

STATE OF NEVADA
DEPARTMENT OF
AGRICULTURE



2019 BIENNIAL REPORT

ABOUT THE DEPARTMENT

The Nevada Department of Agriculture (NDA) promotes a business climate that is fair, economically viable and encourages environmental stewardship that serves to protect food, fiber and human health and safety through effective service and education. The NDA was established in 1915 by Chapter 561 of the Nevada Revised Statutes. The state department of agriculture as it exists today was created in 1961.

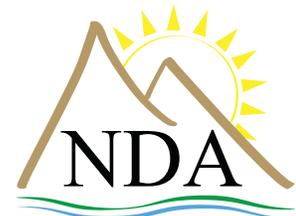
Headquartered in Sparks, Nevada, the NDA also has offices in Las Vegas and Elko. It includes the divisions of Administration, Animal Industry, Consumer Equitability, Food and Nutrition and Plant Industry. The bulk of the NDA's funding comes from fees, grants and federal programs.

AGENCY HISTORY

The State Board of Agriculture was created by the 1885 Nevada Legislature. Chapter 268 of the Nevada Revised Statutes (later changed to NRS 561) established the State Board of Stock Commissioners in 1915, consisting of three members, all experienced stockmen, appointed by the governor. The board had control of all matters pertaining to the cattle, horse and hog industries. Sheep were regulated by the State Board of Sheep Commissioners.

BOARD OF AGRICULTURE

Appointed by the governor, the current Board of Agriculture is comprised of 11 community leaders who establish NDA policy and verify laws and programs administered by the department are carried out. The board reports to the governor or the Nevada legislature on all matters related to state agriculture and the NDA.



Nevada Department
of Agriculture

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CONNECT ON SOCIAL

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INTRODUCTION

CONTACT



Jerri Conrad

- ▶ Interim Director
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Since the last biennial report, I'm happy to report the staff of the Nevada Department of Agriculture (NDA) have continued to protect, promote and support our growing food and agriculture industry through our many services, including increasing availability of online registrations, continued collaboration, responsive communication and processes.

These services are vital in a growing industry. Nevada's agriculture production value is up 9 percent from \$704 million in 2016 to \$767 million in 2017. This is a significant increase when compared to the 5 percent increase in the value of United States agriculture production for the same period. The main three commodities contributing to this growth were beef cattle, milk and dairy products, and feed crops like hay. In addition, our staff are supporting emerging areas like hemp production, indoor agriculture and school gardens.

Our staff provides service to every citizen in Nevada. Of our five divisions, all Nevadans fit into one or more of our service areas. Here are a few examples:

- **Administration Division:** Members of our staff teach students and community members about the importance of agriculture in Nevada through agricultural education events around the state.
- **Animal Industry Division:** Our Animal Disease Laboratory staff work to protect us by monitoring for zoonotic diseases that can be transmitted between animals and humans.
- **Consumer Equitability Division:** You can gas up your car with confidence because Weights and Measures, Petroleum Technology and Metrology Laboratory staff inspect and test to ensure you get the quantity and quality of gas you pay for.
- **Food and Nutrition Division:** The child nutrition staff provide training, technical assistance and audits, so you can send your kids to school for breakfast and lunch knowing they will receive nutritious meals.
- **Plant Industry Division:** Walk through your neighborhood with peace of mind thanks to staff who educate on the use of integrated pest management techniques. Pesticides are highly regulated, so if they are used, our staff license and inspect to ensure proper and safe pesticide application.

Our focus has always been protecting and promoting agriculture, food and public health and safety, and the NDA staff work hard to fulfill that mission. I hope you find this report of our staff's accomplishments during the last two years informative, and I welcome you to contact me with any questions or feedback.

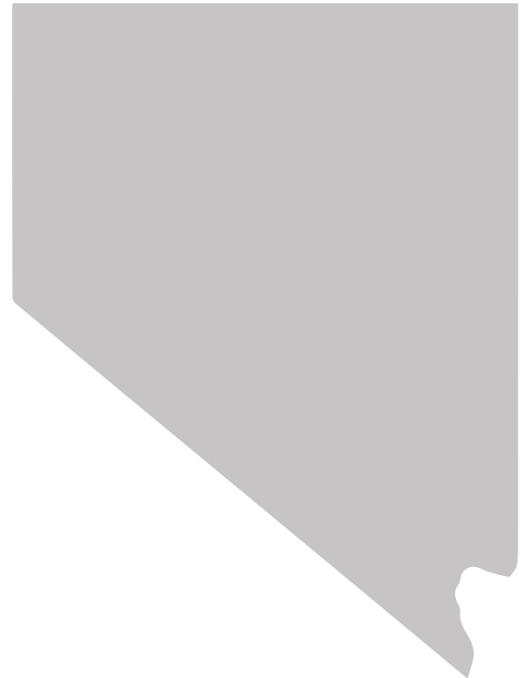
Sincerely,

A handwritten signature in black ink, appearing to read 'Jerri Conrad', with a decorative flourish extending to the right.

