



MADERA COUNTY 2019



CROP & LIVESTOCK REPORT





Madera County Department of Agriculture Weights and Measures

Stephanie "Stevie" McNeill, 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

David Rogers	Chairman, District 2
Brett Frazier	District 1
Robert Poythress	District 3
Max Rodriguez	District 4
Tom Wheeler	District 5

It is my pleasure to present the 2019 Madera County Agricultural Crop and Livestock Report. This annual statistical report is compiled in accordance with Sections 2271 and 2279 of the California Food and Agricultural 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 2019, the gross value of all production was \$2,001,565,000; this is a decrease of \$56,909,000 compared to 2018 production. This is a sign of market prices continuing to stabilize in the past four years. Madera County is ranked 11th 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. Almonds (nut meats & hulls) retained the number 1 rank of the ten leading crops for the tenth year in a row. Milk moved up to take the number 2 spot, with grapes falling to number 3, due to some price decreases.

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. Additionally, I would like to express my thanks to my staff that contributed to compiling and preparing this report, and especially to Senior Agricultural and Standards Inspector Cha Vang and his dedication to producing the annual report.

To view the 2019 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,

Stevie McNeill, Madera County Agricultural Commissioner/Sealer

*Front cover photo by Thomas Hagopian: hay bale stacker, corn silage harvester, process tomato trailer



- MADERA COUNTY STAFF -

Madera County Board of Supervisors

Brett Frazier...District 1 **David Rogers**...Chairman / District 2
Robert L. Poythress...District 3 **Max Rodriguez**...District 4
Tom Wheeler...District 5

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Heidi Wong

Supervising Agricultural & Standards Inspector

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Agricultural & Standards Inspectors

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Molly Glover **Alison Steen**
Jessica Graves **Cha Vang**

Agricultural & Standards Technician

Bobby Arias

Administrative Support Staff

Steven W. Monk, Administrative Analyst II
Tammy Dodson, Program Assistant II
Mary Arias, Program Assistant I

- TABLE OF CONTENTS -

Letter from the Commissioner	Inside Cover
County Administration/Ag. Commissioner Staff	1
Table of Contents	2
Ten Leading Crops	3
Madera County's Million Dollar Crops: 2019 and 1969	3
Field Crops	4
Vegetable Crops	5
Fruit & Nut Crops	6
Apiary Products	8
Forest Products	8
Nursery Products	8
Livestock & Poultry	9
Livestock & Poultry Products	9
Crop Report Summary	10
Madera County Highlights	11
Sustainable Agriculture Report 1	12
Sustainable Agriculture Report 2	13
Countries Receiving Madera County Commodities	14
Madera County Commodities Exported	14
Rainfall - Madera, California (1970-2019)	INSIDE BACK COVER

TEN LEADING CROPS MADERA COUNTY 2019

Commodity	2019 Rank	2019 Dollar Value	2018 Rank
Almonds, Nuts & Hulls	1	\$833,966,000	1
Milk	2	\$273,514,000	4
Grapes	3	\$267,763,000	2
Pistachios	4	\$191,668,000	3
Cattle & Calves	5	\$59,156,000	6
Pollination	6	\$57,380,000	5
Replacement Heifers	7	\$28,044,000	8
Nursery Stock	8	\$27,090,000	9
Corn Silage	9	\$26,626,000	**
Poultry	10	\$24,034,000	10

** Not in 2018 Top Ten

Madera County's Million Dollar Crops: 2019 and 1969

Year: 1969; Total Ag Value: \$84,790,970	
Grapes	\$21,102,000
Cattle & Calves	12,627,000
Cotton	8,398,000
Milk	7,477,000
Alfalfa	7,124,000
Turkeys	5,501,000
Pasture	2,070,000
Peaches	1,857,000
Corn	1,782,000
Broilers & Fryers	1,738,000
Almonds	1,392,000
Barley	1,360,000
Potatoes	1,138,000

