

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 147

Country: Fiji

TABLE 1: Monthly Rainfall

Station (include data period)	Sep-2019	Oct-2019	Nov-2019				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Western Division							
Penang Mill (1910-2019)	74.8	44.1	96.2	95.2	189.4	134.4	40/108
Lautoka Mill (1900-2019)	114.6	101.6	77.0	62.3	154.2	113.1	50/120
Nadi Airport (1942-2019)	89.7	132.7	47.9	91.6	146.5	123.4	10/77
Central Division							
Laucala Bay (Suva) (1942-2019)	307.2	557.2	144.3	156.0	284.5	205.6	27/78
Nausori Airport (1957-2019)	217.1	449.3	193.0	187.6	302.9	232.5	23/64
Tokotoko (Navua) (1945-2019)	242.0	299.6	146.4	208.2	363.6	284.5	15/74
Eastern Division							
Lakeba (1950-2019)	69.8	112.8	98.5	71.6	176.9	115.6	31/71
Vunisea (Kadavu) (1931-2019)	76.9	170.5	120.8	94.1	166.7	109.6	47/84
Ono-i-Lau (1943-2019)	90.1	76.1	16.8	61.8	126.5	94.8	10/73
Northern Division							
Labasa Airport (1946-2019)	116.4	52.3	40.0	113.1	203.4	147.6	6/61
Savusavu Airfield (1956-2019)	48.0	305.3	89.9	128.9	210.2	166.2	6/63
Udu Point	159.7	365.6	256.2	147.4	286.7	221.8	40/70
Rotuma (1912-2019)	248.2	377.9	723.3	247.3	346.1	295.3	103/106

TABLE 2: Three-month Rainfall for September to November 2019

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 June-July 2019				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Western Division											
Penang Mill (1910-2019)	215.1	Below normal	255.9	415.4	295.9	31/107	51	34	15	14	Consistent
Lautoka Mill (1900-2019)	293.2	Normal	193.5	350.3	279.8	74/120	57	31	12	19	Near-consistent
Nadi Airport (1942-2019)	270.3	Normal	239.7	342.9	295.3	33/77	64	28	8	27	Near-consistent
Central Division											
Laucala Bay (Suva) (1942-2019)	1008.7	Above normal	468.4	763.6	650.2	65/78	47	32	21	7	Inconsistent
Nausori Airport (1957-2019)	859.4	Above normal	434.7	728.6	597.2	51/63	47	36	17	10	Inconsistent
Tokotoko (Navua) (1945-2019)	688.0	Normal	643.1	937.6	779.1	32/73	58	31	11	23	Near-consistent
Eastern Division											
Lakeba (1950-2019)	281.1	Below normal	297.6	410.4	333.4	23/69	49	35	16	10	Consistent
Vunisea (Kadavu) (1931-2019)	368.2	Normal	341.5	453.9	408.2	39/81	54	31	15	12	Near-consistent
Ono-i-Lau (1943-2019)	183.0	Below normal	207.9	384.2	299.4	17/71	56	29	15	13	Consistent
Northern Division											
Labasa Airport (1947-2019)	208.7	Below normal	260.0	374.3	307.7	11/59	53	34	13	18	Consistent
Savusavu Airfield (1957-2019)	443.2	Normal	366.4	515.5	424.3	35/62	65	22	13	26	Near-consistent
Udu Point	781.5	Above normal	376.9	564.0	497.4	62/69	44	30	26	3	Inconsistent
Rotuma (1912-2019)	1349.4	Above normal	727.5	963.7	878.2	99/102	33	29	38	-1	Consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for January to March 2020**Predictor and Period used: NINO3.4 for October to November 2019**

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Western Division						
Penang Mill (1910-2019)	76	1128.6	24		35	80
Lautoka Mill (1900-2019)	67	1020.3	33		20	68
Nadi Airport (1942-2019)	67	924.2	33		20	74
Central Division						
Laucala Bay (Suva) (1942-2019)	52	1002.2	48		-1	51
Nausori Airport (1957-2019)	51	960.9	49		-2	38
Tokotoko (Navua) (1945-2019)	47	1063.1	53		0	59
Eastern Division						
Lakeba (1950-2019)	63	766.4	37		14	63
Vunisea (Kadavu) (1931-2019)	57	785.9	43		3	60
Ono-i-Lau (1943-2019)	54	619.5	46		1	54
Northern Division						
Labasa Airport (1946-2019)	63	1109.2	37		14	69
Savusavu Airfield (1956-2019)	61	787.0	39		9	57
Udu Point	65	980.4	35		17	65
Rotuma (1912-2019)	75	1037.5	25		32	74

