

UTAH DEPARTMENT OF AGRICULTURE AND FOOD



2022 UTAH AGRICULTURAL STATISTICS AND ANNUAL SUMMARY REPORT



UTAH AGRICULTURAL STATISTICS

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Introduction

The Utah Field Office of the Mountain Region of USDA's National Agricultural Statistics Service (NASS) and the Utah Department of Agriculture and Food (UDAF) are proud to present the 52nd edition of this publication. Copies of the publication are also available on both organizations' Internet sites. This publication is provided to help inform farmers, ranchers, and the public about activities within UDAF 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.

Cooperation from farmers, ranchers, and agribusinesses responding to various survey questionnaires is essential for quality estimates; their cooperation make this publication possible. We thank them for their help and willingness to provide the data needed to produce these statistics.

This report would not be possible without the dedicated effort of our NASDA enumerators who collect this data. We thank them for their diligence and professionalism.

Estimates presented are current for 2021 production and January 1, 2022 inventories. Data users that need 2022 production information, or additional historic data, should contact the Utah Field Office toll free at 1-800-392-3202.

State and U.S. statistics are available on the NASS Web page at <https://www.nass.usda.gov>. Use the "Quick Stats" utility to search for current or historic data by clicking the Data & Statistics tab.

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

The following agricultural Web pages may interest you.

Organization

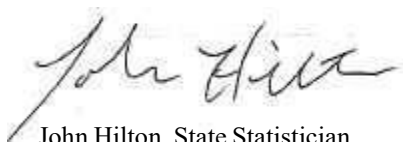
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Sincerely,



John Hilton, State Statistician
Mountain Region, Utah Agricultural Statistics

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2022 UTAH AGRICULTURAL STATISTICS



MESSAGE FROM THE COMMISSIONER

For over a century, the Utah Department of Agriculture and Food has worked with farmers, ranchers, and State and local partners to ensure the prosperity of Utah's agriculture and food industries and a safe, robust food supply for citizens of our beautiful state.

The importance of local food security has never been more pronounced. To address this issue, during the 2022 Legislative Session, UDAF received a \$1,000,000 appropriation for the Utah Food Security Processing Grant, a new program created to make immediate improvements to the local food supply. This was received with tremendous support with 79 applications from across 26 counties throughout Utah and over \$14 million in funding requests. We hope to acquire additional funding to expand this program in the future.

Farmers are no strangers to navigating challenges. Early 2022 brought about the most significant highly pathogenic avian influenza outbreak on record, impacting producers across the state. Our employees and community members rose to this challenge to swiftly respond to this outbreak and get the impacted businesses back in operation.

2022 also brought several new programs to the Department with the Utah Pollinator Program being established and LeRay McAllister Critical Land Conservation Program moving to UDAF. UDAF also received an influx of funding to substantially expand our Agricultural Water Optimization Program and funding to provide emergency loans to aid farmers suffering losses due to drought via the Emergency Disaster Relief Loan Program.

Thank you for your interest in and support of Utah agriculture. Please don't hesitate to reach out to us if we can be helpful in any way.

Craig W Buttars,
Utah Department of
Agriculture and Food
Commissioner



ABOUT THE UTAH DEPARTMENT OF AGRICULTURE AND FOOD

With roots dating to 1921, the Utah Department of Agriculture and Food (UDAF) is one of the state's oldest agencies. UDAF oversees dozens of legislatively mandated programs that strengthen the economic wellbeing of the state's agriculture and food producers, improve the health of our rangelands and watersheds, and protect consumers. With responsibilities encompassing animal health, food and animal feed safety, monitoring for reliable weights and measures and label compliance, invasive species mitigation, laboratory analysis, conservation efforts, and the promotion of local food and agriculture businesses via the Utah's Own program — the work of the Utah Department of Agriculture and Food impacts nearly every aspect of daily life.

OUR VISION:

To lead Utah towards self-reliance by preserving, promoting, and protecting all forms of agricultural production and processing to ensure a safe and abundant supply of locally-produced food.

OUR MISSION:

To support the development of Utah's agriculture and food industries, serve as a steward of our natural resources, safeguard public health, protect consumers, and ensure a quality food supply.

OUR VALUES:

- Accountability
- Customer Service
- Guardianship
- Leadership
- Professionalism
- Relationships
- Stewardship



UDAF DIVISIONS

▸ OFFICE OF THE COMMISSIONER

Ensures all divisions work to meet statutory responsibilities. Includes the Agricultural Mediation Program, Grazing Improvement Program, and the Office of Internal Audit.

▸ ADMINISTRATIVE SERVICES

Provides support to all divisions within the Department to ensure state policies and procedures are implemented to meet both internal and external audit standards.

▸ ANIMAL INDUSTRY

Ensures the health and productivity of Utah livestock, poultry, and aquaculture, preserves industry commerce, and protects human health. Includes the Animal Health, Aquaculture, Brand Inspection, Domestic Elk, Meat and Poultry Inspection, and Predator Control programs.

▸ CONSERVATION

Preserves and protects Utah's soil and water resources and ensures proper development and utilization through grant and loan programs which help the agriculture community achieve goals for productivity, efficiency, and environmental stewardship. Includes the Agriculture Resource Development (ARDL) Program, Agricultural Voluntary Incentives Program (AgVIP), Soil Health Program, and Water Optimization Program.

▸ GRAZING IMPROVEMENT PROGRAM

Improves the productivity, health, and sustainability of our rangelands and watersheds by assisting producers with livestock grazing management practices.

▸ LABORATORY ANALYTICS

Provides analytical services to the other divisions within the Department and provides chemical, physical, and microbiological analyses for a wide variety of products to protect the state's consumers and agricultural industries.

▸ MARKETING & ECONOMIC DEVELOPMENT

Provides communications support to all divisions and economic development support to Utah's agriculture and food businesses. Includes the Utah's Own program, Specialty Crop Block Grant Program, and International Trade Program.

▸ MEDICAL CANNABIS AND INDUSTRIAL HEMP

Ensures safety, compliance, and equity to the medical cannabis and industrial hemp industries by monitoring Utah's processors and retail establishments. This program ensures consumer safety and product integrity by approving products prior to entering the Utah market and verifying through inspections that safety and label standards are met.

▸ PLANT INDUSTRY

Ensures disease and pest-free plants, grains, and seeds; properly labeled agricultural commodities, the safe application of pesticides and farm chemicals, and assists farmers and ranchers in caring for and enhancing Utah's natural resources.

▸ REGULATORY SERVICES

Protects public health and promotes fair and equitable trade of commodities through food, product, weights and measures oversight. Includes the Bedding, Upholstered Furniture, and Quilted Clothing; Dairy Compliance, Manufactured and Retail Foods, Kratom, Utah Produce Safety, and Weights and Measures Programs.

OFFICE OF THE COMMISSIONER

The Office of the Commissioner is the executive office of the Utah Department of Agriculture and Food and ensures all divisions work to meet statutory responsibilities.

AGRICULTURAL MEDIATION PROGRAM

The Utah Agricultural Mediation Program (UAMP) mediates agricultural disputes between farmers and ranchers and the United States Department of Agriculture (USDA) throughout the state. This program is administered by UDAF and has been certified by the USDA. UAMP is a voluntary mediation program created in keeping with the provision of the Agricultural Credit Act of 1987, Title 5 "State Mediation Programs."

GRAZING IMPROVEMENT PROGRAM (GIP)

The Grazing Improvement Program exists to improve the productivity, health, and sustainability of Utah's rangelands and watersheds through well-planned and managed livestock grazing. Healthy rangelands contribute to a healthy livestock industry and productive rural economies. GIP works with federal agencies and partners to promote efficient multiple-use management practices of public lands.

OFFICE OF INTERNAL AUDIT

The Office of Internal Audit (OIA) was newly created in 2021. This office exists to help the Department accomplish its objectives by providing independent objective analysis, evaluations, and recommendations of the Department's operations. The vision of the OIA is to become a trusted advisor that assists the Department in its progression to improve and safeguard all its divisions, programs, and processes.

ADMINISTRATIVE SERVICES DIVISION

The Division of Administrative Services provides support to all divisions within the department to insure state policies and procedures are implemented to meet audits conducted throughout the year by state finance and the state auditor's offices. The division manages an expanding range of federal and state grants. This division includes Financial Services and Homeland Security and Risk Management.

MEDICAL CANNABIS AND INDUSTRIAL HEMP DIVISION

INDUSTRIAL HEMP PROGRAM

As of August 1, 2022, the Industrial Hemp Program licensed 95 hemp processors; that are working diligently to provide safe products for Utah's market. Currently; over 1,059 hemp products are registered for retail in Utah just after renewal; time, with the expectation of surpassing last year's number of 2,670 registered products. The Industrial Hemp program's initiative for Utah-based; retailers to register as hemp retailers, where all brick-and-mortar retailers in; Utah as well as online retailers based in Utah must register in order to; continue selling registered products within the state has continually increased; numbers to 1,586 retailers have received permits.

During the 2022 Legislative Session, the department and lawmakers worked; together to change the law and remove hemp growers from the state's; regulatory authority, lowering costs for both producers and the department.

MEDICAL CANNABIS PROGRAM

The Medical Cannabis Program is starting the fourth year of production, and continues to worked closely with the Utah Department of Health and Human Services and the licensed cannabis cultivators (8), processors (14), and labs (1) to ensure Utah's 54,000 medical cannabis patient cardholders have access to safe and high-quality product. UDAF's Medical Cannabis Program has registered over 886 authorized agent cards to employees who can legally work in cannabis production facilities. There are 433 active cultivation agent cards, along with 445 active processor agent cards, and 8 active laboratory agent cards.

Through July of 2022, the eight medical cannabis growers have harvested over 51,000lbs of medical cannabis. The 14 processors have produced over 1.4 million products; this include vape carts, concentrates, flower, and gelatinous cubes that have been sent to the pharmacies for patients to purchase.

UDAF's Medical Cannabis Inspectors conduct regular inspections on all 23 cannabis production facilities including preliminary security inspections before the official opening of each facility. Medical Cannabis Compliance Specialists performed 64 Cultivation Inspections, 89 Processor Inspections and 7 Lab Inspections, along with 34 label inspections at medical cannabis pharmacies. Pharmacy/Labels 34 Inspections include audits of production records, reviewing on premise surveillance footage, and working closely with owners to ensure all rules and statutes are being enforced. Currently over 2,824 medical cannabis quality assurance samples were conducted this year. 2,734 tests have passed lab tests and only 90 had failed and were held for destruction or remediation.

ANIMAL INDUSTRY DIVISION

The focus of the Animal Industry Division is the prevention and control of animal disease through outbreak prevention, monitoring, education and quarantine as necessary. The division also actively engages in livestock brand identification and theft prevention as well as oversees the Utah Horse Racing Commission.

MAJOR PROGRAMS

- ▶ **ANIMAL HEALTH**
- ▶ **DOMESTIC ELK**
- ▶ **MEAT AND POULTRY INSPECTION**
- ▶ **AQUACULTURE**
- ▶ **LIVESTOCK BRAND INSPECTION**
- ▶ **PREDATOR CONTROL**

AQUACULTURE PROGRAM

The Aquaculture, or Fish Health, Program promotes the practice of aquaculture in order to augment food production, expand employment, and promote economic development while protecting the aquaculture industry and the public fishery resource from aquatic animal diseases.

In FY2022, Utah imported 1,446,00 aquatic animal eggs (220,000 arctic grayling, 665,000 kokanee salmon, 315,000 cutthroat trout, and 246,000 rainbow trout) and 1,610,204 aquatic animals (838,365 wiper, 430,000 fathead minnow, 98,600 black crappie, 75,358 bluegill, 28,501 catfish, and a mix of other species). There are 52 licensed facilities: 40 fee fishing and 12 aquaculture.



ANIMAL INDUSTRY DIVISION

ANIMAL HEALTH

The Animal Health Program oversaw several disease outbreaks in FY2022 and increased preparedness for disaster and emergency animal disease response.

Diseases seen in FY2022 include:

- Highly Pathogenic Avian Influenza
- Equine Infectious Anemia
- Chronic Wasting Disease
- West Nile Virus
- Brucella ovis
- Trichomoniasis

Advances in Information Management:

Animal Health has been instrumental with advances in information management. The Department has received grants to facilitate the submission of health data electronically to eliminate transcription errors and provide real-time results to monitor the health of the state. UDAF has been encouraging the use of RFID tags and has been providing tag readers to certain industries. The goal is a smooth transfer of information from the animal to the lab and back to the agencies, veterinarians, and producers in a fully electronic path.

FY2022 ANIMAL HEALTH EXPORTS

- CVIs: 7,489
- Total Animals: 307,183
- Cattle: 224,010
- Pigs: 53,174
- Sheep: 18,270
- Horses: 7,815

FY2022 ANIMAL HEALTH IMPORTS

- CVIs: 9,700
- Total Animals: 3,869,207
- Poultry: 3,763,158
- Waterfowl: 23,705
- Cattle: 73,887
- Sheep: 4,342



ANIMAL INDUSTRY DIVISION

AVIAN INFLUENZA OUTBREAK

Management of Highly Pathogenic Avian Influenza in commercial, exhibition, and backyard poultry:

UDAF Animal Health worked with industry partners including USDA Animal and Plant Health Inspection Service, the Utah Division of Wildlife Resources, the Utah Department of Health and Human Services, the Utah Veterinary Diagnostic Laboratory (UVDL), and the National Veterinary Services Laboratory in a One Health approach to contain the outbreak and allow for the safe movement of product and rapid return to business on affected farms. Staff members involved in the outbreak response were recognized by Governor Spencer J. Cox and Commissioner Craig Butters.



Front Row L-R: Jason Clarke, David Deng, Adell Young, Amber Brown, Leann Hunting, Bailee Woolstenhulme, Zach Brook, Leilani Wong, and Noel McSpadden

Back Row L-R: Elliot Hodson, Owner of Ritewood Farms Mark Woodward, Dr. Dean Taylor, Miland Kofford, Talisha Bacon, Brett Montgomery, Dallas Ware, Travis Waller, William Rigby, Commissioner Craig Butters, Phil Crowther, Governor Spencer J. Cox, Garrick Hall, Thayne Mickelson, Joseph May, Jason Noble, Amanda Petersen, Dr. Amanda Price, Jim Bowcutt, and Justine Wilson

Not pictured: Landen Kidd, James Burton, Robert Erickson, Deputy Commissioner Kelly Pehrson, Caroline Hargraves, Layne Robinson, Rodney Roueche, Jessica Coats, Sarah Allen, Shannon Jaworski, Hannah Freeze, Jace Farnsworth, and Nick Reithel.

ANIMAL INDUSTRY DIVISION

BRAND INSPECTION PROGRAM

The Livestock Inspection Bureau protects Utah's Livestock Industry by providing a quality, cost-efficient, timely, and courteous service to the livestock producers of the state. The program is built to protect the cattle and horse industry from theft by verification of ownership and denying a market for potential thieves. The program aids in the recovery and return of missing and estray livestock to their rightful owners.

2022 Data:

11 full-time inspectors, 35 part-time inspectors

26,792 inspection certificates issued

252,644 head of cattle inspected

8,074 head of horses inspected

734 head of sheep inspected

12,748 registered brands and earmarks

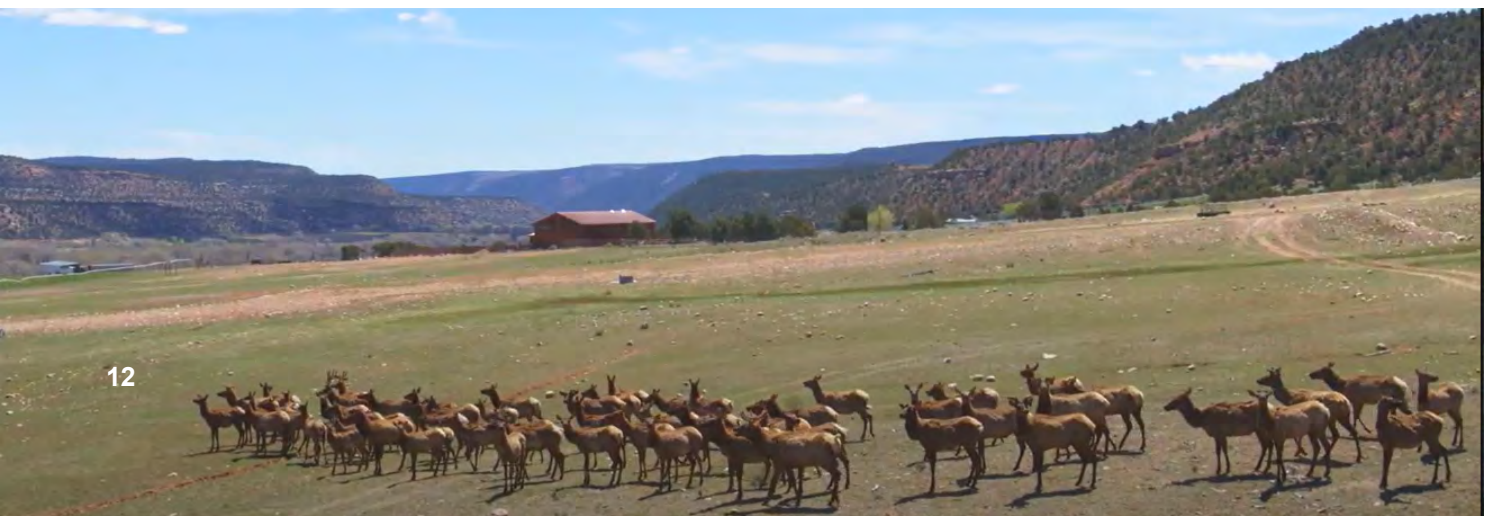
551 new brands and earmarks registered

329 head of livestock returned to owners, valued at approximately \$324,050

DOMESTIC ELK PROGRAM

The Domestic Elk Program oversees the importation, possession, and transportation of domesticated elk into the state. Inspections and inventories are performed on facilities yearly. Tracking animals is vital to the prevention and mitigation of disease outbreaks.

This year, just over 3,700 head of elk were scanned using RFID technology to prevent human error. It has been an objective of the program to get and maintain proper inventories of elk farms across the state. There are currently 35 facilities in Utah that range in size of operation.



ANIMAL INDUSTRY DIVISION

MEAT AND POULTRY INSPECTION PROGRAM

The Meat and Poultry Inspection Program is considered “equal to” the Federal Meat Inspection Program. Utah currently has 3 State harvesting plants, 10 State harvesting and processing plants, 6 State processing-only plants, and 1 Talmadge Aiken (T/A) harvesting plant, 3 T/A harvesting and processing plants, and 11 T/A processing only plants which gives us a total of 34 official plants. Utah also has 58 custom-exempt plants and 34 Farm Custom Slaughter permittees (tripod mobile harvesting rigs) for an overall total of 126 establishments.

UDAF's Meat and Poultry Inspection Program (MPIP) consists of 28 meat inspection staff members who oversaw 126 operations. The Meat and Poultry Program inspected and passed 64,072 animals for human consumption, performed 1,868 animals and carcasses dispositions, and verified over 28,744 inspection tasks which insures the establishments are producing safe, unadulterated, and properly labeled products during the 2022 calendar year. This program has proudly served the citizens of Utah since 1967.

PREDATOR CONTROL PROGRAM

The Utah Predator Control Program has had much success this past year. The Predator Control Program is a cooperative program of the Utah Department of Agriculture and Food, United States Department of Agriculture - Wildlife Services, and Utah Division of Wildlife Resources (UDWR). Funding comes from state and federal resources as well as producers. The purpose of this program is to protect livestock, mostly sheep and cattle, from depredation. The primary predators are coyotes, cougars, bears, ravens and foxes.

Part of the Predator Control Program is conducting aerial operations focused on finding and tracking animals; they also conduct hunting operations through these trips. A major success from these aerial operations was working with the UDWR to capture and collar a wolverine that was caught killing sheep. This was the first ever wolverine captured and collared Utah. Throughout this past year, the Utah Predator Control Program conducted multiple hunting operations for the protection of mule deer across the state.

The program also focused on decreasing the incidence of Chronic Wasting Disease (CWD) in the Domesticated Elk Program. Along with decreasing CWD in the domesticated farms, the program has worked to prevent the spread to wildlife surrounding the farms.

PREDATORS REMOVED STATEWIDE:

- Bears: 22
- Bobcats: 4
- Coyotes, Burrow/Den: 31
- Coyotes: 3,177
- Foxes, Red Burrow/Den: 2
- Foxes, Red: 65
- Lions, Mountain: 19
- Ravens, Common: 2,691

CONSERVATION DIVISION

The programs within the Conservation Division work to sustain Utah's agricultural lands and protect the state's natural resources. The Division works with local, state, federal, and private entities to identify resource concerns specific to each area of the state. Management plans are established to determine how to address those resource concerns. Once these plans are developed, UDAF conservation planners work with the local landowners, providing technical assistance and making them aware of funding opportunities to implement projects on their operations. Conservation work, when implemented correctly, can result in improved natural resources while increasing agricultural production for producers and ultimately improving the quality of life for all the residents here in Utah.

MAJOR PROGRAMS

- ▶ **AGRICULTURAL RESOURCE DEVELOPMENT LOAN (ARDL) PROGRAM**
- ▶ **AGRICULTURAL VOLUNTARY INCENTIVE PROGRAM (AGVIP)**
- ▶ **AGRICULTURAL WATER OPTIMIZATION PROGRAM**
- ▶ **LAND CONSERVATION PROGRAM**
- ▶ **SALINITY CONTROL PROGRAM**
- ▶ **UTAH SOIL HEALTH PROGRAM**
- ▶ **UTAH CONSERVATION COMMISSION AND CONSERVATION DISTRICTS**
- ▶ **UTAH POLLINATOR PROGRAM**

Many of these programs have been in existence since the 1970's, and continue to be effective at improving wildlife habitat, water conservation, water quality, and plant communities, all while improving the efficiency of the operations of agricultural operations. The Conservation Division consists of 40 employees stationed throughout the state. In FY-2022 these employees managed 655 contracts from various programs totaling \$66,868,538.

CONSERVATION DIVISION

CONSERVATION DISTRICTS

There are 38 Conservation Districts throughout Utah. These districts focus on reducing soil erosion, but also address other important resource concerns such as improving water quality and wildlife habitat, conserving water, eradicating invasive weeds, and other issues that could potentially impact the natural resources in the state. The board members of each conservation district are appointed by the Commissioner of the Department of Agriculture and Food and serve for a two-year term.



In FY2022, local Conservation Districts sponsored 73 outreach events. These events included field days, where the Districts and other state and federal agencies educated K-12 children about the importance of agriculture and natural resources across Utah. It also included dinners that were used to educate landowners about conservation practices they could implement on their properties. The districts currently have 9 no-till drills they rent out to producers; 2,666 acres were planted using those drills in FY2022. Local Districts also take an active roll in the treatment of invasive weeds, treating over 14,000 acres for various invasive species throughout the state.

AGRICULTURAL VOLUNTARY INCENTIVE PROGRAM (AGVIP)

AgVIP program helps producers implement practices that can increase crop yields, improve soil health, and add value to operations while improving water quality. AgVIP has proven to be an effective mechanism to improve water quality, and educate agricultural producers about the benefits of the proper application of nutrients on the crops. This program develops nutrient management plans for producers, then pays them a \$12 per acre incentive payment for every acre they have enrolled in the program for a three-year period. In FY-2022, 31 producers enrolled in the program, covering 30,855 acres. When AgVIP began, the overall goal was to enroll 50,000 acres in the program. With the FY2022 applications, this goal was surpassed bringing the total acres enrolled to 56,635.

CONSERVATION DIVISION

AGRICULTURAL RESOURCE DEVELOPMENT LOAN (ARDL) PROGRAM

The ARDL Program finances improvements for landowners to provide for greater efficiencies in agriculture operations, rangeland improvements, water and soil conservation, disaster assistance, and environmental quality.

