
2020 CROP & LIVESTOCK REPORT



MADERA COUNTY DEPARTMENT OF AGRICULTURE



Madera County Department of Agriculture Weights and Measures

Rusty Lantsberger, Agricultural Commissioner
Sealer of Weights and Measures

Karen Ross, Secretary
California Department of Food and Agriculture

and

The Honorable Board of Supervisors
County of Madera, California

Robert L. Poythress	Chairman, District 3
Brett Frazier	District 1
David Rogers	District 2
Leticia Gonzalez	District 4
Tom Wheeler	District 5

It is my pleasure to present the 2020 Madera County Agricultural Crop and Livestock Report. This annual statistical report is compiled in accordance with Sections 2272 and 2279 of the California Food and Agriculture Code, and contains data on the acreage, yield, and values of Madera County agricultural commodities. The values in this report are gross values, and do not represent net income or loss to producers.

For 2020, the gross value of all production was \$1,949,532,000; this is a decrease of \$52,033,000 or 2.6% as compared to 2019 production. This decrease can be attributed to the COVID 19 pandemic, ongoing drought conditions, water deliveries, labor shortages, export markets, and decreased commodity values. Madera County is ranked 10th among the fifty-eight California counties in total agricultural production.

Crop values can vary from year to year due to the variables of production, market and weather conditions. Almond (nut meats & hulls) retained the number 1 rank of the ten leading crops. Milk retained the number 2 rank, while pistachios moved up to the number 3 rank, dropping grapes to the number 4 rank. Figs moved into the number 7 rank and was not in the top ten in 2019.

I wish to extend my appreciation to our Madera County farmers, ranchers, agricultural industries, and agencies. Without their efforts and contributions of information, this report would not be possible. I would like to express my thanks to my staff that contributed to compiling and preparing this report, especially to Senior Agricultural and Standards Inspector Cha Vang and his dedication to producing the annual report.

To view the 2020 Madera County Agricultural and Livestock Report, and previous reports going back to the 1920's please visit our website online at: <https://www.maderacounty.com/government/agricultural-commissioner-weights-and-measures/annual-crop-reports>

Respectfully submitted,

Rusty Lantsberger
Agriculture Commissioner/Sealer of Weights and Measures

Front Cover Photo Credit: Ranbir Grewal



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Steve Monk, Administrative Analyst II

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Mary Arias, Program Assistant I

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TEN LEADING CROPS MADERA COUNTY 2020

Commodity	2020 Rank	2020 Dollar Value	2019 Rank
Almonds, Nuts & Hulls	1	\$689,402,000	1
Milk	2	\$317,874,000	2
Pistachios	3	\$285,409,000	4
Grapes	4	\$221,032,000	3
Pollination	5	\$65,190,000	6
Cattle & Calves	6	\$41,443,000	5
Figs, All *	7	\$31,115,000	**
Replacement Heifers	8	\$30,096,000	7
Nursery Stock	9	\$27,874,000	8
Corn Silage	10	\$24,198,000	9

* Not in 2019 Top Ten **10. Poultry

Madera County's Million Dollar

Crops: 1970 and 2020

Year: 1970; Total Ag Value: \$90,778,000

Grapes	\$ 20,638,000
Cattle & Calves	15,624,000
Alfalfa	8,978,000
Milk	7,864,000
Cotton	7,670,000
Turkeys	5,782,000
Peaches	2,606,000
Pasture	2,052,000
Almonds	1,870,000
Corn	1,769,000
Broilers & Fryers	1,768,000
Barley	1,275,000
Nursery Stock	1,105,000
Potatoes	1,055,000

