



COUNTY OF
NEVADA

DEPARTMENT OF AGRICULTURE,
WEIGHTS AND MEASURES



2019
CROP & LIVESTOCK REPORT



COUNTY OF NEVADA
COMMUNITY DEVELOPMENT AGENCY
 AGRICULTURAL COMMISSIONER/SEALER OF WEIGHTS & MEASURES
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 CHRIS DE NIJS – AGRICULTURAL COMMISSIONER

CONTENTS

- 3 Agricultural Commissioner’s Letter
- 4 Ten Year Summary
- 5 Gross Production Value Summary
- 6 Vegetable, Fruit & Nut Crops
- 6 Winegrape Crops
- 7 Nursery Products
- 7 Timber
- 8 Livestock, Poultry and Livestock Products
- 9 Apiary, Eggs and Wool Products
- 9 Pasture and Rangeland
- 10 Pest Exclusion and Detection Report
- 11 Invasive Plant Report
- 12 Environmental Protection & Pesticide Use Enforcement Program
- 12 Apiary and Bee Protection
- 13 Direct Marketing Report
- 14 Weights and Measures

Karen Ross, Secretary
 California Department of Food and Agriculture,
 and

The Honorable Board of Supervisors, County of Nevada

- Heidi Hall, Chair, Supervisor District 1
- Dan Miller, Vice-Chair, Supervisor District 3
- Ed Scofield, Chair, Supervisor District 2
- Susan Hoek, Supervisor District 4
- Richard Anderson, Supervisor District 5

In accordance with the provisions of Section 2279 of the California Food and Agriculture Code, I am pleased to submit the 2019 Annual Crop and Livestock Report for Nevada County. This report is a summary of counts, acreage, yields, and gross value of all agricultural production in Nevada County. It should be emphasized that the values in this report do not attempt to measure farm profitability, nor does it try to quantify the economic contributions of Nevada County Agriculture in the economy.

The total gross value of all agricultural crops produced in 2019 was \$23,394,300. This represents a decrease of approximately \$2,214,900, or nearly 9.5%, compared to the 2018 value of \$25,609,200. This decrease is largely contributed to the gross value of timber falling 51% to \$2,565,000, due to a decrease in the total milled board feet harvested as well as lower prices.

On a positive note, most food crop values in Nevada County continue to rise. The total value of vegetables and other fruits was up nearly 22%, to \$2,579,900, an increase of \$462,000 over its 2018 value. Eggs and Honey also experienced an increase in value up nearly 18%, to \$484,100, an increase of \$72,300 over its 2018 value. Unfortunately, livestock products experienced yet another down year, losing 2% or \$223,900 compared to 2018.

This report also includes a summary of sustainable agriculture activities which have been completed by the department in 2019. These activities aim to prevent and control the spread of exotic and/or invasive plant and insect pests throughout Nevada County using integrated pest management techniques.

Lastly, I would like to thank the many producers, industry representatives, businesses, and other public agencies who cooperated in supplying the data necessary to produce this report. Without their assistance, this crop report would not be possible. I would also like to thank the members of my staff for their contributions, with special recognition going to Agricultural Biologist Luci Wilson, for compiling the information and designing this report. Thank you!

Respectfully Submitted,

Chris de Nijs
 Agricultural Commissioner and Sealer of Weights and Measures

ALISON LEHMAN
 County Executive Officer

SEAN POWERS
 Director of Community
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CHRIS DE NIJS
 Agricultural Commissioner
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MISSION STATEMENT

Nevada County’s Department of Agriculture is dedicated to sustaining a healthy agricultural industry, while protecting the environment, the agricultural workforce and the community. The mission of the Nevada County Department of Weights & Measures is to provide fair compensation and equity in the marketplace and to ensure that the interest of the buyer and seller are protected through education, inspection and enforcement.