In FY2022, 15 ARDL loans were approved, totaling \$1,879,054. This is down from the average number of loans that are normally approved annually. We believe this has to do with the uncertainty in the economy and the rising cost to implement projects currently. With interest rates increasing through private lenders and with the number of irrigation projects increasing due to Ag. Water Optimization, we expect the number or ARDL loans to greatly increase in FY2023.

The number or repayments remains constant, with 44 loans being paid off in FY2022, and the program continues to have a great track record of nearly no defaults since the beginning of the program. There are currently 229 active ARDL Loans totaling \$16,659,810.

In FY2022 the Emergency Disaster Relief (EDR) Loan Program was also initiated to help producers receive funding to cover losses accrued due to the drought. In FY2022, The legislature appropriated \$5 million to UDAF for this program and UDAF received permission to borrow funding from the Ag. Water Optimization Program if there was additional demand. This program generated high interest and 66 EDR loans were approved totaling \$5,318,536. Applications for the EDR program will be accepted through November 1st 2022.



CONSERVATION DIVISION

LAND CONSERVATION PROGRAM

During the 2022 legislative session, the LeRay McAllister land conservation easement program was moved to UDAF from the Governor's Office of Planning and Budget (GOPB). This resulted in the development of the Land Conservation Program at UDAF, which will oversee the LeRay McAllister Critical Land Conservation Easement Program.

The vision of the Land Conservation Program is to preserve quality of life for all Utah residents and future generations by promoting conservation and protection of Utah's agricultural industry and natural resources and conserve and preserve agricultural and open lands in Utah where people, agriculture and nature can thrive by providing professional assistance to landowners and municipalities to encourage environmentally sound planning, land conservation, and stewardship.

In FY2022 UDAF hired a Land Conservation Program Manager to oversee this new program. Names were also submitted to the Governor's office as recommendations for who should be appointed to serve on the Land Conservation Board. This Board will oversee the development of policy, the management of the easement program, and provide input as to how the program should be managed. UDAF is currently looking to acquire additional funding for the LeRay McAllister Program and this will be a major objective during the 2023 legislative session.



CONSERVATION DIVISION

UTAH POLLINATOR PROGRAM

In the 2021 Legislative Session, the UDAF secured funding to create the Utah Pollinator Program (UPP) with representation from Southern Utah University, Utah State University, the Utah Division of Wildlife Resources, and the Natural Resource Conservation Service. The UPP developed an outreach campaign and a new website, which had over 8,000 clicks in the first month after it went live and contains information about what types of plants are beneficial for native pollinators, how to integrate pollinator plants into landscape on your property, and the overall benefits of pollinators in the state of Utah.

The UPP also recognized that it is often difficult for individuals to obtain native pollinator plant species due to the lack of availability in this area. The UPP obtained seeds for some of the "hard to get" species and grew them in greenhouses. Over 60,000 plants were grown in four greenhouses in Northern Utah. An open application period for individuals interested in obtaining those plants was held and 326 applications were received. The applications are currently being ranked by members of the UPP and will be announced in FY2023.

UTAH SOIL HEALTH PROGRAM

During the 2021 legislative session, the Utah Soil Health Program received ongoing funding and became an official part of the Utah Department of Agriculture and Food. The Soil Health Program has made great headway in FY2022. With the hiring of three staff members, including a program manager and two soil health planners, the excitement for soil health has greatly increased across the state. In FY2022, six soil health workshops were held throughout the state. These workshops showed agency partners as well as private landowners the benefits implementing soil health practices. These workshops were attended by 588 individuals and have helped create dialogue between partners about the benefits soil health.

In addition to the workshops, \$2,792,290 in grants, with an additional \$1,489,929 in matching funds, was secured to develop 16 on-farm demonstration sites. Data will be collected on these demonstration sites to document the benefits of soil health practices and better

18 understand what will and will not work when implementing soil health practices in the state.

CONSERVATION DIVISION

AGRICULTURAL WATER OPTIMIZATION GRANT PROGRAM

The Agricultural Water Optimization Grant Program is now in its 4th year and continues to gain interest throughout the state. During the 2022 Legislative Session, \$70 million in American Rescue Plan Act (ARPA) funding was given to the Ag. Water Optimization Program. This is in addition to \$3,211,831 one-time legislative funding appropriated to the program during the 2021 legislative session.

In FY2022, UDAF contracted with, 163 water users to implement Ag. Water Optimization projects. These projects treated 404,722 acres and will help make on-farm irrigation systems more efficient and improve water conveyance systems to reduce water loss. In total, \$28,722,940 in funding was contracted for Ag. Water Optimization projects in FY2022. The projected water savings of these projects is estimated to be 80,825 acre feet a year. The Ag. Water Optimization Program will continue to receive applications through FY-23.

Application Period	Funding Requested	# Applications Funded	Funding Awarded	Total Project Cost	Acres Impacted	Projected Annual Water Savings
FY2019	\$3,506,077	16	\$2,761,620	\$15,763,257	54.497	27,913 AF/Y
FY2022	\$10,666,143	19	\$2,713,155	\$9,742,947	48.375	15,283 AF/Y
Spring FY2022	\$34,548,966	141	\$25,512,109	\$95,149,309	356.374	65,542 AF/Y
Total	\$48,721,186	176	\$30,986,884	\$120,655,513	459,246	108,738 AF/Y



LABORATORY SERVICES DIVISION

The Laboratory Services Division operates as a service for the other divisions within UDAF and other state agencies and programs. The division laboratories provide chemical, physical and microbiological analyses of agricultural and food products. Field inspectors from the Plant Industry, Conservation, Regulatory Services and Animal Health Divisions collect most of the samples analyzed by the laboratories. Some samples may only be tested for specific ingredients, as stated by the associated label guarantee; others are also examined for undesirable materials and contaminants.

The labs perform most of their testing on samples for the dairy, animal feed, fertilizer, water quality, hemp, medical cannabis and USDA meat programs. The labs also provide important testing for lower sample volume providers such as the Utah Rapid Response Team, DABC, the EPA pesticide program, and Utah's kratom program.

LABORATORIES

- ANALYTICAL CHEMISTRY LAB
- DAIRY TESTING LAB
- FEED AND FERTILIZER LAB
- MEAT TESTING LAB
- PESTICIDE TESTING LAB



LABORATORY SERVICES DIVISION

ANALYTICAL CHEMISTRY LAB

The Analytical Chemistry Lab uses advanced instrumentation to quantify the amounts of various chemical compounds in specific agricultural products, such as CBD and THC in hemp. They also analyze samples for the presence of common adulterants such as pesticides, mycotoxins, residual solvents, and drugs. The Analytical Chemistry Lab is responsible for testing products registered with the Utah Medical Cannabis Program and the Industrial Hemp Program. These products are tested for their cannabinoid content and adulterants to ensure they comply with state regulations.

DAIRY TESTING LAB

The Dairy Testing Lab is responsible for testing Grade-A milk and dairy products, including pre-pasteurized milk and finished dairy products, such as ice cream, cottage cheese and coffee creamer. The laboratory also administers a laboratory certification program for the local dairy industry.

FEED AND FERTILIZER LAB

The Feed and Fertilizer Lab analyzes feed and fertilizer products to ensure label guarantees. This lab also tests for the presence of harmful adulterants, such as heavy metals or other toxins.

MEAT LAB

The Meat Lab analyzes samples obtained during inspections of plants and processing facilities in Utah. The lab tests for the protein and fat content of the meat samples. Samples are also tested for harmful pathogens to ensure that production plants are following proper hygienic practices.



MARKETING AND ECONOMIC DEVELOPMENT DIVISION

UDAF's Marketing and Economic Development (MED) Division supports the economic prosperity of Utah's food and agriculture producers, and raises awareness and support of local agriculture and food products.

The division also provides support to all UDAF divisions through internal and public communications via the UDAF and Utah's Own websites, social media accounts, and content development for print, digital, and video needs.

The Marketing and Economic Development division is comprised of the International Trade Program, the Specialty Crop Block Grant Program, and the Utah's Own Program. In addition to these programs, the division provides staff support to Utah's Local Food Advisory Council, administers the Tart Cherry, Apple, and Sheep marketing boards; serves as the treasure for the Junior Livestock Association, publishes agricultural market reports, and works closely with community stakeholders and industry leaders to develop healthy rural economies.

MAJOR PROGRAMS

- ECONOMIC DEVELOPMENT
- INTERNATIONAL TRADE
- LOCAL FOOD ADVISORY COUNCIL
- SPECIALTY CROP BLOCK GRANT PROGRAM
- UDAF COMMUNICATIONS
- UTAH'S OWN



MARKETING AND ECONOMIC DEVELOPMENT DIVISION

LOCAL FOOD ADVISORY COUNCIL

The Local Food Advisory Council was created in 2017 with the purpose of promoting vibrant locally-owned farms, strong communities and healthy eating; enhancing local food economies; and improving local food access for all Utahns. The council holds four annual meetings to bring members of the local food community together to discuss challenges and identify possible solutions.

In 2022, the council was renewed for another 5 years. Also during this time, the working groups were consolidated to include: 1) Agricultural Land Preservation 2) Production and Distribution, 3) Food Security, and 4) Regulations.

INTERNATIONAL TRADE PROGRAM

UDAF's International Trade Program exists to connect Utah agriculture and food producers with a variety of local and global resources to facilitate growth into international markets. These resources include partnerships with the Western United States Agricultural Trade Association (WUSATA), World Trade Center Utah, the U.S. Commercial Service, and the Salt Lake Regional Small Business Development Center

In 2022, the International Trade Program hosted an inbound trade mission in partnership with WUSATA and the New Mexico Department of Agriculture; this was financed with WUSATA's USDA Market Access Program funds. UDAF hosted 60 b2b matchmaking meetings connecting 9 local businesses (plus one business from California) with 7 buyers/importers from Canadian markets and took the buyers on a tour of 5 retail businesses introducing buyers to dozens of other local food businesses.

The International Trade Program also worked with representatives from the Small Business Administration and a variety of other export resource partners in the state to found the Utah International Outreach Team (UIOT), a collaborative team of local, state, regional, and federal export assistance agencies. With the "no wrong door" policy, producers interested in exporting can contact any UIOT member for export assistance and will be referred to the correct agency.



MARKETING AND ECONOMIC DEVELOPMENT DIVISION

MARKET REPORTS

Publishing market reports and commodity price information is critical for agriculture producers and agribusinesses. UDAF's Marketing and Economic Development team is proud to provide this important service and regularly shares statewide livestock auction reports as well as information about hay, dairy, and wheat prices.

SPECIALTY CROP BLOCK GRANT PROGRAM

The purpose of the Specialty Crop Block Grant Program (SCBGP) is to enhance the awareness and consumption of specialty crops, defined as "fruits, vegetables, tree nuts, dried fruits, horticulture, and nursery crops (including floriculture).

In FY2022, UDAF received two appropriations of USDA Specialty Crop Block Grant Funds, H.R. 133 SCBGP Stimulus Funding (\$489,662.58) and Farm Bill Funding (\$368,005.91). These funds were distributed through two separate competitive statewide review processes among 12 different projects throughout the state.

UTAH'S OWN PROGRAM

Utah's Own is a marketing program "dedicated to the promotion of locally produced products of agriculture" as outlined in Utah Code Subsection 4-8-104(5). The Utah's Own program supports more than 250 members which include farmers, ranchers, food artisans, restaurants, and other businesses that produce goods using local agricultural products such as florists and body care producers.



In FY2022, Utah's Own updated program rules and policy outlining membership eligibility and marketing principles. Due in part to these modifications, Utah's Own has found renewed focus and support among members and consumers. For example, one new rule states that additional marketing support may be given to members who use Utah-grown or raised ingredients in their products. By following this rule, the Utah's Own program has refined its branding to follow the seasonal calendar of Utah's agricultural products like cherries, tomatoes, peaches, and apples. As a result, Utah's Own membership grew by more than 100 percent with the greatest growth found among Utah farmers and ranch membership renewals (an increase of more than 500 percent).

PLANT INDUSTRY DIVISION

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

MAJOR PROGRAMS

- ▶ ANIMAL FEED
- ▶ APIARY
- ▶ FERTILIZER
- ▶ FRUIT AND VEGETABLE INSPECTION
- ▶ GRAIN INSPECTION
- ▶ INSECT
- ▶ INVASIVE SPECIES MITIGATION
- ▶ NOXIOUS WEED
- ▶ NURSERY
- ▶ ORGANIC CERTIFICATION
- ▶ PESTICIDE
- ▶ SEED INSPECTION



PLANT INDUSTRY DIVISION

CHERRY DIVERSION

The Cherry Industry Administrative Board (CIAB) administers a marketing order at the request of, by the vote of, and at the expense of, the tart cherry industry. It was created to assist the industry in dealing with the erratic production cycle of red tart cherries and to improve returns to the growers and processors of red tart cherries in the United States. The CIAB regulates the processors (aka handlers) of tart cherries. It impacts processors by establishing the portion of each year's production that must be moved into alternative outlets or through alternative options. The order establishes the tools and mechanisms to deal with surpluses or shortfalls of supply for processors.

Division employees didn't assist tart cherry growers and/or processors in implementing the protocols of the cherry diversion program in their orchards and processing plants in 2021. Because of a small tart cherry crop nationwide, no diversion was held.

FRUIT AND VEGETABLE INSPECTION

At the request of two onion packing sheds, 4,454,228 pounds of onions were inspected for U.S. No. 1 grade certification following established USDA-FFV marketing standards represented by 58 inspection certificates. UDAF also provided field inspections, sampling, and testing for food-borne illness microbial contamination on onions which helps meet food safety standards for certain onion processors and restaurant contracts. No apple inspections were conducted in 2021.



PLANT INDUSTRY DIVISION

FERTILIZER PROGRAM

Administration of the Utah Fertilizer Act (Title 4, Chapter 13) involves regulating the registration, manufacture, distribution, sale, use, and storage of fertilizer products. UDAF regulates and licenses fertilizer blenders, monitors the applicators that spray or apply fertilizer, conducts a tonnage assessment program of fertilizers distributed in the state and takes samples for testing and analysis.

571	Fertilizer Registrants	6,720	Fertilizer Products Registered
148	Official Samples Submitted for Analysis	25	Number of those Samples Not Registered at the Time of Sampling
7	Number of Samples in Violation of the Guaranteed Analysis	4.73%	Violation Percentage
47	Number of Fertilizer Blender Licenses Issued	0	Number of Citations Issued

COMMERCIAL FEED

Administration of the Utah Commercial Feed Act, (Title 4, Chapter 12) involves regulating the registration, manufacture, distribution, and sale of feed products. UDAF regulates customer formula feed manufacturers and takes samples of commercial feed products for testing and analysis. Feed safety inspections relating to Bovine Spongiform Encephalopathy (mad cow disease) are also done under an FDA contract.

937	Feed Registrants	17,269	Feed Products Registered
247	Official Samples Submitted for Analysis	56	Number of those Samples Not Registered at the Time of Sampling
6	Number of Samples in Violation of the Guaranteed Analysis	2.43%	Violation Percentage
54	Number of Custom Formula Feed Mix Licenses Issued	0	Number of Citations Issued
50	BSE Inspections for FDA	4	Out-of-Business Inspections for FDA
		30	Official Establishment Inventory Inspections for FDA

PLANT INDUSTRY DIVISION

INSECT AND PEST PROGRAM

The importance of early detection and rapid response to invasive pests is critical for agriculture's future success. Invasive pests and diseases are moving around the world at an alarming rate due to the growth of commerce and worldwide trade. These developments have created challenges and new pathways of introduction. Agricultural pests have the potential to impact our nation's food crops much like a natural disaster, with annual losses estimated to be between 20-25% depending on host and species. While many insects are beneficial and we support pollinators, invasive pest infestations can be devastating to agriculture, as well as our environment.

INVASIVE INSECT DETECTION

Japanese beetle: (*Popillia japonica*) is an exotic pest of turf, ornamental, vegetable, and fruit plants. Established populations are found in most states east of the Rocky Mountains. In Utah, small populations of this pest have been detected in recent years. In response, UDAF has declared an insect infestation emergency and eradication efforts to eliminate the pest are underway. In 2021, a total of 381 acres of irrigated turf were treated throughout Davis, Salt Lake, Utah, and Weber counties. In that same year, 5,315 Japanese beetle traps were placed across the state in all 29 counties. A total of 68 beetles were found in three counties (Davis, Salt Lake, and Weber). In a sign of the eradication's progress, the Japanese beetle population fell statewide by 35% compared to the previous year. In 2022, high density (delimiting) trapping continues in areas where beetles have been detected; turf treatments were conducted in areas of heavy infestation.

Spongy moth: (*Lymantria dispar*) is an invasive defoliator of many species of hardwood trees. Populations are established in New England and parts of the Midwest and South. UDAF monitors for introductions of this pest. In 2021, 2,260 spongy moth traps were deployed around the state. Though a single spongy moth was found in Salt Lake County in the previous year, no target pests were detected in 2021. High density trapping continue around this previous capture location. If no further detections are made in 2022, the area will be declared free of the pest.

European corn borer: (*Ostrinia nubilalis*) is a pest of corn and other field crops that was accidentally introduced into Massachusetts over 100 years ago. It has since spread throughout most states east of the Rocky Mountains. UDAF conducts an annual survey of this pest. In 2021, 10 counties were surveyed; a total of 87 traps yielded no target pests.

Pine shoot beetle: The invasive pine (*Pinus*) boring insect pine shoot beetle (*Tomicus piniperda*) was first found in Ohio in 1992. It has spread throughout the Midwest since that time. UDAF monitors for this pest annually. In 2021, 25 traps were placed among eight different counties. No target pests were found in any of the trapping sites.

PLANT INDUSTRY DIVISION

APIARY INSPECTIONS

The history of Utah's Apiary Program dates back prior to statehood, when the area was still a United States (U.S.) territory. It was created by the local legislature at the behest of resident beekeepers, whose hives were being decimated by contagious diseases. Over a century has passed since then, yet the program remains. While much has changed since its founding, the core goal of protecting honey bee *Apis mellifera* (Linnaeus) health remains the same.

In 2021, state inspectors visited 128 operations and inspected 539 individual hives. County officials inspected another 201 operations and 838 individual hives.

American foulbrood (AFB) *Paenibacillus larvae*, the most deadly and contagious of brood (larvae) diseases, was found in 1.4% of hives inspected. This was a slight decrease from last year (1.9%), and is significantly below the 3.9% infection rate in 2018, which marked a decades-long high. The UDAF Apiary Program's goal is to keep this disease's incidence below 1% of colonies.

European foulbrood (EFB) *Melissococcus plutonius* disease was found in 2.6% of hives, which is a decrease from the previous year (3.6%). EFB is a less serious brood disease than AFB, but it still has negative impact on colony health.

The fungal brood pathogen chalkbrood *Ascosphaera apis* was found in 1.9% of hives inspected. Like EFB, it is considered a less problematic malady than AFB, but persistent infections can contribute to colony losses.

Varroa mite *Varroa destructor* (Anderson and Trueman) is the most devastating honey bee pest. This parasite is closely associated with the condition termed Parasitic Mite Syndrome (PMS). 5.0% of inspected hives showed symptoms of the syndrome.

No small hive beetles (SHB) *Aethina tumida* (Murray) were detected in 2021, despite finding the invasive bee pest from 2016 to 2019. The pest had previously been documented in Davis, Millard and Washington counties. Utah's dry climate is thought to be unaccommodating to SHB, which may explain why none were found in 2021.

AFRICANIZED HONEY BEE

In 2008, Africanized honey bee (AHB) *Apis mellifera scutellata* (Lepelletier) was first detected in Southern Utah; shortly after the UDAF Apiary Program began monitoring its spread through the state. The counties with known established AHB populations are: Emery, Garfield, Grand, Iron, Kane, San Juan, Washington, and Wayne. State inspectors continue to track AHB by testing feral bees and aggressive managed colonies, with particular attention being paid to uninfested counties neighboring known infested counties. The UDAF Apiary Program is committed to ensuring that all stakeholders are made aware whenever AHB moves into new areas. No new county records of AHB were found in 2021.

PLANT INDUSTRY DIVISION

INVASIVE SPECIES MITIGATION

The Invasive Species Mitigation (ISM) program protects Utah's natural resources, agriculture and economy through competitive grants with county Cooperative Weed Management Areas, state and federal agencies, and private property owners.

In 2022 the program received 88 applications for projects statewide. These projects covered 37 of the 54 regulated species within the Utah Noxious Weed Act.

- Over \$3,143,000.00 in project requests were received by the Department.
- The program funded 51 projects for a total of \$2,618,321.00.
- Matching funds and in-kind contributions were at a 2:1 ratio.

The ISM project monitoring completed its 5th year on many projects across the state the results are very encouraging.

- Projects are showing a 47% reduction of invasive species within project sites.
- Projects are showing a 30% increase in relative native plant cover.

Utah's Invasive Species Dataset Improvements

- The program is managing over 200,000 verified invasive species data points covering all 29 counties.
- The dataset was updated in 2022 for accuracy and distribution.

Program Administration and Management

- The program improved the application ranking process within the Utah SIIPA tool and its deliverables.
- The program provided statewide training on the new ISM grant management platform.



PLANT INDUSTRY DIVISION

SEED INSPECTION AND TESTING PROGRAM

Administration of the Utah Seed Act (Title 4, Chapter 16) involved the inspection and testing of seeds offered for sale in Utah. The Utah Seed Control Officials issue letters of violation on all lots of seeds that are in violation of the seed act. The labelers of the seed have 15 days to correct the violation. Inspectors make an inspection of the seed lots to determine if the violation has been promptly corrected. Seed lots are withheld from sale until the violation is corrected. Citations are issued for habitual labeling violations, and noxious and restricted weed contamination.

327	Official Samples Submitted for Analysis	2,694	Number of Service Samples Submitted by Industry
3,021	Total Number of Seed Samples	32	Number of Samples in Violation
16	Number of Citations Issued	9.8%	Violation Percentage
3	Number of Bird Seed Feed Samples Screened for Noxious Weeds		

UDAF seed inspectors have been providing seed inspections and phytosanitary certification to help several companies develop and expand their international markets for vegetable and small grain seed.

These inspectors have also been sampling wheat and triticale from across the state as part of the annual Karnal Bunt disease survey that is done in cooperation with USDA-APHIS-PPQ. Proving that this disease is known not to occur in Utah keeps our international wheat grain export markets open. Twelve wheat or triticale samples were taken for testing and analysis, and were found free from Karnal Bunt.



PLANT INDUSTRY DIVISION

NURSERY PROGRAM

UDAF's Nursery Program exists to protect Utah's nursery and landscape industries by monitoring for, intercepting, and preventing the spread and establishment of economically and environmentally significant pests on nursery stock, as well as ensuring pest-free and healthy plant materials offered for sale to the public and interstate commerce.

Highlights of the UDAF 2020 Nursery Program

- Inspected 612 of 636 licensed nurseries, Conducted over 1400 nursery inspections
- Reviewed over 2,000 interstate plant shipments for quarantine compliance

ORGANIC CERTIFICATION PROGRAM

UDAF is a proud certifier for the USDA National Organic Program (NOP). Since 2001, UDAF has certified crops, processed products, and livestock for Utah producers enabling them to sell and market their products all over the world as a trusted and reliable organic source. UDAF conducted annual inspections at all certified facilities. UDAF also conducted random and risk-based unannounced inspections along with residue sampling to ensure that UDAF certified NOP organic operations were meeting expectations.

In 2020, the UDAF Organic Program certified 86 farms, processors, and livestock operations within the state of Utah. UDAF welcomed 16 new certified operations in 2020. The program certified over 64,197 organic acres consisting of mostly hard red winter wheat along with safflower, alfalfa, pasture, and assorted fruits and vegetables.

