



NEVADA DEPARTMENT OF AGRICULTURE



2016-2017 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 has satellite 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 money from federal programs.

AGENCY HISTORY

The State Board of Agriculture, the NDA's predecessor agency, was created by the 1885 Nevada Legislature. Chapter 268 of the Nevada 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 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 legislature on all matters related to state agriculture and the NDA.






Nevada Department
of Agriculture

CONTACT

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INTRODUCTION

CONTACT



Jim Barbee

- ▶ Director
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Since our last biennial report, the Nevada Department of Agriculture (NDA) has continued to bring relevance to our growing food and agriculture stakeholders through our many services, including implementation of online registrations, continued collaboration, responsive communication and processes.

Relevance is vital in a growing industry. Nevada's agriculture production value is up 50 percent from \$636 million in 2010 to \$952 million in 2014. The top three commodities most responsible for this growth were cow/calf, milk and hay production. This is a significantly larger increase than United States agriculture production, which is up 37 percent from \$344 billion in 2010 to \$471 billion in 2014.

Our stakeholder group includes every citizen in Nevada. Of our five divisions, all Nevadans fit into one or more of our service areas. Here are a few small examples:

- ▶ **Administration Division:** Buy great tasting local food at local businesses across the state by searching the Buy Nevada website.
- ▶ **Animal Industry Division:** Let your kids and pets play together without worry because of strict surveillance of potential zoonotic diseases like rabies that could transfer between them.
- ▶ **Consumer Equitability Division:** Gas up your car with confidence because you get the quantity and quality of gas you pay for.
- ▶ **Food and Nutrition Division:** Send your kids to school for breakfast and lunch knowing they will receive nutritious meals.
- ▶ **Plant Industry Division:** Walk through your neighborhood knowing your kids and pets can play where they wish because of proper and safe pesticide application.

Our focus has always been and will continue to be on our stakeholders both in the industry and in the general public. I hope you find this report of the NDA's accomplishments during the last two years informative, and I welcome you to contact me with any questions or feedback.

Sincerely,



Jim Barbee
NDA Director

NEVADA FOOD & AG

EMPLOYMENT

Nevada agriculture accounts for **14,941 jobs.**

OPERATIONS

As of 2014, Nevada is home to **4,200 farms & ranches**, about 1/3 of which are 50 acres or smaller.

ECONOMIC IMPACT

In 2014, the food & agriculture sector's contribution to Nevada's economy was **\$2.7 billion.**

GLOBAL MARKET

In 2015, Nevada food & agriculture exports reached a record **\$300 million.**

TOP PRODUCTION

- ✓ beef cattle ranching (\$466 million)
- ✓ hay and feed (\$339 million)
- ✓ dairy cattle (\$168 million)

TOP MANUFACTURING

- ✓ dairy manufacturing (\$580 million)
- ✓ bakeries (\$555 million)
- ✓ fruit & vegetable specialty foods (\$455 million)

GROWTH POTENTIAL

Nevada's gaming & tourism sector spends **\$2 billion on food.** As demand for local food increases, Nevada agriculture can tap into that market.



ADMINISTRATION

RELEVANT REGULATIONS

- NAC
 - ▶ 561
- NRS
 - ▶ 561

NUMBER OF EMPLOYEES

23 full-time

CONTACT



Jim Barbee

- ▶ Director
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The NDA's Administration division provides oversight to the department through the director and also offers communications and promotions support, fiscal services, facility maintenance, information technology services and personnel support.



- ▶ Increasing agricultural literacy is a department-wide effort.

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.

FY2016: 28

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

FY2015: 17

FISCAL services assists all divisions and industry with fiscal matters including accounts payable and receivable, contracts and grant management.

- ▶ **Improved processing times** from FY2015 to FY2016 on purchase orders, travel claims, vendor payments and work programs.

INFORMATION TECHNOLOGY services provides technical assistance and IT expertise to all divisions, helping to ensure employees have the resources necessary to complete their jobs.

- ▶ **Updated video conferencing equipment** installed in FY2016 in Elko, Las Vegas and Sparks locations.