Year: 2020; Total Ag Value: \$1,949,532,000

Almonds, Nuts & Hulls	\$ 689,402,000
Milk	317,874,000
Pistachios	285,409,000
Grapes	221,032,000
Pollination	65,190,000
Cattle & Calves	41,443,000
Figs, All	31,115,000
Replacement Heifers	30,096,000
Nursery Stock	27,874,000
Corn Silage	24,198,000
Poultry	21,373,000
Tomatoes, Fresh & Processed	18,394,000
Oranges	16,637,000
Wheat, Silage & Grain	15,623,000
Alfalfa	14,251,000
Rangeland	9,675,000
Walnuts	7,789,000
Peaches	6,021,000
Plums, Dried	5,847,000
Cherries	4,994,000
Honey	1,753,000
Olives, Fresh & Oil	1,411,000
Oat Hay	1,153,000

FIELD CROPS

PRODUCTION

VALUE

Item	Year	Harvested Acres	Per Acre	Total	Unit	Per Unit	Total
Alfalfa							
Hay	2020	8,900	6.81	60,609	Ton	\$215.00	\$13,031,000
	2019	8,800	7.27	63,976	Ton	222.00	14,203,000
Silage ^a	2020			23,017	Ton	53.00	1,220,000
	2019			25,309	Ton	65.00	1,645,000
Total	2020	8,900					14,251,000
	2019	8,800					15,848,000
Corn							
Silage	2020	17,500	26.09	456,575	Ton	53.00	24,198,000
	2019	18,000	27.91	502,380	Ton	53.00	26,626,000
Cotton							
Lint	2020	440	1,288 ^b	1,133	Bale ^c	1.18 ^d	669,000
	2019	940	1,411 ^b	2,653	Bale ^c	1.05 ^d	1,393,000
Seed	2020			472	Ton	325.00	153,000
	2019			1,106	Ton	285.00	315,000
Total	2020	440					822,000
	2019	940					1,708,000
Oat							
Hay	2020	3,000	3.15	9,450	Ton	122.00	1,153,000
	2019	3,500	2.45	8,575	Ton	129.00	1,106,000
Pasture							
Irrigated	2020	510			Acre	120.00	61,000
	2019	510			Acre	100.00	51,000
Rangeland	2020	387,000			Acre	25.00	9,675,000
	2019	387,000			Acre	22.00	8,514,000

a/ Alfalfa acreage yields both hay and silage

b/ Pounds

c/ Bale: 500 pounds

d/ Price per pound

FIELD CROPS

PRODUCTION

VALUE

Item	Year	Harvested Acres	Per Acre	Total	Unit	Per Unit	Total
Wheat							
Grain	2020	1,900	3.06	5,814	Ton	\$206.00	\$1,198,000
	2019	1,800	3.38	6,084	Ton	209.00	1,272,000
Silage	2020	20,300	16.15	327,845	Ton	44.00	14,425,000
	2019	21,400	16.34	349,676	Ton	37.00	12,938,000
Total	2020	22,200					15,623,000
	2019	23,200					14,210,000
Winter Forage	2020	1,800	13.91	25,038	Ton	32.00	801,000
	2019	2,000	11.16	22,320	Ton	32.00	714,000
Miscellaneous ^e	2020	5,600					3,720,000
	2019	4,700					4,244,000
TOTAL	2020	446,950					\$70,304,000
	2019	448,650					73,021,000

e/ Includes grain corn, dried beans, industrial hemp, oats, ryegrass hay & silage, sorghum/milo silage, seed crops, sudangrass hay & silage, wheat hay, field and stubble straw.

VEGETABLE CROPS

PRODUCTION

VALUE

Item	Year	Harvested Acres	Per Acre	Total	Unit	Per Unit	Total
Tomatoes							
Fresh	2020	500	21.00	10,500	Ton	\$463.00	\$4,862,000
	2019	600	25.50	15,300	Ton	474.00	7,252,000
Processed	2020	3,400	52.37	178,058	Ton	76.00	13,532,000
	2019	4,300	49.89	214,527	Ton	77.00	16,519,000
Total	2020	3,900					18,394,000
	2019	4,900					23,771,000
Miscellaneous ^a	2020	800					4,655,000
	2019	830					5,614,000
TOTAL	2020	4,700					\$23,049,000
	2019	5,730					29,385,000

a/ Includes all cabbage, garlic, herbs, melons, onions, all peppers, potatoes, all squash and miscellaneous truck crops

