

DEPARTMENT OF AGRICULTURE AND WEIGHTS & MEASURES



2016 Nevada County Crop and Livestock Report

Protecting and Promoting Agriculture in Nevada County



MISSION STATEMENT

Nevada County's Agricultural Commissioner and Department of Agriculture are 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.

Nevada County Department of Agriculture, Weights & Measures

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General Information



Population¹ 98,2828

Density 101/sq mi

Total Area¹ 974 sq mi (623,360 ac)

Land Area¹ 958 sq mi (613,120 ac)

Water Area¹ 16 sq mi (10,240 ac)

Highest Elevation 9,152 ft

Lowest Elevation 280 ft

Farmlands² 8,078 ac

Grazing Land² 133,508 ac

Urban and Built-up Land² 17,609 ac

Total Cropland³ 3,349 ac

Number of farms³ 354

Nevada County was established in April 1851. The county was named after the mining town of Nevada City, a name derived from the term "Sierra Nevada". The word nevada is Spanish for "snowy" or "snowy-covered".⁴

¹Source: California Department of Finance, E-1: City/County Population Estimates as of January 1, 2017

²Source: California Department of Conservation 2014 Land Use Conversion

³Source: USDA National Agricultural Statistics Service 2012 Census of Agriculture

⁴Source: "Nevada County History", US Gen Web Project in California, retrieved August 27, 2015

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COUNTY OF NEVADA
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Chris de Nijs – Agricultural Commissioner, Sealer of Weights and Measures

Karen Ross, Secretary
California Department of Food and Agriculture

And

The Honorable Board of Supervisors, County of Nevada

Hank Weston	District 4, Chair
Ed Scofield	District 2, Vice Chair
Heidi Hall	District 1
Dan Miller	District 3
Richard Anderson	District 5

I am pleased to present the 2016 County of Nevada Annual Crop and Livestock Report. This report is prepared pursuant to Section 2279 of the California Food and Agricultural Code. This report represents estimated acreage, yield, and gross value of agricultural products in Nevada County. No attempt was made to reflect net income to the producer or cost of production.

The gross value of Nevada County's agricultural production for 2016 was \$20,877,900, down 2.75% from the 2015 value. Timber products saw a decrease of 23% in 2016, fire salvage timber harvesting in surrounding counties continues to monopolize the industry and flood the mills with supply. The livestock industry experienced a 13% decrease in gross value in 2016, mainly due to a decrease in cattle prices.

On a positive note, both Fruit and Vegetable Crops experienced positive gains in 2016. This was led by a significant increase in winegrape acreage reported as well as improved tons per acre harvested, resulting in an overall winegrape value increase of 117% over 2015. Other Fruit and Vegetable Crops experienced a 14% increase due to improved farmer knowledge, distribution systems and demand at the local level.

This report also includes summaries of the department's pest exclusion, pest detection and invasive weed program activities for 2016 and highlights the many organizations in Nevada County that supports agriculture.

I would like to thank the many producers, agricultural business representatives, and public agencies who have 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. Thank you!

Respectfully Submitted,

Chris de Nijs
Agricultural Commissioner and Sealer of Weights and Measures

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Gross Production Value Summary

Commodity	Year	Value
Vegetable Crops	2016	\$1,771,000
	2015	\$1,581,000
Nursery and Flower Products	2016	\$502,200
	2015	\$392,500
Timber Products	2016	\$1,800,800
	2015	\$2,344,600
Fruit and Nut Crops	2016	\$2,120,100
	2015	\$1,033,600
Livestock and Poultry	2016	\$10,483,700
	2015	\$12,032,000
Apiary, Eggs and Wool Products	2016	\$500,100
	2015	\$385,100
Pasture & Rangeland	2016	\$3,700,000
	2015	\$3,700,000
Grand Total	2016	\$20,877,900
	2015	\$21,468,800

The amounts in this report represent estimated gross values, regardless of utilization. No attempt is made to reflect net income to the producer or cost of production. Values represent rounded estimates based on data collected from producers, experts and literature.



Pasture and barn on Jones Bar Road, Nevada City



Vegetable Crops

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.

Crop	Year	Harvested Acres	Value
Vegetables	2016	87	\$1,771,000
	2015	86	\$1,581,000

Nursery and Flower Products

Crop	Year	Production Acres	Number of Trees	Value
Nursery	2016	4		\$260,800
	2015	4		\$226,600
Cut Flowers	2016	6		\$159,100
	2015	4		\$93,800
Christmas Trees	2016	42	1765	\$82,300
	2015	24	1336	\$72,100
Total Nursery	2016	52		\$502,200
	2015	32		\$392,500



Timber Products

Crop	Year	Amount	Unit	Price Per Unit	Value
Timber	2016	9,437	MBF	\$190.82	\$1,800,800
	2015	10,358	MBF	\$226.36	\$2,344,600

NUMBERS MAY NOT COMPUTE EXACTLY DUE TO ROUNDING

Fruit and Nut Crops

Crop	Year	Harvested Acres	Tons Per Acre	Total Tonnage	Value
Red Winegrapes ¹	2016	320	3.09	987	\$1,414,000
	2015	254	1.93	476	\$668,600
White Winegrapes ²	2016	97	4.11	399	\$512,800
	2015	98	1.88	183	\$220,300
Other Fruit and Nuts ³	2015	40			\$193,300
	2014	40			\$144,700

¹Red wine grape varieties include barbera, basturdo, braciano, 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.