ADMINISTRATION

	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019
OUTCOME		Actual	N/A	Actual	Projected	Projected	Projected
Percentage favorable employee responses employees on internal admin services		30.14%	0.00%	90.00%	95.00%	97.50%	99.00%
Number of agree/strongly agree responses		85	0	180	190	195	198
Total number of surveyed employees		282	1	200	200	200	200
OUTCOME		Projected	Actual	Projected	Projected	Projected	Projected
Percentage increase annual export sales		0.00%	0.99%	0.99%	0.99%	0.99%	0.99%
Annual increase in export sales		0	89,863	90,762	91,669	92,586	93,512
Prior year export sales		8,986,300	9,073,163	9,166,925	9,258,593	9,351,179	9,444,691
OUTCOME		N/A	Actual	Actual	Projected	Projected	Projected
Percentage increase Buy Nevada Facebook engagements		0.00%	14.57%	9.09%	9.09%	9.09%	9.09%
Increase in Facebook engagements		0	5,301	3,633	3,996	4,396	4,836
Prior year number of Facebook engagements		31,079	36,380	39,963	43,959	48,355	53,191
OUTCOME		Actual	Actual	Projected	Projected	Projected	Projected
Percentage increase intl. business contacts		0.00%	3.04%	2.95%	2.96%	2.88%	2.97%
Increase of international business contacts		0	15	15	16	16	17
International business contacts prior year		494	494	509	540	556	572
OUTCOME		Actual	Actual	Actual	Projected	Projected	Projected
Percentage increase of Buy Nevada members		0.00%	14.39%	3.31%	3.21%	3.11%	3.01%
Increase of Buy NV members		0	19	5	5	5	5
Number of Buy Nevada members prior year		132	132	151	156	161	166
OUTCOME		Actual	Actual	Actual	Projected	Projected	Projected
Percentage counties using ag. ed. training		70.59%	76.47%	82.35%	100.00%	100.00%	100.00%
Number of participating counties		12	13	14	17	17	17
Total number of counties		17	17	17	17	17	17
OUTCOME		Actual	N/A	Actual	Projected	Projected	Projected
Percentage satisfied stakeholders with agriculture promotion outreach		75.86%	0.00%	80.00%	90.00%	95.00%	97.50%
Number of stakeholders scoring 5-7		110	0	160	180	190	195
Total number of industry stakeholders scoring		145	1	200	200	200	200
OUTCOME					Projected	Projected	Projected
Percentage increase of agriculture literacy resource and material requests					46.67%	50.00%	60.00%
Increase requests for resources/materials					7	15	30
Prior year resource/material requests					15	30	50
OUTCOME			Actual	Actual	Projected	Projected	Projected
Percentage of students active in FFA			45.17%	45.85%	46.86%	47.86%	48.86%
Number of students active in FFA			1,048	1,211	1,312	1,364	1,417
Number of students enrolled in ag ed			2,320	2,641	2,800	2,850	2,900
OUTCOME			Actual	Actual	Projected	Projected	Projected
Number of public events attended to expand agricultural literacy			10	20	22	24	26

ANIMAL INDUSTRY

RELEVANT REGULATIONS

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

NUMBER OF EMPLOYEES

21 full-time
1 part-time
76 part-time brand inspectors

CONTACT



Dr. J.J. Goicoechea
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LAB SERVICES

The **Animal Disease Laboratory** offers services to industry and the public.

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

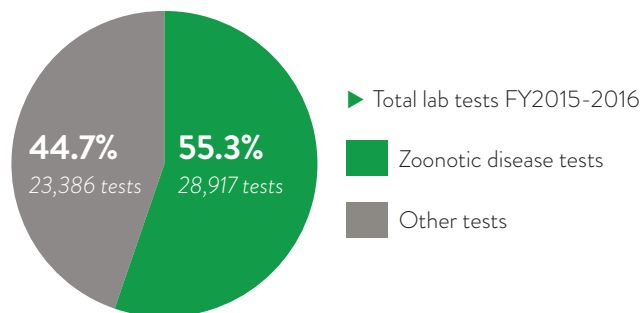


The NDA's Animal Industry division is responsible for animal disease detection and prevention, livestock identification and ownership, natural resources protection and predator control in order to protect public safety and agricultural resources. The division also oversees the state's livestock import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



- ▶ All trucks moving livestock are subject to random inspection 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 **3,600 brands** renewed in calendar year 2016; **20 percent** renewed using NDA's **new online renewal system**.