FRUIT & NUT CROPS

PRODUCTION

VALUE

Item	Year	Harvested Acres	Per Acre	Total	Unit	Per Unit	Total
Almonds ^a	2020	157,000	1.21	189,970 ^b	Ton	\$3,482.00	\$661,476,000
	2019	149,000	1.12	166,880 ^b	Ton	4,821.00	804,528,000
Almond Hulls	2020			372,341	Ton	75.00	27,926,000
	2019			327,085	Ton	90.00	29,438,000
Cherries	2020	430	2.39	1,028	Ton	4,858.00	4,994,000
	2019	390	1.79	698	Ton	4,423.00	3,087,000
Figs, All	2020	5,000	2.16	10,800	Ton	2,881.00	31,115,000
	2019	4,500	1.25	5,625	Ton	2,503.00	14,079,000
Grapes							
Raisin Varieties							
Crushed	2020	2,200	7.22	15,884	Ton	266.00	4,225,000
	2019	2,300	8.38	19,274	Ton	212.00	4,086,000
Dried	2020	18,200	2.11	38,402	Ton	1,162.00	44,623,000
	2019	19,300	2.56	49,408	Ton	1,626.00	80,337,000
Fresh	2020	400	6.96	2,784	Ton	1,292.00	3,597,000
	2019	500	11.50	5,750	Ton	1,482.00	8,522,000
Table Varieties	2020	1,800	9.26	16,668	Ton	1,949.00	32,486,000
	2019	2,100	11.08	23,268	Ton	1,902.00	44,256,000
Wine Varieties^c							
Red	2020	20,600	10.61	218,566	Ton	364.00	79,558,000
	2019	21,500	10.00	215,000	Ton	368.00	79,120,000
White	2020	12,400	13.86	171,864	Ton	329.00	56,543,000
	2019	12,600	13.43	169,218	Ton	304.00	51,442,000
Total Grapes	2020	55,600					221,032,000
	2019	58,300					267,763,000
Olives, Fresh & Oil	2020	540	2.86	1,544	Ton	914.00	1,411,000
	2019	660	3.23	2,132	Ton	865.00	1,844,000

a/ Meat basis

b/ Reflects total production, including imperfect stock; price weighted accordingly

c/ Includes table grape crushed

FRUIT & NUT CROPS

PRODUCTION

VALUE

Item	Year	PRODUCTION		VALUE			
		Harvested Acres	Per Acre	Total	Unit	Per Unit	Total
Oranges	2020	2,400	13.46	32,304	Ton	\$515.00	\$16,637,000
	2019	2,200	14.22	31,284	Ton	648.00	20,272,000
Peaches							
Clingstone	2020	450	18.13	8,159	Ton	488.00	3,982,000
	2019	320	17.67	5,654	Ton	500.00	2,827,000
Freestone	2020	240	17.13	4,111	Ton	496.00	2,039,000
	2019	350	15.95	5,583	Ton	454.00	2,535,000
Total	2020	690					6,021,000
	2019	670					5,362,000
Pistachios	2020	47,600	1.43	68,068 ^b	Ton	4,193.00	285,409,000
	2019	41,800	1.05	43,890 ^b	Ton	4,367.00	191,668,000
Plums, Dried	2020	900	3.38	3,042	Ton	1,922.00	5,847,000
	2019	1,000	3.99	3,990	Ton	2,071.00	8,263,000
Walnuts	2020	2,800	1.65	4,620	Ton	1,686.00	7,789,000
	2019	2,500	1.39	3,475	Ton	1,994.00	6,929,000
Miscellaneous							
Fruits & Nuts ^d	2020	8,200					71,445,000
	2019	8,200					65,086,000
Orchard	2020			4,500	Cord ^e		923,000
Firewood	2019			5,000	Cord ^e		875,000
TOTAL	2020	281,160					\$1,342,026,000
	2019	269,220					1,419,194,000

b/ Reflects total production, including imperfect stock; price weighted accordingly