Year: 2019; Total Ag Value: \$2,001,565,000	
Almonds, Nuts & Hulls	\$833,966,000
Milk	273,514,000
Grapes	267,763,000
Pistachios	191,668,000
Cattle & Calves	59,156,000
Pollination	57,380,000
Replacement Heifers	28,044,000
Nursery Stock	27,090,000
Corn Silage	26,626,000
Poultry	24,034,000
Tomatoes, Fresh & Processed	23,771,000
Oranges	20,272,000
Alfalfa	15,848,000
Wheat, Silage & Grain	14,210,000
Figs	14,079,000
Rangeland	8,514,000
Plums, Dried	8,263,000
Walnuts	6,929,000
Peaches	5,362,000
Cherries	3,087,000
Olives, Fresh & Oil	1,844,000
Cotton	1,393,000
Oat Hay	1,106,000

FIELD CROPS

Item	Year	PRODUCTION			VALUE		
		Harvested Acreage	Per Acre	Total	Unit	Per Unit	Total
Alfalfa							
Hay	2019	8,800	7.27	63,976	Ton	\$222.00	\$14,203,000
	2018	10,200	7.12	72,624	Ton	214.00	15,542,000
Silage ^a	2019			25,309	Ton	65.00	1,645,000
	2018			28,701	Ton	77.00	2,210,000
Total	2019	8,800					15,848,000
	2018	10,200					17,752,000
Corn							
Silage	2019	18,000	27.91	502,380	Ton	53.00	26,626,000
	2018	17,200	27.37	470,764	Ton	47.00	22,126,000
Cotton							
Lint	2019	940	1,411 ^b	2,763	Bale ^c	1.05 ^d	1,393,000
	2018	950	1,285	2,543	Bale	1.22	1,489,000
Seed	2019			1,106	Ton	285.00	315,000
	2018			1,018	Ton	252.00	257,000
Total	2019	940					1,708,000
	2018	950					1,746,000
Oat							
Hay	2019	3,500	2.45	8,575	Ton	129.00	1,106,000
	2018	4,000	2.98	11,920	Ton	166.00	1,979,000
Pasture							
Irrigated	2019	510			Acre	100.00	51,000
	2018	810			Acre	150.00	122,000
Rangeland	2019	387,000			Acre	22.00	8,514,000
	2018	387,000			Acre	25.00	9,675,000

a/ Alfalfa acreage yields both hay and silage

b/ Pounds

c/ Bale: 480 pounds

d/ Price per pound

FIELD CROPS

Item	Year	PRODUCTION			VALUE		
		Harvested Acreage	Per Acre	Total	Unit	Per Unit	Total
Wheat							
Grain	2019	1,800	3.38	6,084	Ton	\$209.00	\$1,272,000
	2018	2,000	2.99	5,980	Ton	256.00	1,531,000
Silage	2019	21,400	16.34	349,676	Ton	37.00	12,938,000
	2018	22,900	14.13	323,577	Ton	32.00	10,354,000
Total	2019	23,200					14,210,000
	2018	24,900					11,885,000
Winter Forage	2019	2,000	11.16	22,320	Ton	32.00	714,000
	2018	1,200	11.02	13,224	Ton	35.00	463,000
Miscellaneous ^e	2019	4,700					4,244,000
	2018	5,500					3,897,000
TOTAL	2019	448,650					\$73,021,000
	2018	451,760					69,645,000

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

VEGETABLE CROPS

Item	Year	PRODUCTION			VALUE		
		Harvested Acreage	Per Acre	Total	Unit	Per Unit	Total
Tomatoes							
Fresh	2019	600	25.50	15,300	Ton	\$474.00	\$7,252,000
	2018	800	20.00	16,000	Ton	469.00	7,504,000
Processed	2019	4,300	49.89	214,527	Ton	77.00	16,519,000
	2018	5,800	57.63	334,254	Ton	72.00	24,066,000
Total	2019	4,900					23,771,000
	2018	6,600					31,570,000
Miscellaneous ^a	2019	830					5,614,000
	2018	2,200					9,569,000
TOTAL	2019	5,730					\$29,385,000
	2018	8,800					41,139,000

