

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 142

Country: Fiji

TABLE 1: Monthly Rainfall

Station (include data period)	Apr-2019	May-2019	Jun-2019				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Western Division							
Penang Mill (1910-2019)	447.2	29.5	64.0	43.6	100.8	59.4	63/110
Lautoka Mill (1900-2019)	328.5	6.2	49.7	32.2	79.6	49.6	66/120
Nadi Airport (1942-2019)	323.7	2.2	58.1	24.1	72.8	53.2	44/78
Central Division							
Laucala Bay (Suva) (1942-2019)	665.7	115.6	134.8	101.2	214.5	125.0	37/78
Nausori Airport (1957-2019)	647.3	65.9	190.5	91.4	198.3	128.3	41/63
Tokotoko (Navua) (1945-2019)	1023.4	153.2	217.5	130.6	235.7	158.3	45/75
Eastern Division							
Lakeba (1950-2019)	332.2	57.5	124.9	50.5	129.7	84.6	45/70
Vunisea (Kadavu) (1931-2019)	482.6	125.3	115.1	83.7	144.3	116.2	44/83
Ono-i-Lau (1943-2019)	235.6	112.4	162.1	60.3	106.8	78.2	60/72
Northern Division							
Labasa Airport (1946-2019)	132.6	5.1	129.9	28.7	80.7	46.1	54/63
Savusavu Airfield (1956-2019)	396.5	131.9	135.8	57.3	136.3	107.9	39/61
Udu Point (1946-2019)	836.6	137.6	260.5	75.1	147.5	105.2	64/71
Rotuma (1912-2019)	226.7	377.6	403.2	201.7	303.5	244.8	92/105

TABLE 2: Three-month Rainfall for April to June 2019

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 January-February 2019				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Western Division											
Penang Mill (1910-2019)	540.7	Normal	364.6	541.5	432.2	74/109	39	34	27	1	Near-consistent
Lautoka Mill (1900-2019)	384.4	Normal	263.1	412.6	345.1	78/120	47	35	18	13	Near-consistent
Nadi Airport (1942-2019)	384.0	Above normal	254.0	375.0	313.1	54/77	45	34	21	9	Inconsistent
Central Division											
Laucala Bay (Suva) (1942-2019)	916.1	Above normal	678.1	820.6	730.9	58/78	41	37	22	5	Inconsistent
Nausori Airport (1957-2019)	903.7	Above normal	645.9	785.9	705.9	50/63	45	34	21	11	Inconsistent
Tokotoko (Navua) (1945-2019)	1394.1	Above normal	753.9	972.7	869.1	72/75	42	39	19	9	Inconsistent
Eastern Division											
Lakeba (1950-2019)	514.6	Above normal	353.4	501.9	428.1	46/67	44	31	25	7	Inconsistent
Vunisea (Kadavu) (1931-2019)	723.0	Above normal	484.3	614.4	544.4	69/83	47	30	23	9	Inconsistent
Ono-i-Lau (1943-2019)	510.1	Above normal	316.8	465.8	413.6	53/69	50	26	24	13	Inconsistent
Northern Division											
Labasa Airport (1947-2019)	267.6	Below normal	323.6	448.6	407.4	15/63	39	32	29	1	Consistent
Savusavu Airfield (1957-2019)	664.2	Above normal	396.9	626.9	488.3	45/60	45	40	15	16	Inconsistent
Udu Point (1946-2019)	1234.7	Above normal	440.5	644.6	527.0	70/70	42	25	33	1	Inconsistent
Rotuma (1912-2019)	1007.5	Above normal	743.6	909.7	818.8	84/105	30	36	34	-1	Near-consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for August to October 2019