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.

- ▶ Managed **5,055 predatory animals** in federal FY2016, including coyotes, mountain lions, feral pigs and black bears.

ANIMAL INDUSTRY

	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage successfully completed brand inspections	97.00%	97.00%	98.00%	99.52%	99.00%	99.00%	99.00%
Number brand inspections performed without error	10,040	10,040	10,143	10,350	10,395	10,395	10,395
Total number brand inspections	10,350	10,350	10,350	10,400	10,500	10,500	10,500
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage random site inspections in compliance	93.09%	93.09%	95.09%	93.64%	97.09%	97.27%	99.09%
Number sites that passed random inspection	256	256	523	515	534	535	545
Total number random inspections performed	275	275	550	550	550	550	550
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage health certificates issued	98.00%	98.00%	98.00%	99.45%	98.00%	95.83%	95.83%
Number health certificates issued	9,408	9,408	9,800	9,945	9,800	11,500	11,500
Number health certificates requested	9,600	9,600	10,000	10,000	10,000	12,000	12,000
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage zoonotic positive tests from partnership agencies	37.97%	40.00%	45.00%	44.87%	45.00%	40.00%	40.00%
Number positive lab tests	6,835	7,200	8,100	8,076	8,100	10,000	10,000
Total number samples tested	18,000	18,000	18,000	18,000	18,000	25,000	25,000
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage tests conducted from partner agencies for zoonotic/non-zoonotic diseases	4.00%	4.00%	3.00%	2.86%	2.00%	3.00%	3.00%
Samples received from partner agencies	720	720	540	515	360	750	750
Total number samples	18,000	18,000	18,000	18,000	18,000	25,000	25,000
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage paperwork in compliance for brucellosis test received from vet	97.07%	97.07%	98.00%	98.93%	99.07%	99.33%	99.33%
Number paperwork processed in compliance	728	728	735	742	743	745	745
Total number paperwork processed	750	750	750	750	750	750	750

CONSUMER EQUITABILITY

RELEVANT REGULATIONS

NAC	NRS
▶ 581	▶ 581
▶ 582	▶ 582
▶ 590	▶ 590

NUMBER OF EMPLOYEES

22 full-time

CONTACT



Bart O'Toole

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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 Consumer Equitability division ensures quality of fuel and lubricants as well as equality in all commercial transactions by regulating weight and volume for the protection of Nevada's citizens and industry.



- ▶ The Petroleum Laboratory works to minimize the size of fuel samples, reducing fuel waste during testing.

The **PETROLEUM TECHNOLOGY** program ensures fuel sold at retail facilities meets required regulations and acts on complaints, guaranteeing compliance.

- ▶ Continued to **monitor products and ensure high quality fuel** was available in Nevada even though the number of gas stations statewide increased by 10 percent in FY2015-2016.



- ▶ A new prover trailer was built in 2016, which can test the volume accuracy of more gas pumps per trip than a regular prover truck.

The **WEIGHTS AND MEASURES** program promotes fair trade based on weight and volume, allowing Nevada businesses to stay competitive in the marketplace while protecting Nevada consumers.

- ▶ Northern Nevada **Metrology Laboratory reopened** in FY2015 with a **plan of succession with two metrologists**, ensuring no gaps in service when calibrating weights and volume test measures.