Within the processing and handling certification, UDAF approved more than 600 new products in 2020, increasing the total of organic certified product by UDAF to over 1,200. UDAF also facilitated these operations with trade to foreign countries in the form of export documents allowing their products to enter the foreign country. The following countries received exports from Utah producers: China, Canada, Japan, Korea and countries within the EU. Companies and farms certified by UDAF totaled over \$135,000,000 in organic sales.

PHYTOSANITARY PROGRAM

UDAF's Phytosanitary program is in place to safeguard agriculture and natural resources and to prevent the establishment and spread of economically and environmentally significant pests, and facilitates the safe trade of agriculture products on an international and interstate level.

- Phytosanitary certificates issued 2,233

REGULATORY SERVICES DIVISION

Protecting the safety and integrity of the food supply is one of the Utah Department of Agriculture and Food's core functions. The Division of Regulatory Services operates with regulatory oversight of a wide spectrum of programs to ensure wholesome, clean, and uniform products throughout the state.

MAJOR PROGRAMS

- **BEDDING, UPHOLSTERED FURNITURE, AND QUILTED CLOTHING**
- **DAIRY COMPLIANCE**
- **CERTIFICATES OF FREE SALE**
- **MANUFACTURED FOOD**
- **PRODUCE SAFETY**
- **RETAIL FOOD**
- **UTAH RAPID RESPONSE TEAM**
- **WEIGHTS AND MEASURES**

CERTIFICATES OF FREE SALE AND GOOD MANUFACTURING PRACTICES CERTIFICATES

The Certificate of Free Sale Program serves in providing Utah Food and Dairy Manufactures with official documentation to verify the legitimacy of both the manufacture and their goods. The certificate is evidence that goods destined for another state or country are presently and freely sold within Utah and the United States, respectively. Many countries require this document for customs clearance or regulatory registration. Total revenue for Certificates of Free Sale for fiscal year 2022 was \$78,540.

The Division of Regulatory Services also provides Good Manufacturing Practices (GMP) Certificates to Utah Food and Dairy producers who are in good standing and in compliance with state and federal regulations (21 CFR). During the 2022 Legislative Session, legislation was passed into law, giving the department and division authority to issue GMP Certificates for Cosmetic products produces in the state.

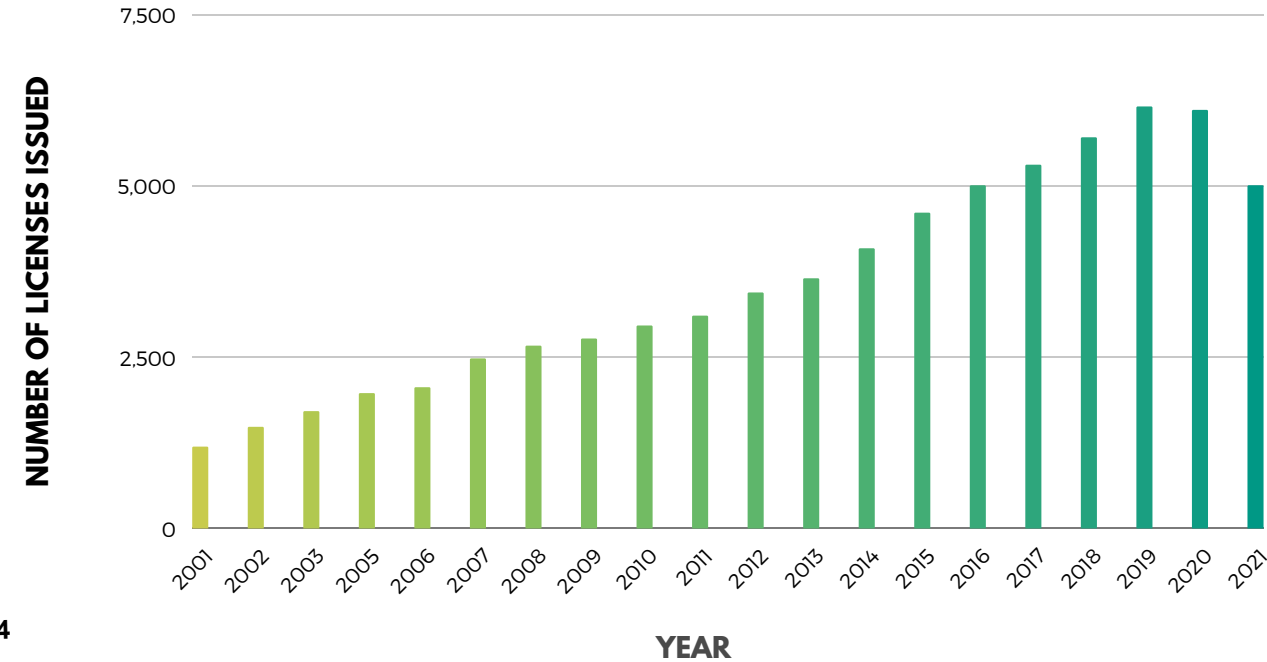
REGULATORY SERVICES DIVISION

BEDDING, UPHOLSTERED FURNITURE, AND QUILTED CLOTHING PROGRAM

The purpose of the Bedding, Upholstered Furniture, and Quilted Clothing Program is to protect consumers against fraud and product misrepresentation, to ensure Utahns of hygienically clean products, and to provide allergy awareness. This enables consumers to make informed buying decisions based on price, value, and performance and helps maintain equality in the marketplace for manufacturers. Utah law requires manufacturers, supply dealers, wholesalers, sterilizers, and repairers of these products and their components to obtain an annual permit before offering items for sale within the state. Products in retail markets are inspected to ensure compliance and Utah's manufacturing sites are inspected for cleanliness and truthful labeling. Laboratory-testing of suspect products is conducted to determine whether their contents are accurately labeled and free from filth and other contaminants.

In 2021, Utah issued approximately 5,000 licenses which generated nearly \$525,000 in revenue. The number of active licenses has more than quadrupled since 2001. The Bedding, Upholstered Furniture, and Quilted Clothing Program utilizes three and one-half full-time employees.

NUMBER OF BEDDING, UPHOLSTERED FURNITURE, &
QUILTED CLOTHING LICENSES ISSUED 2001-2021



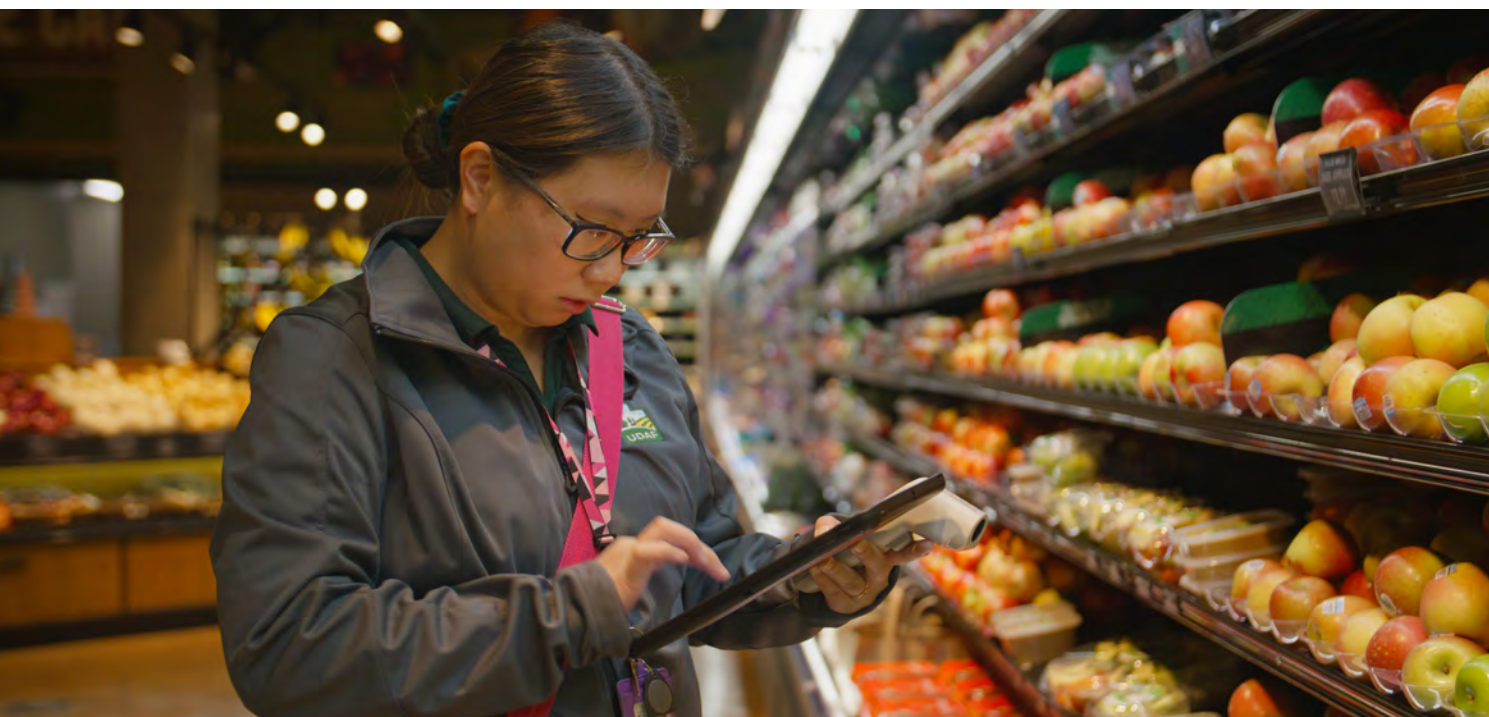
REGULATORY SERVICES DIVISION

MANUFACTURED FOOD PROGRAM

Provides oversight responsibilities for all food processors and manufacturers in the state, including dietary supplement manufacturers and hemp processors. Manufactured food inspectors are some of the most extensively trained inspectors at UDAF. Multiple types of inspections are conducted by the manufactured food inspection team including routine risk-based inspections, limited-scope preventive controls inspections, GMP Certificate (Hemp) inspections, pre-operational inspections, dietary supplement GMP inspections, and FDA contract inspections. Manufactured food inspectors are also tasked with conducting consultations and plan reviews to ensure that new food and dietary supplement facilities are designed and constructed according to federal and state requirements. Manufactured food inspectors also investigate consumer complaints and help with emergency response activities. During FY2022, manufactured food inspectors conducted 508 inspections.

RETAIL FOOD PROGRAM

UDAF inspectors are well-trained food safety professionals and licensed environmental health scientists. They use their experience and expertise to evaluate risks to the food supply during the processing, storage and transportation of food throughout the state of Utah. They are knowledgeable in assessing and evaluating the safety of high-risk food processes and offer industry stakeholders reasonable solutions in complying with state and federal food safety regulations. When critical or priority violations are noted, our inspectors complete follow-up inspections of these facilities in a timely manner to confirm corrective actions have been performed.



REGULATORY SERVICES DIVISION

RETAIL FOOD PROGRAM [CONTINUED]

Retail Food Program

The Retail Food Program currently registers 4,790 retail food establishments throughout Utah. During the last fiscal year, the Retail Food Regulatory Program conducted 6,554 inspections, including 333 pre-operational inspections of prospective, converted, or remodeled food establishments. The Division of Regulatory Services currently employs 13 compliance officers who are highly trained and licensed as Environmental Health Scientists; These Compliance Officers have responsibilities in multiple programs, including the Manufactured Food Regulatory Program, the Dairy Program, and the Retail Food Regulatory Program. Funding has been granted to add two additional full-time compliance officers to the inspection staff, which will better aid the Department in meeting sustainable program goals.

During the last fiscal year an emphasis was made on compliance and enforcement activities to mitigate imminent risks to the public health and to ensure that retail food establishments operate under sanitary conditions. During this timeframe, there were 42 Warning Notices, 17 Citations, and 16 Cease and Desist Orders issued; with 32 incidents of product control actions, including 8 hold orders/embargos, 2 seizures, and 19 voluntary destructions of food products under suspicion of adulteration and/or misbranding.

Cottage Food Program

There are 433 cottage food facilities currently registered under the Retail Food Regulatory Program, with 67 new cottage food facilities added during the last fiscal year. These numbers fluctuate greatly from year to year and show a net growth of only 27 since the year of 2018; this is likely due to the rising popularity of the Home Consumption and Homemade Food Act. Routine inspections of cottage food facilities have been reinstated to ensure conformance with preapproved procedures and specifications; all inspections of cottage food facilities are now conducted virtually. Coordinating this program is labor intensive as many facilities require additional food safety education prior to opening and many food products require an assessment to ensure that the finished product does not require temperature control for safety. The Utah Administrative Code, R70-560 (Inspection and Regulation of Cottage Food Production Operations) was updated to provide clarification that cottage food operations may wholesale products to separate entities within the geographical boundaries of the state, imparting a clear distinction from the Home Consumption and Homemade Food Act.

Meat and Poultry Compliance

The Retail Food Regulatory Program conducts surveillance activities of individuals, firms, and corporations who are subject to the provisions of the Federal Meat Inspection Act, the Poultry Products Inspection Act, the Egg Products Inspection Act, and the Humane Methods of Slaughter Act. During the last fiscal year, the Retail Food Regulatory Program conducted a total of 1,047 in-commerce surveillance reviews to ensure compliance with applicable State and Federal rules, laws, and regulations. All violations, food safety incidents, or food defense incidents of the aforementioned Acts were investigated using an at least equal to methodology directed by the United States Department of Agriculture (USDA), Food Safety and Inspection Service (FSIS).

REGULATORY SERVICES DIVISION

DAIRY COMPLIANCE PROGRAM

Utah continues to lose small dairy producers, with much of the milk production in the state being consolidated into larger dairy farm facilities. The continuing drought has increased the cost of feed due to poor growing conditions. This increase in feed cost has increased the cost of milk throughout the state. We continue to see single service packaging facilities choose Utah as a good state to open new factories.

During the Covid-19 pandemic, the FDA was unable to travel to our state to complete training/certifications and has now began to certify our inspectors to complete various aspects of the job, including sampling surveillance and state ratings. Having qualified individuals to complete these tasks allows Utah producers and processors to market and ship dairy products interstate. The Dairy Program currently has 7 inspectors who split their time with both the retail and manufactured food programs.

Currently, the Dairy Program conducts all of its 16 inspection types using paper forms, however, there is an effort being made to integrate the Dairy Program into the division's existing electronic inspection platform - Food Safety Management System (FSMS). Doing so will give the division significantly better "line of sight" of food and dairy inspection staff, realize a drastic improvement in record keeping and enable us to significantly improve performance measures.



Types of Dairy Plants in Utah:

Aseptic Plants: 1
Butter Plants: 3
Cheese Cutting and Wrapping: 5
Dairy HACCP Plants: 1
Frozen Dessert Plants: 1
Grade A Fluid Milk Plants: 11
Ice Cream Plants: 13
Manufactured Grade Cheese: 14
Grade A Drying Plant: 1
Raw for Retail Dairies: 10
Wash Bays: 11
Robotic Milkers: 21
Single Service Fabricating Plants: 11
Yogurt Plants: 6
Farmstead Cheese Dairies: 6
Goat Dairies: 4

REGULATORY SERVICES DIVISION

UTAH RAPID RESPONSE TEAM

The Utah Rapid Response Team (URRT) is an FDA funded program that has been in the State of Utah since 2019 and is housed at the Utah Department of Agriculture and Food (UDAF). The purpose of the URRT is to respond quickly to food and feed-related illness outbreaks and other related incidents in order to protect human and animal health. This does not include routinely scheduled regulatory activities and may involve a broad range of incidents, including but not limited to: human illness clusters and outbreaks, animal feed contamination, requests for emergency assistance from other agencies, large planned events, severe weather events, and other food/feed emergencies. The URRT responses are those requiring the enhanced coordination, communication, subject matter expertise, and technical skills that URRT members have developed.

► Fiscal Year 2022 Highlights

- Responded to 4 outbreaks/activations across Utah that involved federal, state, and local partners including:
 - Thallium Incident: Through a random sample during a UDAF state meat inspection a farm was found with high levels of thallium in their meat. The UDAF Division of Laboratory Services sampled urine and cow hair from their tails and environmental samples were gathered at the farm.
 - Avian Influenza Outbreak: During the 2022 Highly Pathogenic Avian Influenza (HPAI) outbreak response, the URRT set up an incident command post provided logistical support, safety, and food to those involved in the response. Volunteer engagement was key to the success of this response. The United States Department of Agriculture (USDA) said they have never seen a situation where the community and the agricultural industry supported an outbreak response. This effort was key to reducing recovery time and helping the business work toward continued production. Those that assisted in the HPAI outbreak response were recognized by Governor Spencer Cox and Commissioner Craig Butters.
- URRT sponsored a statewide 3-day food safety conference, provided a 2.5 day training on contamination traceback, and provided training on foodborne illness outbreak response to local health departments in partnership with the Utah Department of Health and Human Services Epidemiology Department.
- URRT presented at four national conferences: the Rapid Response Team National Conference, Association of Food and Drug Officials Annual Education Conference, the National Environmental Health Association Annual Education Conference, and the Integrated Foodborne Outbreak Response and Management Conference.

REGULATORY SERVICES DIVISION

WEIGHTS AND MEASURES

The purpose of the program is to ensure that equity prevails in the market place and that commodities bought or sold are accurately weighed or measured and properly identified. A goal of the program is to prevent fraud by routinely conducting unannounced inspections and responding to consumer complaints. Inspectors are strategically located throughout the state to ensure equity in the marketplace prevails throughout Utah. There were 4,965 businesses in Utah with 66,322 weighing and measuring devices for the year 2022. The Weights and Measures Program employs 18 staff members including a program manager, secretary, metrologist, fuel specialist, and 13 full-time field inspectors who inspect scales, fuel pumps, vehicle tank meters, rack meters, high volume petroleum meters, and propane meters. Fuel quality is checked to verify that the consumer is getting the quality that is stated on the pump. Our inspectors also verify the price at the checkout register assuring the customer is paying the advertised price. Inspectors check the net quantity statement on packaged goods and verify that the item contains the amount that is stated on the label.

LARGE SCALES

These devices include scales used for weighing livestock, coal, gravel, vehicles and similar items. 1,388 large capacity scales were inspected in FY2022.

SMALL SCALES

In FY2022, Utah had 10,350 active small scale devices from grocery store check stands, butchers, shipping, of which 9,197 were certified and 101 failed.

PRICE VERIFICATION

All businesses that use a check-out register at the final point of sale as a means for pricing for commercial sales are subject to inspection. In FY2022, 1,690 price check verifications were performed.

MOTOR FUEL

There are 39,799 fuel devices throughout the state. In FY2022, 28,290 devices were tested with only 319 failures. 27 complaints were responded to.

METROLOGY LAB

Maintains the legal standards of mass, length, and volume and checks the accuracy of our program field standards and equipment that is used by repair service companies. These calibration services are provided using standards for mass, length, and volume that are traceable to the National Institute of Standards of and Technology.

2022 UTAH AGRICULTURAL STATISTICS



Rank & Quantity Produced, Selected Commodities – Utah, Leading State, & United States: 2021

Commodity	Unit	Utah		Leading State		United States
		Rank	Production	State	Production	
Field Crops						
Barley.....	(1,000 bu)	14	810	Idaho	44,500	120,090
Corn, Grain	(1,000 bu)	40	3,401	Iowa	2,552,250	15,115,170
Corn, Silage	(1,000 tons)	24	1,128	Wisconsin	19,135	130,317
Hay, All	(1,000 tons)	23	2,209	Texas	10,715	120,196
Hay, Alfalfa.....	(1,000 tons)	11	1,813	Idaho	3,936	49,245
Hay, Other.....	(1,000 tons)	36	396	Texas	10,175	70,951
Safflower Production.....	(1,000 lbs)	5	7,360	California	82,950	135,175
Wheat, Winter	(1,000 bu)	29	4,278	Kansas	364,000	1,277,365
Fruits						
Tart Cherry Production	(mil lbs)	2	33	Michigan	97	172
Livestock ¹						
All Cattle & Calves	(1,000 head)	34	790	Texas	12,700	91,902
All Cows ²	(1,000 head)	32	425	Texas	5,100	39,500
Calf Crop.....	(1,000 head)	31	380	Texas	4,600	35,085
Beef Cows ²	(1,000 head)	28	331	Texas	4,475	30,125
Milk Cows ²	(1,000 head)	21	94	California	1,720	9,375
Milk Production.....	(mil lbs)	20	2,223	California	41,864	226,258
All Chickens (Excl Broilers).....	(1,000 head)	20	7,545	Iowa	60,133	522,704
Layers on Hand Dec 1.....	(1,000 head)	18	6,234	Iowa	49,741	393,078
Egg Production ³	(mil eggs)	19	1,738	Iowa	14,980	110,729
All Hogs & Pigs.....	(1,000 head)	15	940	Iowa	23,800	74,416
Breeding Hogs &Pigs	(1,000 head)	16	85	Iowa	920	6,125
Pig Crop ³	(1,000 head)	16	1,871	Iowa	23,006	133,359
Market Hogs & Pigs.....	(1,000 head)	15	855	Iowa	22,880	68,021
Honey Production	(1,000 lbs)	24	1,023	North Dakota	28,325	126,466
All Sheep & Lambs	(1,000 head)	5	270	Texas	700	5,065
Breeding Sheep & Lambs.....	(1,000 head)	4	240	Texas	550	3,710
Lamb Crop.....	(1,000 head)	4	225	Texas	350	3,160
Market Sheep & Lambs.....	(1,000 head)	10	30	California	250	1,355
Wool production	(1,000 lbs)	4	2,040	California	2,190	22,451
Mink pelt production.....	(1,000 pelts)	2	320	Wisconsin	579	1,444
Trout sold ⁴	(1,000 dollars)	6	1,137	Idaho	33,715	97,324
Miscellaneous						
Farms.....	(number)	37	17,900	Texas	247,000	2,012,050
Land in farms	(1,000 acres)	26	10,700	Texas	126,000	895,300
Average size of farm	(acres)	12	598	Wyoming	2,377	445

¹ Inventory January 1, 2022 for cattle and sheep; December 1, 2021 for hogs and chickens.

² Cows and heifers that have calved.

³ Pig crop & Egg production for the marketing Year December 1, 2020-November 30, 2021.

⁴ Excluding Eggs.