d/ Includes berries, canning grapes, grapefruit, kiwifruit, pears, pecans, persimmons, plums, pomegranates, tangelos, tangerines, almond and walnut shells

e/ Cord: 128 Cubic feet

APIARY PRODUCTS

PRODUCTION

VALUE

Item	Year	Total	Unit	Per Unit	Total
Apiary Products					
Beeswax	2020	29,000	Pound	\$3.22	\$93,000
	2019	19,112	Pound	3.40	65,000
Honey	2020	808,000	Pound	2.17	1,753,000
	2019	403,159	Pound	2.40	968,000
Pollination	2020	318,000	Colony	205.00	65,190,000
	2019	302,000	Colony	190.00	57,380,000
TOTAL	2020				\$67,036,000
	2019				58,413,000

FOREST PRODUCTS

PRODUCTION

VALUE

Item	Year	Production	Unit	Total
Timber	2020	6,838	MBF ^a	\$416,000
	2019	14,400	MBF ^a	948,000
Firewood ^b	2020	24,700	Cord ^c	993,000
	2019	23,000	Cord ^c	828,000
TOTAL	2020			\$1,409,000
	2019			1,776,000

a/ MBF: Thousand board feet

b/ Includes: Christmas trees, greenery, pinecones and saw logs

c/ Cord: 128 Cubic feet

NURSERY PRODUCTS

PRODUCTION

VALUE

Item	Year	Field Acres	House Sq. Foot	Total
Nursery Stock ^a	2020	260	290,000	\$27,874,000
	2019	270	374,000	27,090,000

a/ Includes: grapevines, fruit trees, nut trees and ornamentals

LIVESTOCK AND POULTRY

PRODUCTION

VALUE

Item	Year	Head	Liveweight	Unit	Per Unit	Total
Cattle and Calves ^a	2020	64,500	511,645	CWT ^b	\$81.00	\$41,443,000
	2019	64,300	509,965	CWT ^b	116.00	59,156,000
Replacement Heifers ^c	2020	22,800			1,320.00	30,096,000
	2019	22,800			1,230.00	28,044,000
Poultry	2020	6,280,000				21,373,000
	2019	4,958,000				24,034,000
TOTAL	2020					\$92,912,000
	2019					111,234,000

a/ Range and dairy cattle sold for beef

b/ Hundredweight: 100 pounds

c/ Milk cows

LIVESTOCK AND POULTRY PRODUCTS

PRODUCTION

VALUE

Item	Year	Production	Unit	Per Unit	Total
Milk ^a	2020	17,090,000	CWT ^b	\$18.60	\$317,874,000
	2019	16,780,000	CWT ^b	16.30	273,514,000
Other Products ^c	2020				7,049,000
	2019				7,938,000
TOTAL	2020				\$324,923,000
	2019				281,452,000

a/ Includes both market and manufacturing milk; Madera County has 32 dairies, with 59,000 lactating cows

b/ Hundredweight: 100 pounds

c/ Includes: aquaculture, market eggs, hogs, manure, sheep, lambs and wool

AGRICULTURAL CROP REPORT SUMMARY 2020

Item	Year	Harvested Acres	Total Value
Apiary	2020		\$67,036,000
	2019		58,413,000
Field Crops	2020	446,950	70,304,000
	2019	448,650	73,021,000
Fruit and Nut Crops	2020	281,160	1,342,025,000
	2019	269,220	1,419,194,000
Forest Products	2020		1,409,000
	2019		1,776,000
Livestock and Poultry	2020		92,912,000
	2019		111,234,000
Livestock and Poultry Products	2020		324,923,000
	2019		281,452,000
Nursery Products	2020	260	27,874,000
	2019	310	27,090,000
Vegetable Crops	2020	4,700	23,049,000
	2019	5,730	29,385,000
TOTAL	2020		\$1,949,532,000
	2019		2,001,565,000