²White 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.

³Includes 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.



NUMBERS MAY NOT COMPUTE EXACTLY DUE TO ROUNDING

Livestock and Poultry

Commodity	Year	Head ¹	Live Weight	Unit ²	Per Unit Price	Value
Steers & Heifers	2016	4,100	46,125	cwt	\$130.00	\$5,996,300
	2015	4,200	47,250	cwt	\$150.00	\$7,087,500
Cow & Calf	2016	2,900	31,610	cwt	\$130.00	\$4,109,300
	2015	2,700	29,430	cwt	\$150.00	\$4,578,000
Sheep & Lambs	2016	1,110			\$150.00	\$165,000
	2015	1,130			\$150.00	\$172,500
Miscellaneous (Hogs, goats, chickens)	2016					\$213,100
	2015					\$194,000
Total Livestock	2016					\$10,483,700
	2015					\$12,032,000

¹Number of head as of January 1, 2017

²cwt = hundred weight, 100 lbs



4-H pig at Nevada County Fair

NUMBERS MAY NOT COMPUTE EXACTLY DUE TO ROUNDING



Worker bees on a frame.

Apiary, Eggs and Wool Products

Commodity	Year	Amount	Unit	Price Per Unit	Value
Apiary ¹	2016	2352	hives		\$267,800 ²
	2015	2246	hives		\$170,700
Honey	2016	22,066	pounds	\$4.58	\$101,000
	2015	18,300	pounds	\$4.42	\$80,900
Wool Products ³	2016	1200	pounds	\$10.00	\$12,000
	2015	550	pounds	\$18 .00	\$8,300
Eggs	2016	22,215	dozen	\$5.37	\$119,300
	2015	23,765	dozen	\$5.75	\$125,200
Total Apiary, Eggs and Wool Products	2016				\$500,100
	2015				\$385,100

¹Includes wax, queens, nucs, and in-county pollination.

²Revised formula does not include production hives.

³Includes industry and specialty wools.

Pasture and Rangeland

Commodity	Year	Amount	Unit	Price Per Unit	Value
Pasture	2016	10,000	Acre	\$180	\$1,800,000
	2015	10,000	Acre	\$180	\$1,800,000
Rangeland	2016	95,000	Acre	\$20	\$1,900,000
	2015	95,000	Acre	\$20	\$1,900,000
Total Pasture and Rangeland	2016				\$3,700,000
	2015				\$3,700,000

NUMBERS MAY NOT COMPUTE EXACTLY DUE TO ROUNDING

Agricultural Resources

Ag Advisory Commission

950 Maidu Avenue, Suite 170 (530) 470-2690
Nevada City, CA 95959 agdept@co.nevada.ca.us
www.mynevadacounty.com/nc/cda/agcomm/Pages/Agricultural-Advisory-Commission.aspx

Their purpose is to advise and make recommendations to the Nevada County Board of Supervisors, and other county boards, commissions, and departments, on issues affecting, or of interest to the agricultural industry. The AAC develops a framework for cooperation among agencies, interest groups, and public and private property owners for wise conservation and management of resources to benefit the County's agricultural assets.

Bear Yuba Land Trust

PO Box 1004 (530) 272-5994
Grass Valley, CA 95945 erin@bylt.org
www.bylt.org

Bear Yuba Land Trust exists to create a balance between nature and the needs of the people who make a life and a livelihood here. This is our home. Our mission is to enrich the deep community connection with our land – today, tomorrow and forever.

California Certified Organic Farmers Sierra Gold Chapter

(530) 644-6448 fraulawrence@yahoo.com
www.ccof.org/ccof/chapters/sierra-gold

The CCOF Sierra Gold Chapter is located in the Sierra foothills. Our chapter represents Amador, Alpine, Calaveras, El Dorado, Nevada, Placer, and Tuolumne counties.

California FarmLink

335 Speckles Drive, Suite F (831) 425-0303
Aptos, CA 95003 liya@cafarmlink.org
www.californiafarmlink.org

California FarmLink's mission is to link independent farmers and ranchers with the land and financing they need for a sustainable future. Established in 1999, California FarmLink supports beginning, limited-resource, immigrant and other underserved farmers. FarmLink provides access to land and capital to build a diverse and sustainable farming community.

Future Farmers of America (FFA)

PO Box 460 (209) 744-1600
Galt, CA 95632 inbox@californiaffa.org
www.calaged.org/

Agricultural Education prepares students for successful careers and a lifetime of informed choices in the global agriculture, food, fiber, and natural resources systems.

Gold Country Sheep Producers Association

(916) 663-3900 kafish4@yahoo.com
www.goldcountysheepproducers.org/

The Gold Country Sheep Producers Association encourages cooperation among sheep and goat producers and supports businesses within the California counties of El Dorado, Nevada, Placer, Sacramento, Sutter and Yuba.

Local Food Coalition

groups.yahoo.com/neo/groups/localfoodcoalition/info

Working together to support local farmers, preserve local farms and farmland, and ensure a local food supply in the western Nevada County area.

