

2020 ANNUAL REPORT AND AGRICULTURAL STATISTICS

**Philip D. Murphy, Governor
New Jersey Department of Agriculture
Douglas H. Fisher, Secretary of Agriculture**





About the cover: The New Jersey wine industry continues to grow as there are now more than 50 wineries throughout the state. Wineries adapted their business with curbside pickups and outdoor events during the pandemic and are a vital part of the agriculture industry in the Garden State. The grapes in the cover photo are from DiBella Winery in Woolwich Township in Gloucester County. Above, Secretary Fisher and Jersey Legacy organic grower Michele Schoen show off some cherry tomatoes at the farm in Cumberland County. At right, Secretary Fisher stops to see legendary trotter Muscle Hill during a visit to Southwind Farms in Pennington in Mercer County. Note that some photos in this report were taken previous to the COVID-19 Pandemic before the precautions of social distancing and wearing masks in groups were required.

A MESSAGE FROM SECRETARY OF AGRICULTURE

Douglas H. Fisher

In one of the most uncertain and challenging years in recent history, New Jersey farmers proved once again to be some of the most resilient on the planet.

The goal of providing the essential products and services so vitally needed by the residents of our state and others was met head on.

Our farming community was recognized as being essential early on during the COVID-19 Pandemic and delivered in spectacular fashion.

Supply chains disrupted, demand patterns upended, and general uncertainty was the norm for most of 2020 and adjustments and totally new strategies were developed by the agricultural community in record time.

New Jersey agriculture is strong and vibrant, however, we also know that like everything else, change is inevitable and must be met with relentless focus on what is coming next

Farmers from Jersey have always been leaders in innovation and will continue in this role going through the 21st century.

The New Jersey Department of Agriculture stands ready to serve you and we are proud of what we accomplished working together in 2020.





Secretary Fisher, here with Eric Buzby, visited the A.T. Buzby Farm in Salem County as tomatoes were ready for shipment.

2020 - 2021

New Jersey State Board of Agriculture



Erick Doyle
President
Hunterdon County
Livestock Industry



Alfred Natali
Vice President
Cape May County
Fruit Industry



Dr. Ernest Beier
Board Member
Gloucester County
Livestock Industry



David DeFrange II
Board Member
Hunterdon County
Nursery Industry



Paul Hlubik
Board Member
Burlington County
Hay/Grain Industry



Barney Hollinger
Board Member
Cumberland County
Aquaculture



Debbie Norz
Board Member
Somerset County
Vegetable Industry



Holly Sytsema
Board Member
Sussex County
Dairy Industry



One of the traditions that did not happen in 2020 due to COVID-19 was the annual Holiday dinner for current and former State Board of Agriculture members. It was a great turnout for the last dinner that took place in December of 2019.

2020

Highlights



Ag deemed essential early in Pandemic

When COVID-19 arrived in New Jersey in mid-March, there were questions about which businesses would be considered essential. One of the first declarations, both nationally and in New Jersey, was that agriculture is indeed essential and able to continue operations.

On March 25, Secretary Fisher wrote in a letter to the New Jersey agriculture community that, “Agriculture – its farms and related processing, distribution, and retailing operations – is an essential and vital business in New Jersey and is recognized as such in the State’s planning and organization of commerce as we deal with the changes brought to our world by the COVID-19 pandemic.”

Along with regular agriculture activities such as

planting, Governor Murphy also declared that livestock feed stores, nurseries and garden centers, and farming equipment stores could remain open during the Pandemic as long as social distancing guidelines were followed.

Later in the spring, the same held true for community and on-farm farmers markets, with many reports from around the state indicating these markets were extremely busy.

Another important facet that has been part of the NJDA’s response during the Pandemic is ensuring that meals are accessible. The Department’s Food and Nutrition Division has played a key role in informing schools, day care centers and Emergency Feeding Organizations about meal resources available through USDA programs.



Horticulture Census Shows NJ No. 7 in U.S.

The U.S. Department of Agriculture 2019 Census of Horticulture released in December showed that New Jersey was No. 7 in the U.S. for sales at slightly more than half a billion dollars per year. This Census of Horticulture found considerable growth compared to the 2014 Horticulture Census, which had New Jersey at \$356 million in sales. New Jersey individual and family operations accounted for \$106 million of those sales and ranked fourth nationally.

For the U.S., horticulture operations sold a total of \$13.8 billion in floriculture, nursery and specialty crops in 2019, down fractionally from the sales in 2014. The number of horticulture operations in the United States decreased 11 percent during this time to 20,655. The 2019 Horticulture Census is a special study conducted by the USDA’s National Agricultural Statistics Service.

Two New Members Join State Board of Agriculture

Sussex County farmer Holly Sytsema and Cumberland County farmer Barney Hollinger were sworn in to their terms on the New Jersey State Board of Agriculture during a special virtual meeting of the Board in September. The session also included the annual officer reorganization where Hunterdon County's Erick Doyle was elected President and Cape May County's Alfred Natali Vice President.

Sytsema and her husband Will Sytsema, who was New Jersey's Outstanding Young Farmer Award winner in 2009, own and operate Windy Flats Dairy in Wantage. It is a third and fourth generation farm that has a combined 250 dairy and beef cattle. The farm is approximately 800 acres and grows corn, soybeans, oats, rye, alfalfa and grassy hay.

Hollinger is the Special Projects Manager at Cape May Salt Oyster Farms in Port Norris, which is an oyster producing



Holly Sytsema, left, and Barney Hollinger were elected as the two new state board members in 2020.

aquaculture company that harvested 2.5 million oysters while producing 18 million seed oysters in 2019. The company had the goal of selling five million oysters in 2020. Cape May Salt features an intertidal farm as well as a deepwater farm.

State Department of Agriculture Offices Move Into A New Home



In mid-December, some of the offices for the State Department of Agriculture began moving into new space. The offices for the Agricultural and Natural Resources and Marketing and Development Divisions, along with the State Agricultural Development Committee and the Office of the Secretary relocated to 200 Riverview Plaza in Trenton.

The building address for the Department is now 200 Riverview Plaza - Third Floor, Trenton, NJ, 08611. However, the mailing address of PO Box 330, Trenton, NJ, 08625 remains the same.

Also, the primary phone numbers for the Department, 609-292-3976, and the State Agricultural Development Committee, 609-984-2504, each remain the same.

Joe Atchison III Named NJDA Marketing Director

Secretary Fisher announced in January of 2020 the appointment of Joe Atchison III (pictured at right), of Cherry Hill, as Director of the New Jersey Department of Agriculture's Division of Marketing and Development. Atchison has been with the NJDA since 2005.

Since 2013, Atchison had served as Coordinator of Agricultural Development conducting outreach to many agricultural organizations throughout the state. He also has managed the development of creative messaging

and marketing plans for the Jersey Fresh program. Atchison joined the New Jersey Department of Agriculture in 2005 as a Marketing Specialist supporting the Director of Marketing.

Atchison earned a Bachelor of Science degree from Rutgers University after majoring in Management and Marketing.

The Division of Marketing and Development plays a critical role in enhancing the markets of New Jersey farm products by developing and expanding markets, both here and abroad.



2020

Accomplishments Overview

Division of

AGRICULTURAL AND NATURAL RESOURCES

Ag Education Teachers Win National, Region Honors

Ag education teachers Keely DiTizio and Kristina Guttadora were each honored for their achievements by national organizations in 2020.

For DiTizio, a teacher of agriculture at Salem County Career and Technical School in Mannington Township, the Curriculum for Agricultural Science and Education (CASE) named her as the 2020 CASE National Innovation Award winner. The award highlights a creative classroom and teaching approach as CASE certified teachers implement and promote the curriculum.



She was honored at the National Association of Agricultural Educators Convention between Nov. 30 and Dec. 4. The convention was held virtually this year. DiTizio founded Salem Tech's Academy of Agricultural Sciences and revamped the program by implementing one of the first full CASE pathways in the country, which prepares students for the science, business, and technology of agriculture.

For Guttadora, a horticulture teacher at Monmouth County Career Center in Freehold, she was named the 2020 Association for Career and Technical Education Region I Teacher of the Year and was one of five finalists for the 2020 national honor. The award recognizes CTE teachers who have made significant contributions toward innovative and unique career and technical education programs and shown a professional commitment in their careers.



Merger Forms Upper Delaware Conservation District

Effective July 1, 2020, the Warren and Sussex County Soil Conservation Districts merged to form the Upper Delaware Conservation District.

The staff that served the Warren and Sussex County districts remains in tact. The address for the new location is 224 W. Stiger St., Hackettstown, NJ 07840. The phone number is 908-852-2579. Sandra Myers has remained as the District Manager.



Upper Delaware Conservation District

@UpperDelawareConservationDistrict · Government Organization

State FFA Convention Goes Virtual

New Jersey FFA's 91st Annual Convention took place in 2020 on May 18-22 and was all virtual due to COVID-19 restrictions.

The theme for the convention, normally attended by more than 400 members, was "Your Story, Your Legacy." Throughout the week, competition results were compiled and meetings were recorded leading up to the opening, which included remarks from Secretary Fisher. The first sessions were aired on the New Jersey FFA YouTube channel and recognized the hard work of chapters around the state. Nearly \$22,000 in scholarships were awarded, Honorary Garden State Degree and Distinguished Service Award recipients were recognized, and the 2020-2021 NJ State Officer Team (pictured at right) was installed.

"FFA members do an outstanding job each year with their State Convention, and they are proving how innovative and creative they can be by not allowing COVID-19 to stop their most important



event," Secretary Fisher said the week before. "With the Convention taking place in a virtual venue, this will be an exciting and enthusiastic experience."

The week began when state officer candidates participated in the nominating committee process. Students under-

went intense virtual interviews and were evaluated by six of their peers. The committee then was tasked with nominating the 2020-2021 NJ State FFA officers. Members had the opportunity to compete in an array of Career and Leadership Development Events.