MADERA COUNTY HIGHLIGHTS

County Established	March 11, 1893
County Seat	Madera (city)
Population ^a	157,761
Total County Acreage	1,366,925
2020 Harvested Acreage	733,070
Field Crop Acreage	59,950
Fruit and Nut Acreage	281,160
Nursery Acreage	260
Rangeland Acreage	387,000
Vegetable Acreage	4,700
Forest Acreage	414,300
U. S. Parkland Acreage	83,000

Bordering Counties

Merced County	Northwest
Mariposa County	North
Mono County	East
Fresno County	South and West

Ranking of Madera County Among Counties of California

Population ^a	32
Total Acreage	24
Total Agricultural Production ^b	10
Commodity, by Value	
Figs	1
Grapes, Raisin Variety	3
Pistachios	4
Almonds	4
Grapes, Table Variety	5
Cattles & Calves	6
Corn, Silage	6
Milk, Market & Manufacturing	8
Grapes, Wine Variety	8

Ranking of Madera County Among Counties of the United States

Total Agricultural Production ^c	18
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- a/ US Bureau of Census, 2020 Estimate
- b/ County Agricultural Commissioner's Data, 2019
- c/ USDA Ag Census, 2017

Madera County Crop Reports from 1921 and 1929 to 2019 are available at:

<https://www.maderacounty.com/government/agricultural-commissioner-weights-and-measures>

2020 Sustainable Agriculture Report 1

Pest Prevention

Pest prevention programs are mandated by the California Food and Agricultural Code to prevent the introduction and spread of pests in California. Pest prevention involves three strata: pest exclusion, pest detection and integrated pest management.

The **Pest Exclusion Program** prevents the introduction of injurious pests that are not of common occurrence in the county.

Over 50 beehive shipments received from Red Imported Fire Ants (RIFA) infested states, with over 20,000 beehives, were inspected for RIFA.

Countries receiving our agricultural commodities require certification that the commodities are free from potentially injurious pests. Over 5,700 phytosanitary inspections were performed on Madera County commodities, which were exported to 79 countries.

The State of California's **Pest Detection Program** utilizes insect traps and surveys for the detection of foreign pests which may have eluded exclusion efforts. The trapping program targeted multiple pests, including the following:

Asian Citrus Psyllid (<i>Diaphorina citri</i> Kuwayama)	Caribbean Fruit Fly (<i>Anastrepha suspens</i>)
European Corn Borer (<i>Ostrinia nubilalis</i>)	Gypsy Moth (<i>Lymentria dispar</i>)
Japanese Beetle (<i>Popillia japonica</i>)	Light Brown Apple Moth (<i>Epiphyas postvittana</i>)
Mediterranean Fruit Fly (<i>Ceratitidis capitata</i>)	Melon Fruit Fly (<i>Dacus cucurbitae</i>)
Mexican Fruit Fly (<i>Anastrepha ludens</i>)	Oriental Fruit Fly (<i>Bactrocera dorsalis</i>)

The **Integrated Pest Control Program** strives to eradicate infestations of new pests before they become widespread. Pink Bollworm (*Pectinophora gossypiella*) a non-established and economically significant pest of cotton, is controlled by post-season plowdown of cotton plants. Pink Bollworm was controlled by post-season plowdown of 440 acres of cotton plantings in 2020.

2020 Sustainable Agriculture Report 2

Pest Management

The **Glassy-winged Sharpshooter Program** serves to detect and control the vector of Pierce's Disease, a potentially catastrophic disease of vineyards. This program involved the placement of more than 700 traps in both urban and agricultural sites followed by over 6,700 subsequent trap servicings. In addition, incoming shipments of host materials and susceptible county plantings were inspected.

Multiple Glassy-winged Sharpshooters were found in Madera County in 2020, which led to additional placement of delimitation traps followed by subsequent trap servicings and treatments.

Additionally, the California Department of Food and Agriculture (CDFA) released three kinds of parasitic wasps (*Cosmocomoidae morganii*, *C. morrilli*, and *C. Ashmeadi*) in 2020 to aid in the control of the Glassy-winged Sharpshooters. Over two-hundred and seventy (270) parasitoids were released in the Wildwood and Rolling Hills areas.