STATISTICS

POPULATION¹ 98,114	HIGHEST ELEVATION 9,152 ft	URBAN AND BUILT-UP LAND² 17,609 ac
DENSITY 101/sq mi	LOWEST ELEVATION 280 ft	TOTAL HARVESTED CROPLAND³ 3,313 ac
TOTAL AREA¹ 974 sq mi (623,360 ac)	FARMLANDS² 8,078 ac	NUMBER OF FARMS³ 365
LAND AREA¹ 958 sq mi (613,120 ac)	GRAZING LAND² 133,508 ac	

¹ Source: California Department of Finance, E-1: City/County Population Estimates as of January 1, 2020

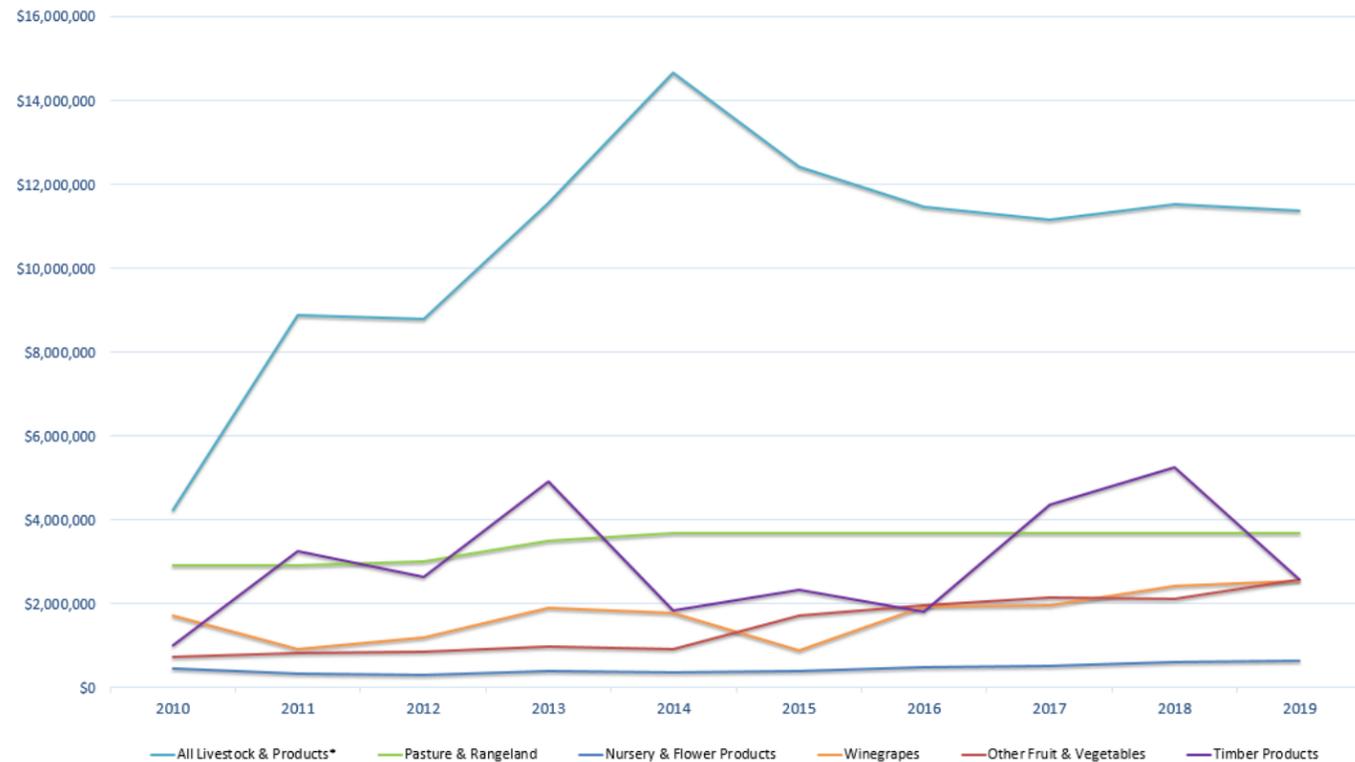
² Source: California Department of Conservation 2014 Land Use Conversion