CONSUMER EQUITABILITY

	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage measurement devices inspected	76.82%	80.36%	93.51%	87.73%	90.00%	91.00%	92.11%
Measurement device inspections completed	29,500	30,923	36,000	34,961	36,000	36,491	37,030
Total number measurement devices	38,400	38,481	38,500	39,851	40,000	40,100	40,200
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage compliant gas stations	79.57%	81.61%	81.61%	77.95%	82.46%	83.33%	85.00%
Compliant gas stations	740	759	759	746	804	825	850
Total number registered gas stations	930	930	930	957	975	990	1,000
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage compliant oil, fuel and antifreeze tests	97.14%	97.14%	97.86%	98.30%	98.01%	98.00%	98.00%
Number compliant tests	3,400	3,400	3,425	3,118	3,209	3,234	3,332
Total number tests conducted	3,500	3,500	3,500	3,172	3,274	3,300	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

40 full-time

CONTACT



Donnell Barton
 ▶ Administrator
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The NDA's Food and Nutrition division helps make nutritious food available to Nevada children and other populations in need. It also assures the availability of quality dairy products and an economically viable business climate for Nevada dairy producers and processors.



▶ Commodity food is distributed out of the NDA warehouses in Sparks and Las Vegas.

The **CHILD AND ADULT CARE FOOD PROGRAM (CACFP)** uses United States Department of Agriculture (USDA) funds to serve nutritious meals and snacks to children in day care and afterschool programs as well as adults in day care centers.



FY2016: 1.48 MILLION MEALS
FY2015: 1.38 MILLION MEALS

▶ Meals served in at-risk afterschool programs

The **CHILD NUTRITION COMMODITY SUPPORT PROGRAM** provides USDA commodity foods for the CACFP, National School Lunch Program and Summer Food Service Program.

SY2015-2016: \$12.2 million

▶ USDA entitlement dollars

SY2014-2015: \$11.8 million

The **COMMODITY SUPPLEMENTAL FOOD PROGRAM (CSFP)** improves the health of low-income elderly persons by supplementing their diets with nutritious USDA foods.

▶ More than **7,200 seniors served monthly** during FY2015-2016 through East Valley Family Services in Las Vegas, Food Bank of Northern Nevada and Elko Friends in Service Helping.

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

▶ **13.9 million pounds of food** distributed to more than **800,000 individuals** in FY2015-2016.

FOOD AND NUTRITION

The **FARM TO SCHOOL PROGRAM** connects students to Nevada farmers and fresh, healthy local foods by providing resources and training to get local foods into classrooms and lunchrooms.

► Nevada is home to approximately **100 school gardens**.



► Students in a Washoe County elementary school enjoy local cantaloupe from Snyder Family Farms.

The **FRESH FRUIT AND VEGETABLE PROGRAM** provides exposure to fresh fruits and vegetables in high-need elementary schools, leading to increased consumption of fruits and vegetables in the cafeteria.

► Distributed **\$3.6 million** in federal funds throughout Nevada from SY2014-2015 to SY2015-2016.

The **FOOD DISTRIBUTION PROGRAM ON INDIAN RESERVATIONS** (FDPIR) delivers commodity foods to low-income individuals in 11 different tribes, colonies and reservations in Nevada as an alternative to the Supplemental Nutrition Assistance Program (SNAP) using USDA funds.

► Served on average **588 individuals** in FY2015-2016

The **FOOD SAFETY LABORATORY** offers testing for antibiotics and bacteria to the dairy, milk processing and medical marijuana industries.

► Three new programs established in FY2015-2016: **craft food training, medical marijuana testing** and a **custom meat slaughter** program.

The **NATIONAL SCHOOL LUNCH PROGRAM** (NSLP) provides students with nutritious lunches and the opportunity to practice skills learned in classroom nutrition education.

SY2015-2016: **37.4 million**

► Total lunches served

SY2014-2015: **36.6 million**

The **NUTRITION SERVICE 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 **\$238,357 in entitlement** for USDA foods during FY2015-2016.

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 central milk lab. The lab offers a variety of tests to the dairy, milk processing and medical marijuana industries.

- ▶ 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
- ▶ Bacterial and coliform counts in source water and re-circulated dairy waters
- ▶ Medical marijuana testing for bacteria levels and pathogens

SB503

SB503 is a 2015 Nevada bill that mandates that all schools with a free and reduced lunch eligibility of 70 percent or greater serve breakfast after the start of the school day.