Jerri Conrad
NDA Interim Director

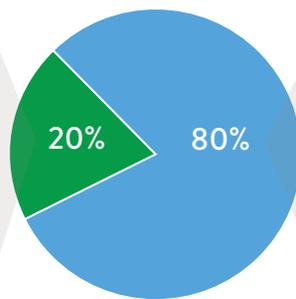
FOOD & AGRICULTURE AT A GLANCE

- Nevada's food & agriculture sector contributed \$1.3 billion to the state's economy in 2017.
- Nevada's food & agriculture sector accounts for 16,344 jobs.
- The economic output multiplier was 1.7; meaning that for every \$1 invested in the agriculture sector, an additional \$0.70 in economic activity was stimulated in other industries in Nevada.



NEVADA FARM FACTS

- **\$916 million:** Agriculture production output
- **4,000** farms covering **6 million** acres
- Top 3 agriculture industries:
 - **beef cattle ranching and farming**
 - **all other crop farming**
 - **animal production**



NEVADA FOOD FACTS

- **\$3.6 billion:** Total food manufacturing output
- Top 3 food manufacturing industries:
 - **bread and bakery product**
 - **bottled and canned soft drinks and water**
 - **soybean and other oilseed processing**

NEVADA SECTOR IN THE GLOBAL MARKET

\$3.8 billion: Total exports

Top export commodities:

- **beef cattle**
- **ice cream and frozen dessert**
- **all other crops**

Top export markets:

- **Canada**
- **China**
- **Mexico**

ADMINISTRATION

RELEVANT REGULATIONS

- NAC ▶ 561
- NRS ▶ 561

NUMBER OF EMPLOYEES

23 full-time

CONTACT



Jerri Conrad

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The NDA's Administration division provides oversight to all divisions, programs and activities within the department. This division funds the Nevada Board of Agriculture and provides centralized support services to each division including communications and promotions support, fiscal services, facility maintenance, information technology services and personnel support.

The **COMMUNICATIONS AND PROMOTIONS** team serves all divisions and industry through agricultural literacy, communication and research services, global trade and economic development and food and agriculture promotion with the Buy Nevada program.

FY2018: 38

FY2017: 30

- ▶ Agricultural literacy events: career expos, community events & elementary agriculture days



- ▶ Elementary school teachers exploring egg anatomy at an Agriculture in the Classroom workshop.

FISCAL services team assists all divisions with fiscal matters including accounts payable and receivable, contracts, grant management and budget preparation and tracking.

- ▶ In 2018, the Grants Analyst II position was added to the fiscal team specifically to assist all divisions in the application, budgeting, monitoring, reporting and compliance of their program grants.

INFORMATION TECHNOLOGY services provide technical assistance and IT expertise to all divisions, helping to ensure employees have the resources necessary to complete their jobs and serve constituents efficiently and effectively.

- ▶ IT upgrades made in the last biennium
 - ✓ Upgraded bandwidth in Sparks and Elko offices for faster internet.
 - ✓ Upgraded Elko telephone system.
 - ✓ Implemented live streaming for video conferencing.
 - ✓ Continued to implement online services for registrations and licensing .

