

GLENN COUNTY

2022 ANNUAL CROP & LIVESTOCK REPORT



CONTENTS



**01 AGRICULTURAL
COMMISSIONER'S LETTER**

02 FRUIT & NUT CROPS

03 FIELD CROPS

04 APIARY PRODUCTS

05 SEED CROPS

06 LIVESTOCK & POULTRY

**07 LIVESTOCK & POULTRY PRODUCTS
PASTURE & RANGELAND**

**08 NURSERY PRODUCTS &
VEGETABLE CROPS**

**09 TOP 10 COMMODITIES &
TOTAL VALUES**

**10 A LOOK BACK IN TIME
1972-2022**

11 EXPORTS BY COUNTRY

**12 PEST EXCLUSION &
ERADICATION**

**13 ANNUAL RAINFALL
1922-2022**



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Mirna Albarran-Jack,
Ivan Leal, Carli Marengo,
Peyton Massa, Garrett Peters,
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Pakou Cha, Alyssa Cordova,
Ian Ledbetter, Gerald Peters,
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Jennifer Brown,
Lisa Gomez, Jennifer Kline,
Lisa Jones

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COUNTY OF GLENN DEPARTMENT OF FOOD AND AGRICULTURE

720 N. Colusa Street, Willows, CA 95988 Ph (530) 934-6501 Fax (530) 934-6503

<https://www.countyofglenn.net/dept/agriculture/welcome>

September 15, 2023

Enclosed is the 2022 Annual Crop and Livestock Report for Glenn County, in accordance with Section 2279 and 2272 of the California Food and Agriculture Code.

Agriculture continues to stand as the top industry within the county. The gross production value of agricultural commodities for the year 2022 amounted to \$581,950,000. This reflects a notable 28% reduction compared to the gross agricultural production value of \$808,720,000 recorded in the previous year, 2021.

Almonds maintain their prominent position as the top commodity in Glenn County, commanding a value of \$105,925,000. However, this figure marks a substantial 54% decline from the 2021 total, primarily attributable to a 52% decrease in yield compared to the previous year. Dairy milk secures the second spot, with a value of \$94,512,000, reflecting a notable 37% increase from the 2021 reported figures. Rice, on the other hand, slips to third place, registering a value of \$76,606,000, representing a significant 51% decrease from the previous year's report. When considering the combined values of almonds, dairy milk, and rice, they collectively contribute 48% to the overall commodity value for the year 2022.

Additionally, rice acreage dropped 65% from last year's report, walnut price per ton decreased 41% from last year's report and table olive yields decreased by 64% from last year's report. At the end of this report, a detailed explanation on this incredibly tumultuous year is included.

The figures presented in this report represent gross receipts received by growers and should not be misconstrued as reflecting their net income. These values do not encompass the varied costs associated with production, marketing, or transportation.

I would like to extend my sincere appreciation to all the individuals, related agencies, and members of the agricultural industry who collaborated and provided valuable assistance in the development of this report. Their collective efforts were instrumental in its development. In particular, I would like to express my gratitude to Mirna Albarran-Jack for her pivotal role in this project. Mirna's dedication in requesting grower data, collecting values, designing the report, and overseeing the compilation of the 2022 Glenn County Crop & Livestock Report has been truly commendable.

Respectfully submitted,

Marcie Skelton
Glenn County Agricultural Commissioner/Sealer of Weights & Measures

FRUIT & NUT CROPS

Commodity	Year	Bearing Acreage	Yield Per Acre	Total	Unit	\$ Per Unit	Total Value
Almond	2022	68,750	0.51	35,063	Meat	\$3,021	\$105,925,000
	2021	64,484	0.99	63,839	Ton	\$3,599	\$229,757,000
Almond Hull	2022			43,829	Ton	\$245	\$10,738,000
	2021			79,799		\$135	\$10,773,000
Olive, Oil	2022	4,985	2.01	10,020	Ton	\$759	\$7,605,000
	2021	4,223	3.08	13,007		\$712	\$9,261,000
Olive, Table	2022	3,819	1.88	7,180	Ton	\$1,122	\$8,056,000
	2021	3,882	5.25	20,381		\$1,081	\$22,032,000
Pecan	2022	692	1.04	720	Ton	\$3,682	\$2,651,000
	2021	692	1.25	865		\$3,400	\$2,941,000
Pistachio	2022	2,590	1.54	3,989	In-shell	\$3,997	\$15,944,000
	2021	2,124	1.33	2,825	Ton	\$3,815	\$10,777,000
Prune	2022	3,303	2.12	7,002	Dry	\$2,059	\$14,417,000
	2021	3,303	2.45	8,092	Ton	\$1,319	\$10,673,000
Walnut	2022	41,700	1.94	80,898	Ton	\$831	\$67,226,000
	2021	41,197	1.95	80,334		\$1,402	\$112,628,000
Miscellaneous	2022	373	Includes: Asian Pear, Blueberry, Boysenberry, Cherry, Citrus, Grape, Kiwifruit, Pomegranates, Persimmon, and Peach				\$3,348,000
	2021	338					\$4,106,000
TOTALS	2022	126,212					\$235,910,000
	2021	120,243					\$412,948,000