³ Source: USDA National Agricultural Statistics Service 2017 Census of Agriculture, farms reporting sales greater than \$2500

10 YEAR SUMMARY

Year	All Livestock & Products ¹	Pasture & Rangeland	Nursery & Flower	Winegrapes	Other Fruit & Vegetables	Timber Products	Total Value
2010	\$4,252,600	\$2,925,000	\$452,000	\$1,727,000	\$743,200	\$1,014,200	\$11,114,000
2011	\$8,870,000	\$2,925,000	\$327,000	\$905,200	\$829,900	\$3,249,000	\$17,106,100
2012	\$8,778,300	\$3,020,000	\$294,800	\$1,196,200	\$851,000	\$2,647,700	\$16,788,000
2013	\$11,573,200	\$3,510,000	\$383,900	\$1,886,900	\$966,400	\$4,924,900	\$23,245,300
2014	\$14,649,300	\$3,700,000	\$378,500	\$1,771,400	\$911,300	\$1,843,100	\$23,253,600
2015	\$12,417,100	\$3,700,000	\$392,500	\$888,900	\$1,725,700	\$2,344,600	\$21,468,800
2016	\$11,473,800	\$3,700,000	\$502,200	\$1,926,800	\$1,964,300	\$1,800,800	\$21,367,900
2017	\$11,167,100	\$3,700,000	\$531,400	\$1,957,400	\$2,150,300	\$4,356,300	\$23,862,500
2018	\$11,518,900	\$3,700,000	\$603,300	\$2,415,000	\$2,117,900	\$5,254,100	\$25,609,200
2019	\$11,367,300	\$3,700,000	\$631,700	\$2,550,400	\$2,579,900	\$2,565,000	\$23,394,300

¹ Includes all livestock, poultry, apiary, wool and egg products.

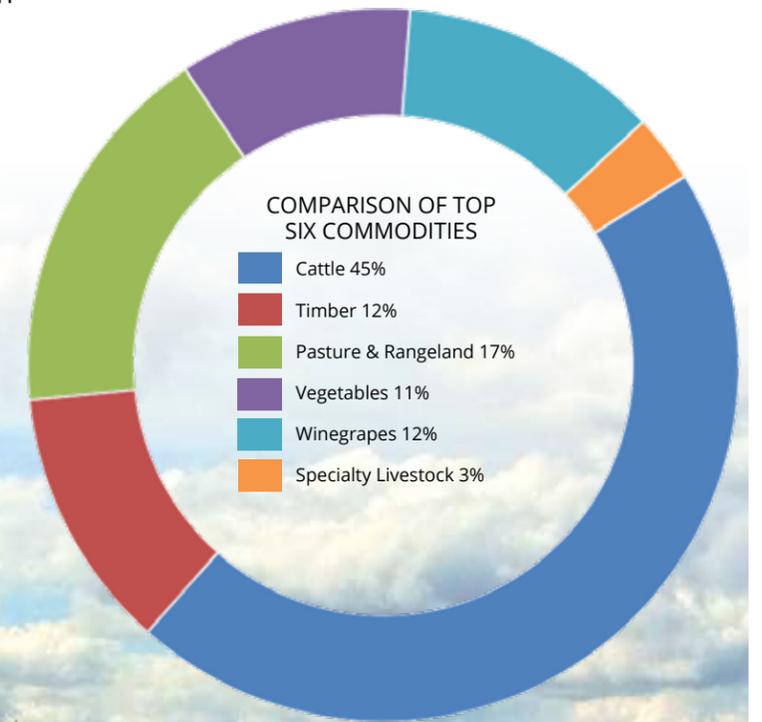


TOP SIX CROPS

The gross value of all agricultural production in Nevada County for 2019 was approximately

\$23,394,300

The top six commodities represent 92.2% of the total, or \$21,558,900.