ADMINISTRATION

	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021
OUTCOME	N/A	Actual	Actual	Projected	Projected	Projected	
Percentage favorable employee responses employees on internal admin services		90.00%	70.00%	80.00%	90.00%	95.00%	
Number of agree/strongly agree responses		180	140	160	180	190	
Total number of surveyed employees		200	200	200	200	200	
OUTCOME	Actual	Actual	Actual	Projected	Projected	Projected	Projected
Percentage increase in annual export sales	0.99%	0.89%	0.66%	0.66%	0.66%	0.66%	0.65%
Annual increase in export sales	89,863	90,762	91,669	92,586	93,512	93,512	93,512
Prior year export sales	9,073,163	10,243,000	13,812,000	13,950,120	14,089,621	14,230,517	14,373,822
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage increase Buy Nevada Facebook engagements	9.85%	9.99%	-48.36%	120.72%	9.99%	10.00%	10.00%
Increase in Facebook engagements	3,583	3,996	-21,265	27,397	5,009	5,510	6,061
Prior year number of Facebook engagements	36,380	39,963	50,264	22,694	50,091	55,100	60,610
OUTCOME	Actual	Actual	Actual	Projected	Projected	Projected	Projected
Percentage increase intl. business contacts	117.61%	11.07%	3.02%	3.01%	3.00%	2.99%	2.98%
Increase of international business contacts	581	119	36	37	38	39	40
International business contacts prior year	494	1,075	1,194	1,230	1,267	1,305	1,344
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage increase of Buy Nevada members	14.39%	3.31%	-1.28%	3.85%	3.13%	3.03%	2.94%
Increase of Buy NV members	19	5	-2	6	5	5	5
Number of Buy Nevada members prior year	132	151	156	154	160	165	170
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage counties using ag. ed. training	76.47%	82.35%	76.47%	82.35%	100.00%	100.00%	100.00%
Number of participating counties	13	14	13	14	17	17	17
Total number of counties	17	17	17	17	17	17	17
OUTCOME	N/A	Actual	Actual	Actual	Projected	Projected	Projected
Percentage satisfied stakeholders with agriculture promotion outreach		80.00%	80.00%	85.00%	90.00%	95.00%	100.00%
Number of stakeholders scoring 5-7		160	80	85	90	95	100
Total number of industry stakeholders scoring		200	100	100	100	100	100
OUTCOME	N/A	N/A	Actual	Actual	Projected	Projected	Projected
Percentage increase of agriculture literacy resource and material requests			214.29%	36.36%	33.33%	25.00%	20.00%
Increase requests for resources/materials			15	8	10	10	10
Prior year resource/material requests			7	22	30	40	50
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage of students active in FFA	38.92%	30.98%	49.38%	38.20%	49.38%	50.00%	50.00%
Number of students active in FFA	908	853	1,387	1,071	1,387	1,450	1,450
Number of students enrolled in ag ed	2,333	2,753	2,809	2,801	2,809	2,900	2,900
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Number of public events attended to expand agricultural literacy	10	20	31	38	31	40	45

ANIMAL INDUSTRY



RELEVANT REGULATIONS

NAC	NRS
▶ 441A.410-445	▶ 561.035
▶ 561	▶ 569
▶ 565	▶ 571
▶ 566	▶ 574
▶ 567.010-.090	▶ 576.129-131
▶ 569	▶ 577
▶ 571	▶ 587
▶ 573	
▶ 575	
▶ 576	
▶ 587	

NUMBER OF EMPLOYEES

22 full-time
1 part-time
61 contracted part-time brand inspectors

CONTACT



Doug Farris
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LAB SERVICES

The **Animal Disease Laboratory** offers the following testing services to industry, government agencies and the public:

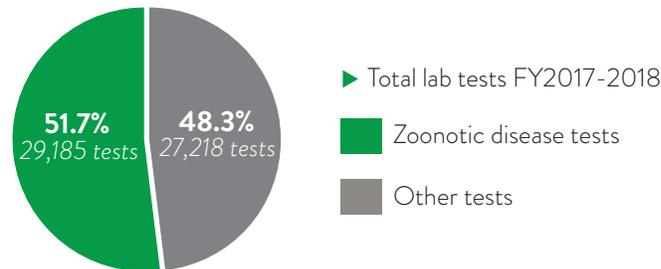
- ▶ Bacterial culture
- ▶ Baermann (lungworms)
- ▶ Bovigam (bovine tuberculosis)
- ▶ Brucellosis serology
- ▶ Equine Infectious Anemia
- ▶ Necropsies
- ▶ Parasitology
- ▶ Rabies
- ▶ Trichomoniasis
- ▶ West Nile Virus

The NDA's Animal Industry division is responsible for animal disease detection and prevention, livestock identification, ownership and livestock theft prevention, natural resources protection and predator control to protect public safety and agricultural resources. The division also oversees the state's animal import requirements and the Predatory Animal and Rodent Committee (PARC).



- ▶ Any vehicles transporting livestock within the state are subject to random stops and inspections by agriculture enforcement officers.

The **ANIMAL DISEASE LABORATORY** protects human health through its monitoring of zoonotic diseases like rabies and West Nile Virus that can be transmitted from animals to humans.



The **LIVESTOCK IDENTIFICATION** program protects livestock producers through brand recording and inspections.

- ▶ More than **12,662 inspections** of **365,742 animals** were completed using the department's electronic program in FY2017.
- ▶ **3,446 applications** for the collection of livestock Head Tax were completed via the department's new online electronic system, accounting for **527,251 head of livestock** residing in Nevada in FY2017.

The **WILDLIFE SERVICES** program protects Nevada's agriculture, natural resources, property and public safety from the threat of injury, damage or economic loss due to predatory animals, rodents or other wildlife.

