



COUNTY OF
NEVADA

DEPARTMENT OF AGRICULTURE,
WEIGHTS AND MEASURES



2020
CROP & LIVESTOCK REPORT

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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
97,466

DENSITY
101/sq mi

TOTAL AREA¹
974 sq mi (623,360 ac)

LAND AREA¹
958 sq mi (613,120 ac)

HIGHEST ELEVATION
9,152 ft

LOWEST ELEVATION
280 ft

FARMLANDS²
7,760 ac

GRAZING LAND²
133,393 ac

URBAN AND BUILT-UP LAND²
17,274 ac

TOTAL HARVESTED CROPLAND³
3,313 ac

NUMBER OF FARMS³
365

¹ Source: California Department of Finance, E-1: City/County Population Estimates as of January 1, 2021

² Source: California Department of Conservation 2016-2018 Land Use Conversion

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



COUNTY OF NEVADA COMMUNITY DEVELOPMENT AGENCY

AGRICULTURAL COMMISSIONER/SEALER OF WEIGHTS & MEASURES

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CHRIS DE NIJS – AGRICULTURAL COMMISSIONER

Karen Ross, Secretary

California Department of Food and Agriculture,
and

The Honorable Board of Supervisors, County of Nevada

Dan Miller, Chair, Supervisor District 3

Susan Hoek, Vice-Chair Supervisor District 4

Heidi Hall, Supervisor District 1

Ed Scofield, Supervisor District 2

Hardy Bullock, Supervisor District 5

In accordance with the provisions of Section 2279 of the California Food and Agriculture Code, I am pleased to submit the 2020 Annual Crop and Livestock Report for Nevada County. This report is a summary of counts, acreage, yields, and gross values 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 commodities produced in 2020 was \$19,725,200. This represents a decrease of approximately 15% or nearly \$3.7 million, compared to the 2019 value. This decrease is largely contributed to the gross value of livestock falling 33% or \$3,640,300 to a total value of \$7,242,900.

The 2020 COVID-19 pandemic highlighted the importance of our local food production as evident by empty produce shelves at national chain supermarkets during the beginning of this pandemic. Farmers that sold directly to restaurants were forced to quickly pivot and find other customers and many residents began growing their own vegetable garden. Throughout these uncertain times, our farmers fulfilled their role as essential workers and fed our community. The total value in 2020 of fruit and vegetable crops increased almost 7%, or \$175,900.