Nevada Couy 4-H

255 South Auburn Street (530) 273-4563
Grass Valley, CA 95945 jcsimmons@ucanr.edu
http://ucanr.edu/sites/nevadacounty4h/Contact_Us/

Nevada County 4-H is an educational program of the University of California Cooperative Extension. The program combines the efforts of youth, volunteer leaders, and University staff and faculty to create a fun, hands-on learning approach that helps young people acquire knowledge and develop life skills while also giving back to the community. The program improves science and agricultural literacy through educational programming in the areas of animal science, gardening and horticulture, foods and nutrition, arts, and technology. All 4-H programs are accessible and open to all youth.

Nevada County Beekeepers Association

(530) 913-5709 jerryvan29@gmail.com
www.nevadacountybeekeepers.org

The Nevada County Beekeepers Association is a diverse group of professionals and hobbyists, with a keen interest in promoting the well being of honey bees and their habitat while enjoying their amazing benefits. The NCBA strives to promote education on beekeeping and agriculture by providing the latest news and techniques in these fields.

Nevada County Farm Bureau

PO Box 27 (530) 346-8146
Grass Valley, CA 95945 ncfb.manager@gmail.com
www.nevadacountyfarmbureau.com

Nevada County Farm Bureau is an organization where all county residents interested in ranching, farming and agriculture have the opportunity to join together, stay informed and have a voice managing our agricultural resources. The Farm Bureau is dedicated to improving the economic well-being of its members and the lives of rural residents.

Nevada County Food Policy Council

313 Railroad Avenue, Suite 201 (530) 265-2343
Nevada City, CA 95959 malaika@sierraharvest.org
www.foodpolicynetworks.org/custom/mod_clfDirectory/_includes/cfm/index.cfm?council=343

Nevada County Food Hub

PO Box 2294 (614) 288-0745
Grass Valley, CA 95945 hub@nevadacountygrown.org
http://nevadacountygrown.org/home/hub

Nevada County Food Hub (NCFH) aggregates local meat and produce for large buyers such as restaurants, caterers, stores, and schools. Buyers place their order online. Local farmers and ranchers deliver their wares.

Nevada County Grown

PO Box 2294
Grass Valley, CA 95945 info@nevadacountygrown.org
www.nevadacountygrown.org

The mission of Nevada County Grown is to strengthen the connection between local agricultural producers and the larger community by assisting local agricultural producers in marketing their products. Nevada County Grown educates the community about the importance of supporting local agricultural producers. Annually, Nevada County Grown publishes and distributes a Farm Guide and iPhone app that are a directory to local food and farms in Nevada County.

Nevada County Master Gardeners

255 South Auburn Street (530) 273-0919
Grass Valley, CA 95945
www.ncmg.ucanr.org/

Master Gardeners provide home gardeners in Nevada County with science-based information, whatever their gardening conditions, and offer a number of workshops and events to achieve this goal.

Nevada County Resource Conservation District (NCRCD)

113 Presley Way, Suite 1 (530) 272-3417
Grass Valley, CA 95945 janet.blake@ncrcd.org
www.ncrcd.org

NCRCD promotes responsible resource management through education, leadership, technical and financial assistance, project facilitation, and partnerships in conservation and agriculture. We support local agriculture and agriculture education through FFA, Ag in the Classroom/Annual Farm Day, and other programs for our youth. We are committed to the preservation of open space and the long-standing legacy of agriculture in Nevada County.

Nevada Irrigation District (NID)

1036 W Main Street (530) 273-6185
Grass Valley, CA 95945 customerservice@nidwater.com
www.nidwater.com

For nearly 100 years, NID is proud to supply water to a growing number of local producers throughout Nevada County in support of its \$22 Million Agriculture economy. Local agriculture depends on a reliable water supply, and NID provides quality irrigation water to over 5,600 seasonal and year around customers on approximately 97,000 irrigable acres.

Placer Nevada Cattle Women

PO Box 1215 www.pncw.org
Lincoln, CA 95648

A group of women devoted to activities that promote best interests of the cattle industry and increase the consumption of American Beef. The aim is to develop a better public understanding of the cattle industry and the relationship it bears to the health, safety, and general welfare of all people.

Sierra College

5100 Sierra College Blvd (916) 660-7900
Rocklin, CA 95677
www.sierracollege.edu/academics/divisions/science-math/agriculture.php

The Agriculture Department offers A.S. degrees and certificates in Agriculture, Animal Science, Equine Studies and Suburban Agriculture. All of the agriculture programs are designed to be student-centered and offer flexibility in course offerings allowing students to customize each degree based on their specific interests and career or educational goals.

Sierra Foothills Research & Extension Center

8279 Scott Forbes Road (530) 639-8800
Browns Valley, CA 95918 jjjames@ucanr.edu
sfrec.ucanr.edu/

The 6,000 acre research ranch located along the Yuba river supports research on beef cattle production and health, rangeland and irrigated pasture grazing management, oak woodland conservation and restoration, as well as water quality management in foothill watersheds, among other programs.

Sierra Harvest

313 Railroad Avenue, Suite 201 (530) 265-2343
Nevada City, CA 95959 malaika@sierraharvest.org
https://sierraharvest.org/

Sierra Harvest's mission is to educate, inspire, and connect Nevada County families to fresh, local, seasonal food.