Urban Agriculture Initiative A Priority for Department

Secretary Fisher met with Rutgers and the Department of Environmental Protection to continue the discussion about Urban Agriculture and Executive Order #23 that began at the Environmental Justice Council, Land Working Group meeting in October of 2019.

The Rutgers Office of Urban Extension & Engagement has prepared a scope of work outlining the contents of a white paper that will inventory existing Urban Ag projects in NJ, describe five typical scenarios under which these projects take place and the core issues that have been identified as critical to success.

The Department believes funding this Statement of Work is an important first step in identifying the needs of the urban ag community. It also aligns with the goals of the Environmental Council Interagency Council and the Environmental Justice Advisory Council.



NJDA Advocates For Aquaculture On Climate Change Alliance

The NJDA is participating on the NJ Climate Change Alliance Natural Working Lands subcommittee. In addition to promoting "Soil Health" conservation practices, the Department believes the aquaculture industry should be expanded to allow for the growing of products beyond oysters and clams (which are New Jersey's primary aquaculture crops). Allowing for the farming of aquatic plants, algae and other organisms has the potential to contribute to our "blue" carbon sequestration goals.

Division of ANIMAL HEALTH

Workshops Offer Accreditations For Veterinarians

The New Jersey Department of Agriculture's Animal Health Division holds veterinarian accreditation workshops throughout the year in partnership with the USDA's Animal and Plant Health Inspection Service Veterinary Services (APHIS).

The participants learn about New Jersey and United States disease and program rules and regulations with lectures covering a wide range of subjects including animal welfare, import and export of animals, rabies vaccination and testing, and submission of laboratory specimens.

These workshops are held three or four times a year and 61 veterinarians in New Jersey received their accreditation this past year.

The courses included presentations by NJDA

Animal Health Division Director and State Veterinarian Dr. Manoel Tamassia (pictured above), and NJDA staff members Dr. Sebastian Reist, Dr. Sandra Strilec, and Dr. Amar Patil.

The topics covered included Emergency Preparedness, New Jersey Health Laws and Regulations, NJDA Forms and Regulatory Tests, NJDA Animal Health Diagnostic Laboratory information, and USDA Core Orientation for Accreditation. The accreditation is a USDA sponsored program needed to comply with international requirements. The USDA established the veterinary accreditation program in 1921 so private practitioners could assist Federal veterinarians in controlling animal diseases. In 1992, APHIS established a national program. The National Veterinary Accreditation Program (NVAP) is managed nationally but authorization is still on a State by State basis. Creating a national system has helped APHIS standardize the accreditation procedures and requirements, allowing for more uniform administration of the program.



One Case of Eastern Equine Encephalitis in New Jersey

Only one case of Eastern Equine Encephalitis (EEE) was reported in New Jersey in 2020. An Atlantic County horse had to be euthanized in September due to the disease. The horse had not been vaccinated. This is significantly lower than the 10 cases reported in 2019, nine of which were in horses and one in an alpaca.

EEE causes inflammation of the brain tissue and has a significantly higher risk of death in horses than the West Nile Virus infection.

The disease is transmitted by a mosquito bite. EEE infections in horses are not a significant risk factor for human infection because horses (like humans) are “dead-end” hosts for the virus.

Animal Health Diagnostic Lab Honored By FDA For Research On Aflatoxin B1 Detection

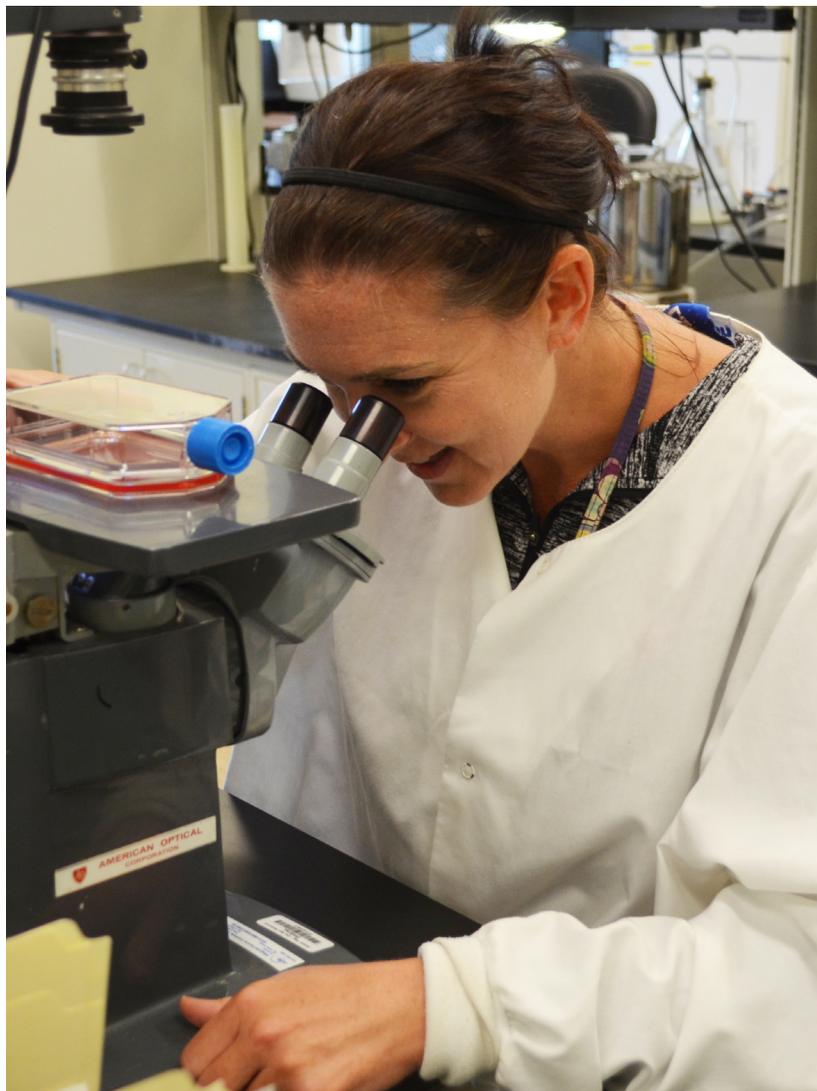
Animal Health Diagnostic Lab staff received the Food and Drug Administration (FDA) Group Recognition Crosscutting Award at the 60th FDA Honor Awards for extraordinary efforts to develop and evaluate a method for detection of aflatoxin B1 in dog food. The mold *Aspergillus flavus* produces a toxin called aflatoxin B1, which can grow on corn and other grains used as ingredients in pet food. Aflatoxin can cause illness and death in pets if ingested at high levels.

The FDA Honor Awards program recognizes accomplishments and significant contributions that have resulted in the agency's goal of meeting its mission of protecting and promoting public health.

AHDL Retains International Accreditation

The Animal Health Diagnostic Laboratory has retained ISO 17025 international accreditation. First attained in 2017, it has led to additional federal dollars through co-operative agreements with the FDA and the USDA, for animal food and animal disease surveillance, resulting in enhanced animal and human health protection.

The AHDL's mission is to enhance the economic vitality and life quality for all residents by promoting healthy livestock and companion animals, enhancing the safety of animal derived consumer products, protecting wildlife resources through timely disease detection, and enhancing understanding of diseases.



Federal Funding Provides Important Resources

The Division was a recipient of federal funding that will enhance service to the Garden State's residents.

The Regional Catastrophic Preparedness Grant is from the Homeland Security and Protection Act being administered by the Department of Human Services. It will be used to work on ensuring there are programs in place for the emergency preparedness of animals during catastrophic events to include pet sheltering and disability access and functional need preparation.

Also, the FDA approved \$1.8 million in funding to support the Animal Food (Livestock and Pet) surveillance for E. coli, Salmonella, and Listeria. The funding will be used to test samples collected by the Division of Marketing, Bureau of Commodity Inspection. The Lab Flexible Funding Model funding is approved for up to five years. The funding will help maintain animal food testing infrastructure, including supplies, equipment, quality assurance, and some personnel costs.

The funding will help develop the capacity to study the food borne pathogens using state of the art Next Generation Sequencing (NGS) technology. NGS is a modern technology to sequence the DNA of microorganisms in a high throughput manner.

name
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AEWG
County Animal Response Teams (CART)
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Volunteering/Donating
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GET CONNECTED



<p>Preparing for an Emergency/Disaster</p>	<p>During an Emergency/Disaster</p>	<p>After an Emergency/Disaster</p>
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Division of FOOD AND NUTRITION

Jersey Fresh Farm To School Flourishes Amid Pandemic

During 2020-21 school year, the Farm to School Program continues to serve New Jersey schools and advocate for students to have access to Jersey Fresh fruits and vegetables.

The 10th Annual Jersey Fresh Farm to School Week events in September included a virtual visit where Secretary Fisher congratulated The 360 Academy in Essex County for winning the Best in New Jersey Farm to School Award and then during an in-person visit where Secretary Fisher recognized Drop the Beet Farms for winning the Jersey Fresh Farm to School Farmer Recognition Award. The program is an opportunity for farmers to promote their Farm to School efforts and to connect with students in schools who are the next generation of Jersey Fresh consumers.

Academy360 in Livingston was recognized for its Culinary Academy360 and gardening program. When the COVID-19 Pandemic began last March, Academy 360 Chef Michael Matthews (pictured above) continued to teach by using Google Classroom. He decided the theme for the cooking classes for each week, and



he and the students prepared the dishes.

Critical lessons such as culinary math, culinary science, weights, measure, food safety, kitchen safety, proper personal hygiene, world geography, appropriate cutlery skills, and time and temperature were reinforced while creating the dishes.

Drop the Beet Farms has taken a unique approach with its Farm to School program by constructing a 20,000-gallon aquaponics facility operating

out of Calgo Gardens in Howell.

Drop the Beet manager Cody Parker (pictured at right) works with schools to build their own aquaponics systems and students are involved at every step by integrating the design process into the STEM curriculum.