Record Highs & Lows: Acreage, Yield, & Production of Crops – Utah

Units	Record High		Record Low		Record Began
	(quantity)	(year)	(quantity)	(year)	(year)
Corn for Grain					
Harvested..... (1,000 acres)	34	2012	2	1963, 1966	1882
Yield..... (bushels/acre)	182.0	2018	14.7	1889	1882
Production..... (1,000 bushels)	5,678	2012	85	1934	1882
Corn for Silage					
Harvested..... (1,000 acres)	80	1975, 1976	2	1920, 1921, 1922	1919
Yield..... (tons/acre)	25.0	2011, 2017	6.0	1934	1919
Production..... (1,000 tons)	1,501	1980	17	1921	1919
Barley					
Harvested..... (1,000 acres)	190	1957	8	1898	1882
Yield..... (bushels/acre)	93.0	2019	22.0	1882	1882
Production..... (1,000 bushels)	12,880	1982	242	1882	1882
Oats					
Harvested..... (1,000 acres)	82	1910	2	2015	1882
Yield..... (bushels/acre)	85.0	2002, 2015	25.0	1882, 1883	1882
Production..... (1,000 bushels)	3,338	1914	170	2015	1882
All Wheat					
Harvested..... (1,000 acres)	444	1953	65	1880, 1881	1879
Yield..... (bushels/acre)	59.9	2016	15.4	1919	1879
Production..... (1,000 bushels)	9,750	1986	1,139	1882	1879
Other Spring Wheat					
Harvested..... (1,000 acres)	119	1919, 1920	7	2007	1919
Yield..... (bushels/acre)	65.0	1995	18.7	1919	1919
Production..... (1,000 bushels)	3,366	1953	390	2002	1919
Winter Wheat					
Harvested..... (1,000 acres)	342	1953	94	2018	1909
Yield..... (bushels/acre)	60.0	2016	12.7	1919	1909
Production..... (1,000 bushels)	8,100	1986	1,862	1924	1909
All Hay					
Harvested..... (1,000 acres)	760	2011	402	1909	1909
Yield..... (tons/acre)	3.93	1999	1.77	1924	1909
Production..... (1,000 tons)	2,788	1999	679	1934	1909
Alfalfa Hay					
Harvested..... (1,000 acres)	580	2011	359	1934	1919
Yield..... (tons/acre)	4.40	1993, 1998, 1999	1.67	1934	1919
Production..... (1,000 tons)	2,420	1999	600	1934	1919
Other Hay					
Harvested..... (1,000 acres)	180	2011, 2020	75	1934	1919
Yield..... (tons/acre)	2.50	2019, 2020	0.85	1934	1919
Production..... (1,000 tons)	450	2020	64	1934	1919
Safflower					
Harvested..... (1,000 acres)	31	2010	13	2019	2010
Yield..... (lbs/acre)	1,050	2019	430	2012	2010
Production..... (1,000 lbs)	22,940	2010	9,890	2012	2010
Apples					
Utilized Prod..... (mil lbs)	63	1987	3	1889	1889
Apricots					
Utilized Prod..... (tons)	10,000	1957	0	1972, 1975, 1999	1929
Peaches (Freestone)					
Utilized Prod..... (tons)	22,100	1922	750	1972	1899
Sweet Cherries					
Utilized Prod..... (tons)	7,700	1968	0	1972	1938
Tart Cherries					
Utilized Prod..... (mil lbs)	50	2014	1	1972	1938

Record Highs & Lows: Livestock, Poultry, Honey, & Mink – Utah

Units	Record High		Record Low		Record Began
	(quantity)	(year)	(quantity)	(year)	(year)
Cattle & Calves					
Inventory Jan. 1.....(1,000 head)	950	1983	95	1867	1867
Calf Crop (Annual)(1,000 head)	400	2000, 2001	310	1935, 1984	1920
Beef Cows Jan. 1 ¹(1,000 head)	374	1983	107	1939	1920
Milk Cows Jan. 1 ¹(1,000 head)	126	1945	14	1867	1867
Milk Production (Annual)(mil lbs)	2,322	2018	412	1924	1924
Cattle on Feed Jan. 1.....(1,000 head)	81	1966	20	2017, 2018, 2020	1942
Hogs & Pigs					
Inventory Dec. 1 ²(1,000 head)	1,000	2020	4	1866, 1867, 1868	1866
Sheep & Lambs					
Total Inventory Jan. 1.....(1,000 head)	2,935	1931	260	2004	1920
Breeding Inventory Jan. 1.....(1,000 head)	2,775	1931	157	1867	1867
Lamb Crop (Annual).....(1,000 head)	1,736	1930	220	2010	1924
Mkt Sheep & Lambs Jan. 1.....(1,000 head)	70	1995	18	1988	1937
Chickens					
Layers Dec. 1.....(1,000 head)	5,252	2016	1,166	1935	1925
Egg Production ³(mil eggs)	1,513	2017	142	1924	1924
Honey					
Production (Annual).....(1,000 lbs)	4,368	1963	638	2019	1913
Mink					
Pelts Produced.....(1,000 pelts)	959	2014	283	1973	1969

¹ Cows & heifers two years old & over prior to 1970; cows that have calved beginning in 1970.

² January 1, estimates discontinued in 1969. December 1, estimates beginning in 1969.

³ Annual egg production estimates cover the period December 1, previous year through November 30.

Census of Agriculture: Producer & Farm Characteristics of Veterans, Young Producers, & New & Beginning Producers - Utah: 2017

Characteristic	All Producers	Veterans	Young Producers ¹	New & Beginning Producers ²
Producers.....	32,495	2,554	3,392	9,198
Farms.....	18,409	2,467	2,526	5,888
Land in Farms	10,811,604	926,918	1,019,791	2,924,661
Farms by Size:				
1 to 9 Acres.....	6,181	798	908	2,403
10 to 49 Acres.....	5,254	723	639	1,663
50 to 179 Acres.....	3,159	412	438	890
180 to 499 Acres.....	1,768	257	247	459
500 acres or More.....	2,047	277	294	473
Value of Ag Products Sold.....farms	18,409	2,467	2,526	5,888
.....\$1,000 dollars	1,838,610	117,757	315,472	351,859
Value of Crops.....farms	8,326	1,133	963	2,316
.....\$1,000 dollars	560,956	39,394	109,079	126,513
Value of Livestock.....farms	9,728	1,208	1,565	3,138
.....\$1,000 dollars	1,277,653	78,363	206,393	225,347
Farms by Economic Class:				
Less than \$1,000	5,642	823	728	2,053
\$1,000 to \$2,499	2,120	292	314	778
\$2,500 to \$4,999	2,015	314	183	657
\$5,000 to \$9,999	2,198	277	307	716
\$10,000 to \$24,999	2,214	264	339	632
\$25,000 to \$49,999	1,229	176	163	310
\$50,000 or More	2,991	321	492	742
Sex of Producer:				
Male	20,759	2,468	2,098	5,583
Female	11,736	86	1,294	3,615
Primary Occupation:				
Farming.....	10,711	1,249	952	2,039
Other	21,784	1,305	2,440	7,159
Years on Present Farm:				
2 Years or Less.....	1,948	76	712	(N/A)
3 or 4 Years	2,847	142	760	(N/A)
5 to 9 Years.....	4,951	202	1,192	(N/A)
10 Years or More	22,749	2,134	728	(N/A)
Years Operating Any Farm:				
5 Year or Less	4,934	207	1,705	(N/A)
6 to 10 Years.....	4,264	206	978	(N/A)
11 Years or More	23,297	2,141	709	(N/A)
Age Group:				
Under 25 Years.....	538		538	538
25 to 34 Years	2,385	54	2,385	1,867
35 to 44 Years	4,911	98	469	2,510
45 to 54 Years	5,498	176	(N/A)	1,570
55 to 64 Years	8,832	301	(N/A)	1,690
65 to 74 Years	6,767	1,034	(N/A)	772
75 years or Greater.....	3,564	891	(N/A)	251
Average Age	56.3	69.6	(N/A)	45.3

¹ A young producer is defined as a producer 35 years of age or younger.

² This new category includes producers operating on any operation for 10 years or less. They may be on farms with producers who are not beginning producers.

Census Of Agriculture: Producer Demographics – Utah: 2017

Census of Agriculture: Producer Demographics Utah: 2011									
District & County	Farms	Producer's Age & Race ¹							
		Avg. Age	All	Hispanic	Female	American Indian	Asian	Black	Native Hawaiian
Northern									
Box Elder	1,187	55.0	2,152	49	674	7	16	-	-
Cache	1,397	56.5	2,479	31	817	3	-	-	6
Davis.....	528	60.7	894	7	363	5	27	-	-
Morgan	372	55.4	645	8	228	4	-	-	-
Rich.....	160	55.9	299	-	101	-	1	-	-
Salt Lake.....	592	58.9	1,154	31	415	3	13	-	-
Tooele.....	540	53.9	946	35	386	8	-	2	2
Weber	1,260	58.8	2,166	39	774	9	18	-	-
Central									
Juab	292	57.5	580	6	168	10	-	-	-
Millard	654	56.8	1,127	20	338	2	-	-	-
Sanpete	1,003	55.6	1,740	34	567	4	7	-	-
Sevier.....	691	54.9	1,243	22	409	5	1	-	3
Utah	2,589	56.0	4,741	71	1,695	-	9	-	15
Eastern									
Carbon	309	54.3	564	14	193	2	-	-	-
Daggett	52	56.5	96	-	44	2	-	-	1
Duchesne	1,063	54.1	1,951	59	739	46	2	-	3
Emery	504	54.7	882	5	315	2	-	-	-
Grand.....	102	55.5	195	1	80	1	-	-	-
San Juan	823	56.8	1,669	5	821	1,163	-	-	-
Summit.....	626	58.2	1,144	11	387	-	1	-	-
Uintah	1,114	54.3	2,004	47	751	90	3	-	2
Wasatch.....	475	59.1	796	7	272	2	-	1	-
Southern									
Beaver	272	56.1	502	12	114	-	-	1	-
Garfield	286	56.5	529	14	168	-	2	-	-
Iron.....	486	57.6	878	18	274	2	-	2	-
Kane	182	53.3	357	2	116	-	-	-	-
Piute.....	104	54.5	194	-	46	-	-	-	-
Washington.....	537	60.1	1,084	8	367	1	-	-	-
Wayne.....	209	54.2	357	2	114	2	-	2	-
State Total.....	18,409	56.3	33,368	558	11,736	1,373	100	8	32

- Represents zero.

¹ Demographic information was collected for up to four (4) operators for each operation.

Number of Farms, Land in Farms, & Average Farm Size – Utah & United States: 2012-2021

[Annual sales of agricultural products of \$1,000 or more.]

Year	Utah			United States		
	Number of Farms	Land in Farms	Average Farm Size	Number of Farms	Land in Farms	Average Farm Size
	(number)	(1,000 acres)	(acres)	(number)	(1,000 acres)	(acres)
2012.....	18,000	11,000	611	2,109,810	914,600	433
2013.....	18,200	11,000	604	2,100,350	911,720	434
2014.....	18,200	10,900	599	2,082,440	908,920	436
2015.....	18,200	10,900	599	2,063,890	905,790	439
2016.....	18,300	10,800	590	2,055,340	902,680	439
2017.....	18,400	10,800	587	2,042,000	900,370	441
2018.....	18,100	10,700	591	2,029,200	899,500	443
2019.....	17,800	10,700	601	2,023,400	897,400	444
2020.....	17,800	10,700	601	2,019,000	896,600	444
2021.....	17,900	10,700	598	2,012,050	895,300	445

Number of Farms by Economic Sales Class – Utah: 2012-2021

Year	\$1,000-\$9,999	\$10,000-\$99,999	\$100,000-\$249,999	\$250,000-\$499,999	\$500,000-\$999,999 ¹	\$1,000,000 & Over ²	Total
	(number)	(number)	(number)	(number)	(number)	(number)	(number)
2012	10,650	5,300	930	540	580	(2)	18,000
2013	10,800	5,300	1,000	530	290	280	18,200
2014	10,900	5,300	930	540	250	280	18,200
2015	11,000	5,200	930	520	280	270	18,200
2016	11,200	5,200	850	490	290	270	18,300
2017	11,200	5,200	910	510	310	270	18,400
2018	11,000	5,100	900	520	310	270	18,100
2019	10,800	5,000	890	510	320	280	17,800
2020	10,800	5,000	890	510	320	280	17,800
2021	11,000	4,900	890	510	320	280	17,900

¹ \$500,000 & over before 2013 & \$500,000 - \$999,999 2013 & later.

² \$1,000,000 & over economic sales class not published before 2013.

Farms: Acres by Economic Sales Class – Utah: 2012-2021

Year	\$1,000-\$9,999	\$10,000-\$99,999	\$100,000-\$249,999	\$250,000-\$499,999	\$500,000-\$999,999 ¹	\$1,000,000 & Over ²	Total
	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)	(1,000 acres)
2012	650	1,750	1,300	1,500	5,800	(2)	11,000
2013	700	1,900	1,400	1,600	3,900	1,500	11,000
2014	700	2,000	1,500	1,900	2,900	1,900	10,900
2015	700	2,000	1,500	2,100	2,200	2,400	10,900
2016	700	2,000	1,400	2,100	1,600	3,000	10,800
2017	600	1,900	1,200	2,100	1,000	4,000	10,800
2018	600	1,900	1,300	2,000	1,000	3,900	10,700
2019	600	1,900	1,300	2,000	1,000	3,900	10,700
2020	600	1,900	1,300	2,000	1,000	3,900	10,700
2021	600	1,900	1,300	2,000	1,000	3,900	10,700

¹ \$500,000 & over before 2013 & \$500,000 - \$999,999 2013 & later.

² \$1,000,000 & over economic sales class not published before 2013.

Farm Income: Cash Receipts by Commodity – Utah: 2016-2021

Utah	2016	2017	2018	2019	2020	2021
	(\$1,000 dollars)	(\$1,000 dollars)	(\$1,000 dollars)	(\$1,000 dollars)	(\$1,000 dollars)	(\$1,000 dollars)
All Commodities	1,679,612	1,807,901	1,686,353	1,756,939	1,787,762	1,988,229
Animals & Products	1,238,287	1,349,448	1,200,684	1,211,446	1,248,471	1,360,714
Meat Animals	632,935	671,783	573,774	595,163	609,179	707,708
Cattle & Calves	492,592	499,351	449,991	489,078	456,015	499,641
Hogs	140,343	172,432	123,783	106,085	153,164	208,067
Dairy Products, Milk	336,636	389,754	371,588	415,510	402,766	408,480
Poultry & Eggs	173,797	189,071	163,340	115,421	153,639	159,754
Chicken Eggs	73,238	102,395	163,332	115,415	153,633	159,749
Farm Chickens	10	9	8	6	6	5
Turkeys	100,549	86,667	NA	NA	NA	NA
Miscellaneous Animals & Products	94,920	98,840	91,982	85,352	82,887	84,773
Aquaculture	633	694	997	1,629	926	1,137
Trout	633	694	997	1,629	926	1,137
Honey	1,915	1,741	2,239	1,257	1,923	2,230
Mohair	3	3	3	4	4	3
Other Animals & Products	88,319	92,442	84,303	77,968	76,083	77,322
All Other Animals & Products	62,930	65,610	65,470	66,110	63,045	64,055
Mink Pelts	25,389	26,832	18,833	11,858	13,038	13,267
Wool	4,050	3,960	4,440	4,494	3,952	4,080
Crops	441,325	458,453	485,669	545,493	539,291	627,514
Food Grains	30,123	31,569	33,702	30,111	28,980	31,747
Wheat	30,123	31,569	33,702	30,111	28,980	31,747
Feed Crops	192,349	202,148	227,253	285,517	281,117	310,535
Barley	2,721	3,475	4,517	3,608	3,723	4,154
Corn	14,550	15,771	14,760	15,574	18,542	20,795
Hay	174,989	182,902	207,976	266,335	258,852	285,586
Oats	89	NA	NA	NA	NA	NA
Oil Crops	2,701	2,430	2,431	1,939	2,663	2,813
Safflower	2,701	2,430	2,431	1,939	2,663	2,813
Vegetables & Melons	NA	NA	NA	NA	NA	NA
Onions	NA	NA	NA	NA	NA	NA
Onions, Storage	NA	NA	NA	NA	NA	NA
Fruits & Nuts	24,503	12,531	9,102	6,661	4,571	8,484
Apples	NA	NA	NA	NA	NA	NA
Apricots	NA	NA	NA	NA	NA	NA
Cherries	17,533	7,600	9,102	6,661	4,571	8,484
Cherries, Sweet	NA	NA	NA	NA	NA	NA
Cherries, Tart	17,533	7,600	9,102	6,661	4,571	8,484
Peaches	6,970	4,931	NA	NA	NA	NA
All Other Crops.....	191,649	209,776	213,181	221,265	221,960	273,936
Floriculture	NA	NA	NA	NA	NA	96,839
Mushrooms	NA	NA	NA	NA	NA	NA
Miscellaneous Crops	187,345	197,005	201,395	221,265	221,960	177,097

Data as of September 1, 2022.

NA = Data are not available/applicable.

Values are rounded to the nearest thousand.

Data source: USDA Economic Research Service. www.ers.usda.gov

Farm Income Indicators – Utah: 2016-2021

Utah	2016	2017	2018	2019	2020	2021
	(\$1,000 dollars)	(\$1,000 dollars)	(\$1,000 dollars)	(\$1,000 dollars)	(\$1,000 dollars)	(\$1,000 dollars)
Value of Agricultural Sector Production	1,901,735	2,017,468	1,965,620	2,062,746	2,099,436	2,257,122
Value of Crop Production	453,653	452,133	460,785	565,850	535,555	598,977
Crop Cash Receipts	441,325	458,453	485,669	545,493	539,291	627,514
Value of Animals & Products Production	1,216,624	1,299,618	1,246,803	1,252,396	1,234,675	1,346,655
Animals & Products Cash Receipts	1,238,287	1,349,448	1,200,684	1,211,446	1,248,471	1,360,714
Net Government Transactions	-16,451	-11,325	7,624	-2,818	165,550	74,372
Intermediate Product Expenses ²	937,534	999,571	925,951	962,921	1,051,605	1,124,916
Farm Origin	474,687	442,931	414,397	478,932	482,381	518,462
Feed Purchases	360,417	336,527	298,915	372,819	385,356	417,689
Livestock & Poultry Purchases	72,645	60,064	57,557	61,945	45,616	56,242
Seed Purchases	41,626	46,340	57,925	44,168	51,409	44,530
Manufactured Inputs	162,521	203,100	202,773	185,611	207,493	246,647
Electricity	30,491	48,188	58,334	39,989	47,093	53,269
Fertilizer, Lime, & Soil Conditioners	46,249	56,143	53,485	47,837	63,783	83,383
Pesticides	19,854	21,979	18,148	16,535	24,197	26,214
Fuel & Oils	65,928	76,790	72,806	81,250	72,419	83,781
Other Intermediate Expenses ¹	300,326	353,541	308,781	298,378	361,731	359,806
Machine Hire & Custom Work	21,867	26,026	21,567	24,025	25,763	24,284
Marketing, Storage, & Transportation	42,613	47,553	32,738	35,409	40,289	51,936
Repair & Maintenance ¹	83,853	114,061	101,471	83,194	119,080	117,487
Miscellaneous Expenses ¹	151,992	165,901	153,004	155,749	176,598	166,100
Total Insurance Premiums ⁴	23,936	31,988	39,376	35,429	39,626	47,047
Federal Commodity Insurance Premiums	1,121	6,376	12,089	9,501	11,142	19,147
Irrigation	15,380	16,382	11,926	27,118	19,556	14,002
Contract Labor	16,138	21,921	19,100	24,156	24,846	20,152
Gross Value Added	931,611	984,652	1,028,193	1,072,851	1,188,535	1,186,427
Capital Consumption ¹	292,080	246,095	200,443	193,550	197,960	153,226
Net Value Added	639,531	738,557	827,750	879,301	990,576	1,033,201
Factor Payments to Stakeholders ³	308,642	347,104	351,397	272,594	378,574	384,576
Hired Labor & Non-Cash Employee Compensation..	203,934	231,044	230,567	161,302	244,043	259,940
Net Rent Paid to Operator Landlords	1,508	1,139	131	-1,144	2,923	1,904
Net Rent Paid to Non-Operator Landlords	9,932	7,503	864	-7,537	19,253	12,546
Total Interest Expenses ¹	93,268	107,418	119,836	119,972	112,355	110,187
Net Farm Income	330,889	391,453	476,352	606,707	612,002	648,624

Data as of September 1, 2022

F = Forecast values. NA = Data are not available/applicable. Values are rounded to the nearest thousand.

¹ Includes expenses associated with operator dwellings.

² Share rent income is included in cash receipts.

³ Prior to 2008 estimates, factor payments to stakeholders only includes net rent paid to non-operator landlords.

⁴ Includes federal & private crop & livestock insurance premiums as well as casualty, hail, motor vehicle & all other insurance premiums.

Data Source: USDA Economic Research Service. www.ers.usda.gov

Agricultural Exports: Estimated Value by Commodity Group – Utah: 2016-2021

Utah	2016	2017	2018	2019	2020	2021
	(million dollars)					
Beef & Veal.....	49.2	54.2	56.1	59.7	55.2	72.2
Pork.....	43.8	53.2	38.0	33.7	61.7	60.2
Hides & Skins.....	14.7	14.4	9.5	7.1	6.0	8.2
Other Livestock Products ¹	44.4	52.6	48.1	46.8	49.7	60.1
Dairy Products.....	45.7	55.1	57.8	60.6	64.3	74.4
Broiler Meat.....	0.0	0.0	0.0	0.0	0.0	0.0
Other Poultry Products ²	25.4	31.4	23.1	20.1	23.8	28.5
Vegetables, Fresh.....	0.0	0.0	0.0	0.0	0.0	0.0
Vegetables, Processed.....	0.0	0.0	0.0	0.0	0.0	0.0
Fruits, Fresh.....	5.1	2.6	2.1	1.5	1.0	1.8
Fruits, Processed.....	4.8	2.3	1.8	1.3	0.8	1.6
Tree Nuts.....	0.0	0.0	0.0	0.0	0.0	0.0
Rice.....	0.0	0.0	0.0	0.0	0.0	0.0
Wheat.....	18.2	22.0	19.1	21.7	20.6	19.5
Corn.....	3.1	3.2	3.8	2.4	3.6	5.4
Feeds & Other Feed Grains ³	30.5	31.2	34.8	40.8	46.3	43.4
Grain Products, Processed.....	12.0	12.7	13.6	17.6	17.5	13.9
Soybeans.....	0.0	0.0	0.0	0.0	0.0	0.0
Soybean Meal.....	0.0	0.0	0.0	0.0	0.0	0.0
Vegetable Oils.....	0.2	0.2	0.2	0.2	0.2	0.2
Other Oilseeds & Products ⁴	2.3	1.6	1.7	1.6	2.3	2.0
Cotton.....	0.0	0.0	0.0	0.0	0.0	0.0
Tobacco.....	0.0	0.0	0.0	0.0	0.0	0.0
Other Plant Products ⁵	115.6	129.7	132.9	136.6	130.4	173.3
Total Agricultural Exports.....	414.9	466.3	442.5	451.6	483.4	564.9
Total Animal Products.....	223.1	260.9	232.6	228.0	260.7	303.7
Total Plant Products.....	191.8	205.4	209.9	223.6	222.7	261.2

Data as of October 26, 2022

¹ Includes other non-poultry meats, animal fat, live farm animals, & other animal parts.

² Includes turkey meat, eggs, & other fowl products.

³ Includes processed feeds, fodder, barley, oats, rye, & sorghum.

⁴ Includes peanuts (oilstock), other oil crops, corn meal, other oilcake & meal, protein substances, bran & residues.

⁵ Includes sweeteners & products, other horticulture products, planting seeds, cocoa, coffee, & other processed foods.

Data sources: USDA Economic Research Service; USDA Foreign Agricultural Service (Global Agricultural Trade System)

ANNUAL CROP SUMMARY

2021 UTAH HIGHLIGHTS

The 2021 **corn** for grain crop is estimated at 3.40 million bushels, 21 percent below last year's production of 4.32 million bushels, according to the December 1 Agricultural Survey conducted by the Mountain Regional Field Office of the National Agricultural Statistics Service, USDA. The average yield of 179.0 bushels per acre is 30.0 bushels per acre above the yield achieved last year. Area harvested for grain in 2021, at 19,000 acres, is 10,000 acres below last year. Acreage cut for **corn silage** is estimated at 47,000 acres, down 5,000 acres from last year, with production estimated at 1.13 million tons compared with 1.20 million tons produced last year.

Utah's **barley** seeded area, at a record low 17,000 acres, is down 4,000 acres from last year. Harvested area, at 9,000 acres, is down 3,000 acres from 2020 and the lowest harvested acreage since 9,000 acres were harvested in 1899. Barley yield, at 81.0 bushels per acre, is down 4.0 bushels per acre from last year. Barley production in 2021 is estimated at 729,000 bushels, down 29 percent from the previous year and the lowest production since 680,000 bushels in 1926.

Winter wheat production in Utah, estimated at 4.51 million bushels, is down 13 percent from 2020. Winter wheat producers seeded 110,000 acres in the fall of 2020 for harvest in 2021, equal to the record low acres seeded for the previous year's crop. Acres harvested for grain in 2021 were equal to last year's second lowest harvested acreage on record at 98,000 acres. Winter wheat yield, at 46.0 bushels per acre, is down 7.0 bushels per acre from last year.


