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,

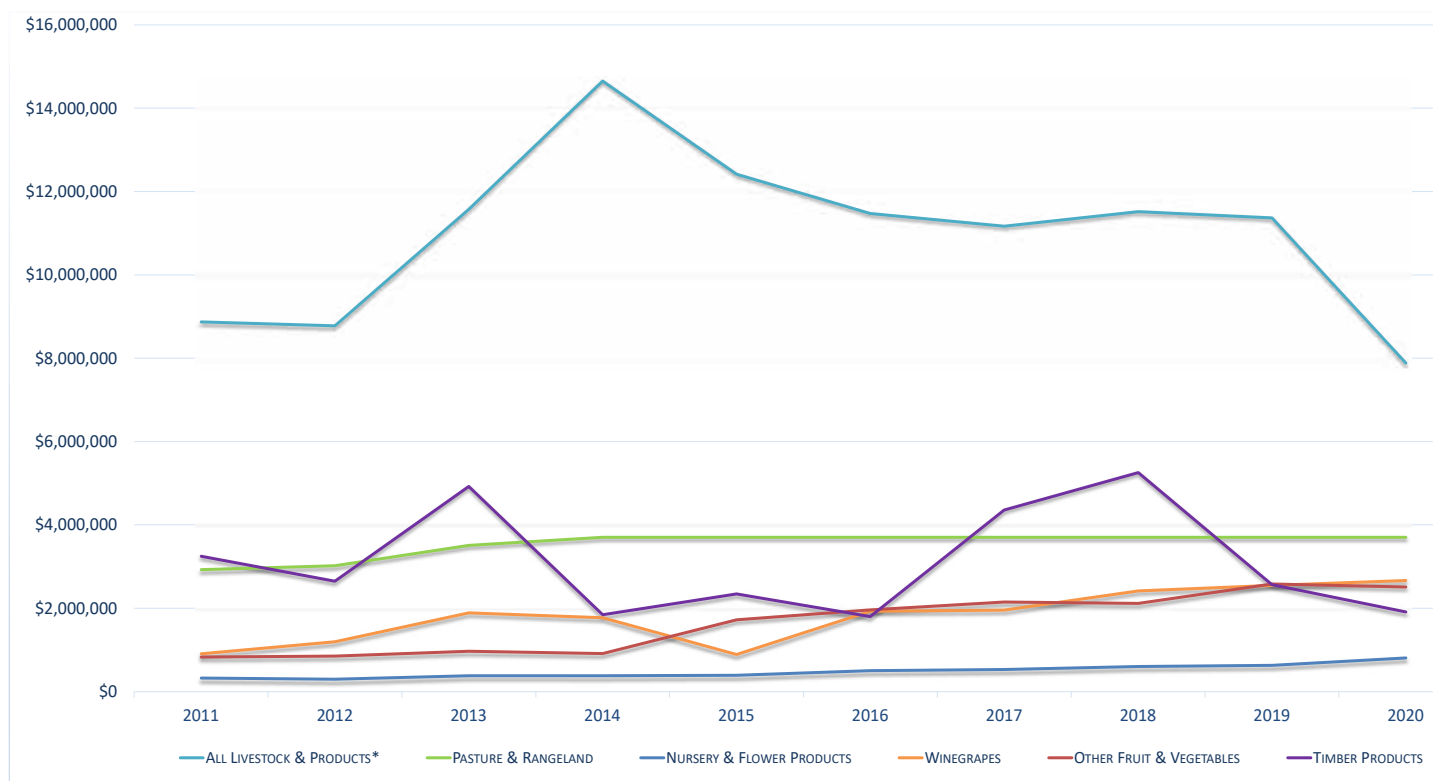
Chris de Nijs

Agricultural Commissioner and Sealer of Weights and Measures

10 YEAR SUMMARY

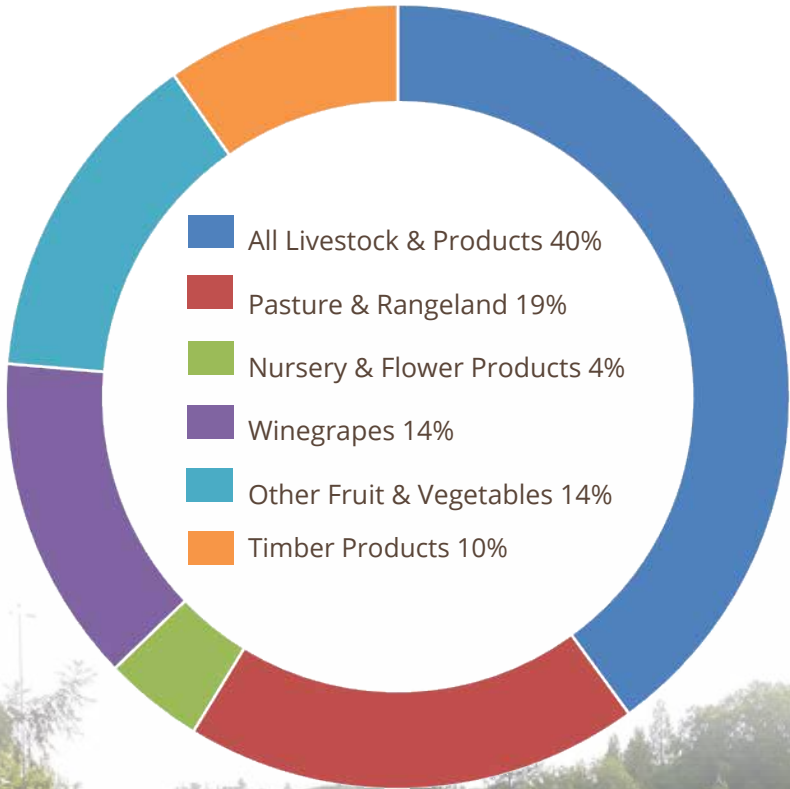
YEAR	ALL LIVESTOCK & PRODUCTS ¹	PASTURE & RANGELAND	NURSERY & FLOWER	WINEGRAPES	OTHER FRUIT & VEGETABLES	TIMBER PRODUCTS	TOTAL VALUE
2011	\$8,870,000	\$2,925,000	\$327,000	\$905,200	\$829,900	\$3,249,000	\$17,106,100
2012	\$8,778,300	\$3,020,000	\$294,800	\$1,196,200	\$851,000	\$2,647,700	\$16,788,000
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
2020	\$7,884,200	\$3,700,000	\$809,000	\$2,666,200	\$2,755,800	\$1,910,000	\$19,725,200