Parker has estimated schools with aquaponics systems in the state can produce more than 5,000 heads of lettuce.



FFVP Program Sees Record Number of Schools Participating

As part of the Department's continuing efforts to improve nutritional opportunities for school children, Secretary Fisher announced 168 New Jersey schools are participating in the 2020-2021 school year's Fresh Fruit and Vegetable Program (FFVP). It is the third straight year the number of schools participating has increased and the 168 is the highest number of schools in the program since it began in New Jersey in 2008. The United States Department of Agriculture has allocated \$4,691,210 to New Jersey for this school year's FFVP.



School Meals, Food Distribution Increase During COVID-19

One role of the Department's Food and Nutrition Division is to administer the school meals and food distribution programs. Those were among the priorities that took a heightened importance when the COVID-19 Pandemic struck New Jersey in mid-March.

The Department opted into all available waivers from the USDA that provided for more flexibilities to allow children and people to have access to nutritious food. For example, some school districts delivered meals door-to-door, or provided a grab and go option for parents or guardians to pick up school meals at designated sites during the Pandemic. These programs continued in the summer. According to the Food Research and Action Center, in July, more than 9 million meals were distributed to more than 200,000 school children in New Jersey.

The Department also worked with New Jersey's six Emergency Feeding Organizations to distribute \$20 million. The CARES Act allowed for approximately \$126 million for school meals, \$75 million for the Summer Food Service Program and \$23 million for the Child and Adult Care Food Program.



Above, workers at the Community Food Bank of New Jersey (CFBNJ) prepare meals to be picked up or sent out. The photo was provided by the CFBNJ.

Department Highlights School Breakfast Week

About a week before the COVID-19 Pandemic struck New Jersey, the Department celebrated National School Breakfast Week in early March by visiting Nathan Hale School in Carteret.

The Carteret School District has been an active participant in the Breakfast After the Bell program since the fall of 2016. Since starting that program, the district has seen its breakfast participation numbers more than double for eligible students.

NJDA Food and Nutrition Division Director Rose Tricario, NJDA School Nutrition Program Coordinator Arleen Ramos-Szatmary and local and school officials visited two classrooms at the Nathan Hale School, which has about 500 students from pre-kindergarten through fifth grade.

New Jersey has seen one of the largest increases in the nation in breakfast participation in recent years. New Jersey is ranked 20th in the nation in percentage of eligible students who receive breakfast through the School Breakfast Program, improving from 48th in 2011.

School Breakfast Week was launched in 1989 to raise awareness about the availability of the U.S. Department of Agriculture's School Breakfast Program.



Division of MARKETING AND DEVELOPMENT

Jersey Fresh Water Tower Dedicated in Vineland

Secretary Fisher and local officials were on hand for the dedication of the Jersey Fresh Water Tower in Vineland in September.

Secretary Fisher was a guest of Vineland City and Mayor Anthony Fanucci (pictured at left with Secretary Fisher).

The Department and the city combined to complete the project of having the Jersey Fresh logo painted on the tower, which oversees the Vineland Produce Auction and several other agriculture-related businesses in that immediate area.

“Cumberland County has been my home for most of my life, being at ‘the block’ again today is wonderful so this is special for me,” Secretary Fisher said at the ceremony.

“The Jersey Fresh cam-

paign is the envy of many other states who keep changing their logos and strategies every few years. Yet, the original Jersey Fresh colors and design are recognized instantly by consumers in states across the country.”

“After 36 years it continues to work, in part, because growers pack and ship under the logo, distributors offer retailers Jersey Fresh sourcing solutions throughout the season, and retailers commit to supporting New Jersey’s produce industry by leveraging the brand at the store level.”

Secretary Fisher and Mayor Fanucci also each recognized the many family farms and food processing facilities in Vineland and around the state that stepped up during the ongoing COVID-19 Pandemic.



Local Architect Captures Winning Shot In #thankyouNJfarmers Photo Contest

Secretary Fisher announced in late September the Grand Prize Winner of the 2020 #thankyouNJfarmers social media photo contest was Melissa Garcia, a photographer based in Vineland in Cumberland County.

The winning photo (at right) featured the Cervini Family’s self-serve produce stand located on the back roads in Vineland that sells a variety of produce, including tomatoes, cucumbers and peppers. The grand prize for Garcia is a \$500 gift card to a business that features Jersey Fresh produce. Her place of choice was Bertuzzi’s Market in Atlantic County. Garcia, an architectural designer, has used agricultural settings for family and individual portraits, animal photography, and architecture.

This season, the NJDA encouraged Jersey Fresh fans to submit photographs showing their appreciation by sharing photos of Jersey Fresh farmers, markets or produce by using the #thankyouNJfarmers hashtag on social media from June 10 through September 1.

There were more than 1,000 photos submitted in this year’s contest.





In-Season Farm Visits Highlight Jersey Fresh Produce In Prime Time

Secretary Fisher made several stops at farm and distribution operations during the height of the season to highlight the arrival of Jersey Fresh fruits and vegetables. The Landisville Produce Co-Op, Vineland Produce Auction, A.T. Buzby Farm, Circle M Farms, Visalli's Farm Market, and Jersey Legacy Farms were among the visits..

"We are at the height of Jersey Fresh season and now is a great time to enjoy all the favorites," Secretary Fisher said at the time. "From tomatoes, sweet corn, peaches, blueberries, and cucumbers, to romaine and other lettuces, our farmers grow them all. These crops are available at farmers markets, supermarkets, farm stands, and CSAs. With New Jersey producing over 100 different crops,

there are varieties of specialty fruits and vegetables available in abundant supply."

New Jersey is ranked in the top 10 in production value in the United States in 11 different fruits and vegetables.

One crop New Jersey is known for is tomatoes and according to the USDA, Garden State farmers harvested more than 89 million pounds of tomatoes in 2019 for a production value of \$71.3 million.

Another popular vegetable in New Jersey is peppers, where the state's growers produced more than 100 million pounds for a production value of almost \$46 million.

New Jersey remained a top-five producer of peaches in 2019 with 39 million pounds harvested for a production value of \$26 million.

Yearlings of New Jersey Sires Lead Sales At Prestigious Auction In Kentucky

Yearlings from New Jersey sires Muscle Hill and Walner led the way at the Lexington Selected Yearling Sale in Kentucky. Muscle Hill led trotting sires with \$4.81 million in gross sales and a \$192,400 average for 25 horses sold. Walner was second in gross sales at \$2.64 million with an average of \$155,294 for 17 horses. Muscle Hill and Walner each stand at Southwind Farms in Pennington in Mercer County.

"New Jersey has a rich tradition in horse racing and our equine farms continue to make a significant positive impact on many levels," Secretary Fisher said. "A thriving horse industry establishes a broad economic infrastructure that supports many agriculture-related businesses."

The offspring of Muscle Hill and Walner each garnered their share of attention at the sale. The trotting filly Kadena, out of Walner, brought the highest price on the first day at \$725,000. That amount set the record for a highest bid on a filly yearling, breaking the previous mark of \$625,000 set in 1983. Kadena was expected to train in New Jersey this fall.

The top selling colt from Muscle Hill was Bonanza at \$600,000. Muscle Hill also sired Knights Guard, and Trunk Bay, which each sold for \$400,000, and No Ball Games, which sold for \$340,000.

Muscle Hill, recognized around the world, sired this year's



Hambletonian winner Ramona Hill. Muscle Hill was the 2009 Horse of the Year and was the Trotting World Champion as a 2-year-old and a 3-year-old. Muscle Hill also had a streak of 20 straight wins and set a single year winnings record at nearly \$2.5 million. According to the United States Trotting Association, 2-year-old foals and starters from Muscle Hill had amassed more than \$4 million in earnings through the end of 2019.





Division of PLANT INDUSTRY

Hemp Farm Visit Focuses On Growth In Initial Year

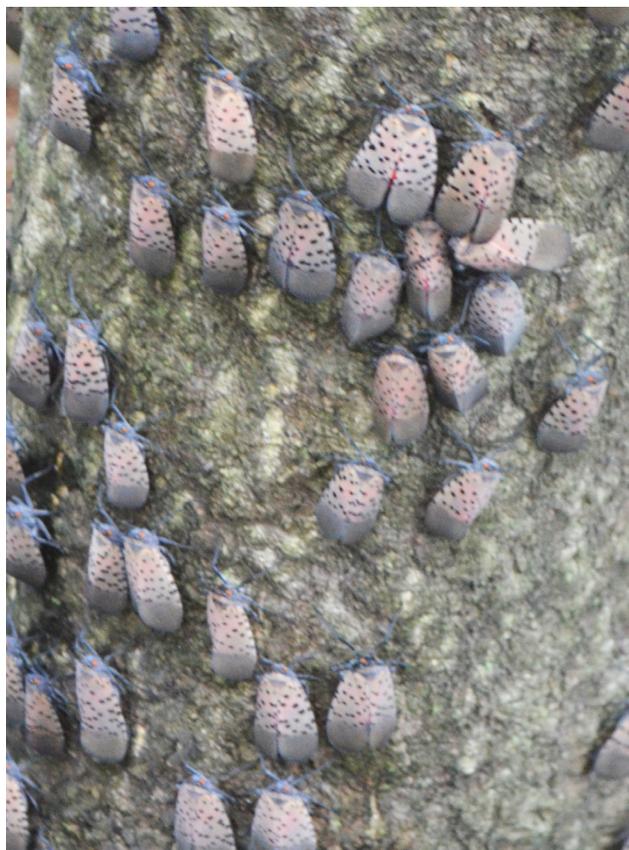
Secretary Fisher and Plant Industry Division Director Joe Zoltowski (pictured at right) visited the Kannabis Trading Co. in Atlantic County and talked with owners Cameron Dix and Ramsey Nubani to see how their hemp crop fared this year.

Kannabis Trading Co. planted 10 different varieties of hemp in 2020 under 14,000 square feet of cover. While the company is centered on CBD/CBG extraction, it is also exploring the many uses for the whole plant, which include the stalks.