- ▶ This program managed **7,527 predatory animals** in state FY2017, including coyotes, mountain lions and ravens.

ANIMAL INDUSTRY

	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage successfully completed brand inspections	98.00%	99.52%	96.00%	96.00%	97.00%	97.00%	97.00%
Number brand inspections performed without error	10,143	10,350	12,167	14,008	15,050	15,833	16,617
Total number brand inspections	10,350	10,400	12,674	14,592	15,515	16,323	17,131
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage random livestock inspections in compliance	95.09%	93.64%	93.09%	94.34%	95.00%	96.01%	95.99%
Number sites that passed random inspection	523	515	256	600	627	697	766
Total number random inspections performed	550	550	275	636	660	726	798
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage animal transport health certificates issued	98.00%	99.45%	99.00%	99.01%	99.01%	99.00%	99.00%
Number animal transport health certificates issued annually	9,800	9,945	8,613	8,168	8,168	8,390	8,390
Number animal transport health certificates requested annually	10,000	10,000	8,700	8,250	8,250	8,475	8,475
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage zoonotic positive tests from partnership agencies	3.00%	2.86%	4.47%	4.01%	4.00%	4.00%	4.00%
Number positive lab tests	540	515	1,298	1,097	1,080	1,080	1,080
Total number samples tested	18,000	18,000	29,057	27,346	27,000	27,000	27,000
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage tests conducted from partner agencies for zoonotic/non-zoonotic diseases	45%	44.87%	39.17%	36.25%	35.00%	35.00%	35.00%
Number of positive lab tests	8,100	8,076	11,383	9,915	9,450	9,450	9,450
Total number samples	18,000	18,000	29,057	27,346	27,000	27,000	27,000
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage paperwork in compliance for brucellosis test received from vet	97.99%	98.91%	96.74%	97.11%	99.01%	99.01%	99.01%
Number paperwork processed in compliance	1,318	1,722	1,988	1,647	1,692	1,692	1,692
Total number paperwork processed	1,345	1,741	2,055	1,696	1,709	1,709	1,709

CONSUMER EQUITABILITY

RELEVANT REGULATIONS

NAC	NRS
▶ 561	▶ 445B.830
▶ 581	▶ 561
▶ 582	▶ 581
▶ 590	▶ 582
	▶ 590

NUMBER OF EMPLOYEES

22 full-time
2 seasonal
1 contracted part-time

CONTACT



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LAB SERVICES

The **Metrology Laboratory** is recognized by the National Institute of Standards and Technology (NIST) for traceability of measurement standards to the national standards of mass and volume. The lab calibrates weights and volume test measures for NDA staff and industry.

The **Petroleum Testing Laboratory** offers the following services to industry:

- ▶ Antifreeze testing
- ▶ Fuel testing
- ▶ Oil testing

The NDA's Division of Consumer Equitability ensures quality of motor fuel and lubricants, as well as accuracy and consistency in all commercial transactions by regulating weight and volume for the protection of Nevada's citizens and industry.

The **METROLOGY** program maintains traceability of the State's primary weights and volume standards to the national standards. Metrology program staff compare and calibrate secondary and field standards to these primary standards, assuring consistency in the weights and volume standards used for commercial purposes across Nevada.



- ▶ In the last biennium, this program expanded the scope of services available in each of the program's locations (Sparks and Las Vegas), enhancing the level of service available to industry in Nevada.

The **PETROLEUM TECHNOLOGY** program ensures fuel sold at retail facilities meets regulations and acts on consumer complaints, confirming compliance with quality standards.



- ▶ Operation of laboratories in both northern and southern Nevada allows for prompt testing of fuel samples obtained in response to consumer complaints from any location in the state.

The **WEIGHTS AND MEASURES** program promotes fair trade based on accurate weight and volume of consumer goods, protecting the economic interests of Nevada consumers while also supporting an equitable marketplace for Nevada businesses.

- ▶ **84,105 commercial weighing and measuring devices** were inspected over the course of the biennium, ensuring that the devices operate accurately, are suitable for their purpose and are being properly maintained.