Sierra Vintners

PO Box 1552 (530) 205-3016
Grass Valley, CA 95945 info@sierravintners.com
www.sierravintners.com/

Sierra Vintners Associate Members provide valuable financial and community support that attracts visitors and businesses to Nevada County for the growth and development of the entire region.

Sierra Wine & Grape Growers Association

PO Box 1264
Grass Valley, CA 95945 sierragrapegrowers@gmail.com
swgga.org/

Our purpose is to inform and educate our current and future members, neighbors, the media and the general public about grape growing and wine making in a casual and social environment.

Truckee Food Hub

PO Box 3038 (530) 562-7150
Truckee, CA 96160 susie@tahoefoodhub.org
www.tahoefoodhub.org

The mission of the Tahoe Food Hub is to galvanize our community to build a regional, sustainable and equitable food system.

UC Cooperative Extension Placer/Nevada County

255 South Auburn Street (530) 562-7150
Grass Valley, CA 95945 cefake@ucanr.edu
cenevada.ucanr.edu

UC Cooperative Extension works in partnership with local producers to build and strengthen the local food system. Our goal is to improve long-term sustainability and economic viability of foothill farms and ranches. Farm advisors provide individual advice and information to commercial producers. We deliver practical beginning farming, business planning, crop production, and animal husbandry workshops throughout the year.

USDA Farm Service Agency (FSA)

1521 Butte House Road, Ste A (530) 674-1461
Yuba City, CA 95993 daren.carter@ca.usda.gov
www.fsa.usda.gov/state-offices/California/index

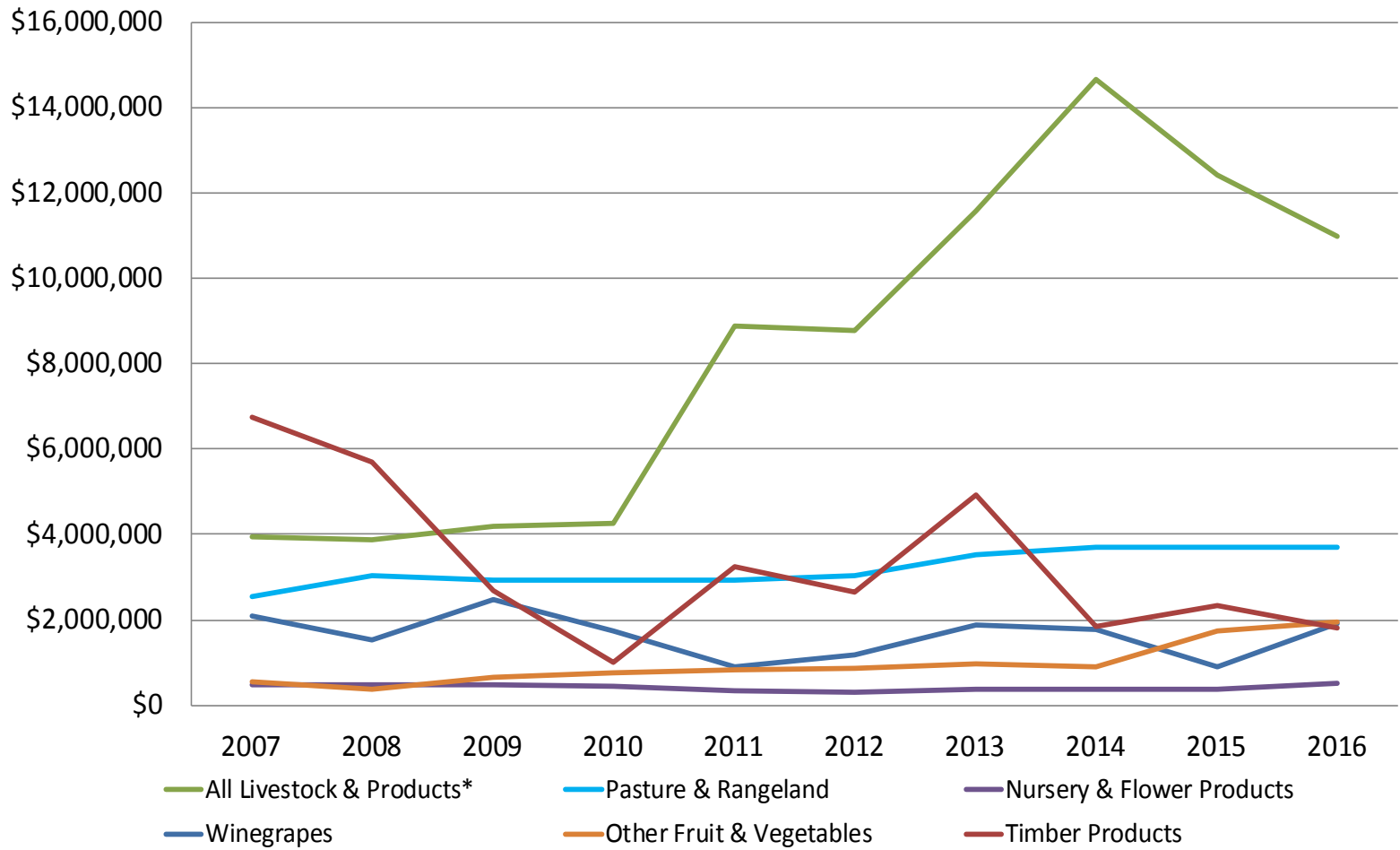
By providing access to credit, FSA's Farm Loan Programs offer opportunities to family-sized farmers and ranchers to start, improve, expand, transition, market, and strengthen family farming and ranching operations.