FIELD CROPS

Commodity	Year	Bearing Acreage	Yield Per Acre	Total	Unit	\$ Per Unit	Total Value
Alfalfa	2022	8,929	6.71	59,914	Ton	\$330	\$19,772,000
	2021	7,748	7.12	55,166		\$230	\$12,688,000
Bean	2022	362	1.30	471	Ton	\$1,009	\$475,000
	2021	575	1.10	633		\$1,069	\$677,000
Corn, Fodder	2022	5,259	6.05	31,817	Ton	\$269	\$8,559,000
	2021	9,859	6.55	64,576		\$240	\$15,498,000
Corn, Silage	2022	566	25.30	14,320	Ton	\$72	\$1,031,000
	2021	518	23.05	11,940		\$59	\$704,000
Cotton, Lint	2022	1,510	3.00	4,530	Bale	\$350	\$1,586,000
	2021	1,898	3.00	5,694		\$350	\$1,993,000
Cotton, Seed	2022			1,888	Ton		\$755,000
	2021			2,475			\$990,000
Hay, Other	2022	1,553	4.09	6,352	Ton	\$291	\$1,848,000
	2021	2,408	3.98	9,584		\$186	\$1,783,000
Oats, Fodder	2022	3,989	3.25	12,964	Ton	\$190	\$2,463,000
	2021	4,621	3.04	14,048		\$141	\$1,981,000
Rice	2022	21,492	4.93	105,956	Ton	\$723	\$76,606,000
	2021	61,120	5.26	321,491		\$483	\$155,280,000
Wheat	2022	6,638	3.52	23,366	Ton	\$305	\$7,127,000
	2021	7,807	3.98	31,072		\$190	\$5,904,000
Wheat, Silage	2022	3,657	10.00	36,570	Ton	\$35	\$1,280,000
	2021	5,205	10.00	52,050		\$35	\$1,822,000
Miscellaneous	2022	5,327	Includes: Organic Corn, Organic Rice, Barley, Safflower, Straw, Sudan Grass, and Sorghum				\$3,205,000
	2021	8,348					\$3,218,000
TOTALS	2022	59,282					\$124,707,000
	2021	110,107					\$202,538,000

APIARY PRODUCTS

Commodity	Year	Total	Unit	\$ Per Unit	Total Value
Packaged Bees	2022	138,330	Pound, w/o Queen	\$37.10	\$5,132,000
	2021	120,435		\$37.50	\$4,516,000
Pollination	2022	Includes: Almond, Prune, Sunflower, and Vine Seed			\$27,708,000
	2021				\$29,832,000
Queen Bees	2022	391,200	Each	\$25.60	\$10,015,000
	2021	379,711		\$24.00	\$9,113,000
Miscellaneous	2022				\$155,000
	2021	Includes: Beeswax and Honey			\$150,000
TOTALS	2022				\$43,010,000
	2021				\$43,611,000

SEED CROPS

Commodity	Year	Bearing Acreage	Yield Per Acre	Total	Unit	\$ Per Unit	Total Value
Rice	2022	2,717	9,860	26,789,620	Pound	\$0.42	\$11,252,000
	2021	2,550	10,520	26,826,000		\$0.29	\$7,780,000
Sunflowers	2022	2,182	1,850	4,036,700	Pound	\$1.72	\$6,943,000
	2021	2,691	841	2,263,131		\$1.46	\$3,304,000
Vine Seeds	2022	691	Includes: Cucumber, Melon, Pumpkin, Squash and Watermelon				\$9,567,000
	2021	1,380					\$16,696,000
Other Seeds	2022	439	Includes: Bean, Coriander, Kale, Onion, and Radish				\$1,071,000
	2021	587					\$1,907,000
TOTALS	2022	6,029					\$28,833,000
	2021	7,208					\$29,687,000