- ▶ Increased breakfast participation from 20 percent in SY2014-2015 to 44 percent in SY2015-2016.
- ▶ Brought an additional \$8 million into the state in year one.

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

SY2015-2016: **20.1 million**

▶ Total breakfasts served

SY2014-2015: **15.8 million**

The **SENIOR FARMERS MARKET NUTRITION PROGRAM** 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 **\$248,946** in additional income April 2015 - September 2016.

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

- ▶ Served nearly **1 million milks** to children in FY2015-2016.

The **STATE PROCESSING PROGRAM** works with commercial food processors to convert raw bulk USDA foods into more convenient, processed end products like chicken nuggets.

- ▶ Saved school districts a total of **\$14.7 million** through processed USDA commodities in FY2015-2016.

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

8.9% **SUMMER 2016: 645,105 MEALS** ▶ Summer meals served
SUMMER 2015: 592,588 MEALS



- ▶ Children in Las Vegas receive a free summer lunch from SFSP sponsor Three Square Food Bank.

FOOD AND NUTRITION

	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage eligible students participating in National School Lunch program	47.71%	45.79%	49.06%	50.15%	50.26%	50.36%	50.46%
Number students participating	215,821	212,040	215,003	221,750	225,614	229,478	233,342
Number eligible students	452,360	463,021	438,285	442,149	448,896	455,643	462,390
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage eligible students participating in School Breakfast program	21.79%	20.73%	21.95%	28.18%	34.24%	40.13%	45.85%
Number students participating	92,738	90,567	91,544	119,280	147,016	174,752	202,488
Number eligible students	425,680	436,954	417,082	423,227	429,372	435,517	441,662
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Number summer food meals served	488,848	537,730	592,588	645,105	677,284	724,694	775,422
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Number clients served by TEFAP	137,093	772,837	855,137	789,149	804,929	821,027	837,448
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Number FDPIR clients served	488	599	610	565	560	560	560
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Number CSFP clients served	7,328	6,985	7,177	7,307	7,349	7,349	7,349
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage Interstate Milk Shipper program inspections conducted within statutory timelines	98.98%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Inspections conducted within statutory timelines	969	967	950	975	975	955	955
Total number inspections conducted	979	967	950	975	975	955	955
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage dairy producers/retailers compliant with FDA Milk Safety program	98.98%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Compliant dairy producers and retailers	138	158	154	160	160	155	155
Total number dairy producers/retailers	145	158	154	160	160	155	155
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage compliant audits		92.00%	96.00%	100.00%	100.00%	100.00%	100.00%
Compliant audits		230	240	250	250	250	250
Total number of audits		250	250	250	250	250	250

PLANT INDUSTRY

RELEVANT REGULATIONS

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

NUMBER OF EMPLOYEES

33 full-time
1 part-time

CONTACT



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LAB SERVICES

The **Chemistry Laboratory** offers the following services.

- ▶ Registers, renews fertilizers and pesticides
- ▶ Performs regulatory testing programs for agriculture related ground and surface water
- ▶ Analyzes pesticide use/misuse residue in a variety of mediums (water, soil, plant)



The NDA's Plant Industry division conducts cooperative programs with the USDA, U.S. Environmental Protection Agency (EPA) and state, county and city government. The division, through rangeland health, crop and pest and pesticide programs, protects Nevada agriculture, the public and the environment.

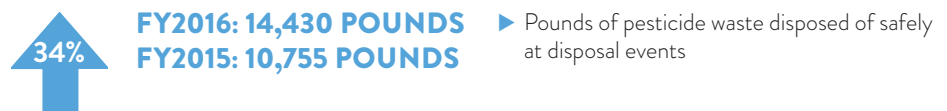


- ▶ The Entomology Laboratory offers insect identification to the public and government agencies.

The **ENTOMOLOGY** program conducts surveys to protect the state from invasive pests and provides pest diagnostics and educational outreach for Nevadans and other government agencies.