Organic Farming

Seventy-two (72) organic producers and 11 handlers/processors were registered in Madera County in 2020. Utilizing organic principles defined in the California Organic Products Act of 2003, these farms produce a wide array of fruits, nuts, vegetables, livestock, and livestock products from over 30,000 acres. The value of organic production in Madera County in 2020 was **\$95,149,000**.

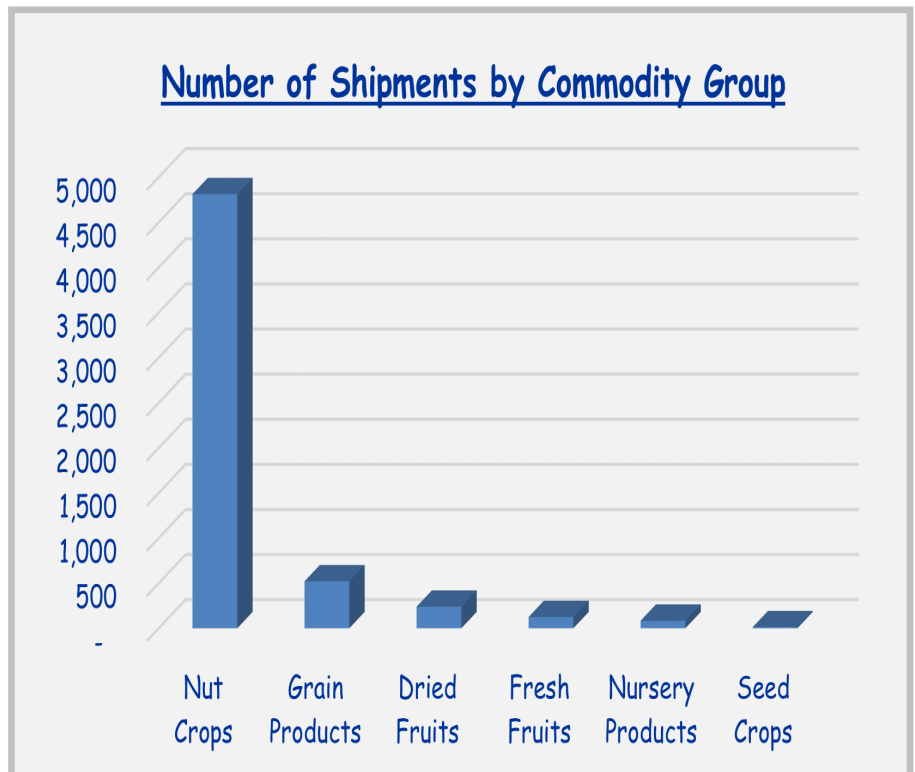
79 Countries Received Madera County Export Commodities in 2020

Afghanistan	Estonia	Lebanon	Saudi Arabia
Algeria	Finland	Libya	Serbia
Argentina	France	Lithuania	Singapore
Australia	French Polynesia	Malaysia	Slovakia
Azerbaijan	Georgia	Mauritius	South Africa
Bangladesh	Germany	Mexico	Spain
Belgium	Greece	Moldova, Republic of	Sweden
Brazil	Guatemala	Montenegro	Switzerland
Bulgaria	Guyana	Morocco	Taiwan
Cambodia	Hong Kong	Nepal	Thailand
Canada	India	Netherlands	Tunisia
Chile	Indonesia	New Zealand	Turkey
China	Israel	Norway	Ukraine
Colombia	Italy	Pakistan	United Arab Emirates
Costa Rica	Japan	Peru	United Kingdom
Croatia	Jordan	Philippines	Uruguay
Cyprus	Kazakhstan	Poland	Venezuela, Bolivarian Republic of
Czech Republic	Korea, Republic of	Portugal	Viet Nam
Denmark	Kuwait	Republic of North Macedonia	
Egypt	Latvia	Romania	