LIVESTOCK & POULTRY

Commodity	Year	# of Head Sold	Total Live Weight (cwt)	Value/cwt	Total Value
Calves	2022	4,158	22,869	\$164	\$3,751,000
	2021	4,104	22,572	\$137	\$3,092,000
Feeders	2022	9,702	67,914	\$148	\$10,051,000
	2021	9,576	67,032	\$122	\$8,178,000
Cows and Bulls	2022	2,971	41,594	\$68	\$2,828,000
	2021	2,969	41,564	\$60	\$2,494,000
Dairy Cattle	2022				\$23,925,000
	2021				\$20,250,000
Sheep and Lamb	2022	5,350	Head	\$208	\$1,113,000
	2021	5,250		\$210	\$1,103,000
Hogs and Pigs	2022	550	Head	\$167	\$92,000
	2021	550		\$106	\$58,000
Miscellaneous	2022	Includes: Goats, Chickens, and Unspecified Game Birds			\$972,000
	2021				\$1,194,000
TOTALS	2022				\$42,732,000
	2021				\$36,369,000

LIVESTOCK & POULTRY PRODUCTS

Commodity	Year	Total	Unit	\$ Per Unit	Total Value
Milk: All	2022	3,580,000	Cwt	\$26.40	\$94,512,000
	2021	3,590,000		\$19.20	\$68,928,000
Wool	2022	31,565	Pound	\$1.40	\$44,000
	2021	28,350		\$2.15	\$61,000
Miscellaneous	2022	Includes: Goat Milk and Eggs			\$1,901,000
	2021				\$1,817,000
TOTALS	2022				\$96,457,000
	2021				\$70,806,000

PASTURE & RANGE

Commodity	Year	Production	Unit	\$ Per Unit	Total Value
Pasture, Irrigated	2022	7,811	Acre	\$275	\$2,148,000
	2021	9,527		\$265	\$2,525,000
Rangeland	2022	203,110	Acre	\$12.50	\$2,539,000
	2021	213,110		\$12.50	\$2,664,000
TOTALS	2022	210,921			\$4,687,000
	2021	222,637			\$5,189,000

NURSERY PRODUCTS











Commodity	Year	Bearing Acreage	Total Value
Retail Nursery	2022	136	\$2,453,000
Plants, and Sod	2021	136	\$2,374,000

VEGETABLE CROPS

Commodity	Year	Acreage	Per Acre	Total	Unit	\$ Per Unit	Total Value
Tomatoes, Processing	2022	800	41.1	32,880	Ton	\$89	\$2,926,000
	2021	1,290	46.40	59,856		\$83	\$4,968,000
Miscellaneous	2022	50	Includes: Farmers' Market Gardens, Pumpkins, Roadside Stands, and Strawberries				\$235,000
	2021	50				\$230,000	
TOTALS	2022	850					\$3,161,000
	2021	1,340					\$5,198,000



TOP 10 LEADING COMMODITIES

<u>Commodity</u>	<u>2022 Value</u>
 Almonds	\$105,925,000
 Dairy, Total Milk	\$94,512,000
 Rice	\$76,606,000
 Walnut	\$67,226,000
 Apiary Products	\$43,010,000
 Dairy Cattle	\$23,925,000
 Alfalfa	\$19,772,000
 Beef Cattle	\$16,630,000
 Pistachio	\$15,944,000
 Prunes	\$14,417,000

TOTAL VALUE OF AG PRODUCTION

Product	2021	2022
Fruit and Nut Crops	\$412,948,000	\$235,910,000
Field Crops	\$202,538,000	\$124,707,000
Apiary Products	\$43,611,000	\$43,010,000
Seed Crops	\$29,687,000	\$28,833,000
Livestock and Poultry	\$36,369,000	\$42,732,000
Livestock and Poultry Products	\$70,806,000	\$96,457,000
Pasture and Rangeland	\$5,189,000	\$4,687,000
Nursery Products	\$2,374,000	\$2,453,000
Vegetable Crops	\$5,198,000	\$3,161,000
Total Agricultural Value	\$808,720,000	\$581,950,000
Christmas Trees	\$13,000	\$15,000
Timber	\$7,000	\$0
Total Timber Value	\$20,000	\$15,000
Grand Total	\$808,740,000	\$581,965,000