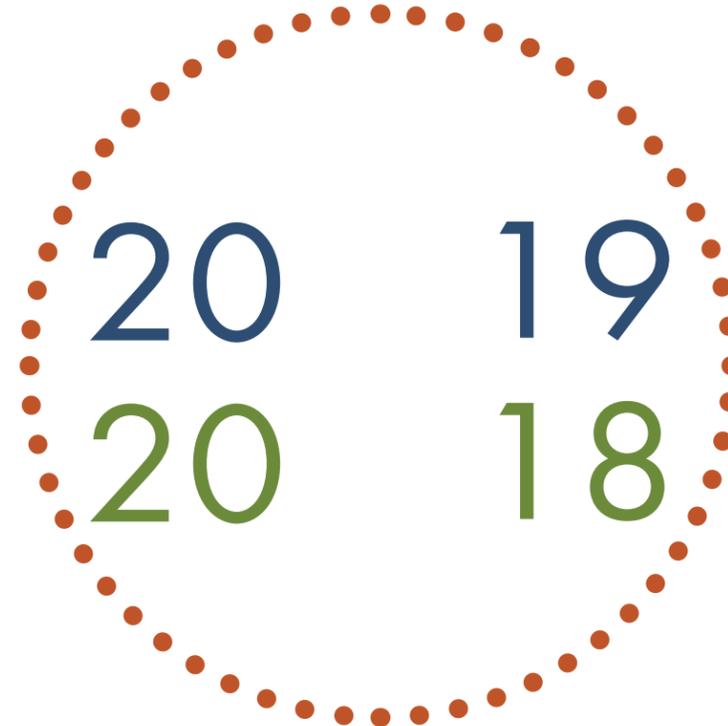


VEGETABLE, FRUIT & NUT CROPS

	ACRES	VALUE
 22% ↑	88	\$2,285,900
VEGETABLES ^A	88	\$1,869,800
 19% ↑	39	\$294,000
OTHER FRUITS & NUTS ^B	40	\$248,100
TOTAL VEGETABLE, FRUIT & NUT CROPS VALUE:		\$2,579,900
		\$2,117,900

WINEGRAPE CROPS

	ACRES	TOTAL TONS	VALUE
 8% ↑	320	1230	\$1,933,100
RED WINEGRAPES ^C	320	1399	\$1,797,300
 0% -	96	396	\$617,300
WHITE WINEGRAPES ^D	97	417	\$617,700
TOTAL WINEGRAPES:			\$2,550,400
			\$2,415,000



NURSERY PRODUCTS

	ACRES	NO. OF TREES	VALUE
 7% ↑	4		\$331,200
NURSERY	4		\$309,700
 -4% ↓	7		\$185,000
CUT FLOWERS	8		\$192,300
 14% ↑		2100	\$115,500
CHRISTMAS TREES		2100	\$101,300
TOTAL NURSERY:			\$631,700
			\$603,300

TIMBER

	AMOUNT	\$/MBF ^E	VALUE
 -51% ↓	12,018 MBF	\$213.43	\$2,565,000
TIMBER	19,772 MBF	\$266.00	\$5,254,100

^A Vegetables include bean, beet, broccoli, cabbage, carrot, cauliflower, celery, corn, cucumber, eggplant, garlic, herbs, kale, kohlrabi, leafy greens, lettuce, melon, onion, pea, pepper, potato, parsnip, pumpkin, radish, squash, tomato, tomatillo and turnip

^B Fruits and nuts include apple, apricot, blackberry, blueberry, boysenberry, cherry, chestnut, fig, nectarine, olive, peach, pear, persimmon, plum, pluot, pomegranate, prune, raspberry, and strawberry. Wine grapes are calculated separately