All hay production for 2021 is estimated at 2.21 million tons, down 13 percent from the 2020 total. **Alfalfa hay** production is estimated at 1.81 million tons from 490,000 acres harvested, down 277,000 tons from 2020. Average yield for the 2021 crop is 3.70 tons per acre, 0.10 ton per acre below last year. **All other hay** production totaled 396,000 tons from 180,000 acres harvested, down 54,000 tons from 2020. The average yield of 2.20 tons per acre is 0.30 per acre below last year. New **seedings of alfalfa and alfalfa mixtures** in Utah are estimated at 45,000 acres, down 25 percent from 2020.

As of December 1, producers in Utah were storing 1.00 million tons of **all hay**, down 20 percent from the 1.25 million tons stored last year.

Production of **safflower** in 2021 is 7.36 million pounds, compared with 18.04 million pounds in 2020. Planted acres are 22,000, down 1,000 acres from last year. Harvested acres are 16,000, compared with 22,000 acres in 2020. Safflower yields averaged 460 pounds per acre in 2021, down 360 pounds per acre from last year.

Winter wheat seedings last fall for the 2022 crop year are estimated at 130,000 acres, up 18 percent from 2021.

Usual Planting & Harvesting Dates

Corn for Grain	Apr 30 – May 20 	Oct 10 – Oct 30 
Corn for Silage	May 5 – May 25 	Sep 20 – Oct 5 
Barley, Spring	Apr 1- Apr 20 	Jul 25 – Aug 15 
Oats, Spring	Apr 10 – May 5 	Aug 15 – Sep 10 
Wheat, Spring	Apr 1 – Apr 20 	Aug 5 – Aug 25 
Wheat, Winter	Apr 1 – Apr 20 	Jul 25 – Aug 10  Aug 25 – Oct 5 
Hay, Alfalfa		Jun 1 – Oct 25 
Hay, Other		Jul 10 – Aug 25 
 Planting		 Harvest

Barley: Area Planted & Harvested, Yield, Production, Price, & Value – Utah: 2012-2021

Year	Area Planted	Area Harvested	Yield per Acre	Production	Price per Bushel ¹	Value of Production
	(1,000 acres)	(1,000 acres)	(bushels)	(1,000 bushels)	(dollars)	(\$1,000 dollars)
2012.....	44	26	78.0	2,028	5.87	11,904
2013.....	40	30	78.0	2,340	4.17	9,758
2014.....	32	20	83.0	1,660	3.13	5,196
2015.....	27	16	84.0	1,344	2.97	3,992
2016.....	29	19	82.0	1,558	2.36	3,677
2017.....	25	18	75.0	1,350	3.08	4,158
2018.....	21	16	86.0	1,376	3.69	5,077
2019.....	18	11	93.0	1,023	3.70	3,785
2020.....	21	12	85.0	1,020	4.00	4,080
2021.....	18	10	81.0	810	5.00	4,050

¹ Marketing year average price.

Corn for Grain: Area Planted & Harvested, Yield, Production, Price, & Value – Utah: 2012-2021

Year	Area Planted	Area Harvested	Yield per Acre	Production	Price per Bushel ¹	Value of Production
	(1,000 acres)	(1,000 acres)	(bushels)	(1,000 bushels)	(dollars)	(\$1,000 dollars)
2012.....	92	34	167.0	5,678	7.59	43,096
2013.....	83	31	170.0	5,270	5.47	28,827
2014.....	75	28	160.0	4,480	4.13	18,502
2015.....	65	17	173.0	2,941	4.68	13,764
2016.....	80	29	175.0	5,075	3.87	19,640
2017.....	80	20	176.0	3,520	3.96	13,939
2018.....	70	22	182.0	4,004	4.31	17,257
2019.....	85	26	143.0	3,718	4.30	15,987
2020.....	85	29	149.0	4,321	5.35	23,117
2021.....	70	19	179.0	3,401	6.00	20,406

¹ Marketing year average price.

Corn for Silage: Area Harvested, Yield, & Production – Utah: 2012-2021

Year	Area Harvested	Yield per Acre	Production
	(acres)	(tons)	(tons)
2012.....	56,000	22.0	1,232,000
2013.....	49,000	23.0	1,127,000
2014.....	45,000	22.0	990,000
2015.....	45,000	23.0	1,035,000
2016.....	49,000	24.0	1,176,000
2017.....	56,000	25.0	1,400,000
2018.....	45,000	23.0	1,035,000
2019.....	55,000	24.0	1,320,000
2020.....	52,000	23.0	1,196,000
2021.....	47,000	24.0	1,128,000

Alfalfa Hay: Area Harvested, Yield, Production, Price, & Value – Utah: 2012-2021

Year	Area Harvested	Yield per Acre	Production	Price per Ton ¹	Value of Production
	(1,000 acres)	(tons)	(1,000 tons)	(dollars)	(\$1,000 dollars)
2012.....	500	4.10	2,050	190.00	389,500
2013.....	550	4.20	2,310	182.00	420,420
2014.....	520	3.90	2,028	188.00	381,264
2015.....	510	4.10	2,091	162.00	338,742
2016.....	530	4.20	2,226	127.00	282,702
2017.....	550	4.20	2,310	134.00	309,540
2018.....	500	3.70	1,850	172.00	318,200
2019.....	510	4.30	2,193	182.00	399,126
2020.....	550	3.80	2,090	187.00	390,830
2021.....	490	3.70	1,813	231.00	418,803

¹ Marketing year average price.**Other Hay: Area Harvested, Yield, Production, Price, & Value – Utah: 2012-2021**

Year	Area Harvested	Yield per Acre	Production	Price per Ton ¹	Value of Production
	(1,000 acres)	(tons)	(1,000 tons)	(dollars)	(\$1,000 dollars)
2012.....	160	2.10	336	152.00	51,072
2013.....	175	2.40	420	152.00	63,840
2014.....	160	2.30	368	154.00	56,672
2015.....	160	2.30	368	131.00	48,208
2016.....	160	2.20	352	104.00	36,608
2017.....	155	2.10	326	116.00	37,816
2018.....	150	2.30	345	133.00	45,885
2019.....	170	2.50	425	144.00	61,200
2020.....	180	2.50	450	122.00	54,900
2021.....	180	2.20	396	177.00	70,092

¹ Marketing year average price.**All Hay: Area Harvested, Yield, Production, Price, & Value – Utah: 2012-2021**

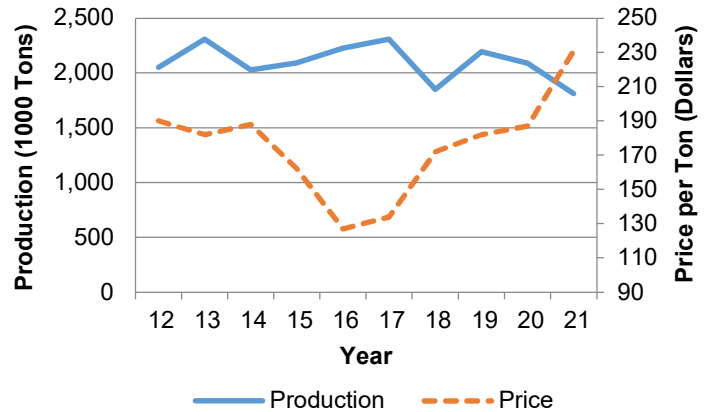
Year	Area Harvested	Yield per Acre	Production	Price per Ton ¹	Value of Production
	(1,000 acres)	(tons)	(1,000 tons)	(dollars)	(\$1,000 dollars)
2012.....	660	3.62	2,386	189.00	440,572
2013.....	725	3.77	2,730	182.00	484,260
2014.....	680	3.52	2,396	188.00	437,936
2015.....	670	3.67	2,459	162.00	386,950
2016.....	690	3.74	2,578	127.00	319,310
2017.....	705	3.74	2,636	134.00	347,356
2018.....	650	3.38	2,195	171.00	364,085
2019.....	680	3.85	2,618	181.00	460,326
2020.....	730	3.48	2,540	181.00	445,730
2021.....	670	3.30	2,209	230.00	488,895

¹ Marketing year average price.

Hay Stocks: Position & Month – Utah: 2012-2021

Year	On Farms May 1	On Farms December 1
	(tons)	(tons)
2012.....	350,000	900,000
2013.....	230,000	1,250,000
2014.....	300,000	1,190,000
2015.....	430,000	1,150,000
2016.....	410,000	1,200,000
2017.....	300,000	1,170,000
2018.....	200,000	980,000
2019.....	280,000	1,300,000
2020.....	300,000	1,250,000
2021.....	170,000	1,000,000

Alfalfa Hay Production & Price — Utah: 2012-2021



Safflower: Area Planted & Harvested, Yield, Production, Price, & Value – Utah: 2012-2021

Year	Area Planted	Area Harvested	Yield per Acre	Production	Price per Cwt ¹	Value of Production
	(acres)	(acres)	(pounds)	(1,000 pounds)	(dollars)	(\$1,000 dollars)
2012.....	28,000	23,000	430	9,890	28.90	2,858
2013.....	27,000	26,000	570	14,820	27.30	4,046
2014.....	19,000	18,000	990	17,820	25.60	4,562
2015.....	16,000	15,500	910	14,105	20.70	2,920
2016.....	14,000	13,500	810	10,935	(D)	(D)
2017.....	17,000	16,500	900	14,850	(D)	(D)
2018.....	15,000	13,000	840	10,920	16.20	1,769
2019.....	13,000	12,700	1,050	13,335	17.10	2,280
2020.....	23,000	22,000	820	18,040	19.00	3,428
2021.....	22,000	16,000	460	7,360	21.50	1,582

(D) Withheld to avoid disclosing data for individual operations.

¹ Marketing year average price.

Winter Wheat: Area Planted & Harvested, Yield, Production, Price, & Value – Utah: 2012-2021

Year	Area Planted	Area Harvested	Yield per Acre	Production	Price per Bushel ¹	Value of Production
	(1,000 acres)	(1,000 acres)	(bushels)	(1,000 bushels)	(dollars)	(\$1,000 dollars)
2012.....	125	109	47.0	5,123	8.97	45,953
2013.....	120	110	44.0	4,840	7.71	37,316
2014.....	120	109	50.0	5,450	6.85	37,333
2015.....	125	119	48.0	5,712	4.77	27,246
2016.....	120	112	60.0	6,720	3.98	26,746
2017.....	120	108	52.0	5,616	5.00	28,080
2018.....	120	94	52.0	4,888	5.70	27,862
2019.....	125	116	54.0	6,264	4.95	31,007
2020.....	110	98	53.0	5,194	5.43	28,203
2021.....	110	93	46.0	4,278	7.10	30,374

¹ Marketing year average price.

Other Spring Wheat: Area Planted & Harvested, Yield, Production, Price, & Value – Utah: 2012-2021

Year	Area Planted	Area Harvested	Yield per acre	Production	Price per Bushel ¹	Value of Production
	(1,000 acres)	(1,000 acres)	(bushels)	(1,000 bushels)	(dollars)	(\$1,000 dollars)
2012.....	15	13	40.0	520	11.50	5,980
2013.....	18	14	46.0	644	8.66	5,577
2014.....	10	8	54.0	432	8.58	3,707
2015.....	10	9	55.0	495	7.00	3,465
2016.....	9	8	58.0	464	5.50	2,552
2017.....	14	12	52.0	624	7.00	4,368
2018.....	10	9	52.0	468	6.70	3,136
2019.....	(2)	(2)	(2)	(2)	(2)	(2)
2020.....	(2)	(2)	(2)	(2)	(2)	(2)
2021.....	(2)	(2)	(2)	(2)	(2)	(2)

(NA) Not available.

¹ Marketing year average price.

² Estimates discontinued in 2019.

All Wheat: Area Planted & Harvested, Yield, Production, Price, & Value – Utah: 2012-2021

Year	Area Planted	Area Harvested	Yield per Acre	Production	Price per Bushel ¹	Value of Production
	(1,000 acres)	(1,000 acres)	(bushels)	(1,000 bushels)	(dollars)	(\$1,000 dollars)
2012.....	140	122	46.3	5,643	9.59	51,933
2013.....	138	124	44.2	5,484	7.94	42,893
2014.....	130	117	50.3	5,882	7.07	41,040
2015.....	135	128	48.5	6,207	5.18	30,711
2016.....	129	120	59.9	7,184	4.30	29,298
2017.....	134	120	52.0	6,240	5.20	32,448
2018.....	130	103	52.0	5,356	6.00	30,998
2019.....	125	116	54.0	6,264	4.95	31,007
2020.....	110	98	53.0	5,194	5.43	28,203
2021.....	110	93	46.0	4,278	7.10	30,374

¹ Marketing year average price.

Barley Stocks: Located Off Farm by Quarter – Utah: 2013-2022

Year ¹	March 1	June 1	September 1	December 1
	(bushels)	(bushels)	(bushels)	(bushels)
2013	(D)	100,000	277,000	505,000
2014	(D)	159,000	269,000	396,000
2015	293,000	94,000	400,000	363,000
2016	(D)	98,000	327,000	(D)
2017	255,000	(D)	(D)	343,000
2018	211,000	(D)	(D)	(D)
2019	(D)	(D)	(D)	(D)
2020	(D)	39,000	(D)	(D)
2021	(D)	(D)	(D)	(D)
2022	167,000	103,000	(2)	(3)

Corn Stocks: Located Off Farm by Quarter – Utah: 2013-2022

Year ¹	March 1	June 1	September 1	December 1
	(bushels)	(bushels)	(bushels)	(bushels)
2013	566,000	(D)	(D)	861,000
2014	544,000	(D)	(D)	737,000
2015	420,000	(D)	(D)	670,000
2016	(D)	(D)	(D)	694,000
2017	(D)	212,000	(D)	557,000
2018	367,000	254,000	(D)	680,000
2019	448,000	432,000	367,000	1,155,000
2020	1,637,000	291,000	(D)	(D)
2021	974,000	(D)	300,000	1,009,000
2022	(D)	(D)	(2)	(3)

Oat Stocks: Located Off Farm by Quarter – Utah: 2013-2022

Year ¹	March 1	June 1	September 1	December 1
	(bushels)	(bushels)	(bushels)	(bushels)
2013	50,000	6,000	(D)	52,000
2014	28,000	(D)	44,000	48,000
2015	37,000	22,000	(D)	(D)
2016	47,000	24,000	(D)	(D)
2017	54,000	16,000	25,000	(D)
2018	(D)	15,000	34,000	23,000
2019	42,000	13,000	21,000	(D)
2020	(D)	(D)	30,000	(D)
2021	(D)	12,000	20,000	18,000
2022	28,000	11,000	(2)	(3)

Wheat Stocks: Located Off Farm by Quarter – Utah: 2013-2022

Year ¹	March 1	June 1	September 1	December 1
	(bushels)	(bushels)	(bushels)	(bushels)
2013	4,043,000	3,719,000	4,880,000	4,577,000
2014	4,149,000	3,746,000	5,150,000	4,786,000
2015	4,518,000	4,891,000	6,420,000	5,517,000
2016	5,147,000	4,641,000	5,423,000	5,473,000
2017	4,118,000	3,843,000	6,299,000	5,723,000
2018	4,407,000	3,349,000	5,926,000	5,031,000
2019	4,304,000	3,600,000	6,462,000	5,504,000
2020	5,982,000	4,192,000	5,856,000	6,009,000
2021	4,987,000	3,709,000	5,549,000	3,794,000
2022	3,207,000	3,410,000	(2)	(3)

(D) Withheld to avoid disclosing data for individual operations.

¹ Includes stocks at mills, elevators, terminals, & processors.

² Estimates available in the September Grain Stocks Release.

³ Estimates available in the December Grain Stocks Release.

Tart Cherries: Acreage, Yield, Production, Price, & Value – Utah: 2012-2021

Year	Bearing Acreage	Yield per Acre ¹	Production		Price per Pound	Value of Utilized Production
			Total	Utilized		
	(acres)	(pounds)	(million pounds)	(million pounds)	(dollars)	(\$1,000 dollars)
2012.....	3,300	12,100	40.0	40.0	0.510	20,400
2013.....	3,300	8,120	26.8	26.8	0.476	12,761
2014.....	3,300	15,500	51.0	49.8	0.432	21,494
2015.....	3,300	12,300	40.7	40.3	0.336	13,525
2016.....	3,300	16,000	52.8	49.6	0.353	17,533
2017.....	3,300	7,880	26.0	25.0	0.304	7,600
2018.....	3,100	14,500	45.0	41.0	0.222	9,102
2019.....	3,000	18,000	54.0	42.7	0.156	6,661
2020.....	3,100	9,300	28.8	27.7	0.165	4,571
2021.....	2,900	11,500	33.4	33.4	0.254	8,484

¹ Yield is based on total production.

Operations: All Cattle & Calves – Utah: 2007, 2012, & 2017

All Cattle & Calves	2007	2012	2017
	(number)	(number)	(number)
Operations with			
1 - 9 Head.....	2,208	3,412	3,177
10 - 19 Head	1,081	1,348	1,208
20 - 49 Head	1,521	1,604	1,578
50 - 99 Head	977	864	754
100 - 199 Head	819	600	538
200 - 499 Head	595	490	461
500 Head or More.....	380	307	310

Data Source: U.S. Census of Agriculture

Operations with Beef Cows – Utah: 2007, 2012 & 2017

Beef Cows	2007	2012	2017
	(number)	(number)	(number)
Operations with			
1 - 9 Head.....	1,821	2,838	2,780
10 - 19 Head	863	1,113	1,055
20 - 49 Head	1,172	1,307	1,324
50 - 99 Head	768	639	562
100 - 199 Head	503	483	385
200 - 499 Head	359	321	279
500 Head or More.....	103	126	123

Data Source: U.S. Census of Agriculture

Operations with Milk Cows – Utah: 2007, 2012, & 2017

Milk Cows	2007	2012	2017
	(number)	(number)	(number)
Operations with			
1 - 9 Head.....	174	256	218
10 - 19 Head	8	15	8
20 - 49 Head	22	31	14
50 - 99 Head	53	30	69
100 - 199 Head	92	54	53
200 - 499 Head	59	45	39
500 Head or More.....	42	46	44

Data Source: U.S. Census of Agriculture

Operations with Sheep & Lambs – Utah: 2007, 2012, & 2017

Sheep & Lambs	2007	2012	2017
	(number)	(number)	(number)
1 - 24 Head	1,037	1,196	1,248
25 - 99 Head	354	372	428
100 - 299 Head	109	79	101
300 - 999 Head	48	29	42
1,000 Head or More.....	67	79	79

Data Source: U.S. Census of Agriculture

Operations with Hogs & Pigs – Utah 2007, 2012, & 2017

Hogs & Pigs	2007	2012	2017
	(number)	(number)	(number)
All Operations	611	669	561

Data Source: U.S. Census of Agriculture

Cattle & Calves: Number by Class & Calf Crop – Utah: January 1, 2018-2022

Class	2018	2019	2020	2021	2022
	(head)	(head)	(head)	(head)	(head)
All Cattle & Calves	790,000	810,000	820,000	800,000	790,000
Cows & Heifers, That Have Calved	435,000	440,000	455,000	440,000	425,000
Beef Cows	338,000	340,000	358,000	345,000	331,000
Milk Cows	97,000	100,000	97,000	95,000	94,000
Calves, Under 500 Pounds	70,000	75,000	65,000	65,000	67,000
Steers, 500 Pounds & Over	80,000	85,000	80,000	85,000	90,000
Heifers, 500 Pounds & Over					
Beef Cow Replacements	70,000	70,000	85,000	75,000	70,000
Milk Cow Replacements	50,000	50,000	50,000	55,000	55,000
Other Heifers	60,000	65,000	60,000	55,000	60,000
Bulls, 500 Pounds & Over	25,000	25,000	25,000	25,000	23,000
Cattle on Feed	20,000	23,000	20,000	23,000	21,000
Calf Crop	385,000	395,000	385,000	380,000	(1)
Unit	Value of Inventory ²				
Value per Head	(dollars)	1,270	1,150	1,180	1,160
Value of Inventory	(dollars)	1,003,300	931,500	967,600	928,000
					924,300

¹ Data available 2023

² Value of all cattle & calves.

Cattle & Calves: Balance Sheet – Utah: 2017-2021

Inventory Additions & Removals	2017	2018	2019	2020	2021
	(head)	(head)	(head)	(head)	(head)
Inventory Beginning of Year	820,000	790,000	810,000	820,000	800,000
Calf Crop	375,000	385,000	395,000	385,000	380,000
In-Shipments	55,000	53,000	58,000	41,000	55,000
Marketings ¹					
Cattle	376,000	359,500	376,000	375,500	372,500
Calves	45,500	21,500	30,500	36,000	36,500
Farm Slaughter Cattle & Calves ²	2,500	2,000	1,500	1,500	2,000
Deaths					
Cattle	13,000	13,000	12,000	12,000	12,000
Calves	23,000	22,000	23,000	21,000	22,000
Inventory End of Year	790,000	810,000	820,000	800,000	790,000

¹ Includes custom slaughter for use on farms where produced & State out-shipments but excludes inter-farm sales within the State.

² Excludes custom slaughter at commercial establishments.

Cattle & Calves: Production, Marketings, & Income – Utah: 2017-2021

Unit	2017	2018	2019	2020	2021
Production ¹	(1,000 lbs)	369,361	382,273	401,858	390,534
Marketings ²	(1,000 lbs)	438,496	413,048	438,780	444,465
Value of Production	(\$1,000 dollars)	415,829	410,511	442,742	396,123
Value of Sales ³	(\$1,000 dollars)	499,351	449,991	489,078	456,015
Value of Home Consumption	(\$1,000 dollars)	8,090	6,914	6,404	6,650
Gross Income	(\$1,000 dollars)	507,441	456,905	495,482	462,665
					507,304

¹ Includes custom slaughter for use on farms where produced & state out-shipments but excludes inter-farm sales within the state.

² Excludes custom slaughter at commercial establishments. Production & marketings are live weight in pounds.

³ Excludes inter-farm in-state sales.

Dairy: Milk Production & Milkfat – Utah: 2017-2021

Unit	2017	2018	2019	2020	2021
Number of Milk Cows on Farms ¹(1,000 head)	96,000	100,000	98,000	96,000	96,000
Production of Milk & Milkfat ²					
Milk per Cow					
Milk.....(pounds)	23,073	23,220	23,061	23,229	23,156
Milkfat.....(pounds)	877	899	906	922	915
Total					
Percentage Milkfat.....(percent)	3.80	3.87	3.93	3.97	3.95
Milk.....(million pounds)	2,215	2,322	2,260	2,230	2,223
Milkfat.....(million pounds)	84.2	89.9	88.8	88.5	87.8
Milk Price.....(dollars/100 pounds)	17.70	16.10	18.50	18.20	18.50
Value of Production ³(\$1,000 dollars)	392,055	373,842	418,100	405,860	411,255

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

² Excludes milk sucked by calves.

³ Includes value of milk fed to calves.

Milk & Cream: Marketings, Used on Farm, Income, & Value – Utah: 2017-2021

Unit	2017	2018	2019	2020	2021
Combined Marketings of Milk & Cream					
Milk Sold ¹(million pounds)	2,202	2,308	2,246	2,213	2,208
Average Price					
Per 100 Pounds of Milk ²(dollars)	17.70	16.10	18.50	18.20	18.50
Per Pound of Milkfat.....(dollars)	4.66	4.16	4.71	4.58	4.68
Value of Milk Marketings.....(\$1,000 dollars)	389,754	371,588	415,510	402,766	408,480
Used for Milk, Cream, & Butter by Producers					
Milk Utilized.....(million pounds)	1.00	1.00	1.00	1.00	1.00
Value.....(dollars)	177,000	161,000	185,000	182,000	185,000
Milk Used on Farm for Feed.....(million pounds)	12.00	13.00	13.00	16.00	14.00
Gross Producer Income ³(\$1,000 dollars)	389,931	371,749	415,695	402,948	408,665
Value of Milk Produced ⁴(\$1,000 dollars)	392,055	373,842	418,100	405,860	411,255

¹ Milk sold to plants & dealers as whole milk & equivalent amounts of milk for cream. Includes milk produced by dealers' own herds & small amounts sold directly to consumers. Includes milk produced by institutional herds.