USDA Natural Resources Conservation Service (NRCS)

113 Presley Way, Suite 1 (530) 272-3417
Grass Valley, CA 95945
www.nrcs.usda.gov/wps/portal/nrcs/site/ca/home/

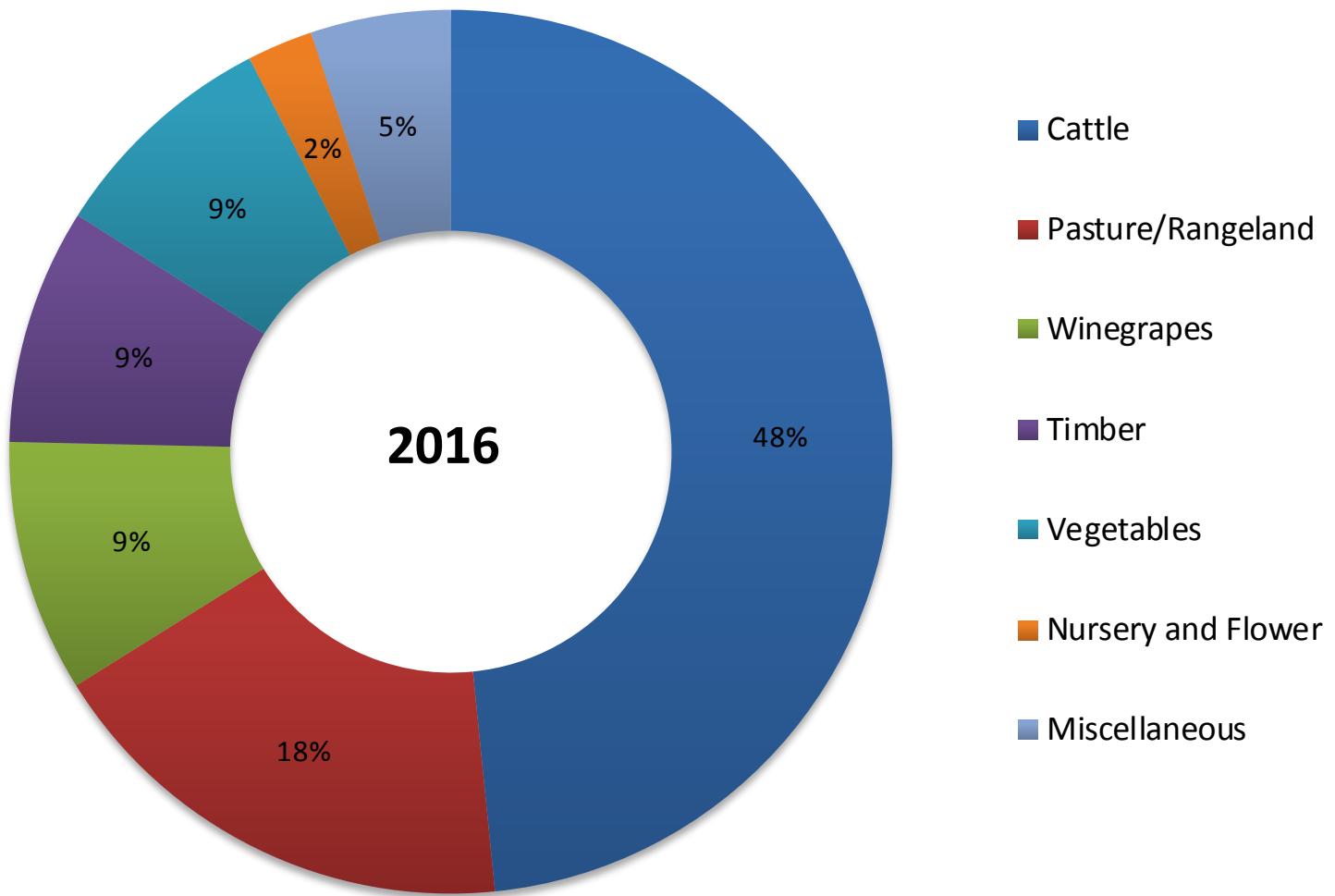
NRCS conservation programs help people reduce soil erosion, enhance water supplies, improve water quality, increase wildlife habitat, and reduce damages caused by floods and other natural disasters. NRCS provides funding opportunities for agricultural producers and other landowners through these programs.