^C Red wine grape varieties include barbera, basturdo, bracciano, cabernet franc, cabernet sauvignon, cagnane, carmine, cinsaut, corvina, dolcetto, grenache, legrein, malbec, merlot, montepulciano, mouvedre, petite sirah, petite verdot, primitivo, refosco, sangiovese, syrah, tempranillo, teroldego, tinta cao, tinta negra mole, tournet, touriga nazionale and zinfandel

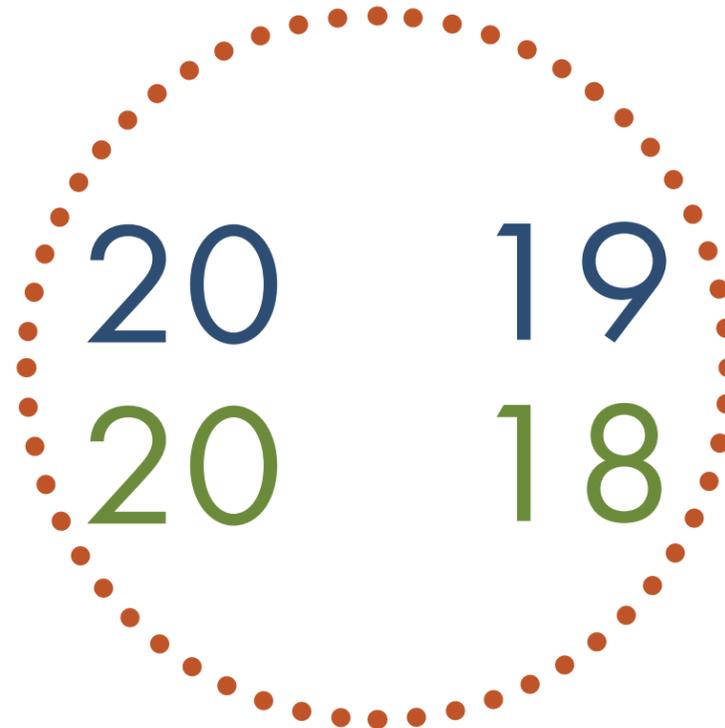
^D White wine grape varieties include chardonnay, chenin blanc, falenghina, fiano, flora, forastera, marsanne, melon, muscat orange, peverella, pinot gris, rkatsiteli, rousanne, sauvignon blanc, semillon, tocai friulano, vespaiola, and viognier

Numbers may not compute exactly due to rounding

^E Milled Board Feet
Numbers may not compute exactly due to rounding

LIVESTOCK, POULTRY AND LIVESTOCK PRODUCTS

	HEAD ¹	\$/HEAD	VALUE
↓ -1%  STEERS & HEIFERS	4,100	\$1,490	\$6,109,000
↓ -5%  COWS & CALF	2,100	\$1,755	\$3,685,500
↓ -18%  SHEEP & LAMBS	1,300	\$132	\$171,600
↓ -2%  MISC LIVESTOCK ²	1,500	\$140	\$210,000
↑ 8%  SPECIALTY LIVESTOCK ³	222		\$663,100
	236		\$614,000
TOTAL LIVESTOCK:			\$10,883,200
			\$11,107,100



APIARY AND EGG⁵

	AMOUNT	\$/UNIT	VALUE
↑ 1%  APIARY ⁴	2370 hives	---	\$210,400
	2225 hives	---	\$208,800
↑ 28%  HONEY	28,171 lbs	\$4.57	\$128,700
	25,677 lbs	\$3.92	\$100,700
↑ 42%  EGGS	16,721 doz	\$8.67	\$145,000
	18,941 doz	\$5.40	\$102,300
TOTAL APIARY & EGGS:			\$484,100
			\$411,800