² Average price for marketing year.

³ Cash receipts from marketings of milk & cream, plus value of milk used for home consumption.

⁴ Includes value of milk fed to calves.

Manufactured Dairy Products – Utah: 2017-2021

Unit	2017	2018	2019	2020	2021
Ice Cream, Regular, Hard.....(1,000 gallons)	26,283	29,667	21,931	29,347	17,962
Ice Cream, Mix, Low Fat.....(1,000 gallons)	1,359	1,161	1,571	3,564	2,475

Milk Cows: Production by Month – Utah: 2019-2021

Year & Month	Milk Cows ¹	Milk per Cow ²	Milk Production ²	Year & Month	Milk Cows ¹	Milk per Cow ²	Milk Production ²
	(1,000 head)	(pounds)	(million pounds)		(1,000 head)	(pounds)	(million pounds)
2019							
January	100	1,935	194	August	95	1,975	188
February	99	1,755	174	September....	94	1,910	180
March	98	1,940	190	October.....	95	1,950	185
April.....	98	1,930	189	November.....	95	1,880	179
May	98	2,010	197	December.....	96	1,945	187
June	97	1,960	190	Annual Total.....	96	23,229	2,230
July	97	2,010	195	2021			
August.....	96	1,995	192	January.....	95	1,970	187
September	97	1,925	187	February	96	1,770	170
October	97	1,945	189	March	96	1,970	189
November	97	1,860	180	April	96	1,945	187
December	97	1,890	183	May	97	2,030	197
Annual Total	98	23,061	2,260	June	97	1,975	192
2020				July	97	2,000	194
January	96	1,935	186	August	95	1,990	189
February	97	1,820	177	September....	94	1,905	179
March	98	1,960	192	October.....	94	1,930	181
April.....	97	1,930	187	November.....	94	1,875	176
May	96	2,000	192	December.....	94	1,935	182
June	96	1,955	188	Annual Total.....	96	23,156	2,223
July	95	1,985	189				

¹ Includes dry cows; excludes heifers not yet fresh.

² Excludes milk sucked by calves.

Commercial Cattle Slaughter – Utah: Monthly 2020 & 2021

Month	Number Slaughtered		Total Live Weight		Average Live Weight	
	2020	2021	2020	2021	2020	2021
	(head)	(head)	(1,000 pounds)	(1,000 pounds)	(pounds)	(pounds)
January	58,000	54,200	78,686	75,520	1,360	1,394
February.....	52,600	56,800	71,267	78,818	1,356	1,389
March	60,700	61,300	81,598	84,366	1,347	1,379
April.....	59,700	58,600	81,064	81,750	1,361	1,396
May	54,700	52,000	74,707	69,813	1,369	1,345
June	35,800	53,900	49,134	72,556	1,373	1,349
July.....	56,500	54,700	76,986	73,863	1,365	1,353
August.....	56,000	52,600	76,967	71,148	1,377	1,354
September	59,200	47,700	81,749	66,597	1,383	1,396
October	59,000	47,700	82,569	67,495	1,401	1,416
November	52,700	46,200	73,032	64,817	1,389	1,403
December	57,200	47,100	79,315	66,461	1,389	1,411
Annual Total ¹	662,000	632,900	907,075	873,203	1,372	1,381

¹ Totals may not add due to rounding.

Hogs & Pigs: Total Breeding & Market Inventory, Farrowings, Pigs per Litter, Pig Crop, & Marketings – Utah: December 1, 2012-2021

[Farrowings, Pigs per Litter, Pig Crop, & Marketings for the Year, December 1, previous year, through November 30.]

Year	Inventory			Sows Farrowing	Pigs per Litter	Pig Crop	Marketings ¹
	Total	Breeding	Market				
	(1,000 head)	(1,000 head)	(1,000 head)	(1,000 head)	(head)	(1,000 head)	(1,000 head)
2012.....	740	80	660	163	10.18	1,660	1,593.0
2013.....	700	75	625	167	10.07	1,682	1,616.5
2014.....	600	75	525	162	9.44	1,529	1,478.5
2015.....	680	75	605	158	9.44	1,491	1,229.5
2016.....	700	75	625	157	9.15	1,437	1,203.5
2017.....	550	80	470	149	8.92	1,329	1,366.5
2018.....	710	80	630	146	9.14	1,334	1,148.5
2019.....	960	80	880	168	10.62	1,784	1,413.8
2020.....	1,000	90	910	167	10.92	1,824	1,555.5
2021.....	940	85	855	179	10.45	1,871	1,737.5

¹ Includes custom slaughter for use on farms where produced & state outshipments, but excludes inter-farm sales within the state.

Hogs & Pigs: Balance Sheet – Utah: 2017-2021

Inventory Additions & Removals	2017	2018	2019	2020	2021
	(head)	(head)	(head)	(head)	(head)
Inventory Beginning of Year ¹	700,000	550,000	710,000	960,000	1,000,000
Annual Pig Crop ²	1,329,000	1,334,000	1,784,000	1,824,000	1,871,000
Inshipments	83,000	103,000	73,300	24,000	24,000
Marketings ³	1,366,500	1,148,500	1,413,800	1,555,500	1,737,500
Farm Slaughter ⁴	500	500	500	500	500
Deaths	195,000	128,000	193,000	252,000	217,000
Inventory End of Year ⁵	550,000	710,000	960,000	1,000,000	940,000

¹ Hogs & pigs inventory is as of December 1, previous year.

² From November 30, previous year to December 1.

³ Includes custom slaughter for use on farm where produced, state out-shipments, but excludes inter-farm sales within the state.

⁴ Excludes custom slaughter for farmers at commercial establishments.

⁵ Hogs & pigs inventory is as of December 1.

Market Hogs & Pigs: Inventory by Weight Group – Utah: December 1, 2012-2021

Year	Under 50 Pounds	50-119 Pounds	120-179 Pounds	180 Pounds & over	Total Market Hogs
	(1,000 head)	(1,000 head)	(1,000 head)	(1,000 head)	(1,000 head)
2012.....	275	130	125	130	660
2013.....	265	115	120	125	625
2014.....	220	100	110	95	525
2015.....	245	115	125	120	605
2016.....	250	120	130	125	625
2017.....	185	85	100	100	470
2018.....	240	125	135	130	630
2019.....	320	185	185	190	880
2020.....	350	185	185	190	910
2021.....	340	170	170	175	855

Hogs & Pigs: Production, Marketings, & Income - Utah: 2012-2021

[Dollar values based on data received from U. S. Department of Agriculture's Agricultural Marketing Service]

Year	Production ¹	Marketings ²	Value of Production ³	Cash Receipts ^{3,4}	Value of Home Consumption	Gross Income
	(1,000 pounds)	(1,000 pounds)	(\$1,000 dollars)	(\$1,000 dollars)	(\$1,000 dollars)	(\$1,000 dollars)
2012.....	283,570	286,488	192,252	194,200	245	194,445
2013.....	287,097	292,010	210,555	213,969	167	214,136
2014.....	267,167	278,105	231,100	240,119	198	240,317
2015.....	249,888	240,153	158,757	152,911	145	153,056
2016.....	238,658	236,125	141,762	140,343	134	140,477
2017.....	255,582	273,260	159,045	172,432	144	172,576
2018.....	213,576	200,580	128,244	123,783	136	123,919
2019.....	205,070	179,502	123,456	106,085	142	106,227
2020.....	315,331	312,581	142,483	153,164	118	153,282
2021.....	290,084	299,809	226,419	208,067	166	208,233

¹ Adjustments made for changes in inventory & for inshipments.

² Excludes custom slaughter for use on farms where produced & interfarm sales within the State. ³ Includes allowance for higher average price of State inshipments & outshipments of feeder pigs. ⁴ Receipts from marketings & sale of farm slaughter.

Commercial Hog Slaughter – Utah: Monthly 2020 & 2021

Month	Number Slaughtered		Total Live Weight		Average Live Weight	
	2020	2021	2020	2021	2020	2021
	(head)	(head)	(pounds)	(pounds)	(pounds)	(pounds)
January.....	5,000	(D)	656,000	(D)	133	(D)
February.....	4,100	(D)	564,000	(D)	139	(D)
March.....	3,800	(D)	721,000	(D)	193	(D)
April.....	2,600	(D)	749,000	(D)	287	(D)
May.....	2,900	(D)	861,000	(D)	298	(D)
June.....	2,000	(D)	541,000	(D)	273	(D)
July.....	3,000	(D)	753,000	(D)	253	(D)
August.....	3,700	(D)	761,000	(D)	210	(D)
September.....	3,300	(D)	706,000	(D)	215	(D)
October.....	3,000	(D)	678,000	(D)	228	(D)
November.....	3,700	(D)	670,000	(D)	183	(D)
December.....	3,400	(D)	610,000	(D)	181	(D)
Annual Total.....	40,500	(D)	8,269,000	(D)	206	(D)

(D) Withheld to avoid disclosing data for individual operations.

Sheep & Lambs: Inventory by Class & Lamb Crop – Utah: January 1, 2018-2022

Class	2018	2019	2020	2021	2022
	(head)	(head)	(head)	(head)	(head)
All Sheep & Lambs ¹	275,000	290,000	285,000	285,000	270,000
Sheep & Lambs Kept for Breeding					
All Breeding Sheep & Lambs	250,000	260,000	240,000	245,000	240,000
Ewes	200,000	210,000	195,000	195,000	194,000
Rams	8,000	9,000	7,000	8,000	7,000
Replacement Lambs	42,000	41,000	38,000	42,000	39,000
Market Sheep & Lambs					
Total Market Sheep & Lambs	25,000	30,000	45,000	40,000	30,000
Market Sheep	4,000	2,000	4,000	3,000	1,000
Market Lambs	21,000	28,000	41,000	37,000	29,000
Market Lambs by Size Group					
Under 65 Pounds	3,000	2,000	1,000	1,000	1,000
65 - 84 Pounds	4,000	2,000	2,000	1,000	1,000
85 - 105 Pounds	5,000	11,000	14,000	13,000	11,000
Over 105 Pounds	9,000	13,000	24,000	22,000	16,000
Deaths					
Sheep	10,000	8,000	8,000	8,000	(2)
Lambs	21,000	15,000	14,000	16,000	(2)
Units	Lamb Crop & Value of Inventory				
Lamb Crop ³	(head)	235,000	230,000	230,000	235,000
Lambing Rate ⁴	(lambs/100 ewes)	118	110	118	115
Value per Head ⁵	(dollars)	218	217	212	216
					228

¹ All sheep includes new crop lambs. New crop lambs are lambs born after September 30, the previous year.

² Data available 2023

³ Total for the year. Lamb crop defined as lambs marked, docked, or branded.

⁴ Not strictly a lambing rate. Represents lamb crop expressed as a percent of ewes 1 year old & older on hand at the beginning of the year.

⁵ Average value of all sheep, including lambs, at the beginning of the year.

Wool: Production & Value – Utah: 2017-2021

Units	2017	2018	2019	2020	2021
Sheep & Lambs Shorn ¹	(head)	245,000	245,000	240,000	235,000
Weight per Fleece	(pounds)	9.0	9.1	8.9	8.9
Shorn Wool Production	(1,000 pounds)	2,200	2,220	2,140	2,080
Average Price per Pound	(dollars)	1.80	2.00	2.10	1.90
Value	(\$1,000 dollars)	3,960	4,440	4,494	3,952
					4,080

¹ Includes shearing at commercial feeding yards.

Sheep & Lambs: Lamb Crop, Farm Slaughter, & Death Loss – Utah: 2013-2022

Year	Ewes 1 Year & Older January 1	Lambs per 100 Ewes January 1 ¹	Lamb Crop ²	Farm Slaughter ³	Deaths	
					Sheep	Lambs
	(head)	(number)	(head)	(head)	(head)	(head)
2013.....	225,000	100	225,000	6,100	13,000	18,000
2014.....	215,000	109	235,000	6,100	11,000	16,000
2015.....	220,000	105	230,000	6,200	10,000	15,000
2016.....	215,000	107	230,000	6,100	11,000	15,000
2017.....	205,000	112	230,000	6,100	9,000	16,000
2018.....	200,000	118	235,000	5,600	10,000	21,000
2019.....	210,000	110	230,000	5,500	8,000	15,000
2020.....	195,000	118	230,000	5,000	8,000	13,000
2021.....	195,000	115	225,000	5,000	8,000	16,000
2022.....	194,000	(4)	(4)	(4)	(4)	(4)

¹ For the Year, 2020 & later.

² Lamb crop is defined as lambs born in the eastern states & lambs docked or branded in the western states.

³ Excludes custom slaughter for farmers at commercial establishments.

⁴ Data not available until January 2023

Losses of Lambs Before Docking, by Cause: Utah, 2016-2021

Cause of Loss	2016	2017	2018	2019	2020	2021
Number of Head	(head)					
Bear	100	200	200	800	1,500	500
Bobcat	300	400	500	100	(D)	(D)
Coyote	5,500	5,700	6,900	5,400	5,200	7,000
Dog	200	200	500	100	(D)	(D)
Mountain Lion	500	700	800	1,100	600	1,100
Foxes	500	400	500	100	400	400
Wolves	(D)	(D)	(D)	(D)	(D)	(D)
Eagles	700	500	600	400	1,200	1,100
Ravens	300	400	400	200	700	400
Other/Unknown ¹	200	100	200	400	300	200
Total Predators	8,300	8,600	10,600	8,600	9,900	10,700
Diseases	900	(D)	(D)	(D)	200	100
Enterotoxaemia	300	100	100	100	100	100
Weather Conditions	2,600	3,000	3,800	2,800	3,600	2,600
Lambing Complications	2,400	2,200	3,000	2,200	900	2,800
Old Age	NA	NA	NA	NA	NA	NA
On Back	(D)	(D)	(D)	(D)	(D)	(D)
Poison	100	(D)	(D)	(D)	300	(D)
Theft	(D)	100	100	(D)	100	(D)
Other/Unknown ¹	2,400	2,000	2,400	3,300	1,400	1,700
Total Non-Predators	8,700	7,400	9,400	8,400	6,600	7,300
Total Losses	17,000	16,000	20,000	17,000	16,500	18,000

(D) indicates Un-published: i.e. less than 100 head.

¹ Other/Unknown includes Other & Unknown causes combined with Un-published causes.

Totals may not add due to rounding.

Losses of Lambs After Docking, by Cause: Utah, 2016-2021

Cause of Loss	2016	2017	2018	2019	2020	2021
Number of Head	(head)					
Bear	1,300	1,600	2,000	1,800	1,000	1,400
Bobcat	300	400	400	300	(D)	400
Coyote	7,000	7,700	10,100	6,700	8,400	7,900
Dog	300	200	500	300	200	200
Mountain Lion	2,400	2,800	3,500	2,000	1,500	2,600
Foxes	200	500	600	200	200	100
Wolves	100	200	200	(D)	(D)	(D)
Eagles	100	100	100	100	100	200
Ravens	(D)	(D)	(D)	100	(D)	200
Other/Unknown ¹	200	100	200	300	200	200
Total Predators	11,900	13,600	17,600	11,800	11,600	13,200
Diseases	300	(D)	100	(D)	(D)	200
Enterotoxaemia	500	100	100	300	100	300
Weather Conditions	400	900	1,200	1,200	300	600
Lambing Complications	NA	NA	NA	NA	NA	NA
Old Age	NA	NA	NA	NA	NA	NA
On Back	(D)	(D)	(D)	(D)	(D)	(D)
Poison	300	400	500	300	400	200
Theft	(D)	100	200	(D)	(D)	(D)
Other/Unknown ¹	1,600	900	1,300	1,400	600	1,500
Total Non-Predators	3,100	2,400	3,400	3,200	1,400	2,800
Total Losses	15,000	16,000	21,000	15,000	13,000	16,000

(D) indicates Un-published: i.e. less than 100 head.

¹ Other/Unknown includes Other & Unknown causes combined with Un-published causes.

Totals may not add due to rounding.

Losses of Sheep and Lambs Combined, by Cause: Utah, 2016-2021 ¹

Cause of Loss	2016	2017	2018	2019	2020	2021
Number of Head	(head)					
Bear	2,500	2,700	3,000	3,600	3,200	2,500
Bobcat	600	800	900	400	(D)	400
Coyote	14,900	16,300	20,300	14,200	15,700	17,100
Dog	800	600	1,500	500	400	400
Mountain Lion	4,000	4,300	5,000	4,100	2,800	4,400
Foxes	700	900	1,100	300	600	500
Wolves	100	300	200	(D)	(D)	(D)
Eagles	800	600	700	500	1,300	1,300
Ravens	300	400	400	300	700	600
Other/Unknown ²	500	400	600	700	800	600
Total Predators	25,200	27,300	33,700	24,600	25,500	27,800
Diseases	1,700	100	200	300	400	400
Enterotoxaemia	1,100	200	300	500	200	500
Weather Conditions	3,400	4,400	5,600	4,200	4,200	3,400
Lambing Complications	3,300	2,900	3,800	2,900	1,400	3,200
Old Age	1,600	1,200	1,400	900	1,500	1,900
On Back	100	300	300	200	100	200
Poison	1,400	1,100	1,200	1,000	1,400	800
Theft	100	200	400	(D)	100	(D)
Other/Unknown ²	5,100	3,300	4,100	5,400	2,700	3,800
Total Non-Predators	17,800	13,700	17,300	15,400	12,000	14,200
Total Losses	43,000	41,000	51,000	40,000	37,500	42,000
Percent of Total by Cause	(percent)					
Bear	5.8	6.6	5.9	9.0	8.5	6.0
Bobcat	1.4	2.0	1.8	1.0	(D)	1.0
Coyote	34.7	39.8	39.8	35.5	41.9	40.7
Dog	1.9	1.5	2.9	1.3	1.1	1.0
Mountain Lion	9.3	10.5	9.8	10.3	7.5	10.5
Foxes	1.6	2.2	2.2	0.8	1.6	1.2
Wolves	0.2	0.7	0.4	(D)	(D)	(D)
Eagles	1.9	1.5	1.4	1.3	3.5	3.1
Ravens	0.7	1.0	0.8	0.8	1.9	1.4
Other/Unknown ²	1.2	1.0	1.2	1.8	2.1	1.4
Total Predators	58.6	66.6	66.1	61.5	68.0	66.2
Diseases	4.0	0.2	0.4	0.8	1.1	1.0
Enterotoxaemia	2.6	0.5	0.6	1.3	0.5	1.2
Weather Conditions	7.9	10.7	11.0	10.5	11.2	8.1
Lambing Complications	7.7	7.1	7.5	7.3	3.7	7.6
Old Age	3.7	2.9	2.7	2.3	4.0	4.5
On Back	0.2	0.7	0.6	0.5	0.3	0.5
Poison	3.3	2.7	2.4	2.5	3.7	1.9
Theft	0.2	0.5	0.8	(D)	0.3	(D)
Other/Unknown ²	11.9	8.0	8.0	13.5	7.2	9.0
Total Non-Predators	41.4	33.4	33.9	38.5	32.0	33.8
Total Losses	100.0	100.0	100.0	100.0	100.0	100.0
Total Loss as a Percent of Supply ³	8.1	7.9	9.6	7.4	7.1	8.0
Dollar Value of Losses by Cause	(\$1,000 dollars)					
Bear	461	475	532	642	655	579
Bobcat	98	126	146	66	(D)	94
Coyote	2,541	2,727	3,480	2,443	3,200	3,986
Dog	145	106	271	87	83	91
Mountain Lion	705	721	851	724	574	1,024
Foxes	114	142	179	50	122	118
Wolves	16	53	33	(D)	(D)	(D)
Eagles	130	95	114	83	263	306
Ravens	49	63	65	50	142	141
Other/Unknown ²	86	74	109	116	165	138
Total Predators	4,346	4,581	5,779	4,259	5,204	6,475
Diseases	301	21	38	64	83	93
Enterotoxaemia	194	32	54	87	41	116
Weather Conditions	573	721	943	703	854	796
Lambing Complications	581	495	662	512	289	746
Old Age	340	255	305	191	319	418
On Back	21	64	65	43	21	44
Poison	278	212	234	198	291	179
Theft	21	32	71	(D)	20	(D)
Other/Unknown ²	884	542	688	924	554	884
Total Non-Predators	3,193	2,373	3,059	2,722	2,471	3,276
Total Losses	7,538	6,953	8,838	6,980	7,675	9,750

(D) indicates Un-published: i.e. less than 100 head.

¹ Lamb losses include both before and after docking losses.

² Other/Unknown includes Other and Unknown causes combined with Un-published causes.

³ Supply equals beginning January 1st inventory plus lamb crop plus before docking death loss.

Totals may not add due to rounding.

Losses of Sheep, by Cause: Utah, 2016-2021

Cause of Loss	2016	2017	2018	2019	2020	2021
Number of Head	(head)					
Bear	1,100	900	800	1,000	700	600
Bobcat	(D)	(D)	(D)	(D)	(D)	(D)
Coyote	2,400	2,900	3,300	2,100	2,100	2,200
Dog	300	200	500	100	200	200
Mountain Lion	1,100	800	700	1,000	700	700
Foxes	(D)	(D)	(D)	(D)	(D)	(D)
Wolves	(D)	100	(D)	(D)	(D)	(D)
Eagles	(D)	(D)	(D)	(D)	(D)	(D)
Ravens	(D)	(D)	(D)	(D)	(D)	(D)
Other/Unknown ¹	100	200	200	(D)	300	200
Total Predators	5,000	5,100	5,500	4,200	4,000	3,900
Diseases	500	100	100	300	200	100
Enterotoxaemia	300	(D)	100	100	(D)	100
Weather Conditions	400	500	600	200	300	200
Lambing Complications	900	700	800	700	500	400
Old Age	1,600	1,200	1,400	900	1,500	1,900
On Back	100	300	300	200	100	200
Poison	1,000	700	700	700	700	600
Theft	100	(D)	100	(D)	(D)	(D)
Other/Unknown ¹	1,100	400	400	700	700	600
Total Non-Predators	6,000	3,900	4,500	3,800	4,000	4,100
Total Losses	11,000	9,000	10,000	8,000	8,000	8,000
Percent of Total by Cause	(percent)					
Bear	10.0	10.0	8.0	12.5	8.8	7.5
Bobcat	(D)	(D)	(D)	(D)	(D)	(D)
Coyote	21.8	32.2	33.0	26.3	26.3	27.5
Dog	2.7	2.2	5.0	1.3	2.5	2.5
Mountain Lion	10.0	8.9	7.0	12.5	8.8	8.8
Foxes	(D)	(D)	(D)	(D)	(D)	(D)
Wolves	(D)	1.1	(D)	(D)	(D)	(D)
Eagles	(D)	(D)	(D)	(D)	(D)	(D)
Ravens	(D)	(D)	(D)	(D)	(D)	(D)
Other/Unknown ¹	0.9	2.2	2.0	(D)	3.8	2.5
Total Predators	45.5	56.7	55.0	52.5	50.0	48.8
Diseases	4.5	1.1	1.0	3.8	2.5	1.3
Enterotoxaemia	2.7	(D)	1.0	1.3	(D)	1.3
Weather Conditions	3.6	5.6	6.0	2.5	3.8	2.5
Lambing Complications	8.2	7.8	8.0	8.8	6.3	5.0
Old Age	14.5	13.3	14.0	11.3	18.8	23.8
On Back	0.9	3.3	3.0	2.5	1.3	2.5
Poison	9.1	7.8	7.0	8.8	8.8	7.5
Theft	0.9	(D)	1.0	(D)	(D)	(D)
Other/Unknown ¹	10.0	4.4	4.0	8.8	8.8	7.5
Total Non-Predators	54.5	43.3	45.0	47.5	50.0	51.3
Total Losses	100.0	100.0	100.0	100.0	100.0	100.0
Dollar Value of Losses by Cause	(\$1,000 dollars)					
Bear	234	191	174	213	149	132
Bobcat	(D)	(D)	(D)	(D)	(D)	(D)
Coyote	510	616	718	446	446	484
Dog	64	43	109	21	43	44
Mountain Lion	234	170	152	213	149	154
Foxes	(D)	(D)	(D)	(D)	(D)	(D)
Wolves	(D)	21	(D)	(D)	(D)	(D)
Eagles	(D)	(D)	(D)	(D)	(D)	(D)
Ravens	(D)	(D)	(D)	(D)	(D)	(D)
Other/Unknown ¹	21	43	44	(D)	64	44
Total Predators	1,063	1,084	1,196	893	850	858
Diseases	106	21	22	64	43	22
Enterotoxaemia	64	(D)	22	21	(D)	22
Weather Conditions	85	106	131	43	64	44
Lambing Complications	191	149	174	149	106	88
Old Age	340	255	305	191	319	418
On Back	21	64	65	43	21	44
Poison	213	149	152	149	149	132
Theft	21	(D)	22	(D)	(D)	(D)
Other/Unknown ¹	234	85	87	149	149	132
Total Non-Predators	1,275	829	979	808	850	902
Total Losses	2,338	1,913	2,175	1,700	1,701	1,760

(D) indicates Un-published: i.e. less than 100 head.

