2,412	
Cull Cows	220	193	171	215	
Bull Calves	45	45	45	45	
Heifer Calves	62	62	62	62	
Total Receipts	2,510	2,607	2,522	2,734	
Costs					
Variable Costs					
Feed	930	970	988	1,018	
Vet/Medicine	43	43	36	49	
Breeding	16	21	17	18	
Supplies, DHIA, Fees	127	145	133	139	
Equipment Maintenance	51	47	40	36	
Building Maintenance	56	38	48	39	
Machinery (Fuel/Oil, etc)	84	64	69	60	
Utilities & Misc.	115	105	117	103	
Hired Labor	124	150	150	125	
Custom, Lease, Hauling	87	108	85	80	
Interest	170	174	176	175	
Total Variable Costs	1,803	1,865	1,859	1,842	
Fixed Costs					
Cow Investment	132	132	132	132	
Cow Replacement	260	227	202	254	
Facilities & Equipment	359	321	290	253	
Total Fixed Costs	751	681	623	639	
Total Costs	2,555	2,546	2,482	2,480	
Returns to Mgt & Unpaid Labor	-44	62	40	254	
Assumptions:					
Culling Rate (Percent)	40	35	31	39	
Pounds Milk Sold	17,779	19,122	18,189	19,726	
Price/Cwt	12.28	12.07	12.34	12.23	
Percent Protein	3.24	3.21	3.13	3.19	
Investment: Facilities & Equipment	196,066	233,506	289,666	460,226	
Cow Value	1,200	1,200	1,200	1,200	
Value of Cull Cow	550	550	550	550	
Weaning Percent	80	80	80	80	
Value of Bull Calf	112	112	112	112	
Value of Heifer Calf	155	155	155	155	
Interest rate on Operation Capital and Investment (Percent)	11	11	11	11	

Budget prepared by Clark Israelsen and Larry K. Bond

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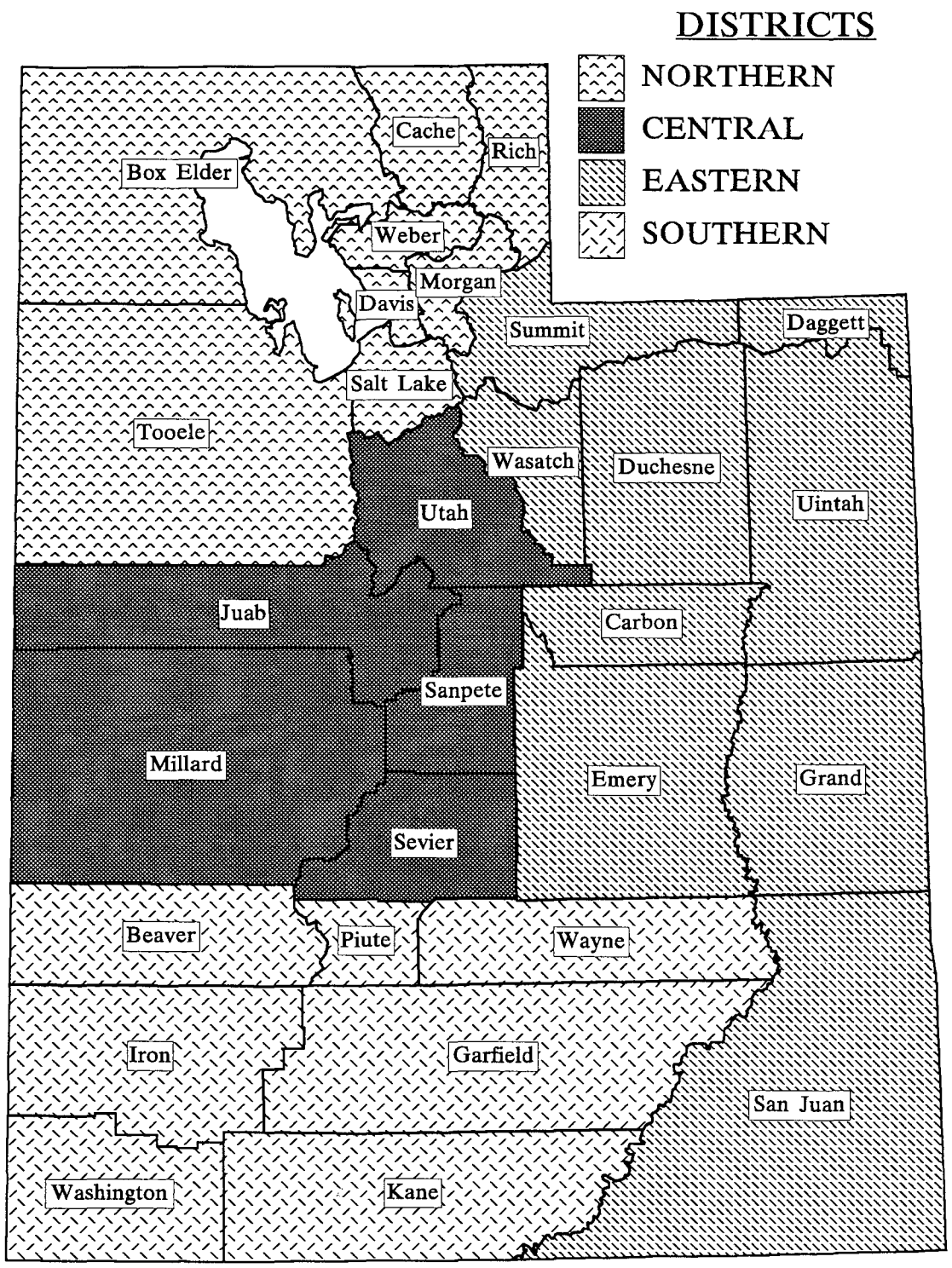
UTAH COUNTIES AND DISTRICTS



UNITED STATES DEPARTMENT OF AGRICULTURE
UTAH AGRICULTURAL STATISTICS SERVICE
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