CONSUMER EQUITABILITY

	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage measurement devices inspected	93.51%	87.73%	87.85%	80.00%	75.00%	80.00%	90.00%
Measurement device inspections completed	36,000	34,961	36,267	34,422	32,610	35,827	41,112
Total number measurement devices	38,500	39,851	41,282	42,823	43,480	44,784	45,680
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage inspected gas stations	81.61%	77.95%	82.77%	69.38%	80.00%	80.00%	90.05%
Number of gas stations inspected	759	746	812	682	820	840	968
Total number registered gas stations	930	957	981	983	1,025	1,050	1,075
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage compliant oil, fuel and antifreeze tests	97.86%	98.30%	98.19%	97.20%	98.00%	98.00%	98.00%
Number compliant tests	3,425	3,118	3,644	3,071	3,332	3,332	3,332
Total number tests conducted	3,500	3,172	3,711	3,161	3,400	3,400	3,400

FOOD AND NUTRITION

RELEVANT REGULATIONS

NAC

- ▶ 387
- ▶ 583
- ▶ 584

NRS

- ▶ 387.070
- ▶ 387.075
- ▶ 387.080
- ▶ 387.090
- ▶ 387.100
- ▶ 387.105
- ▶ 387.112
- ▶ 387.114
- ▶ 387.1145
- ▶ 387.1151
- ▶ 387.1155
- ▶ 387.116
- ▶ 387.1165
- ▶ 387.117
- ▶ 387.1175
- ▶ 561.485
- ▶ 561.489
- ▶ 561.495
- ▶ 583
- ▶ 584

NUMBER OF EMPLOYEES

32 full-time
1 contracted full-time
1 contracted part-time

CONTACT



Homa Anooshehpour

- ▶ Administrator
- ▶ 775-353-3625
- ▶ hanooshehpour@agri.nv.gov

The NDA's Food and Nutrition division provides access to nutritious food for Nevada children, seniors and families in need. It also ensures the availability of quality dairy products and an economically viable business climate for Nevada dairy producers and processors.



- ▶ Commodity food is distributed from warehouses in Sparks and Las Vegas.

The **CHILD AND ADULT CARE FOOD PROGRAM (CACFP)** uses United States Department of Agriculture (USDA) funds to provide nutritious meals and snacks to children in daycare homes, centers, Head Starts, emergency shelters, and afterschool programs, as well as adults in daycare centers.



FY2018: 2.24 MILLION MEALS
FY2017: 1.99 MILLION MEALS

- ▶ Meals served in at-risk afterschool programs

The **COMMODITY SUPPLEMENTAL FOOD PROGRAM (CSFP)** improves the health of food-insecure senior citizens by supplementing their diets with nutritious USDA foods.

- ▶ More than **7,200 seniors** were served monthly during FY2016-2017 and FY2017-2018 through East Valley Family Services in Las Vegas, Food Bank of Northern Nevada in Reno and Friends in Service Helping in Elko.

The **EMERGENCY FOOD ASSISTANCE PROGRAM (TEFAP)** provides food banks, food pantries and soup kitchens USDA foods for distribution to low-income families.

- ▶ Over **5 million pounds of food** distributed through more than **700,000 food packages** each year in the last biennium.

The **FARM TO SCHOOL PROGRAM (F2S)** connects students to Nevada farmers and fresh, healthy local foods. It provides resources and training to get local foods into lunchrooms, agriculture education into classrooms and students into school gardens.

- ▶ **48 schools** were awarded a total of **\$410,000** in support of school garden efforts for SY2017-2018 and SY2018-2019.

FOOD AND NUTRITION



- ▶ Nevada is home to approximately **130 school gardens**.

The **FOOD DISTRIBUTION PROGRAM ON INDIAN RESERVATIONS** (FDPIR) delivers foods to low-income individuals in 11 different tribes, colonies and reservations in Nevada using USDA funds.

- ▶ Served on average **509 individuals** per month in FY2016-2017.
- ▶ Served on average **453 individuals** per month in FY2017-2018.

The **FRESH FRUIT AND VEGETABLE PROGRAM** (FFVP) provides exposure to fresh fruits and vegetables in high-need elementary schools, leading to increased consumption of fruits and vegetables for elementary students.

- ▶ Distributed **\$2.36 million** in federal funds throughout Nevada from SY2016-2017.
- ▶ Distributed **\$2.21 million** in federal funds throughout Nevada from SY2017-2018.

The **NATIONAL SCHOOL LUNCH PROGRAM** (NSLP) provides students with nutritious lunches. Participants are encouraged to select fresh fruit and/or vegetables, whole grain rich choices, and low-fat or non-fat dairy with the NSLP meal patterns.

SY2017-2018: 36.5 million

▶ Total lunches served

SY2016-2017: 36.1 million

The **NUTRITION SERVICES INCENTIVE PROGRAM** offers commodity foods as an alternative to cash to senior citizen centers throughout the state as part of the federal Older Americans Act.

- ▶ Provided **\$99,085** in entitlement for USDA foods during FY2016-2017.
- ▶ Provided **\$57,186** in entitlement for USDA foods during FY2017-2018.