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

FRUIT & NUT CROPS

PRODUCTION

VALUE

Item	Year	PRODUCTION			VALUE		
		Harvested Acreage	Per Acre	Total	Unit	Per Unit	Total
Almonds ^a	2019	149,000	1.12	166,880 ^b	Ton	\$4,821.00	\$804,528,000
	2018	142,000	1.03	146,260	Ton	4,831.00	706,582,000
Almond Hulls	2019			327,085	Ton	90.00	29,438,000
	2018			286,670	Ton	84.00	24,080,000
Cherries	2019	390	1.79	698	Ton	4,423.00	3,087,000
	2018	400	1.36	544	Ton	5,687.00	3,094,000
Figs, Fresh & Dried	2019	4,500	1.25	5,625	Ton	2,503.00	14,079,000
	2018	5,400	1.51	8,154	Ton	2,266.00	18,477,000
Grapes							
Raisin Varieties							
Crushed	2019	2,300	8.38	19,274	Ton	212.00	4,086,000
	2018	2,800	9.23	25,844	Ton	326.00	8,425,000
Dried	2019	19,300	2.56	49,408	Ton	1,626.00	80,337,000
	2018	20,200	2.76	55,752	Ton	2,030.00	113,177,000
Fresh	2019	500	11.50	5,750	Ton	1,482.00	8,522,000
	2018	800	8.18	6,544	Ton	1,583.00	10,359,000
Table Varieties	2019	2,100	11.08	23,268	Ton	1,902.00	44,256,000
	2018	2,600	10.87	28,262	Ton	1,782.00	50,363,000
Wine Varieties^c							
Red	2019	21,500	10.00	215,000	Ton	368.00	79,120,000
	2018	22,000	10.15	223,300	Ton	330.00	73,689,000
White	2019	12,600	13.43	169,218	Ton	304.00	51,442,000
	2018	12,800	12.89	164,992	Ton	313.00	51,642,000
Total Grapes	2019	58,300					267,763,000
	2018	61,200					307,655,000
Olives, Fresh & Oil	2019	660	3.23	2,132	Ton	865.00	1,844,000
	2018	780	2.50	1,950	Ton	1,049.00	2,046,000

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	Harvested Acreage	Per Acre	Total	Unit	Per Unit	Total
Oranges	2019	2,200	14.22	31,284	Ton	\$648.00	\$20,272,000
	2018	2,800	15.51	43,428	Ton	533.00	23,147,000
Peaches							
Cling	2019	320	17.67	5,654	Ton	500.00	2,827,000
	2018	330	14.62	4,825	Ton	500.00	2,413,000
Freestone	2019	350	15.95	5,583	Ton	454.00	2,535,000
	2018	380	20.06	7,624	Ton	608.00	4,635,000
Total	2019	670					5,362,000
	2018	710					7,048,000
Pistachios	2019	41,800	1.05	43,890^b	Ton	4,367.00	191,668,000
	2018	36,400	1.74	63,336	Ton	4,683.00	296,602,000
Plums, Dried	2019	1,000	3.99	3,990	Ton	2,071.00	8,263,000
	2018	940	3.41	3,205	Ton	2,281.00	7,311,000
Walnuts	2019	2,500	1.39	3,475	Ton	1,994.00	6,929,000
	2018	2,400	1.59	3,816	Ton	1,522.00	5,808,000
Miscellaneous							
Fruits & Nuts^d	2019	8,200					65,086,000
	2018	7,800					59,364,000
Orchard Firewood	2019			5,000	Cord^e		875,000
	2018			6,000	Cord		1,110,000
TOTAL	2019	269,220					\$1,419,194,000
	2018	260,830					1,462,324,000

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

e/ Cord: 128 Cubic feet

APIARY PRODUCTS

Item	Year	PRODUCTION		VALUE	
		Total	Unit	Per Unit	Total
Apiary Products					
Beeswax	2019	19,112	Pound	\$3.40	\$65,000
	2018	13,885	Pound	3.20	44,000
Honey	2019	403,159	Pound	2.40	968,000
	2018	294,330	Pound	2.55	751,000
Pollination	2019	302,000	Colony	190.00	57,380,000
	2018	288,000	Colony	195.00	56,160,000
TOTAL	2019				\$58,413,000
	2018				56,955,000