Agricultural Income 10 Year Comparison



Year	All Livestock & Products*	Pasture & Rangeland	Nursery & Flower Products	Winegrapes	Other Fruit & Vegetables	Timber Products	Total Value
2007	\$3,927,600	\$2,527,900	\$471,000	\$2,086,600	\$553,000	\$6,743,700	\$16,309,800
2008	\$3,867,400	\$3,020,000	\$465,500	\$1,522,900	\$377,400	\$5,679,100	\$14,932,300
2009	\$4,189,300	\$2,925,000	\$471,000	\$2,477,500	\$656,000	\$2,689,000	\$13,407,800
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	\$11,134,400	\$3,510,000	\$383,900	\$1,886,900	\$966,400	\$4,924,900	\$23,245,300
2014	\$14,648,800	\$3,700,000	\$378,500	\$1,771,400	\$911,300	\$1,843,100	\$23,253,100
2015	\$12,417,100	\$3,700,000	\$392,500	\$888,900	\$1,725,700	\$2,344,600	\$21,468,800
2016	\$10,983,800	\$3,700,000	\$502,200	\$1,926,800	\$1,964,300	\$1,800,800	\$20,877,900

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



Then and Now

Fruit Production in Nevada County - Excerpt from 1966 Crop and Livestock Report:

"Nevada County fruit growing goes back to the early Gold Rush days. Miners brought their apples, pears and peaches and planted them here in the hills. They did surprisingly well. In fact, some of the fruit trees of the early mining days are still alive and bearing fruit. Nevada County's fruit display at the Panama-Pacific International Exposition in San Francisco, 1915, won many gold medals. The display contained fifty-four varieties of pears alone. The pear industry in Nevada County survived the depression years and continued up to about 1958 when pear decline and fire blight brought an end to the pear industry here. Apple trees are less susceptible to disease and frost damage which brought down the Bartlett pear industry. A new type of fruit industry was launched in apples along with some hardier varieties of peaches and plums."

Top 6 1966	Value
Broilers & Fryers	\$677,800
Cattle	\$601,200
Pasture & Rangeland	\$505,400
Apples	\$95,900
Milk	\$70,800
Eggs	\$65,200
Total Top 6 Value	\$2,016,300

Top 6 2016	Value
Cattle	\$10,105,600
Pasture & Rangeland	\$3,700,000
Winegrapes	\$1,926,800
Timber	\$1,800,800
Vegetables	\$1,771,000
Nursery and Flower	\$502,200
Total Top 6 Value	\$19,806,400

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 2016, approximately 4,387 shipments were inspected for live exotic pests, and resulted in 13 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	# of Traps
Gypsy Moth (GM)	195
Japanese Beetle (JB)	22
European Grapevine Moth (EGVM)	65
Light Brown Apple Moth (LBAM)	16
European Pine Shoot Moth (EPSM)	20
Glassy-winged Sharpshooter (GWSS)	88
Exotic Fruit Flies*	34

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



Gypsy Moth Trap on Tree

Gypsy moth trap on a tree, courtesy of CDFA.

UP CLOSE WITH THE INVASIVE EUROPEAN GYPSY MOTH

COMMON NAME: 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.

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 in the northeastern United States or from other countries. Outdoor articles such as trailers, boats, lawn items, dog houses, etc. become infested when female moths lay egg masses or caterpillars construct cocoons on them.



Gypsy Moth
Image Citation: Györfy Csokla
Hungary Forest Research Institute
Bujenyódorj 5371142

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.

Pictured to the right, perennial pepperweed (*Lepidium latifolium*), 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. Populations form dense monocultures that are easily spread by root fragments and seed.



Perennial pepperweed by I-80

Weed Species	Treatment Method	# of Sites
Barbed Goatgrass	Chemical	1
Bull Thistle	Mechanical/Chemical	4
Canada Thistle	Mechanical/Chemical	2
Dalmation Toadflax	Mechanical/Chemical	8
Diffuse Knapweed	Mechanical/Chemical	2
Dyer's Woad	Chemical	14
Lens-podded Hoary Cress	Mechanical/Chemical	10
Musk Thistle	Mechanical/Chemical	65
Oblong Spurge	Mechanical/Chemical	13
Perennial Pepperweed	Chemical	49
Purple Loosestrife	Mechanical/Chemical	12
Red Sesbania	Mechanical	2
Rush Skeletonweed	Mechanical/Chemical	17
Russian Knapweed	Mechanical/Chemical	14
Scotch Broom	Mechanical/Chemical	6
Scotch Thistle	Mechanical/Chemical	3
Spotted Knapweed	Mechanical/Chemical	65
Yellow Starthistle	Mechanical/Chemical	5

Direct Marketing Report

Certified Farmers Markets

Local farmers' markets allow producers to sell their certified commodities directly to the public. There were 34 certified producers that were issued certificates in Nevada County in 2016. The following 9 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.

TUESDAY

Truckee (May 16-October 16)
10500 Brockway Rd8am-1pm
Grass Valley (May 2-November 21)
Nevada County Horsemen, Brunswick9am-1pm
Auburn (July 18-September 26)
Combie Plaza, 10556 Combie Road3pm-7pm

THURSDAY

Penn Valley (May 4-November 16)
Western Gateway Park9am-1pm
Auburn (June 20-September 28)
Combie Plaza, 10556 Combie Road3pm-7pm
Grass Valley (June 29-August 3)
Mill Street. 6pm-9pm

SATURDAY

Nevada City (June 3-November 18)
Union Street.8:30am-1pm
Grass Valley (April 15-November 18)
North Star House, Old Auburn Road8am-12:30pm

SUNDAY

Truckee (June 7-October 29)
12047 Donner Pass Road10am-2pm

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.