Predictor and Period used: NINO3.4 for May to June 2019

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Western Division						
Penang Mill (1910-2019)	59	239.7	41		1	53
Lautoka Mill (1900-2019)	61	216.5	39		2	54
Nadi Airport (1942-2019)	64	225.0	36		3	54
Central Division						
Lautoka Bay (Suva) (1942-2019)	62	513.2	38		2	52
Nausori Airport (1957-2019)	64	479.2	36		3	57
Tokotoko (Navua) (1945-2019)	70	637.6	30		7	57
Eastern Division						
Lakeba (1950-2019)	52	309.9	48		-2	52
Vunisea (Kadavu) (1931-2019)	55	394.1	45		-1	46
Ono-i-Lau (1943-2019)	58	312.5	42		0	55
Northern Division						
Labasa Airport (1946-2019)	66	198.9	34		5	61
Savusavu Airfield (1956-2019)	59	353.2	41		1	54
Udu Point	57	337.5	43		0	59
Rotuma (1912-2019)	42	709.6	58		0	58

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)	42	187.4	43	306.0	15	6	31
Lautoka Mill (1900-2019)	51	152.8	25	257.6	24	4	25
Nadi Airport (1942-2019)	48	165.2	33	285.7	19	6	39
Central Division							
Lautoka Bay (Suva) (1942-2019)	49	414.8	34	625.3	17	7	44
Nausori Airport (1957-2019)	32	419.6	46	602.6	22	0	37
Tokotoko (Navua) (1945-2019)	46	546.3	40	786.9	14	7	25
Eastern Division							
Lakeba (1950-2019)	44	255.1	31	345.8	25	1	43
Vunisea (Kadavu) (1931-2019)	36	325.4	43	449.4	21	1	36
Ono-i-Lau (1943-2019)	37	237.1	36	364.1	27	-1	25
Northern Division							
Labasa Airport (1946-2019)	41	169.8	32	242.4	27	0	34
Savusavu Airfield (1956-2019)	45	301.1	35	415.0	20	4	41
Udu Point	38	296.1	45	406.5	17	3	37
Rotuma (1912-2019)	28	632.5	24	860.4	48	1	38

TABLE 4: Seasonal Climate Outlooks using POAMA2 for August to October 2019

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Lakeba	27	192.0	24	298.0	49
Nadi	36	152.0	24	266.0	40
Nabouwalu	24	234.0	15	378.0	61
Udu Point	15	241.0	18	364.0	67
Vunisea	36	302.0	24	459.0	40
Suva	36	434.0	24	590.0	40
Rotuma	5	650.0	5	894.0	90

Summary Statements

Rainfall for June 2019:

Near normal rainfall was recorded across the Western and Central Divisions, with Lakeba and Vunisea in the Eastern Division and Savusavu Airfield in the Northern Division also experiencing the same condition. The other stations in the Eastern and Northern Divisions registered *above normal* rainfall. Rotuma also received *above normal* rainfall.

Accumulated rainfall for April to June 2019, including outlook verification:

Normal to *above normal* rainfall was recorded at a majority of the places, except for Labasa Airport, which recorded *below normal* rainfall.

The accumulated rainfall at Udu Point during the past three month was the wettest April to June period in the historical record of the station. Navua station also recorded the fourth wettest April to June on record.

The rainfall outlooks were 'Consistent' at 1 site, 'Near- Consistent' at 3 sites and 'Inconsistent' at 9 sites.

Outlooks for August to October 2019:

1. SCOPIC:

- *The outlook favours Below normal for Lautoka*
- *Below normal* rainfall is most likely at majority of the stations, with *near normal* rainfall the next likely outcome;
- The exceptions to above are Penang Mill in the Western Division, Nausori Airport in the Central Division, Vunisea in the Eastern Division and Udu Point in the Northern Division where there is a near-equal likelihood of *normal* and *below normal* rainfall; and
- The outlook for Rotuma shows *above normal* as the most likely outcome, with *below normal* the next is next likely. *Near normal* is the least likely.

2. POAMA:

The outlook favours *above normal* rainfall across the country.

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

Product	Date: June 2019	Stakeholder	Total Number of Participants	Number of male	Number of female
Fiji Climate Summary	05/06/2019	General public	140	106	34
Fiji Climate Outlook	11/06/2019	General public	124	93	31
Climate Outlook for Monasavu	11/06/2019	EFL	13	13	-
EAR Watch	05/06/2019	Humanitarian partners	122	96	26
Meteorological Data Requests	01/06/19 to 31/06/19	A range of stakeholders	39	34	5
Total			438	342	96