The **SCHOOL BREAKFAST PROGRAM** (SBP) provides nutritious breakfasts to promote learning readiness and healthy eating behaviors.

- ▶ **4.5 million total meals** served in the last biennium.
- ▶ In 2015, SB503—**Breakfast After the Bell**—mandated that all schools with a free and reduced lunch eligibility of 70 percent or greater serve breakfast after the start of the school day. This increased breakfast participation from 20 percent to **43 percent** in SY2016-2017 and to **45 percent** in SY2017-2018.

FOOD AND NUTRITION

LAB SERVICES

The **Food Safety Laboratory** is accredited by the Food and Drug Administration's Laboratory Proficiency Evaluation Team as the state's central milk lab. The lab offers a variety of tests to the dairy and milk processing industry, including:

- ▶ Antibiotic residues in raw and finished milk
- ▶ Bacterial counts in raw and finished milk
- ▶ Coliform counts in finished milk
- ▶ Fat levels in finished milk
- ▶ Listeria, E. coli, and salmonella in cheese
- ▶ Bacterial and coliform counts in dairy packaging, source water and re-circulated dairy waters

The **SENIOR FARMERS MARKET NUTRITION PROGRAM** (SFMNP) uses USDA funds to provide low-income seniors coupon books to use as cash at Nevada farmers markets, increasing consumption of fresh fruits and vegetables.

- ▶ Served more than **5,700 seniors** and provided Nevada farmers with additional **\$240,000** in income from April 2017 to September 2018.

The **SPECIAL MILK PROGRAM** (SMP) provides milk to children, who do not participate in other federal meal service programs, in schools and in childcare institutions.

- ▶ Served **379,466 milks** (half-pint) to children in SY2016-2017
- ▶ Served **210,602 milks** (half-pint) to children in and SY2017-2018.

The **STATE PROCESSING PROGRAM** (SPP) works with commercial food processors to convert raw bulk USDA foods into more convenient, processed end products like apple sauce or string cheese.

- ▶ Saved school districts a total of **\$4.9 million** through processed USDA commodities in FY2016-2017.
- ▶ Saved school districts a total of **\$7.8 million** through processed USDA commodities in FY2017-2018.

The **SUMMER FOOD SERVICE PROGRAM** (SFSP) provides free, nutritious meals to children 18 and younger in low income areas during the summer months using USDA funds.



- ▶ Summer meals served

**SUMMER 2018:
593,477 MEALS**

**SUMMER 2017:
635,586 MEALS**

The **USDA FOODS** program provides USDA foods for the CACFP, the NSLP and the SFSP.

SY2017-2018: \$13 million

SY2016-2017: \$12.5 million

- ▶ USDA entitlement dollars

FOOD AND NUTRITION

	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage eligible students participating in National School Lunch program	49.06%	50.15%	57.31%	54.86%	45.08%	45.08%	45.08%
Number students participating	215,003	221,750	260,610	260,099	278,806	287,170	295,785
Number eligible students	438,285	442,149	454,742	474,142	618,438	636,991	656,101
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage eligible students participating in School Breakfast program	21.95%	28.18%	59.18%	58.10%	29.30%	29.30%	29.30%
Number students participating	91,544	119,280	257,218	254,417	173,545	178,751	184,114
Number eligible students	417,082	423,227	434,615	437,915	592,394	610,116	628,471
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Number summer food meals served through SFSP	592,588	645,105	635,586	593,477	623,151	654,309	687,024
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Number of food packages served through TEFAP	855,137	789,149	721,595	718,668	740,228	740,228	740,228
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Number FDPIR clients served	610	565	509	453	460	460	460
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Number CSFP clients served	7,177	7,307	7,307	7,192	7,200	7,200	7,200
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage Interstate Milk Shipper program inspections conducted within statutory timelines	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Inspections conducted within statutory timelines	950	975	981	979	990	995	1,000
Total number inspections conducted	950	975	981	979	990	995	1,000
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage dairy producers/retailers compliant with FDA Milk Safety program	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Compliant dairy producers and retailers	154	160	198	198	205	210	215
Total number dairy producers/retailers	154	160	198	198	205	210	215
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage compliant audits	96.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Compliant audits	240	250	250	250	250	250	250
Total number of audits	250	250	250	250	250	250	250

PLANT INDUSTRY

RELEVANT REGULATIONS

NAC	NRS
▶ 453a	▶ 453a
▶ 453d	▶ 453d
▶ 552	▶ 552
▶ 554	▶ 554
▶ 555	▶ 555
▶ 556	▶ 556
▶ 557	▶ 557
▶ 576	▶ 576
▶ 583	▶ 583
▶ 586	▶ 586
▶ 587	▶ 587
▶ 588	▶ 588

NUMBER OF EMPLOYEES

32 full-time
10 seasonal
3 contracted full-time
2 contracted part-time

CONTACT



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The NDA's Plant Industry division conducts cooperative programs with the US Department of Agriculture (USDA), Food and Drug Administration (FDA), US Environmental Protection Agency (EPA), US Forest Service (USFS), Bureau of Land Management (BLM) and state, county and city governments. The division protects Nevada agriculture, the public and the environment through rangeland health, crop disease monitoring, pest monitoring, pesticide education and farm safety programs.