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 2016, 37 organic producers were registered with growing sites in Nevada County.



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

Hydrogen fuel is a zero-emission fuel when burned with oxygen, if one considers water not to be an emission. It often uses electrochemical cells, or combustion in internal engines, to power vehicles and electric devices.

The coordinated deployment of hydrogen stations across the state is providing the freedom to travel. Most stations are clustered in urban areas where driving a few miles can take 20 minutes. Stations in destination locations like Santa Barbara, Napa and Truckee mean weekend getaways with a fuel cell vehicle (FCV).



New public hydrogen dispenser in Truckee.

CNG	2
Domestic Water Submeters	1,044
Electric Submeters	1,396
Fabric, Cordage & Wire Meters	14
LPG Dispensers	67
Retail Motor Fuel Meters	857
Taxi Meters	13
Vapor Submeters	1,815
Vehicle Meters	18
Wholesale Meters	2
Total Measuring Devices	5,228

Computing Scales	240
Counter Scales	56
Dormant/Port Plat >=2,000 lbs	21
Hanging Scales	18
Hopper & Tank Scales	4
Livestock & Animal >=2,000 lbs	3
Misc. Weighing Devices	12
Prescription & Jewelers Scales	6
Vehicle Scales	11
Total Weighing Devices	371

Weights and Measures

Credit Card Skimmers

CDFA's Division of Measurement Standards (DMS), in cooperation with county weights and measures officials, helps protect consumers and businesses from payment card "skimmer" fraud.

DMS has also been working with the Sacramento Valley County Hi-Tech Crimes Task Force and the U.S. Secret Service to share information, provide training, and leverage our efforts to fight skimmer fraud. In addition, the State of California passed a law last year (AB 2307) that was signed by Governor Brown – requiring service agencies and service agents to report skimmers to law enforcement or to weights and measures authorities.

What are skimmers?

These are devices that are attached to any payment card (e.g., credit and debit card) reader that instantly steal the customer's card information. The most common locations are at ATM and fuel pumping stations. They not only steal the information on the card but some also interact with the keypads and record personal identification numbers (PINs) as they are entered.

Payment card skimmers are a nationwide threat that is often perpetrated by organized crime. There is no region nor community – rural or urban – that is safe from skimmers in any payment card transaction. Once skimmers are installed they're essentially invisible to the consumer and are really only detectable by personnel who are familiar with the technology and have occasion to look inside the gas pump or other device for inspections and repairs.

Check for Tampering

When you approach an ATM, check for obvious signs of tampering at the top of the ATM, near the speakers, the side of the screen, the card reader itself, and the keyboard. If something looks different, such as a different color or material, graphics that aren't aligned correctly, or anything else that doesn't look right, don't use that ATM. The same is true for credit card readers.

At the bank it's a good idea to quickly take a look at the ATM next to yours and compare them both. If there are any obvious differences, don't use either one, and report the suspicious tampering to the bank. For example, if one ATM has a flashing card entry to show where you should insert the ATM card and the other ATM has a plain reader slot, you know something is wrong. Since most skimmers are glued on top of the existing reader, they will obscure the flashing indicator.

If the keyboard doesn't feel right—too thick, perhaps—then there may be a PIN-snatching overlay, so don't use it.

Sample of voided security seal on a gas pump.

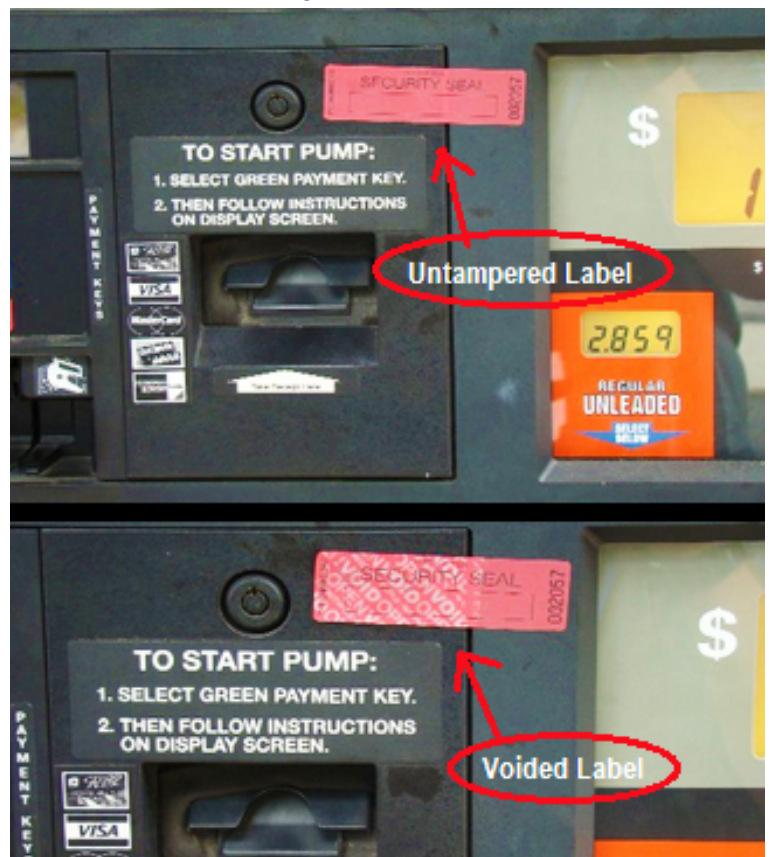
What can I do to protect myself?