PASTURE AND RANGELAND

	AMOUNT	\$/ACRE	VALUE
- 0%  PASTURE	10,000 ac	\$180	\$1,800,000
	10,000 ac	\$180	\$1,800,000
- 0%  RANGELAND	95,000 ac	\$20	\$1,900,000
	95,000 ac	\$20	\$1,900,000
TOTAL PASTURE AND RANGELAND:			\$3,700,000
			\$3,700,000

¹Number of head as of January 1, 2019

²Includes poultry, goats, hogs and wool

³Junior Livestock Auction

Numbers may not compute exactly due to rounding

⁴ Includes wax, queens, nucs, and in-county pollination

⁵ Wool products were combined with Miscellaneous Livestock due to low reported numbers

Numbers may not compute exactly due to rounding

PEST EXCLUSION AND DETECTION REPORT

EXCLUSION

All incoming plants and other host material originating from known areas of pest or disease infestations are inspected to help protect Nevada County. The introduction of Glassy-winged Sharpshooter (GWSS) or European Grapevine Moth (EGVM) are potential threats to the production of winegrapes in our area.

Out-of-state shipments may contain pests or diseases of economic importance, such as the Gypsy Moth (GM) and Sudden Oak Death (SOD). The state agriculture border stations notify us of incoming shipments. When a shipment arrives, it is inspected for pests, general cleanliness, and compliance with all applicable federal, state and county regulations. County biologists also inspect agricultural packages at the UPS and FedEx sorting facilities in Grass Valley each morning.

In 2019, approximately 4,350 packages and shipments were inspected for live exotic pests, and resulted in 7 live pest finds.

DETECTION

Nevada County's insect trapping program monitors for populations of pests that cause potentially devastating crop, forest and ornamental plant damage. Traps are placed throughout the county in host plants and high-risk areas, and are inspected by county staff every two weeks during the trapping season. Suspect insects are sent to the California Department of Food and Agriculture Lab for evaluation.

PEST	NO. OF TRAPS
Gypsy Moth (GM)	197
Japanese Beetle (JB)	12
European Grapevine Moth (EGVM)	66
Light Brown Apple Moth (LBAM)	12
European Pine Shoot Moth (EPSM)	20
Glassy-winged Sharpshooter (GWSS)	87
Exotic Fruit Flies*	34

*Exotic fruit flies include Mediterranean fruit fly, melon fruit fly and oriental fruit fly.



Gypsy moth trap, photo courtesy of CDFA.

EUROPEAN GYPSY MOTH

SCIENTIFIC NAME: *Lymantria dispar*

The gypsy moth (GM) is a pest that voraciously feeds on the leaves of trees and shrubs, threatening residential settings, forests and agricultural tree crops. The gypsy moth is originally from Europe and Asia. It was brought to the U.S. for breeding experiments in Massachusetts in the 1860's and accidentally escaped. It has since moved steadily southward and westward, and now occupies the northeastern U.S. from Maine to Virginia and westward to Wisconsin. Gypsy moth caterpillars feed on hundreds of kinds of plants and are capable of defoliating trees at an alarming rate. A single gypsy moth caterpillar can eat up to one square foot of leaves per day. Outdoor articles such as trailers, boats, lawn items, dog huses, etc. become infested when female moths lay egg masses or caterpillars construct cocoons on them.

The primary detection method for this invasive pest is through the use of pheromone traps which strongly attract the male moths, trapping them in a glue material. The detection of moths in traps results in the placement of additional traps and/or egg mass survey around the find locations. Based on the results of these additional survey efforts, eradication measures may be undertaken if the evidence indicates that a breeding population is present. Moth finds are generally the result of persons transporting infested articles when moving to California from infested areas.

INVASIVE PLANT REPORT

The Nevada County Agriculture Commissioners Office is tasked with protecting the agriculture and natural resources of the county. This includes management and eradication of noxious invasive plants. The species we target in Nevada County include, but are not limited to mostly A- and B-rated weeds.