New Jersey had 59 licensed hemp growers in 2020 and 13 licensed processors.

There are more than 25,000 reported uses for hemp products globally according to a 2018 Congressional Research Service report. Hemp is grown mainly for seed production (food products, culinary oils, soaps, lotions, cosmetics) and fiber production (fabrics, yarns, paper products, construction materials, etc.).

Hemp is also grown to produce cannabidiol (CBD) oil extracted from resins produced largely in its flowers. CBD is used as a health supplement with purported health benefits including pain relief, reducing inflammation, and others.



Spotted Lanternfly Treatments Continue in 2020

Plant Industry Division field crews continued to work on the Spotted Lanternfly (SLF) Program. Survey crews worked from Salem County to Warren County to identify woodlots with infestations of these insects and assess properties for treatment by USDA-contracted applicators. Initial property surveys involve finding any of the three stages of SLF.

Since the discovery of this insect in the state and the enactment of the quarantine zones, over 66,103 woodland acres on 18,032 parcels have been assessed for this insect's presence throughout the state.

There have been 178,849 trees treated with herbicide and 10,802 trees have been treated with pesticide to reduce this exotic insect.

There are eight counties in New

Jersey under quarantine for the Spotted Lanternfly. They are Warren, Hunterdon, Mercer, Burlington, Camden, Gloucester, Salem, and Somerset.

While the adult Spotted Lanternfly cannot survive the winter, it does lay egg masses that hatch in the spring. The Spotted Lanternfly has three stages after hatching. It is black with white spots in the first nymph stage, then changes to red with white spots before becoming a full adult in mid-August. It is believed the SLF needs Tree of Heaven to reproduce.

The Spotted Lanternfly, which is native to China, India, Vietnam and East Asia, was first found in the U.S. in Pennsylvania in 2014. While the Spotted Lanternfly is not a threat to humans or pets, it prefers Tree of Heaven as its host.

American Honey Queen Visits NJ During State Honey Show

Secretary Fisher was joined by 2020 American Honey Queen Mary Reisinger (pictured at right with Secretary Fisher), from Texas at the New Jersey Beekeepers Association Annual Honey Show at the Statehouse in January. She was hosted that week by 2019 American Honey Princess Nicole Medina, from New Jersey, who was the first state resident to be an American Honey Queen or Honey Princess.

The Honey Queen and Honey Princess educate the public with facts about bees, beekeeping and honey.

Topics they cover include pollination of our nation's crops and how dependent we are on the honey bee for agriculture, how honey

is a healthy substitute for sugar and how honey also extends the shelf life of baked products and adds that extra special something like taste or texture.

They do cooking demonstrations using honey in their recipes which the public will find in the brochures they hand out at promotions.

The Honey Queen and Honey Princess also speak at seniors groups, retail stores, conventions for homemakers, FHA, FFA and other functions.

They have been known to help in beekeeping demonstrations at fairs by wearing bee beards and processing honey from comb to bottle.



PABIL Laboratory Fights To Reduce Invasive Pests, Plants

The NJDA's Phillip Alampi Beneficial Insect Lab (PABIL) has an on-going biological control program against noxious weeds and crop-eating insects and remains a model for other states. The program reduces the number of applications of agricultural pesticides and herbicides on many different crops, thereby decreasing grower expenses.

In 2020, there were more than 511,500 parasitoids released at 49 sites for Mexican Bean Beetle biocontrol. These parasitoids have been highly effective at controlling bean beetles so that virtually no insecticides have been applied to the state's soybean crop in recent years. Also, treatments for bean beetle control have been reduced on snap beans and lima beans, saving growers hundreds of thousands of dollars annually and reducing insecticide applications by thousands of pounds.



An invasive plant PABIL has helped curb the growth of is the Mile-a-minute weed that can grow up to six inches per day, with mature plants reaching six feet. It can climb over, and shade out native plants at the edges of woods, along stream banks, and roadsides. There were 19,900 parasitoids released in New Jersey in 2020 with nearly 68,500 beneficials shipped to nine cooperating states under federal cooperative agreements to reduce environmental impacts caused by Mile-a-minute.

STATE AGRICULTURE DEVELOPMENT COMMITTEE



Preservation Acreage Nears 240,000 After Additions During 2020

The State Agriculture Development Committee preserved 46 more farms consisting of more than 2,700 acres in 2020. Overall, that brought the total of preserved farmland in New Jersey to 239,307 acres on 2,694 farms in 182 municipalities that have been permanently preserved under the program. In terms of number of acres preserved, Salem County continues to be the leader at 40,509 acres, followed by Hunterdon County at 34,460 and Burlington County at 28,943. Hunterdon County is the leader in the number of farms preserved with 443 followed by Salem County at 367 and Warren County at 287.

Burlington County has the most municipalities with preserved land at 21, followed by Warren County with 19 and Hunterdon County with 17. The counties with the largest av-

erage farm size that is preserved are Burlington at 123 acres, Salem at 110 acres, Sussex and Atlantic each at 106 acres, and Cumberland at 95 acres.

There are valuable incentives for landowners to participate in the Farmland Preservation Program. The program can help them meet their financial goals, provide them with the capital to expand their existing operations; eliminate or reduce their debt load; or further their estate or retirement planning.

Participants in the program are eligible to apply for cost-sharing grants to fund soil and water conservation projects.

In addition, they enjoy limited protection from government acquisition of land through eminent domain; public and private nuisances; and emergency restrictions on the use of water and energy supplies.

American Farmland Trust: NJ No. 1 In Addressing Farmland Loss

The American Farmland Trust (AFT) issued its multi-year study on farmland loss across the nation titled “Farms Under Threat: The State of the States,” concluding that New Jersey ranks first in the nation for implementing policies and programs to stem the loss of farmland. AFT is the only nation-wide nonprofit agency whose focus is exclusively on the preservation and protection of America’s farmland resources.

The study found that coordination between state and local governments is es-

sential in creating and implementing successful programs to permanently protect farmland, support agricultural viability, and provide access to farmland now and for future generations to come. New Jersey earns high scores for policy tools beyond its Farmland Preservation program, including the program’s requirement that counties and municipalities adopt comprehensive farmland preservation plans in order to receive state funding.





SADC Recommends Special Occasion Events Be Allowed For NJ Wineries

In May of this year, the SADC released its report: “Pilot Program for Winery Special Occasion Events”.

The SADC recommended the legislature allow farm based events that are not currently permitted on preserved farmland, to be conducted by owners of all preserved commercial farms, and that reasonable standards be applied to their size, frequency and impact to the farm’s resources.

Such provisions acknowledge the need to protect the public’s \$1.8 billion investment in the preservation of farmland

and ensure that preserved farmland remains primarily dedicated to agricultural production activities and not become a mere “backdrop” for nonagricultural events.

Further, the SADC recommends the legislature consider whether such agritourism related allowances should be extended to all New Jersey farms, not just preserved farms.

At the time of the report, 18 preserved farms with winery licenses were identified as potentially being affected by the pilot program.

Outreach Training Assists Local Municipalities

The SADC coordinated a two day remote course with Rutgers University, Center for Government Services (CGS), Division of Continuing Studies, to provide a workshop focused on educating municipal officials to better understand the Farmland Preservation Program, Right to Farm, and the interplay between both programs and municipal regulation. Over 100 attendees participated including



Planning/Zoning Board Members and Secretaries, Zoning Officials, Land Use Administrators, and Municipal Clerks. This program increased the understanding and support of NJ’s farmers and preserved farmland owners. Also attendees earned continuing education credits for municipal officials.






FOOD, AGRICULTURE & NATURAL RESOURCES EDUCATION

STRENGTHENING AGRICULTURE

New Jersey Food, Agriculture and Natural Resources Education programs help prepare young adults for careers in the science, business, education and technology of agriculture.

39% JOBS UNFILLED



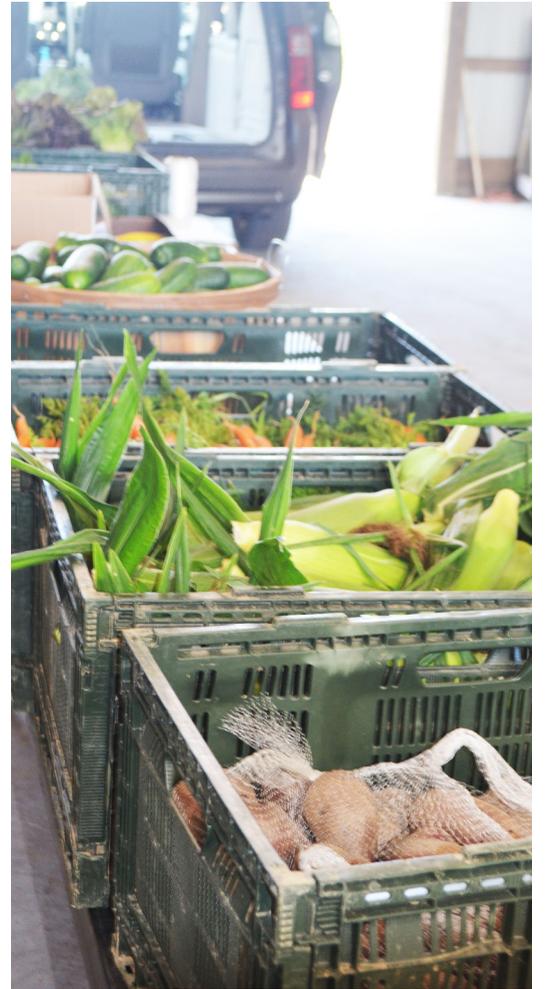
57,900 FANR Annual Job Openings

61% JOBS FILLED BY FANR GRADUATES




New Jersey is a National Top Ten Producer of Fruits and Vegetables

2019 Statistics	Produce	Rank	Production	Production Value	Acres
	eggplant	1st	15.8 million lbs.	\$6 million	800
	spinach	2nd	23 million lbs.	\$6.7 million	1,900
	tomatoes	3rd	89.3 million lbs.	\$71.5 million	3,400
	cranberries	4th	490,000 barrels	\$14.5 million	2,700
	asparagus	4th	6.4 million lbs.	\$16.3 million	2,000
	bell peppers	4th	100.5 million lbs.	\$45.9 million	3,500
	peaches	5th	39 million lbs.	\$26 million	3,900
	blueberries	5th	46 million lbs.	\$85 million	9,300
	cucumbers	6th	37.2 million lbs.	\$9.02 million	2,400
	squash	7th	29 million lbs.	\$13.7 million	3,200
	corn	10th	5 million lbs.	\$14.9 million	5,900