A LOOK BACK IN TIME

Commodity	1972 Total Production	2022 Total Production	1972 Total Value	2022 Total Value
Alfalfa	133,000 tons (19,800 acres)	59,914 tons (8,929 acres)	\$4,522,000	\$19,772,000
Barley	11,800 tons (14,800 acres)	(419 acres)	\$620,000	\$57,000
Beans	931 tons (1,330 acres)	471 tons (362 acres)	\$299,000	\$475,000
Corn, Fodder	18,000 tons (6,300 acres)	31,817 tons (5,259 acres)	\$990,000	\$8,559,000
Corn, Silage	48,400 tons (2,200 acres)	14,320 tons (566 acres)	\$436,000	\$1,031,000
Cotton, Lint	*	4,530 bales (1,510 acres)	*	\$1,586,000
Cotton, Seed	*	1,888 Tons	*	\$755,000
Hay, Other	6,000 tons (4,000 acres)	6,352 tons (1,553 acres)	\$156,000	\$1,848,000
Oats, Fodder	*	12,964 tons (3,989 acres)	*	\$2,463,000
Rice, Paddy	128,000 tons (45,000 acres)	105,956 tons (21,492 acres)	\$16,128,000	\$76,606,000
Sugar Beets	121,000 tons (4,950 acres)	*	\$1,803,000	*
Wheat	29,900 lbs. (18,800 acres)	23,366 tons (6,638 acres)	\$1,540,000	\$7,127,000
Wheat, Silage	*	36,570 tons (3,657 acres)	*	\$1,280,000
Tomatoes, Processing	*	32,880 tons (800 acres)	*	\$2,926,000
Almond	3,280 tons (5,752 acres)	35,063 tons (68,750 acres)	\$2,188,000	\$105,925,000
Almond Hull	*	43,829 Tons	*	\$10,738,000
Oranges	3,420 tons (2,096 acres)	*	\$448,000	*
Olives, Oil	*	10,020 tons (4,985 acres)	*	\$7,605,000
Olives, Table	2,690 tons (1,263 acres)	7,180 tons (3,819 acres)	\$974,000	\$8,056,000
Pecan	*	720 tons (692 acres)	*	\$2,651,000
Pistachio	*	3,989 In-shell tons (2,590 acres)	*	\$15,944,000
Prune (dry)	4,940 tons (4,187 acres)	7,002 tons (3,303 acres)	\$2,223,000	\$14,417,000
Walnut	2,150 tons (3,259 acres)	80,898 tons (41,700 acres)	\$1,064,000	\$67,226,000
Packaged Bees	114,000 lbs.	138,330 lbs.	\$193,000	\$5,132,000
Pollination	*	*	\$58,700	\$27,708,000
Queen Bees	65,800 each	391,200 Each	\$100,000	\$10,015,000
Alfalfa Seed	299,000 lbs. (822 acres)	*	\$121,000	*
Ladino Clover	885,000 lbs. (3,000 acres)	*	\$565,000	*
Rice (seed)	*	26,789,620 lbs. (2,717 acres)	*	\$11,252,000
Sunflower seed	*	4,036,700 lbs. (2,182 acres)	*	\$6,943,000
Vine seed	*	(691 acres)	*	\$9,567,000
Other seed	177 acres	(439 acres)	\$42,000	\$1,071,000
Calves	see Livestock and Poultry	4,158 Head	*	\$3,751,000
Feeders	see Livestock and Poultry	9,702 Head	*	\$10,051,000
Cull Cows & Bulls	see Livestock and Poultry	2,971 Head	*	\$2,828,000
Dairy Cattle	*	15,000 Head	*	\$23,925,000
Sheep and Lamb	73,300 head	5,350 Head	\$1,989,000	\$1,113,000
Hogs and Pigs	9,300 head	550 Head	\$354,000	\$92,000
Misc. Livestock (Goats/Chickens/)	*	*	\$15,000	\$972,000
Milk, All	1,302,000 cwt.	3,580,000 cwt.	\$6,913,000	\$94,512,000
Wool	654,000 lbs.	31,565 lbs.	\$222,000	\$44,000
Pasture, Irrigated	36,000 acres	7,811 Acres	\$1,548,000	\$2,148,000
Rangeland	141,000 acres	203,110 Acres	\$494,000	\$2,539,000
Nursery	122 acres	136 Acres	\$524,000	\$2,453,000
Year Total**			\$53,387,600	\$581,950,000

*No correlating values between 1972 and 2022

**Totals will not add to above values listed

Current and past Crop Reports dating back to 1910 can be found at:

<https://www.countyofglenn.net/dept/agriculture/agricultureweights-measures/agriculture-programs/crop-report-statistics>

EXPORTS BY COUNTRY

In 2022, the Glenn County Department of Agriculture issued 4,014 USDA Phytosanitary Certificates for products exported to 65 countries. Products exported included shelled and in-shell nuts (almonds and walnuts), rice, animal feed, and various seeds for propagation.