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)	LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Western Division							
Penang Mill (1910-2019)	50	1040.2	35	1250.5	15	26	54
Lautoka Mill (1900-2019)	47	860.1	37	1136.4	16	19	57
Nadi Airport (1942-2019)	47	808.6	36	1129.4	17	22	54
Central Division							
Laucala Bay (Suva) (1942-2019)	36	858.6	33	1071.6	31	-1	28
Nausori Airport (1957-2019)	37	888.2	29	1077.4	34	-1	40
Tokotoko (Navua) (1945-2019)	36	911.9	27	1216.8	37	-1	37
Eastern Division							
Lakeba (1950-2019)	44	659.7	35	884.8	21	14	43
Vunisea (Kadavu) (1931-2019)	40	669.7	29	876.6	31	1	49
Ono-i-Lau (1943-2019)	39	487.2	33	753.4	28	1	38
Northern Division							
Labasa Airport (1946-2019)	48	963.2	26	1302.8	26	16	34
Savusavu Airfield (1956-2019)	42	673.9	30	857.6	28	7	38
Udu Point	46	817.6	29	1044.7	25	13	50
Rotuma (1912-2019)	44	894.5	38	1152.1	18	15	49

TABLE 4: Seasonal Climate Outlooks using POAMA2 for January to March 2020

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Lakeba	30	580.0	24	766.0	46
Nadi	36	810.0	28	1045.0	36
Nabouwalu	21	752.0	49	952.0	30
Udu Point	36	695.0	25	990.0	39
Vunisea	36	624.0	28	810.0	36
Suva	36	840.0	28	1022.0	36
Rotuma	33	893.0	34	1095.0	33

Summary Statements

Rainfall for November 2019:

Below normal to normal rainfall was recorded across the Western, Eastern, Northern and Central Divisions. *Above normal* rainfall was recorded at Rotuma.

Labasa Airport and Savusavu Airfield recorded their sixth-driest November on record. Rotuma recorded its fourth-wettest November on record.

Accumulated rainfall for September to November 2019, including outlook verification:

Three-month totals were quite mixed across the country, ranging from *below normal* to *above normal*.

Rotuma recorded its fourth-wettest September to November period on record, while Udu Point recorded its eight-wettest September to November period on record.

The rainfall outlooks were 'Consistent' at five sites, 'Near-Consistent' at five sites and 'Inconsistent' at three sites.

Outlooks for January to March 2020:

1. SCOPIC:

- **Western Division, Northern Division, Lakeba & Vunisea (Eastern division) and Rotuma:** The outlook shows *below normal* as the most likely, with the *normal* the next most likely. *Above normal* is the least likely.
- **Central Division and Ono-i-Lau:** The outlook offers little guidance as the chances of *above normal*, *normal* and *below normal* rainfall are similar.

2. POAMA:

Lakeba: *Above normal* rainfall is the most likely, with *below normal* the next most likely.

Nabouwalu: *Normal* rainfall is the most likely, with *above normal* the next most likely.

Udu Point: Mixed outlook with near-equal chances of *below normal* and *above normal* rainfall; *normal* is the least likely.

Nadi, Vunisea, Suva, and Rotuma: Little guidance as the chances of *below normal*, *normal* and *above normal* rainfall are similar.

Table: 5 Stakeholder Engagement- Evaluations of how effective NMS engage with stakeholders

Product	Date: November 2019	Stakeholder	Total Number of Participants	Number of male	Number of female
Fiji Climate Summary	12/11/2019	General public	140	106	34
Fiji Climate Outlook	15/11/2019	General public	124	93	31
Climate Outlook for Monasavu	12/11/2019	EFL	13	13	-
EAR Watch	07/11/2019	Humanitarian partners	122	96	26
ENSO Outlook	25/11/2019	General public	142	116	26
Ocean Outlook	15/11/2019	Reef Explorer Fiji limited, Maritime Safety Authority, World wildlife fun, wildlife conservation society and Tourism sector.	36	29	7
Meteorological Data Requests	01/11/19 to 31/11/19	A range of stakeholders	57	49	8
Total			634	502	132