FOREST PRODUCTS

Item	Year	PRODUCTION		VALUE	
		Production	Unit		Total
Timber	2019	14,400	MBF ^a		\$948,000
	2018	10,400	MBF		1,519,000
Firewood ^b	2019	23,000	Cord ^c		828,000
	2018	20,700	Cord		906,000
TOTAL	2019				\$1,776,000
	2018				2,425,000

a/ MBF: Thousand board feet

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

c/ Cord: 128 Cubic feet

NURSERY PRODUCTS

Item	Year	PRODUCTION		VALUE	
		Field Acres	House Sq. Foot		Total
Nursery Stock ^a	2019	270	374,000		\$27,090,000
	2018	310	282,000		27,969,000

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	2019	64,300	509,965	CWT^b	\$116.00	\$59,156,000
	2018	66,900	502,000	CWT	102.00	51,204,000
Replacement Heifers^c	2019	22,800			1,230.00	28,044,000
	2018	23,800			1,200.00	28,560,000
Poultry	2019	4,958,000				24,034,000
	2018	5,391,000				26,504,000
TOTAL	2019					\$111,234,000
	2018					106,268,000

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	2019	16,780,000	CWT	\$16.30	\$273,514,000
	2018	18,301,969	CWT	15.29	279,799,000
Other Products^b	2019				7,938,000
	2018				11,950,000
TOTAL	2019				\$281,452,000
	2018				291,749,000

a/ Includes both market and manufacturing milk; Madera County has 37 dairies, with 65,000 lactating cows

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

AGRICULTURAL CROP REPORT SUMMARY 2019

Item	Year	Harvested Acres	Total Value
Apiary	2019		\$58,413,000
	2018		56,955,000
Field Crops	2019	448,650	73,021,000
	2018	453,360	69,645,000
Fruit and Nut Crops	2019	269,220	1,419,194,000
	2018	260,830	1,462,324,000
Forest Products	2019		1,776,000
	2018		2,425,000
Livestock and Poultry	2019		111,234,000
	2018		106,268,000
Livestock and Poultry Products	2019		281,452,000
	2018		291,749,000
Nursery Products	2019	270	27,090,000
	2018	310	27,969,000
Vegetable Crops	2019	5,730	29,385,000
	2018	8,800	41,139,000
TOTAL	2019		\$2,001,565,000
	2018		2,058,474,000

MADERA COUNTY

HIGHLIGHTS

County Established	March 11, 1893
County Seat	Madera (city)
Population ^a	157,327
Total County Acreage	1,366,925
2019 Harvested Acreage	723,870
Field Crop Acreage	61,650
Fruit and Nut Acreage	269,220
Nursery Acreage	270
Rangeland Acreage	387,000
Vegetable Acreage	5,730
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	11
Commodity, by Value	
Figs	1
Grapes, Raisin Variety	3
Pistachios	4
Almonds	4
Grapes, Table Variety	5
Cattles & Calves	7
Corn, Silage	7
Milk, Market	8
Grapes, Wine Variety	9
Ranking of Madera County Among Counties of the United States	
Total Agricultural Production ^c	18
a/ US Bureau of Census, 2018 Estimate	
b/ County Agricultural Commissioner's Data, 2018	
c/ USDA Ag Census, 2017	

Madera County Crop Reports from 1921 and 1929 to 2018 are available at:

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

2019 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 170 beehive shipments received from Red Imported Fire Ants (RIFA) infested states, with over 70,000 beehives, were inspected for RIFA.

During 2019, ten (10) nursery locations were inspected to ensure pest cleanliness.

Countries receiving agricultural commodities require certification that the commodities are free from potentially injurious pests. Over 5,300 phytosanitary inspections were performed on Madera County commodities, which were exported to 77 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>Ceratitis 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 940 acres of cotton plantings.

2019 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 1,000 traps in both urban and agricultural sites followed by over 11,300 subsequent trap servicings. In addition, incoming shipments of host material and susceptible county plantings were inspected.

Multiple Glassy-winged Sharpshooters were found in Madera County in 2019, 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 four parasitic wasps (*Cosmocomoidae morganii*, *C. morrilli*, *C. Ashmeadi* and *Ufens spp.*) in 2019 to aid in the control of the Glassy-winged Sharpshooters. Over one-thousand six hundred (1,600) parasitoids were released in the Wildwood and Rolling Hills areas.