New Jersey Agricultural Statistics

National Agricultural Statistics Service, USDA
Hubert Hamer, Administrator

and

New Jersey Department of Agriculture
Douglas H. Fisher, Secretary

New Jersey Field Office
200 Riverview Plaza - 3rd Floor
Trenton, NJ, 08611

Bruce Eklund, State Statistician
(503) 308-0404

Email: Bruce.Eklund@nass.usda.gov
Website: www.nass.usda.gov

New Jersey: Field Crops, Weights, Measures, and Conversion Factors

Crop and Unit	Approximate Net Weight	
	lbs	kgs
Corn:		
Ear, Husked Bushel	70	31.8
Shelled Bushel	56	25.4
Hay Square Bale	40-50	18.2-22.7
Oats Bushel	32	14.5
Potatoes Sack	100	45.4
Rye Bushel	56	25.4
Soybeans Bushel	60	27.2
Sweet Potatoes Box	25	11.4
Wheat Bushel	60	27.2

New Jersey: Vegetables, Fruit, and Berries, Unit of Sale, Average Weight, and Number of Packages Used in Converting to Carlot Equivalents

Crop and Unit of Sale	Average Weight Per Unit	Package Per Carlot Equivalent	
	Pounds	Units	Cwt
Vegetables			
Asparagus Crate, 12 bunches	28	1,050	294
Beets, topped Bushel	50	700	350
Broccoli Crate, 12-14 bunches	21	900	189
Cabbage Crate or sack	50	600	300
Carrots, topped Bushel	50	1,000	500
Cauliflower Crate	50	400	200
Celery Crate, 3-4 dozen	60	600	360
Cucumber Bushel	55	700	385
Eggplant 1 1 / 9 bushel crate	33	750	248
Escarole & Endive 1 1 / 9 bushel crate	25	850	213
Lettuce, Head Crate, 24 heads	50	825	413
Onions, dry Sack	50	800	400
Peppers, Bell Bushel	28	850	238
Snap Beans Bushel	30	850	255
Spinach Bushel	25	850	213
Sweet Corn Crate, 50 ears	42	725	305
Tomatoes Carton	25	2,000	500
Fruit and Berries			
Apples Bushels or carton	42	900	378
Blueberries Flat, 12 pints	11	1,400	154
Cranberries Barrel	100	---	---
Peaches 1 / 2 bushel or carton	25	900	342

Source: Fruit and Vegetable Market News Service, AMS, US Department of Agriculture.



Rank of New Jersey Counties for Selected Items – 2017 Census

Item	1	2	3	4	5
Field Crop Harvested Acres					
Corn for grain	Salem	Warren	Hunterdon	Cumberland	Gloucester
All hay	Hunterdon	Sussex	Warren	Salem	Somerset
Soybeans for beans	Salem	Burlington	Cumberland	Gloucester	Warren
Orchard and Berry Acres					
Land in orchards	Cumberland	Gloucester	Salem	Monmouth/Mercer 1/	Hunterdon
Blueberry	Atlantic	Burlington	Camden	---	---
All berries	Atlantic	Burlington	Camden	Cumberland	Gloucester
Nurseries					
Number of nurseries	Monmouth	Hunterdon	Morris	Burlington	Cumberland
Nursery stock acreage in the open	Burlington	Hunterdon	Cumberland	Gloucester	Salem
Livestock					
Number of horses on farms	Hunterdon	Monmouth	Burlington	Sussex	Salem
Number of cattle and calves	Salem	Warren	Hunterdon	Sussex	Gloucester
Number of milk cows	Salem	Gloucester	Sussex	Warren	Mercer

--- Other counties not published to avoid disclosure of individual operations.

¹ tied in ranking

Rank of States for Selected Items – 2019

Item	1	2	3	4	5
Crop Harvested Acres					
Blueberries	Georgia	Michigan	Washington	Oregon	New Jersey
Cranberries	Wisconsin	Massachusetts	New Jersey, Oregon		
Peaches, freestone ¹	California	South Carolina	Georgia	New Jersey	Pennsylvania
Peppers, bell	California	Florida	Georgia	New Jersey	North Carolina

¹ Bearing acres.

New Jersey: Field Crops, Usual Planting and Harvesting Dates

Crop	Usual Planting Dates			Usual Harvesting Dates		
	Begin	Most Active	End	Begin	Most Active	End
Corn for grain	Apr 15	May 1 - May 20	June 15	Sep 25	Oct 10 - Nov 1	Nov 15
Corn for silage	Apr 15	May 1 - May 20	Jul 1	Aug 30	Sep 10 - Sep 30	Nov 20
Hay, alfalfa	(NA)	(NA)	(NA)	May 15	(NA)	Nov 1
Hay, other	(NA)	(NA)	(NA)	May 10	(NA)	Oct 15
Potatoes, summer ..	Apr 20	May 1 - May 20	Jun 1	Jul 10	Jul 20 - Sep 30	Oct 15
Soybeans	May 10	May 20 - Jul 1	Jul 10	Oct 1	Oct 1 - Nov 10	Nov 15
Sweet potatoes	May 10	May 20 - Jun 20	Jul 10	Sep 10	Sep 20 - Nov 10	Nov 20
Wheat, winter	Sep 30	Oct 5 - Oct 20	Nov 1	Jun 25	Jul 1 - Jul 10	Jul 15

(NA) Not available.



Field Crop Summary – New Jersey: 2019

Crop and Units	Acres Harvested	Yield per Acre	Production	Season Average Price per Unit	Value of Production	
					Total	Per Acre
			<i>1,000</i>	<i>dollars</i>	<i>\$1,000</i>	<i>dollars</i>
Corn for Grainbu	68,000	155	10,540	4.30	45,322	667
Corn for Silageton	7,000	22.0	154	(NA)	(NA)	(NA)
All Hayton	91,000	2.05	187	187	35,048	385
Alfalfa Hayton	11,000	3.2	35	224	7,840	713
Other Hayton	80,000	1.9	152	179	27,208	340
Soybeans for Beansbu	92,000	37	3,404	8.60	29,274	318
Winter Wheatbu	14,000	66	924	4.95	4,574	327

(NA) Not available.

Fruit Crop Summary – New Jersey: 2019

Crop and Units	Acres Bearing/ Harvested	Yield per Acre	Utilized Production	Season Average Price per Unit	Value of Production	
					Total	Per Acre
			<i>1,000</i>	<i>dollars</i>	<i>\$1,000</i>	<i>dollars</i>
Blueberries lbs	9,300	5,090	46,070	1.850	85,303	9,172
Cranberries barrels	2,700	196.0	490	29.60	14,496	5,369
Peaches tons	3,900	5.0	18	1,430.00	25,657	6,579

(NA) Not available.

Principal Vegetables Crop Summary – New Jersey: 2019 ¹

Crop, Estimate Date, and Unit	Acres Harvested	Yield per Acre	Production		Season Average Price per Unit	Value of Utilized Production	
			Total	Utilized		Total	Per Acre
	<i>acres</i>	<i>cwt</i>	<i>1,000 cwt</i>	<i>1,000 cwt</i>	<i>dollars/cwt</i>	<i>\$1,000</i>	<i>dollars</i>
Principal Vegetables							
AsparagusJan-Jun cwt	2,000	32.0	64.0	63.7	256.00	16,302	8,151
Cabbage ²Jan-Dec cwt	1,500	355.0	532.5	532.0	17.82	9,480	6,320
Collards ²Jan-Dec cwt	600	145.0	87.0	87.0	30.34	2,640	4,400
Cucumber ²July-Dec cwt	2,400	155.0	372.0	372.0	24.20	9,002	3,751
Eggplant ²July-Dec cwt	600	185.0	111.0	105.7	45.40	4,799	7,998
Escarole & Endive ²Jan-Dec cwt	170	175.0	30.0	30.0	32.90	987	5,806
Herbs ^{2,3}Jan-Dec cwt	1,100	80.0	88.0	88.0	47.00	4,136	3,760
Kale ²Jan-Dec cwt	600	140.0	84.0	84.0	29.30	2,461	4,102
Lettuce, All ^{2,4}Jan-Dec cwt	1,200	185.0	222.0	222.0	48.80	10,834	9,028
Parsley ²Jan-Dec cwt	700	150.0	105.0	105.0	43.90	4,610	6,586
Peppers, Bell.....July-Dec cwt	3,500	300.0	1050.0	1042.7	44.00	45,854	13,101
Pumpkins ²July-Dec cwt	1,500	90.0	135.0	131.9	47.80	6,305	4,203
Snap Beans ²Jan-Dec cwt	2,500	33.0	82.5	81.9	57.90	4,742	1,897
Spinach.....Jan-Dec cwt	1,900	120.0	228.0	228.0	29.20	6,658	3,504
Squash, SummerJuly-Dec cwt	2,300	97.0	224.0	218.6	49.60	10,851	4,718
Squash, WinterJuly-Dec cwt	900	71.0	64.0	40.0	71.40	2,855	3,172
Sweet Corn ²July-Dec cwt	5,900	85.0	501.5	494.6	30.20	14,936	2,532
Tomatoes ²July-Dec cwt	3,400	283.0	962.0	893.7	80.00	71,496	21,028
Total - 18 market crops.....	32,770	---			---	228,948	6,987

¹ Preliminary

² Not in the Federal Estimating Program, state estimates only.