- ▶ Worked with the Environmental Services program to create the **Nevada Managed Pollinator Protection Plan** to reduce pesticide exposure to bees.

The **ENVIRONMENTAL SERVICES** program improves environmental health and worker safety by providing regulation and education related to pesticide application and workforce safety.



The **EXPORT CERTIFICATION** program inspects agricultural products to ensure they are free of pests, pathogens and dirt before products are shipped to other countries.

- ▶ Issued **721 USDA grade certificates** in FY2015-2016, allowing onions to be shipped from Nevada to Canada.

The **FARM TO SCHOOL FOOD SAFETY** program ensures safe growing and handling practices in schools so food grown by children in school gardens is safe to eat.

- ▶ Hosted **two school garden conferences** in FY2016 that encompassed food safety, reaching more than 300 teachers, volunteer parents and school garden coordinators.

PLANT INDUSTRY

The **GOOD AGRICULTURAL PRACTICES** (GAP) program offers voluntary inspections to farmers to encourage food safety practices and protect human health.

FY2016: 7

▶ Total GAP inspections

FY2015: 4

The **INDUSTRIAL HEMP** program facilitates research projects to test the viability of industrial hemp as a crop in Nevada.

- ▶ Initiated **nine producer research projects**, resulting in **260.28 acres planted acres of industrial hemp** in FY2016.

The **ORGANIC COST SHARE** program offsets certification costs helping to support the organic industry and allowing producers to enter new markets.

- ▶ Increased **producer awareness of organic certifiers** and helped create a **more diverse group of organic farmers** in FY2016.

The **NOXIOUS WEED** program works to control invasive species to protect native plants, wildlife, property values and agricultural products in Nevada.

- ▶ Began research with federal advisement to **identify new biological control methods** that could effectively control noxious weed species in Nevada in FY2016.



- ▶ Noxious weed staff educate the community about invasive species and how to control them.

The **NURSERY LICENSING** program protects public and private growers from disease and pests.



FY2016: 995 INSPECTIONS
FY2015: 493 INSPECTIONS

▶ Inspections of nursery stock

The **PEST CONTROL LICENSING** program ensures individuals are competent using pesticides in a safe manner.

- ▶ Cultivated a close relationship with the pest control industry in FY2015-2016, hosting regular meetings to **address concerns related to pesticide use and regulation in Nevada**.

PLANT INDUSTRY

LAB SERVICES

The **Entomology Laboratory** provides insect identification for the public, departmental programs and other state and federal agencies.

The **Plant Pathology Laboratory** is a member of the National Plant Diagnostic Network. It offers the following services to industry and the public.

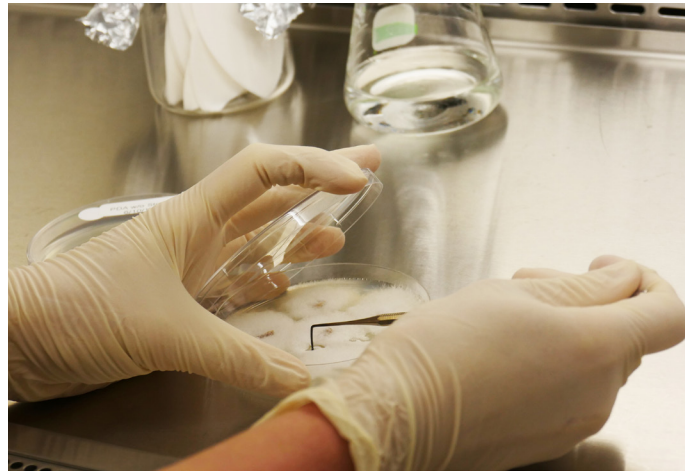
- ▶ Conducts plant disease surveys to prevent new disease introduction
- ▶ Provides scientific support for state and federal disease quarantine
- ▶ Promotes awareness of plant health and management

The **Seed Certification Laboratory** provides the following services to industry.

- ▶ Seed certification inspections
- ▶ Seed analysis to determine purity, germination, weed content, seed identification, moisture content and genetic modification
- ▶ Native seed certification

The **PLANT PATHOLOGY** program diagnoses plant problems, conducts annual plant disease surveys and promotes the export of Nevada grown commodities.