¹ Other/Unknown includes Other and Unknown causes combined with Un-published causes.

Totals may not add due to rounding.

Losses of All Lambs, by Cause: Utah, 2016-2021 ¹

Cause of Loss	2016	2017	2018	2019	2020	2021
Number of Head	(head)					
Bear	1,400	1,800	2,200	2,600	2,500	1,900
Bobcat	600	800	900	400	(D)	400
Coyote	12,500	13,400	17,000	12,100	13,600	14,900
Dog	500	400	1,000	400	200	200
Mountain Lion	2,900	3,500	4,300	3,100	2,100	3,700
Foxes	700	900	1,100	300	600	500
Wolves	100	200	200	(D)	(D)	(D)
Eagles	800	600	700	500	1,300	1,300
Ravens	300	400	400	300	700	600
Other/Unknown ²	400	200	400	700	500	400
Total Predators	20,200	22,200	28,200	20,400	21,500	23,900
Diseases	1,200	(D)	100	(D)	200	300
Enterotoxaemia	800	200	200	400	200	400
Weather Conditions	3,000	3,900	5,000	4,000	3,900	3,200
Lambing Complications	2,400	2,200	3,000	2,200	900	2,800
Old Age	NA	NA	NA	NA	NA	NA
On Back	(D)	(D)	(D)	(D)	(D)	(D)
Poison	400	400	500	300	700	200
Theft	(D)	200	300	(D)	100	(D)
Other/Unknown ²	4,000	2,900	3,700	4,700	2,000	3,200
Total Non-Predators	11,800	9,800	12,800	11,600	8,000	10,100
Total Losses	32,000	32,000	41,000	32,000	29,500	34,000
Percent of Total by Cause	(percent)					
Bear	4.4	5.6	5.4	8.1	8.5	5.6
Bobcat	1.9	2.5	2.2	1.3	(D)	1.2
Coyote	39.1	41.9	41.5	37.8	46.1	43.8
Dog	1.6	1.3	2.4	1.3	0.7	0.6
Mountain Lion	9.1	10.9	10.5	9.7	7.1	10.9
Foxes	2.2	2.8	2.7	0.9	2.0	1.5
Wolves	0.3	0.6	0.5	(D)	(D)	(D)
Eagles	2.5	1.9	1.7	1.6	4.4	3.8
Ravens	0.9	1.3	1.0	0.9	2.4	1.8
Other/Unknown ²	1.3	0.6	1.0	2.2	1.7	1.2
Total Predators	63.1	69.4	68.8	63.8	72.9	70.3
Diseases	3.8	(D)	0.2	(D)	0.7	0.9
Enterotoxaemia	2.5	0.6	0.5	1.3	0.7	1.2
Weather Conditions	9.4	12.2	12.2	12.5	13.2	9.4
Lambing Complications	7.5	6.9	7.3	6.9	3.1	8.2
Old Age	NA	NA	NA	NA	NA	NA
On Back	(D)	(D)	(D)	(D)	(D)	(D)
Poison	1.3	1.3	1.2	0.9	2.4	0.6
Theft	(D)	0.6	0.7	(D)	0.3	(D)
Other/Unknown ²	12.5	9.1	9.0	14.7	6.8	9.4
Total Non-Predators	36.9	30.6	31.2	36.3	27.1	29.7
Total Losses	100.0	100.0	100.0	100.0	100.0	100.0
Dollar Value of Losses by Cause	(\$1,000 dollars)					
Bear	228	284	358	429	506	447
Bobcat	98	126	146	66	(D)	94
Coyote	2,031	2,111	2,763	1,997	2,754	3,502
Dog	81	63	163	66	41	47
Mountain Lion	471	551	699	512	425	870
Foxes	114	142	179	50	122	118
Wolves	16	32	33	(D)	(D)	(D)
Eagles	130	95	114	83	263	306
Ravens	49	63	65	50	142	141
Other/Unknown ²	65	32	65	116	101	94
Total Predators	3,283	3,497	4,583	3,366	4,354	5,617
Diseases	195	(D)	16	(D)	41	71
Enterotoxaemia	130	32	33	66	41	94
Weather Conditions	488	614	813	660	790	752
Lambing Complications	390	347	488	363	182	658
Old Age	NA	NA	NA	NA	NA	NA
On Back	(D)	(D)	(D)	(D)	(D)	(D)
Poison	65	63	81	50	142	47
Theft	(D)	32	49	(D)	20	(D)
Other/Unknown ²	650	457	601	776	405	752
Total Non-Predators	1,918	1,544	2,080	1,914	1,620	2,374
Total Losses	5,200	5,040	6,663	5,280	5,974	7,990

(D) indicates Un-published: i.e. less than 100 head.

¹ Lamb losses include both before and after docking losses.

² Other/Unknown includes Other and Unknown causes combined with Un-published causes.

Totals may not add due to rounding.

Layers & Eggs – Utah: 2017-2021

Item	Unit	2017	2018	2019	2020	2021
Inventory, Production, & Value ¹ 2017-2021						
Average Layers.....	(1,000 head)	5,153	4,793	4,711	4,685	5,676
Eggs per Layer ²	(number)	294	293	308	309	306
Total Egg Production.....	(million eggs)	1,513	1,403	1,450	1,447	1,738
Value of Eggs Produced.....	(\$1,000 dollars)	102,395	163,332	115,415	153,633	159,749
Chicken Inventory ³ & Value, December 1, 2017-2021						
Total Layers.....	(1,000 head)	5,036	4,713	4,642	5,071	6,234
Total Pullets.....	(1,000 head)	1,178	1,139	1,330	1,386	1,311
Total Chickens						
Total.....	(1,000 head)	6,214	5,852	5,972	6,457	7,545
Value						
Average per Head	(dollars)	2.20	2.30	3.10	2.40	2.70
Total Value.....	(\$1,000 dollars)	13,671	13,460	18,513	15,497	20,372
Chickens: Lost, Sold, & Value of Sales ⁴ 2017-2021						
Lost ⁵	(1,000 head)	1,598	1,127	1,230	2,168	2,236
Sold for Slaughter						
Chickens Sold.....	(1,000 head)	2,648	2,272	1,764	1,745	1,339
Live Weigh.....	(1,000 pounds)	8,924	7,815	6,068	6,019	4,619
Value of Sales.....	(dollars)	8,900	7,800	6,100	6,000	4,600

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

² Total egg production divided by average number of layers on hand.

³ Excludes commercial broilers.

⁴ Estimates exclude broilers and cover the 12 month period December 1, the previous year through November 30.

⁵ Includes rendered, died, destroyed, composted or disappeared for any reason except sold during the 12 month period.

Turkey: Production & Value – Utah: 2012-2021

Year	Production ¹	Production	Value of Production
	(1,000 head)	(1,000 pounds)	(\$1,000 dollars)
2012.....	4,100	105,780	76,267
2013.....	4,000	108,800	72,352
2014.....	4,000	96,800	71,148
2015.....	3,800	95,380	77,353
2016.....	4,700	121,730	100,549
2017.....	5,200	134,160	86,667
2018.....	(D)	(D)	(D)
2019.....	(D)	(D)	(D)
2020.....	(D)	(D)	(D)
2021.....	(D)	(D)	(D)

(D) Withheld to avoid disclosing data for individual operations.

¹ Excludes young turkeys lost.

Mink: Pelts Produced, Females Bred, Average Price, & Value – Utah & United States: 2012-2021

Year	Utah		United States			
	Pelts Produced	Females Bred	Pelts Produced	Females Bred	Average Marketing Price	Value of Pelts
	(1,000)	(1,000)	(pelts)	(number)	(dollars)	(\$1,000 dollars)
2012.....	(1)	179	(1)	770,000	(1)	(1)
2013.....	855	(1)	3,544,610	(1)	56.30	199,562
2014.....	959	201	3,741,150	851,500	57.70	215,864
2015.....	868	214	3,682,960	848,700	32.00	117,855
2016.....	732	190	3,454,410	767,110	34.70	119,868
2017.....	743	173	3,400,080	770,400	36.10	122,743
2018.....	708	168	3,169,560	776,440	26.60	84,310
2019.....	557	158	2,742,200	695,650	21.30	58,409
2020.....	387	105	1,441,760	358,880	33.70	47,364
2021.....	320	87	1,444,190	382,190	41.50	59,934

¹ Due to sequestration the Mink report was suspended.

Pelts Produced in 2021 & Females Bred for 2022, by Type – Utah & United States

Type ¹	Pelts Produced 2021		Females Bred To Produce Kits 2022	
	Utah ¹	United States	Utah ¹	United States
	(pelts)	(pelts)	(number)	(number)
Black	104,000	848,310	24,000	192,470
Demi/Wild	(D)	52,130	(D)	13,780
Pastel.....	32,000	39,090	8,500	10,330
Sapphire	(D)	84,620	(D)	22,560
Blue Iris.....	(D)	24,450	(D)	5,830
Mahogany.....	72,000	182,340	14,000	38,090
Pearl	(D)	55,050	(D)	13,540
Lavender.....	(D)	3,220	(D)	1,210
Violet.....	(D)	19,780	(D)	3,950
White	(D)	128,500	(D)	38,160
Other.....	(D)	6,700	(D)	1,970
Total.....	319,690	1,444,190	86,730	341,890

(D) Withheld to avoid disclosing data for individual operations.

¹ Published color classes may not add to the State total to avoid disclosing individual operations.

Honey: Number of Colonies, Yield, Production, Stocks, Price, & Value – Utah: 2012-2021

[Producers with 5 or more colonies.]

Year	Honey Producing Colonies ¹	Yield per Colony	Production	Stocks December 15 ²	Average Price per Pound ³	Value of Production ⁴
	(number)	(pounds)	(1,000 pounds)	(pounds)	(dollars)	(\$1,000 dollars)
2012.....	25,000	38	950	209,000	1.87	1,777
2013.....	30,000	34	1,020	92,000	2.09	2,132
2014.....	29,000	28	812	130,000	2.13	1,730
2015.....	27,000	42	1,134	147,000	1.92	2,177
2016.....	31,000	32	992	169,000	1.93	1,915
2017.....	27,000	31	837	67,000	2.08	1,741
2018.....	26,000	41	1,066	75,000	2.10	2,239
2019.....	22,000	29	638	89,000	1.97	1,257
2020.....	28,000	34	952	171,000	2.02	1,923
2021.....	31,000	33	1,023	92,000	2.18	2,230

¹ Honey producing colonies are the maximum number of colonies from which honey was taken during the year. It is possible to take honey from colonies which did not survive the entire year.

² Stocks held by producers.

³ Average price per pound based on expanded sales.

⁴ Value of production is equal to production multiplied by average price per pound.

Trout: Total Value of Fish Sold & Foodsize Sales – Utah: 2012-2021

Year	Total Value of Fish Sold ¹	Foodsize (12 Inches or longer)			
		Number of Fish	Live Weight ²	Sales	
				Total ³	Average Price per Pound
	(dollars)		(pounds)	(dollars)	(dollars)
2012.....	472,000	90,000	100,000	330,000	3.30
2013.....	617,000	100,000	151,000	556,000	3.68
2014.....	604,000	130,000	161,000	531,000	3.30
2015.....	630,000	90,000	113,000	444,000	3.93
2016.....	633,000	100,000	128,000	436,000	3.41
2017.....	694,000	140,000	184,000	550,000	2.99
2018.....	997,000	200,000	192,000	939,000	4.89
2019.....	1,629,000	260,000	288,000	1,336,000	4.64
2020.....	926,000	(D)	(D)	(D)	(D)
2021.....	1,137,000	165,000	176,000	838,000	4.76

(D) Withheld to avoid disclosing data for individual operations.

¹ Total sales excluding eggs.

² Due to rounding, total number of fish multiplied by the average pounds per unit may not exactly equal total live weight.

³ Due to rounding, total number or live weight multiplied by average value per unit may not exactly equal total sales.

Marketing Year Average Prices, by Commodity – Utah: 2013-2021

Commodity	Unit	2013	2014	2015	2016	2017	2018	2019	2020	2021
Wheat, All	bu	7.94	7.07	5.18	4.30	5.20	6.00	4.95	5.43	7.10
Wheat, Winter.....	bu	7.71	6.85	4.77	3.98	5.00	5.70	4.95	5.43	7.10
Wheat, Spring.....	bu	8.66	8.58	7.00	5.50	7.00	6.70	(1)	(1)	(1)
Corn, Grain	bu	5.47	4.13	4.68	3.87	3.96	4.31	4.30	5.35	6.00
Barley, All	bu	4.17	3.13	2.97	2.36	3.08	3.69	3.70	4.00	5.00
Hay, All (Baled).....	ton	182.00	188.00	162.00	127.00	134.00	171.00	181.00	181.00	230.00
Alfalfa.....	ton	182.00	188.00	162.00	127.00	134.00	172.00	182.00	187.00	231.00
Other Hay	ton	152.00	154.00	131.00	104.00	116.00	133.00	144.00	122.00	177.00
Tart Cherries.....	lb	0.48	0.43	0.34	0.35	0.30	0.22	0.16	0.17	0.25
Milk Cows	hd	1,290.00	1,740.00	1,930.00	1,730.00	1,700.00	1,450.00	1,140.00	1,210.00	1,210.00
Honey	lb	2.09	2.13	1.92	1.93	2.08	2.10	1.97	2.02	2.18
Trout (12 Inch +)...	lb	3.68	3.30	3.93	3.41	2.99	4.89	4.64	(D)	4.76
Eggs ²	doz	0.90	1.08	1.91	0.69	0.81	1.40	0.96	1.27	1.10
Milk, All	cwt	19.50	23.70	17.00	16.20	17.70	16.10	18.50	18.20	18.50

(D) Withheld to avoid disclosing data for individual operations.

¹ No Longer in the estimate program.

² Egg Prices are derived from the annual production and annual value of production data from the April Poultry: Price & Value Report.

Prices Received: Monthly Averages by Selected Commodities – Utah: 2012-2021

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Milk											
	(dollars per cwt)	(dollars per cwt)	(dollars per cwt)	(dollars per cwt)	(dollars per cwt)	(dollars per cwt)	(dollars per cwt)	(dollars per cwt)	(dollars per cwt)	(dollars per cwt)	(dollars per cwt)	(dollars per cwt)
2012.....	18.20	16.80	16.50	15.70	15.10	14.60	15.80	17.40	18.80	21.00	21.80	20.60
2013.....	19.90	19.10	18.60	18.80	19.20	19.10	18.20	18.50	19.50	20.50	21.20	21.50
2014.....	22.30	24.10	24.10	24.60	24.40	23.00	22.50	23.80	25.00	24.90	23.80	21.50
2015.....	17.80	16.50	16.40	16.40	16.70	16.90	16.70	16.70	17.00	17.40	18.40	17.80
2016.....	16.10	15.60	15.00	14.90	14.40	14.50	15.60	16.80	17.70	16.70	17.50	19.10
2017.....	19.00	18.40	17.90	16.50	16.50	17.10	17.00	17.60	17.80	18.30	18.40	17.60
2018.....	16.20	15.10	15.70	15.80	16.20	16.10	15.30	15.80	16.80	17.50	16.80	16.30
2019.....	16.30	16.30	17.20	17.40	17.60	17.90	18.20	18.60	19.10	20.40	21.70	21.30
2020.....	19.20	18.60	17.80	15.20	13.80	17.10	19.70	19.50	18.30	18.90	21.40	18.90
2021.....	17.60	17.00	17.40	18.30	19.20	18.40	17.60	17.50	18.10	19.30	20.50	21.60

Prices Received: Monthly Averages by Selected Commodities – Utah: 2012-2021 (continued)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
All Hay (Baled)												
	(dollars per ton)	(dollars per ton)	(dollars per ton)	(dollars per ton)	(dollars per ton)	(dollars per ton)	(dollars per ton)	(dollars per ton)	(dollars per ton)	(dollars per ton)	(dollars per ton)	(dollars per ton)
2012.....	189.00	175.00	173.00	189.00	205.00	198.00	199.00	187.00	187.00	187.00	182.00	192.00
2013.....	183.00	184.00	175.00	182.00	190.00	190.00	194.00	186.00	186.00	175.00	170.00	170.00
2014.....	174.00	180.00	175.00	170.00	170.00	170.00	194.00	204.00	205.00	199.00	185.00	179.00
2015.....	180.00	180.00	170.00	175.00	175.00	175.00	165.00	159.00	160.00	160.00	160.00	160.00
2016.....	160.00	160.00	145.00	145.00	120.00	130.00	130.00	129.00	130.00	130.00	130.00	125.00
2017.....	120.00	120.00	120.00	120.00	120.00	125.00	125.00	125.00	135.00	140.00	140.00	140.00
2018.....	140.00	145.00	150.00	150.00	150.00	160.00	159.00	169.00	174.00	174.00	174.00	179.00
2019.....	184.00	185.00	185.00	184.00	185.00	184.00	179.00	179.00	174.00	184.00	184.00	189.00
2020.....	184.00	175.00	179.00	174.00	167.00	171.00	177.00	172.00	184.00	179.00	189.00	184.00
2021.....	189.00	192.00	196.00	194.00	199.00	209.00	219.00	225.00	234.00	245.00	249.00	254.00
Alfalfa Hay (Baled)												
	(dollars per ton)	(dollars per ton)	(dollars per ton)	(dollars per ton)	(dollars per ton)	(dollars per ton)	(dollars per ton)	(dollars per ton)	(dollars per ton)	(dollars per ton)	(dollars per ton)	(dollars per ton)
2012.....	189.00	175.00	173.00	189.00	205.00	198.00	200.00	188.00	187.00	187.00	182.00	192.00
2013.....	183.00	184.00	175.00	183.00	191.00	190.00	195.00	187.00	187.00	175.00	170.00	170.00
2014.....	175.00	180.00	175.00	170.00	170.00	170.00	195.00	205.00	205.00	200.00	185.00	180.00
2015.....	180.00	180.00	170.00	175.00	175.00	175.00	165.00	160.00	160.00	160.00	160.00	160.00
2016.....	160.00	160.00	145.00	145.00	120.00	130.00	130.00	130.00	130.00	130.00	130.00	125.00
2017.....	120.00	120.00	120.00	120.00	120.00	125.00	125.00	125.00	135.00	140.00	140.00	140.00
2018.....	140.00	145.00	150.00	150.00	150.00	160.00	160.00	170.00	175.00	175.00	175.00	180.00
2019.....	185.00	185.00	185.00	185.00	185.00	185.00	180.00	180.00	175.00	185.00	185.00	190.00
2020.....	185.00	175.00	180.00	175.00	170.00	175.00	185.00	180.00	190.00	185.00	195.00	190.00
2021.....	195.00	195.00	200.00	200.00	200.00	210.00	220.00	225.00	235.00	245.00	250.00	255.00
All Other Hay (Baled)												
	(dollars per ton)	(dollars per ton)	(dollars per ton)	(dollars per ton)	(dollars per ton)	(dollars per ton)	(dollars per ton)	(dollars per ton)	(dollars per ton)	(dollars per ton)	(dollars per ton)	(dollars per ton)
2012.....	152.00	142.00	141.00	152.00	163.00	158.00	160.00	151.00	150.00	147.00	147.00	154.00
2013.....	148.00	148.00	142.00	148.00	153.00	153.00	165.00	155.00	150.00	155.00	145.00	145.00
2014.....	145.00	145.00	140.00	140.00	140.00	140.00	160.00	165.00	165.00	160.00	150.00	145.00
2015.....	145.00	145.00	135.00	140.00	140.00	140.00	135.00	130.00	130.00	130.00	130.00	130.00
2016.....	130.00	130.00	120.00	115.00	100.00	100.00	100.00	100.00	110.00	110.00	110.00	105.00
2017.....	105.00	105.00	105.00	105.00	105.00	110.00	110.00	110.00	120.00	120.00	120.00	120.00
2018.....	120.00	120.00	125.00	125.00	125.00	125.00	125.00	130.00	135.00	135.00	135.00	135.00
2019.....	140.00	140.00	150.00	150.00	150.00	150.00	145.00	145.00	145.00	145.00	145.00	150.00
2020.....	140.00	140.00	130.00	125.00	125.00	115.00	115.00	115.00	115.00	125.00	125.00	130.00
2021.....	135.00	135.00	135.00	135.00	135.00	145.00	160.00	175.00	185.00	200.00	200.00	195.00

Farm Labor: Number Hired, Wage Rates, & Hours Worked – Mountain II Region: July 2021, October 2021, January 2022, & April 2022 ^{1 2}

	July 2021	October 2021	January 2022	April 2022
Hired Workers				
Hired Workers	20,000	17,000	14,000	18,000
Expected to be Employed				
150 Days or More	13,000	14,000	13,000	14,000
149 Days or Less	7,000	3,000	1,000	4,000
Hours Worked (per Week)				
Hours Worked by Hired Workers	41.0	44.4	41.6	42.1
Wage Rates (Dollars per Hours)				
Wage Rates for all Hired Workers	15.82	16.55	17.48	17.34
Type of Worker				
Field	14.98	15.93	17.36	17.53
Livestock	15.33	15.78	15.62	15.37
Field & Livestock Combined	15.12	15.87	16.37	16.43

¹ Mountain II Region includes Colorado, Nevada, and Utah.

² Excludes Agricultural Service workers.

Grazing Fees: Annual Average Rates - Utah: 2012-2021

Year	Per Animal Unit ¹	Cow-Calf	Per Head
	(dollars per month)	(dollars per month)	(dollars per month)
2012.....	13.70	16.70	16.00
2013.....	14.50	18.50	16.00
2014.....	15.00	19.00	16.50
2015.....	16.00	20.00	17.00
2016.....	16.50	20.00	17.00
2017.....	16.50	20.00	18.50
2018.....	17.00	19.00	18.50
2019.....	18.00	20.00	18.50
2020.....	18.00	(S)	19.50
2021.....	18.50	20.00	19.50

(S) Insufficient number of reports to establish an estimate.