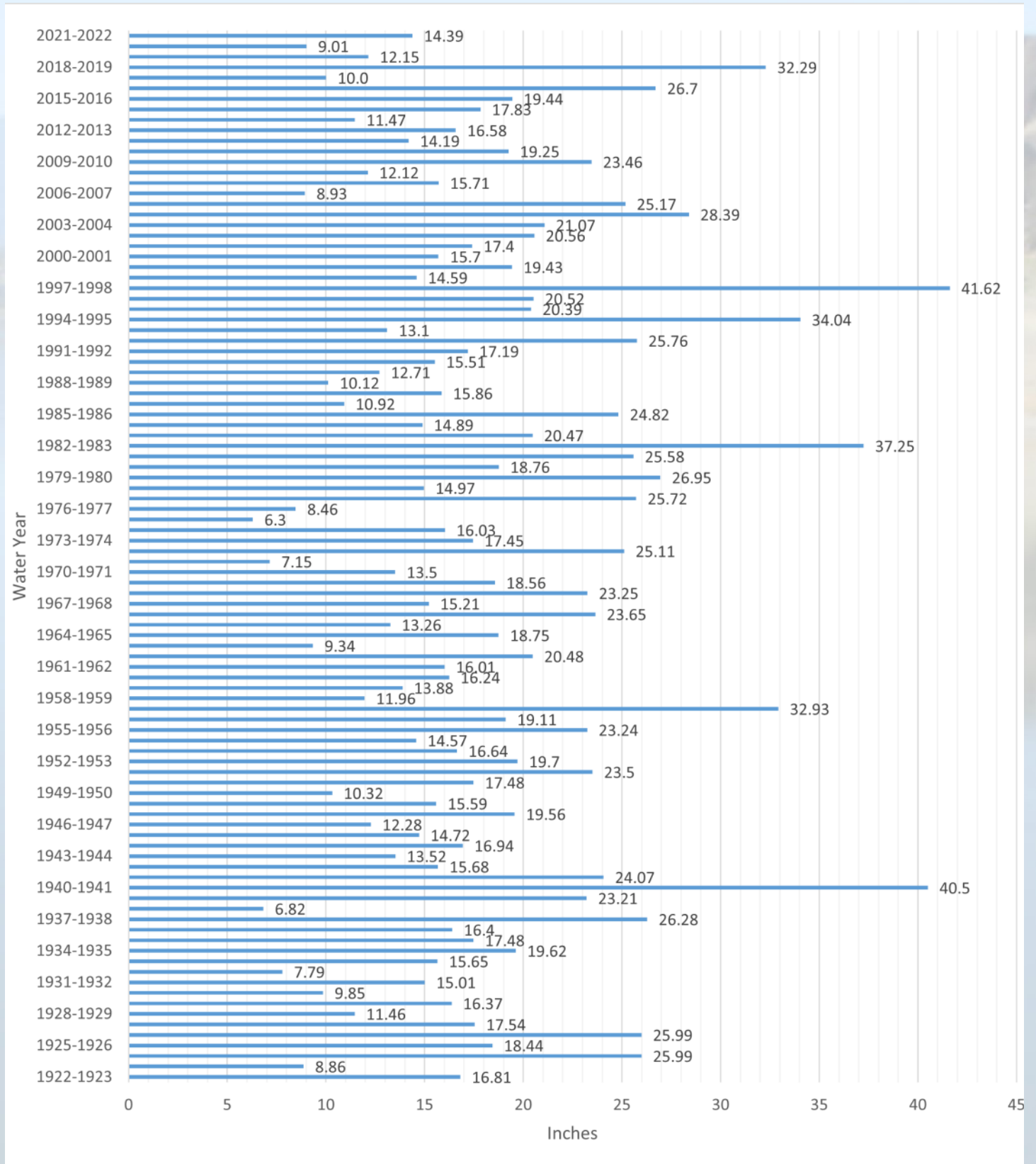
PEST EXCLUSION

Terminal Inspections	Shipments Inspected	Rejections
Postal	0	0
Truck	14	0
Other	10	0