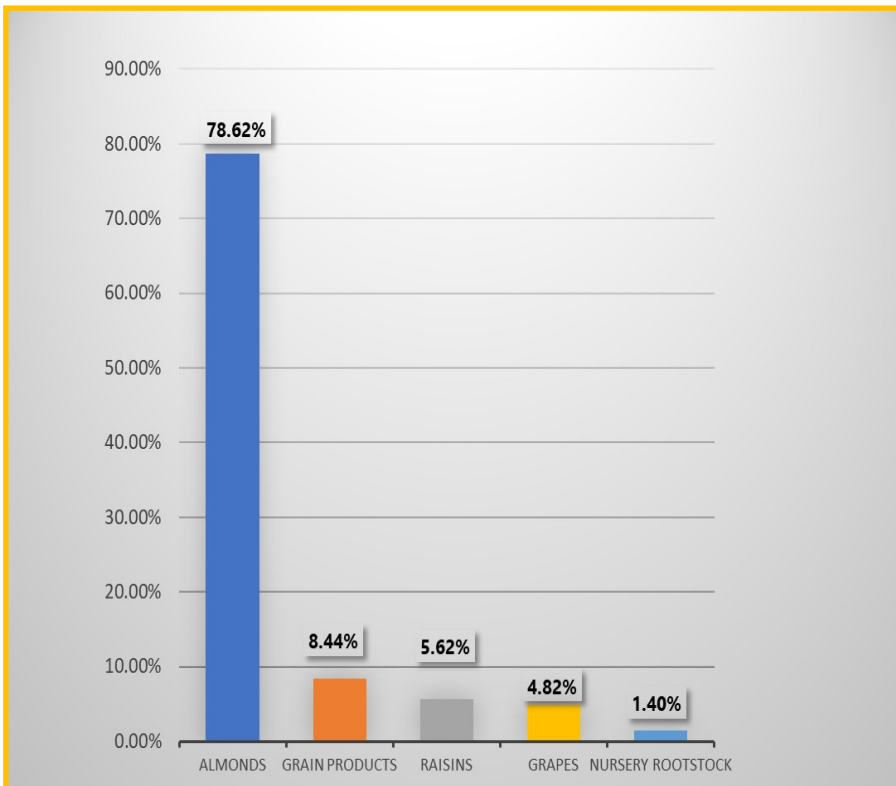
Organic Farming

Seventy-seven (77) organic producers and 12 handlers/processors were registered in Madera County in 2019. 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 26,000 acres. The value of organic production in Madera County in 2019 was **\$69,541,000**.

77 countries received Madera County export commodities in 2019

Afghanistan	Egypt	Korea, Republic of	Republic of North Macedonia
Algeria	El Salvador	Kuwait	Saudi Arabia
Australia	Estonia	Latvia	Serbia
Austria	Finland	Lebanon	Singapore
Bahrain	France	Libya	South Africa
Belgium	French Polynesia	Lithuania	Spain
Bosnia and Herzegovina	Georgia	Malaysia	Sri Lanka
Brazil	Germany	Mexico	Sweden
Bulgaria	Greece	Morocco	Switzerland
Canada	Guatemala	Myanmar	Taiwan
Chile	Hong Kong	Nepal	Thailand
China	Hungary	Netherlands	Tunisia
Colombia	India	New Zealand	Turkey
Costa Rica	Indonesia	Norway	Ukraine
Croatia	Iraq	Pakistan	United Arab Emirates
Cyprus	Israel	Peru	United Kingdom
Czech Republic	Italy	Philippines	Viet Nam
Denmark	Japan	Poland	
Dominican Republic	Jordan	Portugal	
Ecuador	Kazakhstan	Qatar	

5 Leading Commodities Exported & 10 Leading Export Countries



Export Country	# of Exports
India	1,373
Spain	715
Australia	409
Germany	316
Netherlands	242
Italy	169
Philippines	158
Hong Kong	150
United Arab Emirates	132
United Kingdom	113

Commodity	# of shipments
Almonds	4,210
Grain Products	452
Raisins	301
Grapes	244
Nursery Rootstock	75

RAINFALL - MADERA, CALIFORNIA (1970 - 2019)

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	0.45	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
Average	0.00	0.01	0.15	0.61	1.19	1.74	2.02	1.99	2.06	1.02	0.42	0.10	11.31

50 YEAR AVERAGE RAINFALL



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