The **DROUGHT INITIATIVE** researches proactive, long-term strategies to make Nevada's agriculture and ranching more resilient to the impacts of prolonged drought through water conservation, technology and sustainable practices.



▶ In FY 2018, a **\$500,000 grant** from the Governor's Drought Initiative funded **11 Water Conservation Projects** through the NDA.

The **ENTOMOLOGY** program identifies, surveys for and controls native and exotic invertebrate pests, monitors quarantines and enforces regulations.

- ▶ The program works with other states and organizations to prevent the spread of invasive pest species that are economically and environmentally harmful to Nevada.

The **ENVIRONMENTAL SERVICES** program maintains pesticide enforcement, surveillance and laboratory analysis procedures to protect human health and the environment from adverse effects of pests and pesticides. Groundwater testing and pesticide container recycling are conducted to protect the health and safety of Nevada's population and the environment from contamination.



FY2018: 27,325 POUNDS
FY2017: 12,865 POUNDS

- ▶ Pounds of pesticide waste disposed of safely

The **EXPORT CERTIFICATION** program assists Nevada farmers and exporters by providing mandatory inspection and certification for plants and plant products being exported out of the state.

- ▶ The NDA issued **561 USDA grade certificates** in FY2017 and **576 USDA grade certificates** in FY2018, allowing onions to be shipped internationally.



PLANT INDUSTRY

The **FOOD SAFETY MODERNIZATION ACT (FSMA)** is an education, inspection and traceability program consisting of farmer trainings and the development of a state-specific regulatory program in conjunction with the FDA to ensure a safe food supply.

- ▶ The NDA provided **10 FSMA trainings** in 2017 and **16 FSMA trainings** in 2018.
- ▶ The **Good Agriculture Practices (GAP)** program is a more rigorous food safety program, offering voluntary audits to verify fruits and vegetables are produced, packed, handled and stored in the safest manner possible to minimize food safety risks.

The **HEMP** program ensures hemp growers, seed producers and handlers (processors of raw hemp products) follow regulatory and safety guidelines established to support and protect the industry and its long-term success.

	GROWERS	PRODUCERS	HANDLERS	ACRES	INDOOR SQ. FT.
2018	116	16	47	1,880	235,688
2017	26	0	0	490	17,170

▶ Increase in hemp industry

The **NOXIOUS WEED** program coordinates resources toward proactive prevention, control and management of invasive weed species on public and private property in Nevada for the protection of native plants, wildlife habitat, property values, agricultural products and water sources.

- ▶ In 2018 NDA added seven new Noxious Weeds Species.
- ▶ **Certified Weed Free Forage & Gravel:** The Noxious Weeds program also aims to provide a source of forage and gravel material free from noxious or invasive weeds.

The **NURSERY** program monitors, intercepts and prevents the spread of pests and disease on nursery stock, ensuring pest-free, disease-free and healthy plant material for sale to the public.

- ▶ In 2018, 1,002 inspections of nursery stock were completed.

The **PEST CONTROL** program licenses and monitors all pest control companies and individuals statewide for compliance with state and federal laws. The program is responsible for the testing of all pest control operators and principals, tracking continuing education, performing operator inspections, investigating pesticide misuse complaints and reporting to the EPA.



The **PLANT PATHOLOGY** program works with other states and the USDA to identify and prevent potential plant disease threats from coming into Nevada. This includes inspecting transport trucks and airline shipments from other countries.



- ▶ The pathology program oversees the inspection of more than **5,000 acres** of allium fields across the state for white rot, a highly contagious fungus that, if found, will block the state of Nevada from being an approved supplier of garlic and onion to the world's economy.

PLANT INDUSTRY

LAB SERVICES

The **Chemistry Laboratory** provides the following services to industry:

- ▶ Registration and analytical verification of fertilizer and pesticide products ensuring labeling guidelines and EPA standards are met
- ▶ Regulatory testing of tetrahydrocannabinol (THC) content in hemp

The **Entomology Laboratory** offers the following services:

- ▶ Identification and surveying for native and exotic invertebrate pests
- ▶ Identification of pests and recommended treatment options for industry and the public

The **Plant Pathology Laboratory** is nationally accredited and provides diagnostic and testing services to the state and federal plant health programs and statewide clientele.