10 Leading Export Countries & Number of Shipments by Commodity Group

Export Country	# of Exports
India	1781
Spain	686
Australia	460
Germany	428
Netherlands	284
Italy	197
China	193
United Kingdom	126
Viet Nam	101
Morocco	96

Commodity Group	# of Shipments
Nut Crops	4,811
Grain Products	520
Dried Fruits	238
Fresh Fruits	124
Nursery Products	83
Seed Crops	11



RAINFALL - MADERA, CALIFORNIA (1970 - 2020)

YEAR	JUL	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1970-71	0.00	0.00	0.00	0.24	1.97	2.85	0.45	0.22	1.01	0.83	1.77	0.00	9.34
1971-72	0.00	0.00	0.02	0.04	0.58	1.72	0.19	0.70	0.00	0.56	0.03	0.05	3.89
1972-73	0.02	0.00	0.14	0.49	4.07	1.40	2.23	3.71	2.98	0.39	0.00	0.02	15.45
1973-74	0.00	0.00	0.00	1.55	1.15	2.36	2.26	0.42	2.32	0.72	0.00	0.00	10.78
1974-75	0.00	0.00	0.00	1.10	0.52	1.54	0.43	1.56	2.17	1.81	0.00	0.00	9.13
1975-76	0.00	0.15	0.19	1.26	0.34	0.10	0.10	3.64	0.64	1.60	0.00	0.00	8.02
1976-77	0.05	0.27	0.94	0.66	0.87	1.18	0.60	0.22	1.05	0.00	0.77	0.00	6.61
1977-78	0.00	0.00	0.00	0.00	0.58	2.36	3.14	4.27	5.04	2.90	0.00	0.00	18.29
1978-79	0.02	0.00	1.61	0.03	3.04	0.54	3.97	3.18	2.14	0.11	0.12	0.00	14.76
1979-80	0.00	0.00	0.00	0.66	1.00	1.50	3.61	3.81	1.50	0.63	0.25	0.00	12.96
1980-81	0.00	0.00	0.00	0.12	0.26	0.58	2.74	0.76	3.42	1.03	0.00	0.00	8.91
1981-82	0.00	0.00	0.00	1.36	1.99	0.81	1.97	1.42	3.44	2.94	0.00	0.20	14.13
1982-83	0.00	0.00	0.84	1.29	3.16	1.78	4.97	3.40	5.12	1.90	0.83	0.00	23.29
1983-84	0.00	0.00	0.22	0.66	2.58	2.45	0.35	1.48	0.59	0.18	0.00	0.00	8.51
1984-85	0.00	0.00	0.00	0.87	2.37	2.12	0.59	0.71	1.65	0.52	0.00	0.34	9.17
1985-86	0.00	0.12	0.11	0.54	2.76	1.03	1.37	5.22	3.16	0.51	0.15	0.00	14.97
1986-87	0.00	0.00	0.43	0.00	0.00	0.97	1.60	2.26	2.91	0.36	0.03	0.02	8.58
1987-88	0.00	0.00	0.00	1.96	0.48	1.52	0.90	0.50	0.59	2.03	0.29	0.03	8.30
1988-89	0.00	0.00	0.00	0.00	1.42	2.04	0.40	1.20	2.13	0.17	0.11	0.00	7.47
1989-90	0.00	0.03	0.94	0.55	0.54	0.00	2.32	1.38	0.71	1.41	2.36	0.00	10.24
1990-91	0.00	0.00	0.04	0.03	0.53	0.64	0.15	1.25	7.11	0.17	0.05	0.01	9.98
1991-92	0.00	0.02	0.00	0.87	0.23	1.08	1.43	2.88	2.13	0.02	0.00	0.00	8.66
1992-93	0.09	0.00	0.00	1.33	0.04	3.08	5.16	2.69	2.92	0.32	0.71	0.43	16.77