³ Includes arugula, basil, chives, coriander, cress, fennel, sage, thyme, etc., excludes parsley.

⁴ Includes head lettuce, Romaine, and other lettuce.

Corn for Grain Area Planted and Harvested, Yield, Production, Price, and Value – New Jersey: 2015-2019

Year	Area planted ¹	Area harvested	Yield per acre	Production	Price per bushel ²	Value of production
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>bushels</i>	<i>1,000 bushels</i>	<i>dollars</i>	<i>1,000 dollars</i>
2015.....	80	72	147.0	10,584	3.85	40,748
2016.....	80	71	145.0	10,295	3.90	40,151
2017.....	77	70	167.0	11,690	3.75	43,838
2018.....	70	60	141.0	8,460	3.90	32,994
2019.....	77	68	155.0	10,540	4.30	45,322

¹ Area planted includes corn planted for both grain and silage.

² Marketing year average price.

Corn for Silage Area Planted and Harvested, Yield, Production, Price, and Value – New Jersey: 2015-2019

Year	Area planted ¹	Area harvested	Yield per acre	Production	Price per ton ²	Value of production
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>tons</i>	<i>1,000 tons</i>	<i>dollars</i>	<i>1,000 dollars</i>
2015.....	(NA)	7	21.0	147	(NA)	(NA)
2016.....	(NA)	5	16.0	80	(NA)	(NA)
2017.....	(NA)	6	19.5	117	(NA)	(NA)
2018.....	(NA)	6	19.0	114	(NA)	(NA)
2019.....	(NA)	7	22.0	154	(NA)	(NA)

(NA) Not available.

¹ For area planted, see corn for grain table.

² Marketing year average price.

Alfalfa Hay Area Harvested, Yield, Production, Price, and Value – New Jersey: 2015-2019

Year	Area harvested	Yield per acre	Production	Price per ton ¹	Value of production
	<i>1,000 acres</i>	<i>tons</i>	<i>1,000 tons</i>	<i>dollars</i>	<i>1,000 dollars</i>
2015.....	12	3.00	36	230.00	8,280
2016.....	12	3.15	38	231.00	8,778
2017.....	13	3.10	40	156.00	6,240
2018.....	9	3.40	31	214.00	6,634
2019.....	11	3.20	35	224.00	7,840

¹ Marketing year average price.

Other Hay Area Harvested, Yield, Production, Price, and Value – New Jersey: 2015-2019

Year	Area harvested	Yield per acre	Production	Price per ton ¹	Value of production
	<i>1,000 acres</i>	<i>tons</i>	<i>1,000 tons</i>	<i>dollars</i>	<i>1,000 dollars</i>
2015.....	90	1.60	144	136.00	19,584
2016.....	103	1.70	175	160.00	28,000
2017.....	95	2.10	200	125.00	25,000
2018.....	105	1.80	189	182.00	34,398
2019.....	80	1.90	152	179.00	27,208

¹ Marketing year average price.

All Hay Area Harvested, Yield, Production, Price, and Value – New Jersey: 2015-2019

Year	Area harvested	Yield per acre	Production	Price per ton ¹	Value of production
	<i>1,000 acres</i>	<i>tons</i>	<i>1,000 tons</i>	<i>dollars</i>	<i>1,000 dollars</i>
2015.....	102	1.76	180	155.00	27,864
2016.....	115	1.85	213	191.00	36,778
2017.....	108	2.22	240	127.00	31,240
2018.....	114	1.93	220	186.00	41,032
2019.....	91	2.05	187	187.00	35,048

¹ Marketing year average price. All hay price is based on weighted sales, not production.

Potatoes Area Planted and Harvested, Yield, Production, Price, and Value – New Jersey: 2015-2019

Year	Area planted	Area harvested	Yield per acre	Production	Price per cwt ¹	Value of production
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>cwt</i>	<i>1,000 cwt</i>	<i>dollars</i>	<i>1,000 dollars</i>
2015.....	(D)	(D)	(D)	(D)	(D)	(D)
2016.....	(D)	(D)	(D)	(D)	(D)	(D)
2017.....	2.0	2.0	300	600	(D)	(D)
2018.....	2.0	2.0	265	530	8.91	4,722
2019.....	NA	NA	NA	NA	NA	NA

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

¹ Marketing year average price.

Soybeans for Beans Area Planted and Harvested, Yield, Production, Price, and Value – New Jersey: 2015-2019

Year	Area planted	Area harvested	Yield per acre	Production	Price per bushel ¹	Value of production
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>bushels</i>	<i>1,000 bushels</i>	<i>dollars</i>	<i>1,000 dollars</i>
2015.....	105	103	32.0	3,296	8.64	28,477
2016.....	100	98	36.0	3,528	9.59	33,834
2017.....	100	99	45.0	4,455	9.30	41,432
2018.....	110	107	39.5	4,227	7.98	33,731
2019.....	95	92	37.0	3,404	8.60	29,274

¹ Marketing year average price.

Winter Wheat Area Planted and Harvested, Yield, Production, Price, and Value – New Jersey: 2015-2019

Year	Area planted	Area harvested	Yield per acre	Production	Price per bushel ¹	Value of production
	<i>1,000 acres</i>	<i>1,000 acres</i>	<i>bushels</i>	<i>1,000 bushels</i>	<i>dollars</i>	<i>1,000 dollars</i>
2015.....	27	20	50.0	1,000	4.70	4,700
2016.....	25	21	64.0	1,344	4.15	5,578
2017.....	23	17	64.0	1,088	4.60	5,005
2018.....	18	15	62.0	930	4.90	4,557
2019.....	19	14	66.0	924	4.95	4,574

¹ Marketing year average price.



Soybean Acreage, Yield, and Production, by County and District – New Jersey: 2018-2019

County and District	Planted		Harvested		Yield		Production	
	2018	2019	2018	2019	2018	2019	2018	2019
	<i>acres</i>	<i>acres</i>	<i>acres</i>	<i>acres</i>	<i>bushels</i>	<i>bushels</i>	<i>bushels</i>	<i>bushels</i>
Hunterdon	6,100	6,600	5,900	6,500	46.4	45.4	274,000	295,000
Sussex	(¹)	1,100	(¹)	1,000	(¹)	35.0	(¹)	35,000
Warren	11,100	8,700	10,600	8,500	48.6	52.6	515,000	447,000
Other counties	4,800	2,800	4,500	2,600	40.2	31.5	181,000	82,000
North, Total	22,000	19,200	21,000	18,600	46.2	46.2	970,000	859,000
Burlington	23,000	19,600	22,600	19,100	40.1	35.3	906,000	675,000
Monmouth	5,200	4,700	5,100	4,600	38.0	36.7	194,000	169,000
Other counties	8,400	7,700	8,200	7,300	37.0	33.0	303,000	241,000
Central, Total	36,600	32,000	35,900	31,000	39.1	35.0	1,403,000	1,085,000
Cumberland	12,400	11,900	12,100	11,400	39.7	34.0	480,000	388,000
Gloucester	(¹)	7,800	(¹)	7,550	(¹)	27.8	(¹)	210,000
Salem	28,700	23,400	28,000	22,800	36.8	36.8	1,031,000	839,000
Other counties	10,300	700	10,000	650	34.3	35.4	343,000	23,000
South, Total	51,400	43,800	50,100	42,400	37.0	34.4	1,854,000	1,460,000
New Jersey Total	110,000	95,000	107,000	92,000	39.5	37.0	4,227,000	3,404,000

- Represents zero.

¹ Represents zero or is included in Other counties.

² Represents zero or is included in Other districts.



Floriculture: Selected Crops and State Totals — New Jersey: 2018

Growers with Gross Value of Sales	Number of Growers	Covered Area	Expanded Wholesale Value of Sales ¹
	2018	2018	2018
		<i>1,000 square feet</i>	<i>\$1,000</i>
\$100,000 and over	129	16,254	221,597
\$10,000 - \$99,999.....	174	2,084	8,372
Total	303	18,338	229,969

¹ Wholesale value of sales as reported by growers with \$100,000 or more in sales of floriculture crops plus a calculated wholesale value of sales for growers with sales below \$100,000. The value of sales for growers below the \$100,000 level was estimated by multiplying the number of growers in each size group by the mid-point of each dollar value range.

Growing Area: By Type of Cover — New Jersey: 2018

Type of Cover	All Operations with \$10,000+ Sales	All Operations with \$100,000+ Sales
	2018	2018
	<i>1,000 square feet</i>	<i>1,000 square feet</i>
Total Greenhouse Cover	18,111	16,075
Glass Greenhouses.....	4,350	4,113
Fiberglass and Other Rigid Greenhouses.....	548	400
Film Plastic Greenhouse.....	13,213	11,562
Shade and Temporary Cover	227	179
Total Covered Area	18,338	16,254

Floriculture: Selected Crops and State Totals — New Jersey: 2018

Plant Type and Units for Quantity Sold	Operations with \$100,000+ Sales		
	Growers	Quantity Sold	Wholesale Value 1,000 square feet
	2018	2018	2018
	<i>number</i>	<i>1,000 units</i>	<i>\$1,000</i>
Bedding/Garden Plants, Total ²			120,749
Annuals			71,187
Hanging Baskets, Geraniums(Cuttings)	56	606	4,769
Hanging Baskets, Impatiens (Other).....	25	49	620
Hanging Baskets, New Guinea Impatiens	53	177	1,920
Hanging Baskets, Petunias	55	482	2,709
Impatiens (Other).....	57	217	2,033
Petunias	67	267	2,793
Marigolds.....	70	191	2,019
Geraniums (Cuttings)	74	2,074	4,652
New Guinea Impatiens	70	1,449	2,716
Pansies/Violas	40	1,356	2,302
Potted Herbaceous Perennials			49,562
Hardy/Garden Chrysanthemums	66	4,342	13,433
Hostas	43	720	2,897
Other Potted Herbaceous Perennials	48	6,047	31,618
Flowering Plants, For Indoor Patio Use, Total			50,723
Lilies, Easter.....	22	252	1,324
Poinsettias.....	43	1,319	7,697
Foliage for Indoor or Patio Use, Total			12,996
Hanging Baskets, Foliage.....	(D)	(D)	(D)
Potted Foliage.....	(D)	(D)	(D)

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

¹ Equivalent wholesale value of all sales.