Services include:

- ▶ Identification of plant disease and recommended treatment options for industry and the public

The **Seed Laboratory** provides testing services for seed identity, viability, purity and seed-borne diseases.

The **PRODUCER** and **PRODUCE VENDOR CERTIFICATION** program performs site inspections to verify the quantity and variety of crops grown in the state. Certificates are tracked through a farmer registration system to provide traceability, consumer protection and capture Nevada crop production data.



FY2018: 331 CERTIFICATES
FY2017: 246 CERTIFICATES

- ▶ Producer certificates issued in Nevada

The **RANGELAND HEALTH** program provides educational assistance to landowners developing land management projects that encourage economically viable and sustainable practices.



- ▶ In addition to offering classes on stockmanship, the NDA offers the Rangeland Monitoring App, now available for download on Apple and Android devices, to track grazing data.

The **SEED CERTIFICATION** program provides regulatory support to seed growers and other business entities by offering seed certification services, conducting phytosanitary inspection of crops destined for export and enforcing state and federal seed laws intended to protect the interests of Nevada's seed industry.

- ▶ Native seed for post-fire restoration projects has become increasingly important to the seed industry.



FY2018: 156 CERTIFICATES
FY2017: 106 CERTIFICATES

- ▶ Number of native source identification inspections

The **SPECIALTY CROP BLOCK GRANT** program enhances the competitiveness of Nevada's specialty crops (fruits, vegetables, tree nuts, dried fruits, horticulture and nursery crops). The NDA conducts an annual competitive application process to award grant funds to eligible and top scoring candidates who will contribute to the success of the agricultural crop industry.

FY2018: 11

FY2017: 10

- ▶ Number of projects awarded a Specialty Crop Block Grant

PLANT INDUSTRY

	FY2015	FY2016	FY2017	FY2018	FY2019	FY2020	FY2021
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage plant pathology positive results	26.68%	28.51%	30.69%	30.95%	25.00%	25.00%	25.00%
Number plant pathology positive tests	521	559	615	621	500	500	500
Total number of plant pathology tests	1,953	1,961	2,004	2,006	2,000	2,000	2,000
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage entomological pests identified	37.00%	49.91%	50.69%	49.90%	49.67%	49.84%	50.12%
Number entomological pests identified	5,125	8,422	9,185	9,135	9,315	9,410	9,435
Total number of insects identified	13,853	16,853	18,120	18,305	18,755	18,880	18,825
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percent of certificates issued to producers	99.19%	99.35%	99.83%	100.00%	100.00%	100.00%	100.00%
Number of issued certificates	732	919	1,177	1,037	1,375	1,470	1,375
Number of requested certificates	738	925	1,179	1,037	1,375	1,470	1,375
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage noxious weed seed free certifications issued	98.41%	100.00%	90.32%	88.57%	92.86%	93.33%	93.33%
Number inspections receiving certification	62	34	28	62	65	70	70
Total number inspections performed	63	34	31	70	70	75	75
OUTCOME	N/A	Actual	Actual	Actual	Projected	Projected	Projected
Percent of monitored pesticides		4.67%	4.07%	3.48%	3.27%	3.27%	3.22%
Restricted use pesticides registered in NV		529	456	395	375	375	370
Total pesticides registered in NV		11,337	11,212	11,365	11,465	11,465	11,500
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Number noxious weed infestations	2,515	1,119	2,300	2,400	2,500	3,500	2,500
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage seed lots tested in compliance w/ seed certification standards	100.00%	100.00%	91.11%	94.92%	90.00	87.50%	87.50%
Number seed lots in compliance	35	33	41	56	45	35	35
Total number seed lots tested	35	33	45	59	50	40	40
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage of nursery stock dealers in statutory compliance	94.67%	94.86%	90.65%	93.91%	94.00%	94.00%	94.00%
Number of nursery inspections in compliance	462	738	708	941	752	752	752
Total number nursery inspections	488	778	781	1,002	800	800	800
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage of pesticide inspections resulting in violation	44.95%	37.20%	55.44%	85.29%	76.92%	60.00%	55.11%
Number inspections resulting in violation	98	61	107	116	150	135	124
Total number of inspections annually	218	164	193	136	195	225	225
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage of approved produce safety audits and outreach activities	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Number audits/trainings approved	8	9	10	10	15	15	15
Total number audits/trainings performed	8	9	10	10	15	15	15

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