PEST ERADICATION

Pest	Scientific Name	Control Agent	Locations
Canada Thistle	<i>Cirsium arvense</i>	Mechanical	1
Dyer's Woad	<i>Isatis tinctorial</i>	Chemical/Mechanical	1
Perennial Pepperweed	<i>Lepidium latifolium</i>	Chemical/Mechanical	32
Plumeless Thistle	<i>Carduus acanthoides</i>	Mechanical	3
Russian Knapweed	<i>Acroptilon repens</i>	Chemical	2
Silverleaf Nightshade	<i>Solanum elaeagnifolium</i>	Chemical/Mechanical	11
Hoary Cress	<i>Cardaria draba</i>	Chemical/Mechanical	2
Purple Starthistle	<i>Centaurea calcitrapa</i>	Chemical/Mechanical	5
Diffuse Knapweed	<i>Centaurea diffusa</i>	Chemical/Mechanical	1
Klamath Weed	<i>Hypericum perforatum</i>	Chemical/Mechanical	4
Tree of Heaven	<i>Ailanthus altissima</i>	Chemical/Mechanical	2

GLENN COUNTY YEARLY RAINFALL 1922-2022



Total rainfall recorded Oct. 1st through Sept. 30th.

The 100 year average of rainfall is 18.17 inches per year; 2021-2022 recorded 14.39 inches.

*Data obtained from the California Nevada River Forecast Center, as recorded at the Orland location.

A RECOUNT OF 2022 AND THE IMPACTS FELT BY AGRICULTURE IN GLENN COUNTY

For historical reference, this additional information is included to help explain the difficult year that Glenn County's agricultural industry experienced. Occurrences with significant impacts to Glenn County agriculture are illustrated below.

The year began in a drought status, as in the two previous years. On February 24, 2022, there were sustained freezing temperatures ranging between 23.1 - 29.8° F from 1:00am until 7:00am. The almond trees had bloomed by this date, pollination was complete, and nutlets were beginning to form. Frost protection was used as available, but many growers reported the temperatures were too cold, for too long for the frost protection to work. It was predicted that 60% loss would occur, the reported loss reflected in this report is a 52% decrease in yield.

During the week of April 11, 2022, Glenn County experienced sustained morning temperatures ranging from 31.6 - 31.96° F. Growers feared losses in walnuts, olives (table and oil), cherries and boysenberries. Most significantly, table olive production was reduced by 64% from the previous year. These freeze events met the criteria for a disaster declaration and this request was sent to the California Governor's Office of Emergency Services.

The biggest impact of the year was the drop in planted rice acres due to significant irrigation reductions occurring from irrigation districts who source from the Sacramento River. The Bureau of Reclamation, announced late winter 2022, water would be curtailed due to the historically low level of Lake Shasta. Growers were given very tough options to review as they entered, what would normally be, their spring planting season. Some growers chose to retain their small water allocations for their permanent crops, sell to neighbors or back to the water district. Regardless of the choice made, the result was a landscape like many have not experienced before. With an approximate 40,000-acre reduction of planted rice in 2022, the entire county felt the impacts. Rice grown was largely planted east of the Sacramento River, where irrigation is primarily sourced from Lake Oroville and was not curtailed. Some ground west of the Sacramento River was planted and watered using wells; there were many accounts of these fields requiring much more water than normal, due to the surrounding dry conditions.

In their paper titled, "Continued Drought in 2022 Ravages California's Sacramento Valley Economy", Daniel Sumner and William Matthews, of the Department of Agriculture & Resource Economics, at UC, Davis, summarized the possible effects the regional drought related rice impacts will have on Butte, Colusa, Glenn, Placer, Sacramento, Sutter, Tehama, Yolo, and Yuba counties. A few excerpts from their report are included below:

- "The drought in 2022 is likely to reduce the direct farm and ranch value output in the Sacramento Valley by about \$950 million. The losses will cost the Sacramento Valley about 5,000 direct on farm jobs and reduce the value added generated from farming and ranching by about \$560 million."
- "A fuller accounting, however, takes account of the impact of lost farm production including on farm processing, marketing, transport, and related downstream implications."
- "Projecting the 2022 drought impacts to on farm production are likely to cause a loss of about 14,300 jobs and a loss of about \$1.315 billion in economic contribution in the Sacramento Valley."

While walnut yields remained consistent with the previous year, the quality of the harvested nuts was affected by a pre-harvest heatwave, followed by early rains during the harvest season. The issues were discovered during the harvest, drying, and grading processes; many of the walnut meats were moldy, shriveled, and a much darker grade than is desirable. This, along with market impacts, resulted in the prices dropping significantly for walnut producers.

As the year closed, significant rainfall was starting to occur, giving strong signs the drought could be ending.

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