When sites are located on private property, we work with the landowner to gain access and permission to treat. Methods used to eradicate these unwanted plants include hand pulling, shoveling, and herbicides. If herbicide treatment is required, we use a selective product that only acts on the target plants. When utilizing herbicides we spot spray, leaving non-target plants unaffected, thereby mitigating herbicide drift and damage to sensitive sites. Proper weed eradication and management takes many years, and repeat visits to each site are necessary.



Musk thistle flowers, photo courtesy of NPS.

MUSK THISTLE

SCIENTIFIC NAME: *Carduus nutans*

Musk Thistle is a biennial or winter annual (family Asteraceae) found in disturbed open sites, roadsides, pastures, annual grasslands, and waste areas. These and other invasive thistles can dominate sites and crowd out native species and forage plants. The spines inhibit grazing and discourage livestock and wildlife from entering infested areas.

WEED SPECIES	TREATMENT METHOD	NO. OF SITES
Canada Thistle	Mechanical/Chemical	24
Dalmation Toadflax	Chemical	11
Diffuse Knapweed	Mechanical/Chemical	3
Dyer's Woad	Chemical	4
Klamathweed	Mechanical/Chemical	12
Lens-podded Hoary Cress	Mechanical/Chemical	85
Musk Thistle	Mechanical/Chemical	284
Oblong Spurge	Mechanical/Chemical	205
Perennial Pepperweed	Chemical	162
Purple Loosestrife	Mechanical	5
Red Sesbania	Mechanical	2
Rush Skeletonweed	Mechanical/Chemical	145
Russian Knapweed	Mechanical/Chemical	18
Scotch Broom	Mechanical/Chemical	6
Scotch Thistle	Mechanical/Chemical	3
Spotted Knapweed	Mechanical/Chemical	18
Tree of Heaven	Chemical	1
Yellow Starthistle	Chemical	17

ENVIRONMENTAL PROTECTION & PESTICIDE USE ENFORCEMENT PROGRAM

Under state and federal law, a pesticide is any substance intended to control, destroy, repel, or attract a pest. Pesticides are chemicals designed to be harmful to a target pest and purposely introduced into the environment to do their job of managing insects, bacteria, weeds, rodents, or other pests. Pesticide refers to not only insecticides but many other kinds of chemicals, including herbicides, fungicides and rodenticides.

The Nevada County Agricultural Commissioner's Office protects human health and the environment by regulating pesticide sales and use, and by supporting integrated pest management and best practices. We work closely with the California Department of Pesticide Regulation (DPR) to enforce state laws and regulations pertaining to pesticide use, sales, licensing, worker safety, and pesticide use reporting.

- Performing inspections, compliance monitoring, and compliance assistance that focus on protecting pesticide applicators and workers;
- Investigating all priority pesticide related incidents and illnesses;
- Issuing CEQA-compliant pesticide permits for the use of commercial quantity products, including herbicides;
- Enforcing the requirements of pesticide product labeling and ensuring safe use.

APIARY AND BEE PROTECTION

BEEWHERE

Beehives are considered sensitive sites, and their locations are required under state law to be registered in their home county. The data are used when assessing pesticide use and safety in relation to known bee locations, both hobbyists and professional beekeepers. Historically, pins on a cork board would mark hive locations that were registered with a County Agricultural Commissioner's office. More recently, addresses or GPS coordinates were entered manually by staff from registration forms into a GIS layer.

BeeWhere was created to allow beekeepers to easily register their hives to comply with state law and regulations. BeeWhere tracks hive locations to help stakeholders address pollinator protection in the field. BeeWhere helps streamline registration and provides information to foster communication between beekeepers and pesticide applicators during bloom.

BeeWhere was created by a coalition of stakeholders, led by the California Association of Pest Control Advisers (CAPCA) and County Agricultural Commissioners and Sealers Association (CACASA), and supported by the California State Beekeepers Association, the Almond Board of California and other partners who are dedicated to the welfare of bees.