² Includes annual bedding plants and herbaceous perennials.

**Blueberry Acreage, Yield, Production, Price, and Value – New Jersey: 2015-2019
(Cultivated Blueberries)**

Year	Area harvested	Yield per acre ¹	Production		Price per pound ²	Value of utilized production
			Total	Utilized		
	<i>acres</i>	<i>pounds</i>	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>dollars</i>	<i>1,000 dollars</i>
2015	9,700	5,050	49,080	49,030	1.370	67,064
2016	9,300	4,730	44,120	43,990	1.350	59,390
2017	9,300	4,380	41,180	40,770	1.910	77,882
2018	9,000	4,940	44,500	44,010	1.420	62,441
2019	9,300	5,090	47,300	46,070	1.850	85,303

- Represents zero.

¹ Yield is based on utilized production.

² Marketing year average price.

Blueberry Production, Price, and Value, by Utilization – New Jersey: 2015-2019

Year	Fresh			Processed		
	Quantity	Price per pound ¹	Value of production	Quantity	Price per pound ¹	Value of production
	<i>1,000 pounds</i>	<i>dollars</i>	<i>1,000 dollars</i>	<i>1,000 pounds</i>	<i>dollars</i>	<i>1,000 dollars</i>
2015	42,100	1.430	60,203	6,930	0.990	6,861
2016	37,400	1.410	52,734	6,590	1.010	6,656
2017	36,250	2.040	73,950	4,520	0.870	3,932
2018	35,960	1.620	58,255	8,050	0.520	4,186
2019	38,030	2.150	81,765	8,040	0.440	3,538

¹ Marketing year average price.



Cranberry Acreage, Yield, Production, Price, and Value – New Jersey: 2015-2019

Year	Area harvested	Yield per acre ¹	Production		Price per barrel ²	Value of utilized production
			Total	Utilized		
	<i>acres</i>	<i>barrels</i>	<i>barrels</i>	<i>barrels</i>	<i>dollars</i>	<i>1,000 dollars</i>
2015.....	3,000	189.7	595,000	569,000	37.70	21,445
2016.....	3,100	208.4	653,000	646,000	43.10	27,835
2017.....	2,700	174.8	473,300	471,900	36.60	17,254
2018.....	3,100	165.3	512,000	508,420	29.30	14,886
2019.....	2,700	196.0	529,000	490,390	29.60	14,496

- Represents zero.

¹ Yield is based on utilized production.

² Marketing year average price.

Peach Acreage, Yield, Production, Price, and Value – New Jersey: 2015-2019

Year	Bearing acreage	Yield per acre ¹	Production		Price per ton ³	Value of utilized production
			Total	Utilized ²		
	<i>acres</i>	<i>tons</i>	<i>tons</i>	<i>tons</i>	<i>dollars</i>	<i>1,000 dollars</i>
2015.....	4,500	4.50	20,270	20,200	1,310.00	26,406
2016.....	4,300	4.30	18,470	18,400	1,430.00	26,244
2017.....	4,100	6.00	24,580	24,570	1,560.00	38,318
2018.....	4,100	5.60	23,000	23,000	1,780.00	41,048
2019.....	3,900	5.00	19,500	17,980	1,430.00	25,657

¹ Yield is based on total production.

² Excludes mature fruit not harvested.

³ Marketing year average price.

New Jersey: Fruits and Berries, Usual Full Bloom and Harvesting Dates

Crop	Usual Planting Dates			Usual Harvesting Dates		
	Begin	Most Active	End	Begin	Most Active	End
Apples	Apr 12	(NA)	Apr 20	Jul 15	Sep 1 - Oct 25	Oct 31
Blueberries	Apr 15	(NA)	May 15	Jun 15	Jun 27 - Jul 11	Aug 15
Cranberries	Jun 1	(NA)	Jul 15	Sep 10	Oct 5 - Nov 5	Nov 18
Grapes	May 20	(NA)	Jun 10	Aug 20	Sep 10 - Sep 20	Oct 10
Peaches	Apr 7	(NA)	Apr 15	Jul 5	Jul 20 - Aug 31	Sep 15
Strawberries	May 1	(NA)	May 10	May 20	Jun 1 - Jun 31	Jul 10

(NA) Not available.



Cattle and Calves Number on Farms, January 1, Inventory Value and Value per Head – New Jersey: 2016-2020

Year	Cows and Heifers that have calved		Heifers 500 lbs. and over			Bulls	Steers	Calves	All Cattle and Calves		
	Kept for milk	Kept for beef	For milk replacement	For beef replacement	Other heifers	500 lbs. and over	500 lbs. and over	500 lbs. and less	Number	Value per head	Total value
	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>dollars</i>	<i>1,000 dol.</i>
2016	7.0	7.5	3.8	1.3	0.9	1.0	2.0	4.5	28.0	1,380	38,640
2017	6.0	8.0	3.7	1.6	1.2	1.0	2.1	4.4	28.0	1,140	31,920
2018	6.0	9.0	3.2	2.1	1.2	1.0	2.1	4.4	29.0	1,160	33,640
2019	5.5	9.5	3.3	2.5	0.7	1.0	2.5	5.0	30.0	1,100	33,000

Cattle and Calves Inventory, Supply, and Disposition – New Jersey: 2015-2019

Year	Beginning inventory January 1	Calf crop	Inshipments	Marketings ¹		Farm slaughter ²	Deaths		Ending inventory following January 1
				Cattle	Calves		Cattle	Calves	
	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>
2015	28.0	10.0	0.9	4.6	5.1	-	0.6	0.6	28.0
2016	28.0	9.5	1.2	4.6	5.0	0.1	0.5	0.5	28.0
2017	28.0	9.5	1.2	3.6	5.0	0.2	0.4	0.5	29.0
2018	29.0	10.0	1.2	3.7	5.1	0.4	0.5	0.5	30.0
2019	30.0	10.0	1.4	7.0	5.1	0.4	0.4	0.5	28.0

- Represents zero.

¹ Includes custom slaughter for use on farms where produced and State outshipments, but excludes interfarm sales within the State.

² Excludes custom slaughter for farmers at commercial establishments.

All Cattle and Calves Production and Income – New Jersey: 2015-2019

Year	Production ¹	Marketings ²	Value of Production	Cash Receipts ³	Value of Home Consumption	Gross Income
	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>
2015	6,936	6,701	11,893	11,548	877	12,425
2016	6,071	6,162	7,436	7,539	969	8,508
2017	6,108	5,120	7,215	6,233	947	7,180
2018	5,916	4,820	6,946	5,823	1,658	7,481
2019	7,334	8,560	8,080	9,330	1,654	10,984

¹ Adjustments made for changes in inventory and inshipments.

² Excludes custom slaughter for use on farms where produced and interfarm sales within the State.

³ Receipts from marketings and sale of farm slaughter.



Cattle Number on Farms, January 1, by County – New Jersey: 2019-2020

County and District	All Cattle and Calves		Milk Cows	
	2019	2020	2019	2020
	<i>head</i>	<i>head</i>	<i>head</i>	<i>head</i>
North Counties				
Bergen	(¹)	(D)	(¹)	(¹)
Essex.....	(D)	(D)	(¹)	(¹)
Hudson	(D)	(D)	(¹)	(¹)
Hunterdon.....	4,300	4,000	300	300
Morris.....	600	600	(D)	(D)
Passaic	(¹)	(D)	(¹)	(¹)
Somerset.....	1,700	1,600	(D)	(D)
Sussex.....	4,300	4,000	1,000	800
Union.....	(D)	(D)	(¹)	(¹)
Warren.....	4,300	4,100	800	700
Central Counties				
Burlington.....	1,300	1,200	(D)	(D)
Mercer	900	800	400	300
Middlesex.....	(D)	(D)	(¹)	(¹)
Monmouth	500	500	(D)	(D)
Ocean.....	900	800	100	100
South Counties				
Atlantic	(D)	(D)	(¹)	(¹)
Camden.....	(D)	(D)	(¹)	(¹)
Cape May	(D)	(D)	(¹)	(¹)
Cumberland	1,300	1,200	300	200
Gloucester.....	3,200	2,900	1,000	900
Salem.....	6,300	5,900	1,400	1,200
All Other Counties.....	400	400	200	200
New Jersey Total	30,000	28,000	5,500	4,700

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

¹ Represents zero or is included in All Other Counties.

Cattle Commercial Slaughter, by Month – New Jersey: 2018-2019 ¹

Month	2018			2019		
	Number Head	Average Live Weight	Total Live Weight	Number Head	Average Live Weight	Total Live Weight
	<i>1,000</i>	<i>pounds</i>	<i>1,000 pounds</i>	<i>1,000</i>	<i>pounds</i>	<i>1,000 pounds</i>
January	3.5	1,117	3,916	3.6	1,118	4,065
February	3.1	1,097	3,368	3.4	1,106	3,707
March	2.8	1,109	3,081	3.1	1,099	3,383
April	3.2	1,112	3,488	3.3	1,114	3,631
May.....	3.3	1,116	3,669	3.7	1,113	4,061
June.....	3.9	1,121	4,358	4.3	1,112	4,720
July	3.6	1,112	3,956	3.3	1,107	3,607
August	3.4	1,104	3,766	3.6	1,098	3,912
September.....	3.3	1,084	3,605	3.4	1,115	3,735
October	2.9	1,106	3,194	3.3	1,114	3,673
November.....	3.5	1,114	3,900	3.7	1,135	4,172
December	3.4	1,112	3,779	3.4	1,130	3,871
Total²	39.9	1,109	44,079	41.9	1,114	46,537

¹ Includes slaughter in federally inspected and other slaughter plants, but excludes animals slaughtered on farms.