- Pay inside instead of at the pump. It's less likely a skimmer has been installed inside the store.
- Use a credit card as credit cards have better fraud protection.
- Check to make sure the gas pump dispenser cabinet is closed and shows no signs of tampering.
- Choose the pump closest to the station's clerk. Thieves often place skimmers at pumps farther away from the store.
- Monitor bank and card accounts regularly to spot any unauthorized charges.

What else is being done about it?

The National Conference on Weights and Measures (NCWM) is getting the word out to measurement standards officials around the country and also training state and local agencies to check for the presence of scanners, and notify law enforcement when they find them.

Another helpful solution is on the horizon – 'chip readers,' a piece of technology that scans the encrypted code that is embedded within most credit cards and render scanners ineffective. The deadline to equip motor fuel dispensers – or "gas pumps" – with chip-reading devices is October 2020. Until then, its best to be cautious when using unsupervised card readers.



UC Cooperative Extension livestock and natural resources advisor Roger Ingram will retire June 30 after 31 years of efforts to sustain the ranchers and rangelands of Nevada and Placer counties.

Ingram joined Nevada County UCCE in 1986 after serving for three years as an extension agent with Texas A&M University, his alma mater. In 2007 Ingram also accepted the role of UCCE county director in Placer and Nevada counties.

The University of California has conferred on Ingram the honor of emeritus status. For the time being, he plans to stay in Placer County and will help with beginning farmer and small business planning programs.

In retirement, Ingram will work with his own sheep and Border Collie sheep dogs. He will also be training to walk all or part of the 500-mile-long Camino de Santiago (The Way of St. James) in Spain in 2018 or 2019. He said he will take time to travel and looks forward to watching lots of major league baseball games.



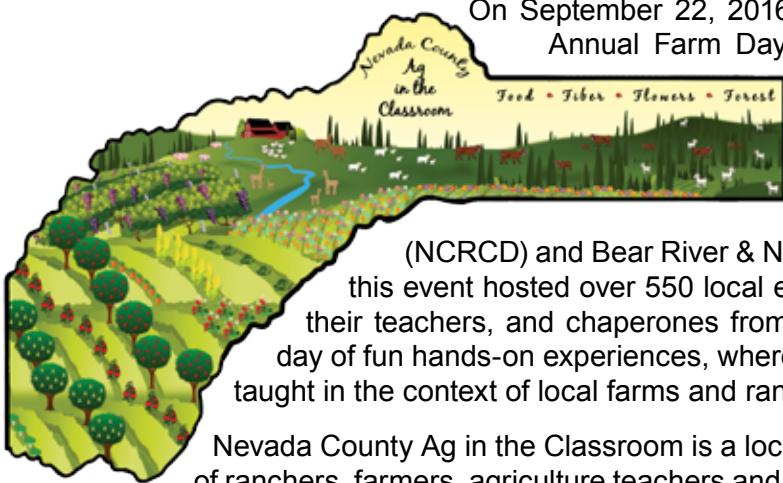
Dan Macon is the new UCCE Livestock and Natural Resources Advisor for Placer, Nevada, Yuba, and Sutter Counties as of July 1, 2017. He recently received his Master's Degree in Integrated Resource Management from Colorado State University. Dan holds a Bachelor's degree in Agricultural and Managerial Economics from UC Davis. He currently works as an Assistant Specialist in Rangeland Science and Management in the UC Davis Department of Plant Sciences. Dan Macon has lived in Placer County for over 20 years.

New Agricultural Commissioner Chris de Nijs joined Nevada County in April. He graduated from CSU, Chico with a degree in Agricultural Business. He has over ten years of experience with Northern California agricultural programs such as Pesticide Use Enforcement, Certified Farmer's Markets, Organics, and Nursery. Over the past ten years Chris has worked with Solano County, Contra Costa County, and Stanislaus County. Chris is an avid outdoorsman, and is excited to relocate to the area with his family.



Ag in the Classroom Farm Day - 2nd Annual!

On September 22, 2016, Nevada County Ag in the Classroom hosted their 2nd Annual Farm Day at the Nevada County Fairgrounds. With the support



of the Nevada County Fairgrounds CEO & staff, Nevada County Farm Bureau, Nevada County Resource District

(NCRCD) and Bear River & Nevada Union FFA students, this event hosted over 550 local elementary-grade students, their teachers, and chaperones from 11 different schools for a day of fun hands-on experiences, where lessons of agriculture are taught in the context of local farms and ranches.

Nevada County Ag in the Classroom is a local, grassroots collaboration of ranchers, farmers, agriculture teachers and students, businesses, food networks, and community volunteers who provide quality agriculture-related educational resources, programs, and training opportunities. The 25 stations that the students visited are hosted by Nevada County businesses, professional organizations, volunteers, and FFA students!



For more information or to get involved with future Farm Day events, contact NCRCD, 530-798-5529 or www.ncrcd.org.



**NEVADA COUNTY DEPARTMENT OF AGRICULTURE
AND WEIGHTS & MEASURES**

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