BeeWhere and Fieldwatch are partnering together to make compliance as easy as a pin drop.



Download the new BeeCheck App on iOS or Android, or go to the BeeSafe website:

<https://beewhere.calagpermits.org/Account/Login?ReturnUrl=%2FBeekeeper>



DIRECT MARKETING REPORT

Local farmers' markets allow producers to sell their certified commodities directly to the public. There were 32 certified producers that were issued certificates in Nevada County in 2019. The following 7 Farmers Markets have been certified by the Agricultural Commissioner to market local and regional produce in Nevada County. These producers offer a wide variety of commodities, including fresh produce, herbs, mushrooms, flowers, honey, nursery stock, eggs, meat and poultry.

GRASS VALLEY

McKnight Crossing Shopping Center (KMart)
Saturday 8am-12:30pm
May-November

PENN VALLEY

Western Gateway Park
Thursday 9am-1pm
May-November

NORTH SAN JUAN

NSJ Community Center, Hwy 49
Tuesday 4pm-7pm
June-October

NEVADA CITY

Raley's Pine Creek Center
Tuesday 9am-1pm
May-September

Union Street
Saturday 8:30am-1pm
Every Saturday June-November,
1st Saturday only December-May

TRUCKEE

Truckee River Regional Park
Tuesday 8am-1pm
May-October

Mill Street
Thursday 6pm-9pm
September-October

ORGANIC

Organic farming practices focus on maintaining ecological health and balance through promoting biodiversity and soil health while minimizing pollutants. Organic farming practices exclude the use of synthetic pesticides and fertilizers as well as genetically modified organisms.

Consumer demand for certified organic products continues to increase, with an expectation that organic products are verifiable. All organic producers in California must register with the California Department of Food and Agriculture's Organic Program. The County Agricultural Commissioner's Office performs inspections on behalf of California Department of Food and Agriculture (CDFA) for first-time registrants and producers that make less than \$5000 in annual sales, and conducts spot checks at farmers markets.

In 2019, 43 organic producers were registered with growing sites in Nevada County. For more information on the Organic Food and Farming Act, please visit the California Department of Food and Agriculture's State Organic Program website at <https://www.cdfa.ca.gov/is/organicprogram/>.



WEIGHTS AND MEASURES

The Nevada County Agricultural Commissioner is also the Sealer of Weights and Measures, which plays a vital role in the economic activity of the county. The department serves the community by safeguarding and measuring accuracy and assuring confidence and integrity in the marketplace. The benefit our office provides ensures fair competition for industry and accurate value comparison for consumers.

As a neutral third party between buyers and sellers we:

- Test weighing and measuring devices for accuracy
- Examine and evaluate the work of service repairmen
- Verify the quantity of bulk and packaged commodities
- Check consumer packages for proper labeling
- Inspect price scanner systems for accuracy
- Review weighmaster certificates and licensing requirements
- Regulate the advertising, labeling and quality standards of petroleum products



Stack of 25-lb and assorted certified weights.

MEASURING DEVICES	# OF DEVICES	WEIGHING DEVICES	# OF DEVICES
CNG	2	Computing Scales	208
Domestic Water Submeters	1,168	Counter Scales	68
Electric Submeters	1,359	Dormant/Port Plat >=2,000 lbs	20
Fabric, Cordage & Wire Meters	13	Hanging Scales	11
LPG Dispensers	68	Hopper & Tank Scales	4
Retail Motor Fuel Meters	831	Livestock & Animal >=2,000 lbs	3
Taxi Meters	10	Misc. Weighing Devices	13
Vapor Submeters	1,777	Prescription & Jewelers Scales	46
Vehicle Meters	18	Vehicle Scales	10
Wholesale Meters	2	TOTAL WEIGHING DEVICES	383
TOTAL MEASURING DEVICES	5,248		





Nevada County
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