² May not add due to rounding.

Hogs and Pigs Inventory by Class, December 1 – New Jersey: 2015-2019

Year	Breeding	Market	Weight Group				Sows farrowing ¹	Pigs per litter ¹	Pig crop ¹
			Under 50 pounds	50-119 pounds	120-179 pounds	180 pounds and over			
	<i>1,000 head</i>	<i>1,000 head</i>	<i>number</i>	<i>1,000 head</i>					
2015	1.5	6.5	2.2	2.5	0.6	1.2	0.8	7.13	5.7
2016	1.5	6.5	1.4	1.6	1.9	1.6	1.0	6.10	6.1
2017	1.5	7.0	1.8	2.1	1.3	1.8	1.0	7.80	7.8
2018	1.0	7.5	2.0	2.1	1.6	1.8	0.8	6.25	5.0
2019	1.0	6.5	1.3	1.9	1.5	1.8	0.8	7.00	5.6

¹ Marketing year.

Hogs and Pigs Inventory, Supply, and Disposition – New Jersey: 2015-2019

Year	Beginning inventory Dec. 1 preceding	Pig crop	Inshipments	Marketings ¹	Farm slaughter ²	Deaths	Ending inventory Dec. 1
	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>	<i>1,000 head</i>
2015	8.0	5.7	10.0	13.8	0.5	1.4	8.0
2016	8.0	6.1	9.0	14.1	0.4	0.6	8.0
2017	8.0	7.8	9.0	15.2	0.1	1.0	8.5
2018	8.5	5.0	8.5	12.7	0.1	0.7	8.5
2019	8.5	5.6	7.5	13.4	0.1	0.6	7.5

¹ Includes custom slaughter for use on farms where produced and State outshipments, but excludes interfarm sales within the State.

² Excludes custom slaughter for farmers at commercial establishments.

Hogs and Pigs Production, Marketings, and Income – New Jersey: 2015-2019

(Dollar values based on data received from United States Department of Agriculture's Agricultural Marketing Service.)

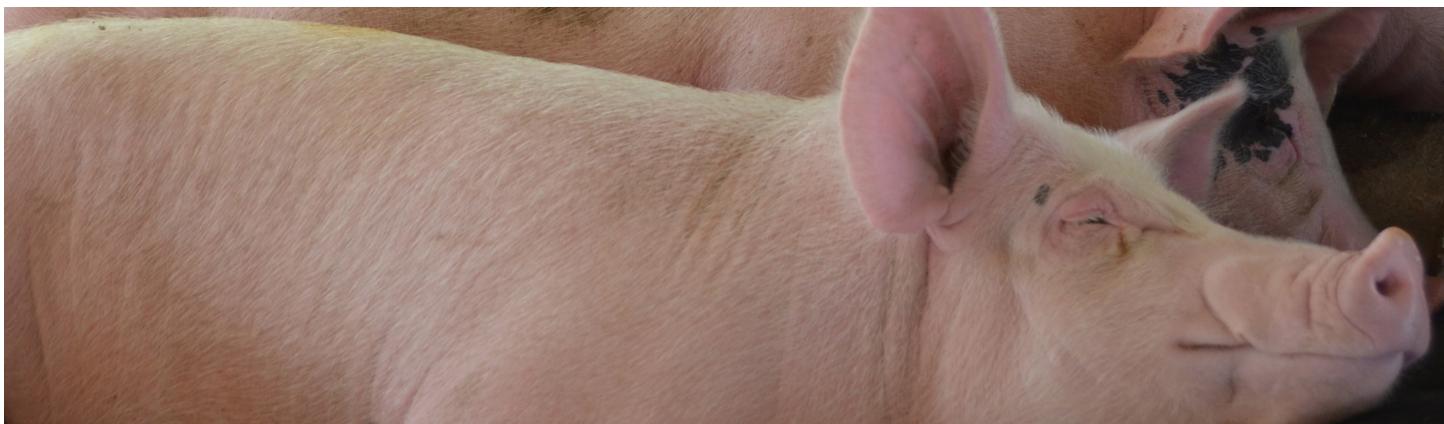
Year	Production ¹	Marketings ²	Value of production ³	Cash receipts ^{3 4}	Value of home consumption	Gross income
	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>
2015	1,208	1,249	383	699	140	839
2016	1,291	1,239	344	632	156	788
2017	1,086	1,410	268	768	46	814
2018	836	1,204	89	616	76	692
2019	1,027	1,209	229	618	125	743

¹ Adjustments made for changes in inventory and for inshipments.

² Excludes custom slaughter for use on farms where produced and interfarm sales within the State.

³ Includes allowance for higher average price of State inshipments and outshipments of feeder pigs.

⁴ Receipts from marketings and sale of farm slaughter.



**Honey Number of Colonies, Yield, Production, Stocks, Price, and Value – New Jersey: 2015-2019
(Producers with 5 or more colonies.)**

Year	Honey producing colonies ¹	Yield per colony	Production	Stocks on December 15 ²	Average price per pound ³	Value of production ⁴
	<i>1,000</i>	<i>pounds</i>	<i>1,000 pounds</i>	<i>1,000 pounds</i>	<i>cents</i>	<i>1,000 dollars</i>
2015.....	12	27	324	207	420	1,361
2016.....	12	27	324	198	709	2,297
2017.....	13	28	364	167	874	3,181
2018.....	13	31	403	165	747	3,010
2019.....	15	28	420	155	333	1,399

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 that 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.



Milk Cows and Production, by Quarter – New Jersey: 2018-2019

Quarter	Milk cows ¹		Milk per cow ²		Milk production ²	
	2018	2019	2018	2019	2018	2019
	<i>1,000 head</i>	<i>1,000 head</i>	<i>pounds</i>	<i>pounds</i>	<i>million pounds</i>	<i>million pounds</i>
Jan - Mar	6.0	5.0	5,000	5,200	30.0	26.0
Apr - Jun	6.0	4.8	4,833	5,417	29.0	26.0
Jul - Sep	5.5	4.8	4,727	5,000	26.0	24.0
Oct - Dec.....	5.5	4.7	4,545	5,106	25.0	24.0
Annual Total	6.0	5.0	18,333	20,000	110.0	100.0

¹ Includes dry cows. Excludes heifers not yet fresh.

² Excludes milk sucked by calves.

Milk Production, Disposition, and Income – New Jersey: 2015-2019

Year	Milk Cows ¹	Milk per Cow	Total Milk Production	Disposition of Milk Produced			Prices Received ²	Gross Income ³	Value of Milk Produced ⁴
				Fed to Calves	Used for Milk, Cream and Butter	Sold			
	<i>1,000 head</i>	<i>pounds</i>	<i>million pounds</i>	<i>million pounds</i>	<i>million pounds</i>	<i>million pounds</i>	<i>dollars</i>	<i>1,000 dollars</i>	<i>1,000 dollars</i>
2015	7.0	18,286	128.0	1.5	0.5	126.0	17.60	22,264	22,528
2016	7.0	17,429	122.0	1.5	0.5	120.0	16.40	19,762	20,008
2017	6.0	19,833	119.0	1.5	0.5	117.0	18.30	21,503	21,777
2018	6.0	18,333	110.0	1.5	0.5	108.0	16.20	17,577	17,820
2019	5.0	20,000	100.0	1.5	0.5	98.0	18.30	18,026	18,300

¹ Average number on farms during the year.

² Prices received for all milk sold wholesale per cwt.

³ Includes value of milk used for home consumption.

⁴ Includes value of milk fed to calves.



Number of Farms, Land in Farms, and Average Farm Size – New Jersey and United States: 2015-2019
(Places with annual sales of agricultural products of \$1,000 or more.)

Year	New Jersey			United States		
	Number of farms	Land in farms	Average farm size	Number of farms	Land in farms	Average farm size
	<i>number</i>	<i>1,000 acres</i>	<i>acres</i>	<i>number</i>	<i>1,000 acres</i>	<i>acres</i>
2015.....	9,600	730	76	2,063,890	905,790	439
2016.....	9,700	730	75	2,055,340	902,680	439
2017.....	9,900	730	74	2,042,000	900,370	441
2018.....	9,900	750	76	2,029,200	899,500	443
2019.....	9,900	750	76	2,023,400	897,400	444

Number of Farms and Land in Farms, by Sales Class – New Jersey: 2015-2019

Economic Sales Class	2015	2016	2017	2018	2019
	<i>farms</i>	<i>farms</i>	<i>farms</i>	<i>farms</i>	<i>farms</i>
Number of Farms					
\$1,000 - \$9,999.....	6,100	6,200	6,400	6,400	6,400
\$10,000 - \$99,999.....	2,350	2,350	2,350	2,350	2,350
\$100,000 - \$249,999.....	450	450	450	450	450
\$250,000 - \$499,999.....	280	280	280	280	280
\$500,000 and over.....	(NA)	(NA)	420	420	420
\$500,000 - \$999,999.....	200	200	200	200	200
\$1,000,000 and over.....	220	220	220	220	220
Total.....	9,600	9,700	9,900	9,900	9,900
	<i>acres</i>	<i>acres</i>	<i>acres</i>	<i>acres</i>	<i>acres</i>
Land in Farms					
\$1,000 - \$9,999.....	160,000	160,000	160,000	160,000	160,000
\$10,000 - \$99,999.....	160,000	160,000	160,000	170,000	170,000
\$100,000 - \$249,999.....	90,000	90,000	100,000	110,000	110,000
\$250,000 - \$499,999.....	90,000	90,000	80,000	80,000	80,000
\$500,000 and over.....	(NA)	(NA)	230,000	230,000	230,000
\$500,000 - \$999,999.....	90,000	90,000	90,000	90,000	90,000
\$1,000,000 and over.....	140,000	140,000	140,000	140,000	140,000
Total.....	730,000	730,000	730,000	750,000	750,000

(NA) Not available.