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





The gross value of all agricultural production in Nevada County for 2020 was approximately



\$19,725,200



VEGETABLE, FRUIT & NUT CROPS

		ACRES	VALUE
↑		95	\$2,448,600
7%	VEGETABLES ^A	89	\$2,285,900
↑		38	\$307,200
4%	OTHER FRUITS & NUTS ^B	40	\$294,000
TOTAL VEGETABLE, FRUIT & NUT CROPS VALUE:			\$2,755,800
			\$2,579,900

WINEGRAPE CROPS

		ACRES	TOTAL TONS	VALUE
↑		314	1157	\$2,040,600
6%	RED WINEGRAPES ^C	320	1230	\$1,933,100
↑		94	413	\$625,600
1%	WHITE WINEGRAPES ^D	96	396	\$617,300
TOTAL WINEGRAPES:				\$2,666,200
				\$2,550,400



^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, bastardo, 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, teroldergo, tinta cao, tinta negra mole, tournet, touriga nationale 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

20
19

NURSERY PRODUCTS






		ACRES	NO. OF TREES	VALUE
↑	 NURSERY	5		\$480,000
45%		4		\$331,200
↑	 CUT FLOWERS	7		\$218,100
18%		7		\$185,000
↓	 CHRISTMAS TREES		2150	\$110,900
-4%			2100	\$115,500
TOTAL NURSERY:				\$809,000
				\$631,700

TIMBER

		AMOUNT	\$/MBF ^E	VALUE
↓	 TIMBER	13,545 MBF	\$141.01	\$1,910,000
-26%		12,018 MBF	\$213.43	\$2,565,000

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

LIVESTOCK, POULTRY AND LIVESTOCK PRODUCTS

		HEAD ¹	\$/HEAD	VALUE
↓		4,100	\$1,000	\$4,100,000
-33%	STEERS & HEIFERS	4,100	\$1,490	\$6,109,000
↓		2,100	\$1,150	\$2,415,000
-34%	COWS & CALF	2,100	\$1,753	\$3,685,500
↓		1,300	\$130	\$169,000
-2%	SHEEP & LAMBS	1,300	\$132	\$171,600
↓				\$250,000
-1.6%	MISC LIVESTOCK ²			\$254,000
↓		200		\$308,400
-53%	SPECIALTY LIVESTOCK ³	219		\$663,100
		TOTAL LIVESTOCK:		\$7,242,900
				\$10,883,200



¹Number of head as of January 1, 2021




²Includes poultry, goats, hogs and wool

³Junior Livestock Auction


Numbers may not compute exactly due to rounding

20
19

APIARY AND EGG⁵

		AMOUNT	\$/UNIT	VALUE
↑ 76%	 APIARY ⁴	3300 hives	---	\$370,700
		2370 hives	---	\$210,400
↓ -13%	 HONEY	26,500 lbs	\$4.25	\$112,600
		28,171 lbs	\$4.57	\$128,700
↑ 9%	 EGGS	18,715 doz	\$8.44	\$158,000
		16,721 doz	\$8.67	\$145,000
TOTAL APIARY & EGGS:				\$641,300
				\$484,100

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

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 2020, approximately 5,758 packages and 209 nursery shipments were inspected for live exotic pests, and resulted in 4 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)	34
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.

MEDITERRANEAN FRUIT FLY

SCIENTIFIC NAME: *Ceratitis capitata*

The Mediterranean fruit fly is a short, squat fly about 1/4 inch in length. It has a blackish thorax marked with silver; a tan abdomen with darker stripes extending across the abdomen; and clear wings with two light brown bands across the wing, another along the distal front edge, and gray flecks scattered near the base.