1993-94	0.00	0.00	0.00	0.06	0.77	1.39	1.85	1.77	0.43	1.89	2.61	0.00	10.77
1994-95	0.00	0.00	0.13	1.41	1.61	1.36	5.18	0.71	4.82	1.21	0.79	0.48	17.70
1995-96	0.00	0.00	0.00	0.00	0.00	2.42	2.62	3.98	2.34	0.84	0.52	0.32	13.04
1996-97	0.00	0.00	0.00	1.83	2.55	5.02	5.05	0.19	0.00	0.00	0.00	0.00	14.64
1997-98	0.00	0.01	0.13	0.00	2.55	1.65	4.22	5.69	4.26	2.03	1.38	0.74	22.66
1998-99	0.00	0.00	0.88	0.19	0.34	0.95	2.18	1.67	0.63	1.62	0.06	0.05	8.57
1999-00	0.00	0.00	0.00	0.00	0.61	0.08	3.59	6.13	1.35	1.26	0.16	0.46	13.64
2000-01	0.00	0.00	0.27	2.82	0.07	0.13	2.33	1.98	1.71	1.08	0.00	0.00	10.39
2001-02	0.02	0.00	0.02	0.51	1.89	2.42	1.40	0.34	1.14	0.23	0.33	0.22	8.52
2002-03	0.00	0.00	0.00	0.00	2.80	2.85	0.51	1.51	0.64	1.74	0.87	0.00	10.92
2003-04	0.00	0.06	0.00	0.00	0.34	2.88	0.95	2.20	0.56	0.00	0.00	0.00	6.99
2004-05	0.00	0.00	0.00	3.89	1.07	3.67	2.10	3.04	2.59	0.60	3.32	0.00	20.28
2005-06	0.00	0.04	0.01	0.00	0.00	2.49	3.10	0.65	3.80	2.55	0.00	0.00	12.64
2006-07	0.00	0.00	0.00	0.40	0.56	1.40	0.65	1.86	0.57	0.35	0.05	0.00	5.84
2007-08	0.00	0.00	0.15	0.32	0.09	2.13	2.78	2.21	0.00	0.00	0.26	0.00	7.94
2008-09	0.00	0.00	0.00	0.00	1.19	1.27	1.95	3.24	0.83	0.00	0.00	0.00	8.48
2009-10	0.00	0.00	0.06	1.14	0.17	2.69	2.48	2.77	2.04	2.69	0.22	0.00	14.26
2010-11	0.00	0.00	0.00	0.21	2.31	5.40	1.88	1.50	4.17	0.24	0.45	1.41	17.57
2011-12	0.00	0.00	0.00	0.72	0.89	0.08	0.89	0.46	2.92	2.61	0.00	0.12	8.69
2012-13	0.00	0.00	0.00	0.07	1.84	3.42	1.33	0.74	0.12	0.98	0.06	0.00	8.56
2013-14	0.00	0.00	0.02	0.07	0.25	0.23	0.32	2.16	0.48	1.11	0.00	0.00	4.64
2014-15	0.00	0.00	0.04	0.00	1.06	2.41	0.00	0.66	0.01	0.94	0.5	0.00	5.57
2015-16	0.02	0.00	0.14	0.29	1.81	2.24	4.14	0.46	3.84	3.14	0.01	0.02	16.11
2016-17	0.00	0.00	0.00	0.77	1.42	2.22	4.98	3.88	0.60	0.45	0.12	0.00	14.44
2017-18	0.00	0.00	0.10	0.07	0.10	0.09	1.14	0.21	4.75	0.71	0.00	0.00	7.17
2018-19	0.00	0.00	0.00	0.01	2.12	0.87	1.77	2.81	2.08	0.19	1.58	0.00	11.43
2019-20	0.00	0.00	0.00	0.00	0.55	1.71	0.64	0.00	1.53	1.38	0.21	0.00	6.02
2020-21	0.00	0.00	0.00	0.00	0.28	0.87	2.62	0.58	0.36	0.13	0.03	0.00	4.87
Average	0.00	0.01	0.15	0.61	1.19	1.76	2.07	2.01	2.07	1.02	0.42	0.10	11.41

50 YEAR AVERAGE RAINFALL



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