¹ Includes animal unit plus cow-calf rate converted to animal unit (AUM) using (1 aum=cow-calf* 0.833)

County Estimates: Select Items & Years - Utah

Item	Unit	State Totals	County					
			Beaver	Box Elder	Cache	Carbon	Daggett	Davis
January 1, 2022								
All Cattle & Calves	(head)	790,000	28,000	81,000	60,000	6,600	3,800	3,600
Beef Cows	(head)	331,000	12,700	35,500	10,000	(D)	2,500	2,100
Cash Receipts 2020 ¹								
Total.....	(\$1,000 dollars)	1,933,296	230,871	141,554	173,923	6,290	3,298	25,252
Livestock.....	(\$1,000 dollars)	1,358,125	209,475	93,082	133,336	3,713	2,783	3,145
Crops	(\$1,000 dollars)	575,171	21,396	48,472	40,587	2,577	515	22,107
2017 Census of Agriculture ²								
Number of Farms ³	(number)	17,900	272	1,187	1,397	309	52	528
Land in Farms ³	(acres)	10,700,000	157,030	1,220,773	276,273	230,942	17,671	51,793
Harvested Cropland ⁴	(acres)	1,062,894	37,496	154,321	116,796	8,011	5,409	6,316
Irrigated Land ⁵	(acres)	1,097,219	40,240	103,836	90,148	9,253	7,168	9,995

See footnote(s) at end of table.

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County Estimates: Select Items & Years - Utah (Continued)

Item	Unit	County						
		Duchesne	Emery	Garfield	Grand	Iron	Juab	Kane
January 1, 2022								
All Cattle & Calves	(head)	56,000	19,700	15,300	5,600	38,000	20,000	8,800
Beef Cows	(head)	27,000	12,700	10,000	3,400	11,500	(D)	(D)
Cash Receipts 2020 ¹								
Total.....	(\$1,000 dollars)	69,394	17,979	21,626	8,482	149,560	57,310	8,233
Livestock.....	(\$1,000 dollars)	53,275	13,126	17,569	3,348	89,131	24,462	7,450
Crops	(\$1,000 dollars)	16,119	4,853	4,057	5,134	60,429	32,848	783
2017 Census of Agriculture ²								
Number of Farms ³	(number)	1,063	504	286	102	486	292	182
Land in Farms ³	(acres)	1,057,413	133,699	82,637	231,361	512,940	264,644	128,697
Harvested Cropland ⁴	(acres)	59,527	21,370	13,013	9,705	65,182	27,013	3,384
Irrigated Land ⁵	(acres)	96,513	32,848	21,194	11,498	64,380	23,731	6,896

See footnote(s) at end of table.

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County Estimates: Select Items & Years - Utah (Continued)

Item	Unit	County							
		Millard	Morgan	Piute	Rich	Salt Lake	San Juan	Sanpete	Sevier
January 1, 2022									
All Cattle & Calves	(head)	59,000	8,200	18,400	41,500	2,100	15,100	58,000	48,500
Beef Cows	(head)	18,300	4,500	6,100	(D)	(D)	9,200	16,600	12,900
Cash Receipts 2020 ¹									
Total.....	(\$1,000 dollars)	201,440	17,457	42,300	28,822	21,574	16,323	164,477	108,133
Livestock.....	(\$1,000 dollars)	104,179	14,971	38,511	24,830	2,692	9,984	142,889	86,223
Crops	(\$1,000 dollars)	97,261	2,486	3,789	3,992	18,882	6,248	21,588	21,910
2017 Census of Agriculture ²									
Number of Farms ³	(number)	654	372	104	160	592	823	1,003	691
Land in Farms ³	(acres)	481,539	242,666	54,445	374,947	61,965	1,657,212	301,691	108,992
Harvested Cropland ⁴	(acres)	112,567	12,636	11,308	41,118	6,003	44,614	57,963	40,129
Irrigated Land ⁵	(acres)	122,680	9,023	15,340	42,422	7,430	7,571	76,489	49,440

See footnote(s) at end of table.

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County Estimates: Select Items & Years - Utah (Continued)

Item	Unit	County							
		Summit	Tooele	Uintah	Utah	Wasatch	Washington	Wayne	Weber
January 1, 2022									
All Cattle & Calves	(head)	19,400	21,000	37,000	56,000	7,600	13,100	18,800	19,900
Beef Cows	(head)	9,100	12,800	22,500	16,700	4,900	8,400	9,600	5,600
Cash Receipts 2020 ¹									
Total.....	(\$1,000 dollars)	29,190	37,862	49,932	196,807	9,938	19,716	15,135	60,509
Livestock.....	(\$1,000 dollars)	24,556	30,686	32,863	129,347	7,815	12,794	13,191	28,699
Crops	(\$1,000 dollars)	4,634	7,176	17,069	67,460	2,123	6,922	1,944	31,810
2017 Census of Agriculture ²									
Number of Farms ³	(number)	626	540	1,114	2,589	475	537	209	1,260
Land in Farms ³	(acres)	295,588	348,934	1,824,700	303,795	97,098	155,047	42,751	94,361
Harvested Cropland ⁴	(acres)	18,616	16,663	47,696	73,397	7,836	9,231	13,336	22,238
Irrigated Land ⁵	(acres)	21,298	21,894	65,306	72,669	11,252	12,984	16,552	27,169

- Represents zero.

(D) Withheld to avoid disclosing data for individual operations.

¹ Source: Bureau of Economic Analysis, U.S. Department of Commerce. All dollar estimates are in current dollars (not adjusted for inflation).

² These county estimates are only published once every 5 years with the Census of Agriculture.

³ State level estimates are published annually, number of farms and land in farms for the state of Utah are for 2021.

⁴ Includes land from which crops were harvested or hay was cut, & land in orchards.

⁵ Includes all land watered by any artificial or controlled means, such as sprinklers, furrows or ditches & spreader dikes.

County ¹	All Cattle		Beef Cows	
	2021	2022	2021	2022
	(number)	(number)	(number)	(number)
Northern				
Box Elder.....	82,000	81,000	37,000	35,500
Cache.....	60,000	60,000	10,400	10,000
Davis.....	3,700	3,600	2,200	2,100
Morgan.....	8,300	8,200	4,600	4,500
Rich.....	42,000	41,500	(D)	(D)
Salt Lake.....	2,200	2,100	(D)	(D)
Tooele.....	21,500	21,000	13,400	12,800
Weber.....	20,000	19,900	5,800	5,600
Central				
Juab.....	20,500	20,000	(D)	(D)
Millard.....	59,000	59,000	19,100	18,300
Sanpete.....	59,000	58,000	17,300	16,600
Sevier.....	49,500	48,500	13,500	12,900
Utah.....	57,000	56,000	17,400	16,700
Eastern				
Carbon.....	6,700	6,600	(D)	(D)
Daggett.....	3,800	3,800	2,600	2,500
Duchesne.....	57,000	56,000	28,000	27,000
Emery.....	19,900	19,700	13,300	12,700
Grand.....	5,600	5,600	3,600	3,400
San Juan.....	15,300	15,100	9,600	9,200
Summit.....	19,600	19,400	9,500	9,100
Uintah.....	37,500	37,000	23,500	22,500
Wasatch.....	7,700	7,600	5,100	4,900
Southern				
Beaver.....	28,500	28,000	13,300	12,700
Garfield.....	15,400	15,300	10,400	10,000
Iron.....	38,500	38,000	12,000	11,500
Kane.....	8,900	8,800	(D)	(D)
Piute.....	18,600	18,400	6,400	6,100
Washington.....	13,300	13,100	8,700	8,400
Wayne.....	19,000	18,800	10,000	9,600
Other Counties.....	-	-	48,300	46,400
State Total.....	800,000	790,000	345,000	331,000

- Represents zero.

(D) Withheld to avoid disclosing data for individual operations.

¹ Counties with missing data are included in "Other Counties".

Cash Rents: Per Acre by County - Utah: 2021 & 2022

County ^{1,2}	Rented for Cash ^{1, 2}					
	Irrigated Cropland		Non-Irrigated Cropland		Pastureland	
	2021	2022	2021	2022	2021	2022
	(dollars per acre)	(dollars per acre)	(dollars per acre)	(dollars per acre)	(dollars per acre)	(dollars per acre)
Beaver	(D)	(D)	(D)	-	12.00	15.00
Box Elder	139.00	161.00	26.50	30.00	6.20	3.50
Cache	112.00	103.00	40.50	37.00	15.00	14.00
Carbon	80.00	67.00	(D)	(D)	2.30	2.90
Daggett	(D)	-	-	-	(D)	(D)
Davis	153.00	149.00	41.50	(D)	16.00	(D)
Duchesne	63.50	102.00	(D)	32.50	8.70	11.50
Emery	51.00	93.00	(D)	18.00	5.00	5.70
Garfield	(D)	98.50	47.00	-	(D)	(D)
Grand	60.50	(D)	-	-	(D)	-
Iron	123.00	109.00	(D)	(D)	2.00	2.90
Juab	52.00	60.00	12.50	12.50	2.50	4.10
Kane	75.50	102.00	-	-	3.40	(D)
Millard	169.00	144.00	14.50	12.00	4.80	3.60
Morgan	75.50	73.00	28.00	20.00	2.70	(D)
Piute	65.00	70.00	(D)	-	(D)	18.00
Rich	45.00	45.00	20.00	(D)	6.00	(D)
Salt Lake	97.00	107.00	(D)	(D)	5.20	(D)
San Juan	(D)	(D)	(D)	(D)	4.20	4.10
Sanpete	112.00	134.00	(D)	(D)	4.00	3.90
Sevier	91.00	100.00	(D)	-	7.00	7.80
Summit	67.00	57.50	(D)	(D)	5.40	3.80
Tooele	62.50	(D)	15.00	20.00	3.00	2.50
Uintah	75.00	98.50	29.50	(D)	11.00	4.60
Utah	111.00	138.00	(D)	(D)	3.50	2.60
Wasatch	72.00	78.50	(D)	(D)	5.10	6.90
Washington	166.00	(D)	(D)	-	4.10	3.10
Wayne	65.50	72.50	(D)	(D)	7.90	(D)
Weber	135.00	135.00	46.00	35.00	22.00	(D)
Other Counties	79.00	89.50	28.50	27.50	3.40	4.50
State Total	107.00	121.00	28.00	28.50	4.50	4.10

(-) Dash indicates either none or minor amount reported.

(D) Withheld to avoid disclosing data for individual operations.

¹ Counties with missing data are included in "Other Counties".

² Districts estimates discontinued in 2020.

Anemone Cut Flower Budget for One High Tunnel

Shannon Rauter, Graduate Research Assistant, Plants, Soils, and Climate, Utah State University

Melanie Stock, Assistant Professor, Department of Plants, Soils, and Climate, Utah State University

Ruby Ward, Professor, Department of Applied Economics, Utah State University

This budget contains costs and returns for the production and sale of anemone cut flowers that were grown in one high tunnel (14 feet by 40 ft) containing 994 plants. The costs are representative but should be adjusted where necessary for individual situations. Tunnel use, site selection, variety, pest management, and other practices will affect costs of the cut-flower operation.

Yield and Market: A yield of four quality-grade (longer than 10") and two speculation-grade (8-10" long) stems per plant is a mid-range yield of 'Carmel' and 'Galilee,' desirable cultivars for wholesale markets. Stems were sold in bunches of ten. Quality-graded bunches sold for \$15.00 (\$1.50 per stem) and speculation-graded sold for \$12.50 (\$1.25 per stem). Stems were sold through a cut flower co-op for 30% of revenue, which was calculated as 100% of quality and 50% of speculation bunches sold.

Supplies: Production supply costs were based on average prices available in Logan, UT, and online in summer 2022, but may vary across regions, suppliers, and time. All supplies must be purchased in year 1, but many last multiple years. Therefore, the cost of each input is annualized across the quantity used per year and the number of years until replacement.

Depreciation: Straight line depreciation was calculated for the high tunnel with no salvage value assumed after the years to replacement have been reached. Initial costs were divided by the number of years until materials would need to be replaced to determine the annual depreciation cost.

Table 1. Anemone cut flowers in one high tunnel for production months Nov. – Jun.

REVENUES						
	Input	Units	Total Bunches	% Sold	Price/unit	Total
	Quality (≥10" stems)	Bunches	398	100%	\$15.00	\$5,964.00
	Speculation (<10" stems)	Bunches	199	50%	\$12.50	\$1,242.50
TOTAL REVENUES						\$7,206.50
OPERATING EXPENSES						
Supplies	Input	Units	Price/unit	Quantity	Years to Replacement	Annual Expense
Preplant & Site	Tiller rental	Half day rental	\$50.00	1	1	\$50.00
Preparation	Fertilizer	5-lb bag	\$16.00	3	2	\$24.00
	Drip irrigation kit	Kit	\$170.00	1	3	\$56.67
Establishment & Maintenance	Anemone tubers	100 tubers	\$50.00	10	1	\$500.00
	Presprouting supplies	Packs	\$816.00	1	5	\$163.20
	Low tunnels	40' low tunnel	\$48.00	2	1	\$96.00
	Water usage	1000 gallons	\$2.48	3	1	\$7.44
	Pest control	Packs	\$69.00	1	4	\$17.25
Harvest & Storage	Harvest snips	Snip	\$22.00	1	2	\$11.00
	Bunching supplies	Packs	\$178.00	1	4	\$44.50
Total Supply Expenses						\$970.06

Labor	Input	Units	Quantity	Wage	Annual Wage
Preplant & Site Preparation	Soil tillage	Hours	2	\$16.80	\$33.60
	Apply fertilizer	Hours	0.5	\$16.80	\$8.40
	Install irrigation	Hours	1	\$16.80	\$16.80
Establishment & Maintenance	Presprouting labor	Hours	6.5	\$16.80	\$109.20
	Planting labor	Hours	5	\$16.80	\$84.00
	Pesticide applications	Hours	0.5	\$16.80	\$8.40
	Hand weeding	Hours	20	\$16.80	\$336.00
	Install low tunnels, plastic, and shade	Hours	4	\$16.80	\$67.20
	Monitor/ventilate	Hours	16	\$16.80	\$268.80
Harvest & Storage	Harvest and processing	Hours	40	\$16.80	\$672.00
	Delivery to co-op	Hours	10	\$16.80	\$168.00
Total labor expenses					\$1,772.40

Delivery Fees	Description	Units	Quantity	Revenue	Fee	Total Cost
	30% Delivery Charge	Bunches	498	\$7,206.50	30%	\$2,161.95
	Mileage to co-op	Miles	100		\$0.52 per mile	\$52.00
TOTAL OPERATING EXPENSES						\$4,904.41

FIXED EXPENSES

	Input	Units	Price/unit	Quantity	Years to replacement	Annual expense
Annual High Tunnel Depreciation	High Tunnel (14'x40')	High tunnel	\$1,050.00	1	8	\$131.25
	Initial construction labor	Hours	\$16.80	20	8	\$42.00
	Plastic film (6 mil 24'x50')	Roll	\$194.00	1	4	\$48.50
	Shade cloth (20'x48')	Roll	\$295.00	1	8	\$36.88
TOTAL FIXED EXPENSES						\$258.63

OWNERSHIP COSTS

Land*	\$45.00
TOTAL OWNERSHIP COSTS	\$45.00

TOTAL COSTS	\$5,208.04
NET PROJECTED RETURNS (14' x 40' High Tunnel)	\$1,998.46
NET PROJECTED RETURNS (per ft²)	\$3.57

*Land. One high tunnel uses approximately 1% of one acre and is assumed to be on land already owned. However, \$45 is used as a proxy (1% @ \$4,550/acre).

Ranunculus Cut Flower Budget for One High Tunnel

Shannon Rauter, Graduate Research Assistant, Plants, Soils, and Climate, Utah State University

Melanie Stock, Assistant Professor, Department of Plants, Soils, and Climate, Utah State University

Ruby Ward, Professor, Department of Applied Economics, Utah State University

This budget contains costs and returns for the production and sale of ranunculus cut flowers that were grown in a high tunnel (14 feet by 40 ft) containing 994 plants. The costs are representative but should be adjusted where necessary for individual situations. Tunnel use, site selection, variety, pest management, and other practices will affect costs of the cut-flower operation.

Yield and Market: A yield of six marketable (longer than 10") stems per plant is an upper mid-range yield of 'Amandine' and 'LaBelle,' desirable cultivars for wholesale markets. Stems were sold in bunches of ten for \$15.00 (\$1.50 per stem). Stems were sold through a local cut flower co-op for a fee of 30% of revenue, which was calculated as 100% of marketable bunches sold.

Supplies: Production supply costs were based on average prices available in Logan, UT, and online in summer 2022, but may vary across regions, suppliers, and time. All supplies must be purchased in year 1, but many last multiple years. Therefore, the cost of each input is annualized across the quantity used per year and the number of years until replacement.

Depreciation: Straight line depreciation was calculated for the high tunnel with no salvage value assumed after the years to replacement have been reached. Initial costs were divided by the number of years until materials would need to be replaced to determine the annual depreciation cost.

Table 1. Ranunculus cut flowers in one high tunnel for production months Nov. – Jun.

REVENUES						
	Output	Units	Total Bunches	% Sold	Price/unit	Total
	Marketable ($\geq 10''$ stems)	Bunches	596	100%	\$15.00	\$8,946.00
TOTAL REVENUES						\$8,946.00
OPERATING EXPENSES						
Supplies	Input	Units	Price/unit	Quantity	Years to Replacement	Annual Expense
Preplant & Site Preparation	Tiller rental	Half day rental	\$50.00	1	1	\$50.00
	Fertilizer	5-lb bag	\$16.00	3	2	\$24.00
	Drip irrigation kit	Kit	\$170.00	1	3	\$56.67
Establishment & Maintenance	Ranunculus tuberous roots	100 tuberous roots	\$52.00	10	1	\$520.00
	Presprouting supplies	Packs	\$816.00	1	5	\$163.20
	Water usage	1000 gallons	\$2.48	3	1	\$7.44
	Pest control	Packs	\$69.00	1	4	\$17.25
Harvest & Storage	Harvest snips	Snip	\$22.00	1	2	\$11.00
	Bunching supplies	Packs	\$178.00	1	4	\$44.50
Total Supply Expenses						\$894.06

Labor	Input	Units	Quantity	Wage	Annual Wage
Preplant & Site Preparation	Soil tillage	Hours	2	\$16.80	\$33.60
	Apply fertilizer	Hours	0.5	\$16.80	\$8.40
	Install irrigation	Hours	1	\$16.80	\$16.80
Establishment & Maintenance	Presprouting labor	Hours	6	\$16.80	\$100.80
	Planting labor	Hours	5	\$16.80	\$84.00
	Pesticide applications	Hours	0.5	\$16.80	\$8.40
	Hand weeding	Hours	20	\$16.80	\$336.00
	Install shade	Hours	2	\$16.80	\$33.60
	Monitor/ventilate	Hours	12	\$16.80	\$201.60
Harvest & Storage	Harvest and processing	Hours	72	\$16.80	\$1,209.60
	Delivery to co-op	Hours	10	\$16.80	\$168.00
Total labor expenses					\$2,200.80

Delivery Fees	Description	Units	Quantity	Revenue	Fee	Total Cost
	30% Delivery Charge	Bunches	596	\$8,946.00	30%	\$2,683.80
	Mileage to co-op	Miles	100		\$0.52 per mile	\$52.00
TOTAL OPERATING EXPENSES						\$5,830.66

FIXED EXPENSES

	Input	Units	Price/unit	Quantity	Years to replacement	Annual expense
Annual High Tunnel	High Tunnel (14'x40')	High tunnel	\$1,050.00	1	8	\$131.25
	Initial construction labor	Hours	\$16.80	20	8	\$42.00
Depreciation	Plastic film (6 mil 24'x50')	Roll	\$194.00	1	4	\$48.50
	Shade cloth (20'x48')	Roll	\$295.00	1	8	\$36.88
TOTAL FIXED EXPENSES						\$258.63

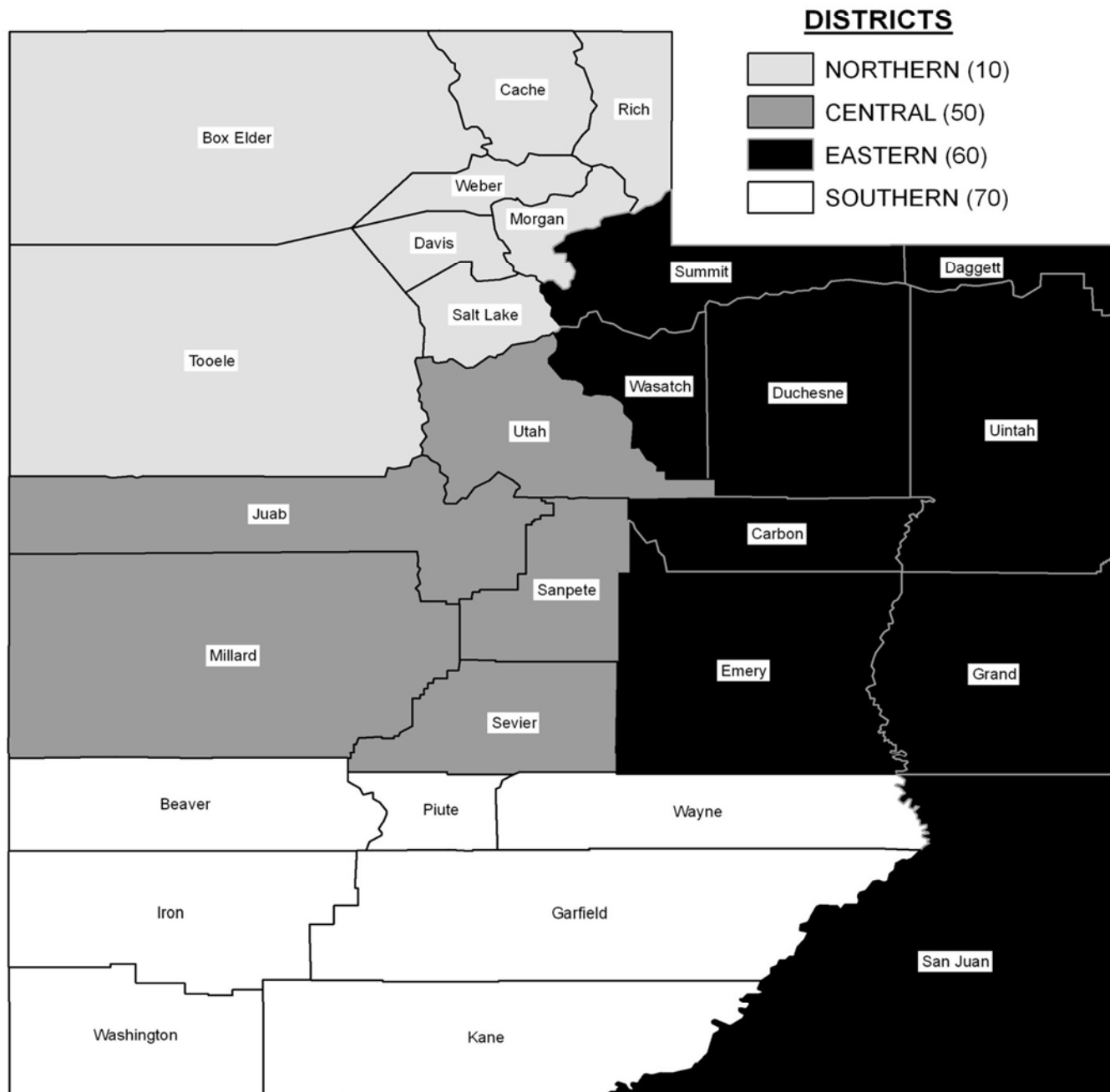
OWNERSHIP COSTS

Land*	\$45.00
TOTAL OWNERSHIP COSTS	\$45.00

TOTAL COSTS	\$6,134.29
NET PROJECTED RETURNS (14' x 40' High Tunnel)	\$2,811.71
NET PROJECTED RETURNS (ft²)	\$5.02

*Land. One high tunnel uses approximately 1% of one acre and is assumed to be on land already owned. However, \$45 is used as a proxy (1% @ \$4,550/acre).

UTAH COUNTIES AND DISTRICTS





UTAH DEPARTMENT OF
AGRICULTURE AND FOOD



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