Tropical fruit flies represent a major threat to California's agriculture. The damage caused by larval feeding makes fruit unfit for human consumption. In addition, the presence of an established population would cause a severe economic impact via restrictions/prohibitions on the export of fresh fruit both domestically and internationally. The crops potentially affected in California are many and comprise a significant portion of the total agricultural output for the state.

The Mediterranean fruit fly has one of the widest host range of any pest fruit fly, and is considered the most important agricultural pest in the world. It has been recorded infesting over 250 cultivated and wild fruits. The host list includes apple, apricot, avocado, bell pepper, carambola, coffee, dates, fig, grape, grapefruit, guava, lemon, lime, loquat, lychee, mango, nectarine, orange, papaya, peach, pear, persimmon, plum, pomegranate, pummelo, quince, sapote, tangerine, tomato, and walnut. In California, the combined 2011 gross value of the above hosts was over \$16.5 billion (USDA NASS 2012).



Close up of MedFly, photo

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.

PERENNIAL PEPPERWEED

SCIENTIFIC NAME: *Lepidium latifolium*

Perennial pepperweed, an introduced plant from southeastern Europe and Asia, is invasive throughout the western United States. It can establish in a wide range of environments and is a common problem in flood plains, irrigation structures, pastures, wetlands, riparian areas, roadsides, and residential site. Recent surveys identify perennial pepperweed as a weed problem in nearly all of California, and both the California Department of Food and Agriculture (CDFA) and California Invasive Plant Council (Cal-IPC) list it as a noxious weed of great ecological concern. Populations form dense monocultures that are easily spread by root fragments and seed. Perennial pepperweed has many common names including tall whitetop, perennial peppergrass, ironweed, perennial peppergrass, and broad-leaved pepperweed.



Mature perennial pepperweed, photo by Joseph M DiTomaso

WEED SPECIES	TREATMENT METHOD	NO. OF SITES
Canada Thistle	Mechanical/Chemical	5
Dalmation Toadflax	Chemical	11
Diffuse Knapweed	Mechanical/Chemical	2
Klamathweed	Mechanical/Chemical	5
Lens-podded Hoary Cress	Mechanical/Chemical	18
Musk Thistle	Mechanical/Chemical	96
Myrtle Spurge	Chemical	1
Oblong Spurge	Mechanical/Chemical	53
Perennial Pepperweed	Chemical	49
Purple Loosestrife	Mechanical	3
Rush Skeletonweed	Mechanical/Chemical	45
Russian Knapweed	Mechanical/Chemical	9
Spotted Knapweed	Mechanical/Chemical	63
Yellow Starthistle	Chemical	10

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 31 certified producers that were issued certificates in Nevada County in 2021. 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

Raley's Pine Creek Center
Tuesday 8am-1pm
May-September

Mill Street
Thursday 6pm-9pm
May-August

PENN VALLEY

Western Gateway Park
Thursday Summer: 9am-1pm,
Winter: 10am-2pm

NEVADA CITY

Union Street
Saturday
Summer: May-December
8:30am-1pm,
Winter: 1st & 3rd Saturdays
January-April 9am-noon

TRUCKEE

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

TRUCKEE

Truckee Railyard Parking Lot
Saturday 8am-noon
June-September



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 2020, 47 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



Class II test kit, 1mg to 1 kg

MEASURING DEVICES	# OF DEVICES	WEIGHING DEVICES	# OF DEVICES
CNG	2	Class II Scales	46
Domestic Water Submeters	1,206	Computing Scales	302
Electric Submeters	1,396	Counter Scales	155
Fabric, Cordage & Wire Meters	14	Dormant/Port Plat $\geq 2,000$ lbs	27
LPG Dispensers	68	Hanging Scales	11
Retail Motor Fuel Meters	864	Hopper & Tank Scales	4
Taxi Meters	5	Livestock & Animal $\geq 2,000$ lbs	4
Vapor Submeters	1,815	Misc. Weighing Devices	17
Vehicle Meters	18	Vehicle Scales	12
Wholesale Meters	2	TOTAL WEIGHING DEVICES	578
TOTAL MEASURING DEVICES	5,390		





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