- ▶ Tested approximately **4,000 plant samples** during FY2015-2016, in support of the public, industry and governmental programs.



- ▶ A diagnostician studies a fungal pathogen in the Plant Pathology Laboratory.

The **PRODUCER** and **PRODUCE VENDOR CERTIFICATION** program creates an avenue for food traceability to ensure all Nevada producers comply with federal Food Safety Modernization Act (FSMA) requirements by verifying the origin of raw agricultural products on-farm and sold by vendors.



FY2016: 192 CERTIFICATES
FY2015: 150 CERTIFICATES

- ▶ Producer certificates issued in Nevada

The **RANGELAND HEALTH** program provides resources to the ranching community to improve range health while meeting the economic needs of ranchers.

- ▶ Developed a **rangeland mobile application** to help ranchers and government officials to monitor the health of lands across Nevada.

The **SEED CERTIFICATION** program allows Nevada producers to add value to their seed through NDA inspections and analysis.

- ▶ **Reinstated the seed laboratory** in FY2016, offering internal analysis of seed product that had previously been outsourced to other states.

The **SPECIALTY CROP BLOCK GRANT** program increases production of fruits and vegetables by providing funding to support production, research, education and outreach.

- ▶ **Increased number of research-based projects**, giving growers new and improved production methods.

PLANT INDUSTRY

	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage Plant Path positive test results	22.64%	22.07%	26.68%	28.51%	25.00%	25.00%	25.00%
Number Plant Path positive test results	422	520	521	559	500	500	500
Total number of Plant Pathology tests	1,864	2,356	1,953	1,961	2,000	2,000	2,000
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage entomological pests identified	34.29%	40.84%	37.00%	49.91%	52.65%	53.04%	53.85%
Number entomological pests identified	3,985	5,325	5,125	8,422	9,425	9,600	9,800
Total number of insects identified	11,620	13,040	13,853	16,873	17,900	18,100	18,200
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage of producer certificates issued	98.97%	99.53%	99.19%	99.35%	99.47%	99.48%	99.49%
Number of issued certificates	671	1,049	732	919	937	955	975
Number of requested certificates	678	1,054	738	925	942	960	980
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage Noxious Weed Seed Free certifications issued	97.30%	95.08%	98.41%	100.00%	93.33%	95.83%	96.00%
Number inspections receiving certification	36.00	58.00	62.00	34.00	42.00	46.00	48.00
Total number inspections performed	37.00	61.00	63.00	34.00	45.00	48.00	50.00
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage restricted use pesticides registered in NV				4.67%	4.74%	4.73%	4.69%
Restricted use pesticides registered in NV				529	525	525	520
Total pesticides registered in NV				11,337	11,069	11,094	11,094
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Number noxious weed infestations	1,583	1,295	2,515	1,119	2,300	2,400	2,500
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage seed lots tested in compliance w/ seed certification standards	100.00%	100.00%	100.00%	100.00%	91.11%	86.96%	90.00%
Number seed lots in compliance	20	28	35	33	41	40	45
Total number seed lots tested	20	28	35	33	45	46	50
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage complaint nursery inspections	89.74%	87.97%	94.67%	94.86%	95.24%	95.93%	97.13%
Number complaint nursery inspections	420	695	462	738	800	825	845
Total number nursery inspections	468	790	488	778	840	860	870
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage pesticide applicator/application inspections resulting in violation	48.47%	38.65%	44.95%	37.20%	45.00%	44.44%	42.50%
Number inspections resulting in violation	111	80	98	61	90	80	85
Total number of inspections annually	229	207	218	164	200	180	200
OUTCOME	Actual	Actual	Actual	Actual	Projected	Projected	Projected
Percentage approved GAP audits/trainings	0.00%	100.00%	100.00%	100.00%	92.86%	91.67%	96.55%
Number audits/trainings approved	0	10	8	9	13	22	28
Total number audits/trainings performed	1	10	8	9	14	24	29

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