

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 140

Country: FIJI

TABLE 1: Monthly Rainfall

Station (include data period)	Feb-2019	Mar-2019	Apr-2019				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Western Division							
Penang Mill (1910-2019)	268.0	195.5	447.2	179.1	284.9	209.2	95/109
Lautoka Mill (1900-2019)	229.5	280.0	328.5	122.2	229.6	153.0	107/120
Nadi Airport (1942-2019)	84.6	268.3	323.7	111.8	209.4	149.2	69/77
Viwa (1978 -2019)	99.6	212.3	301.6	149.6	229.9	183.9	31/37
Central Division							
Laucala Bay (Suva) (1942-2019)	226.8	436.6	665.7	262.3	373.3	324.4	73/78
Nausori Airport (1957-2019)	262.5	418.5	647.3	261.2	384.7	321.9	60/63
Tokotoko (Navua) (1945-2019)	267.8	437.1	1023.4	304.3	453.7	354.7	74/75
Eastern Division							
Lakeba (1950-2019)	160.4	285.5	332.2	132.9	234.4	178.0	58/67
Vunisea (Kadavu) (1931-2019)	89.1	403.0	482.6	161.1	276.6	235.7	76/84
Ono-i-Lau (1943-2019)	355.7	273.0	235.6	103.2	221.5	181.1	53/72
Northern Division							
Labasa Airport (1946-2019)	271.6	240.0	132.6	149.9	287.1	244.7	18/64
Savusavu Airfield (1956-2019)	141.6	125.0	396.5	141.1	276.5	210.8	52/63
Rotuma (1912-2019)	296.8	452.1	226.7	205.9	303.2	258.2	41/107

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

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 November-December 2018				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Western Division											
Penang Mill (1910-2019)	910.7	Normal	838.0	1154.7	1020.1	46/109	49	31	20	8	Near-consistent
Lautoka Mill (1900-2019)	838.0	Normal	736.2	952.7	828.5	63/119	52	25	23	8	Near-consistent
Nadi Airport (1942-2019)	676.6	Below normal	680.5	950.1	815.2	27/76	51	35	14	14	Consistent
Viwa (1978 -2019)	613.5	Normal	592.2	764.8	698.0	14/37	54	29	17	16	Near-consistent
Central Division											
Laucala Bay (Suva) (1942-2019)	1329.1	Above normal	848.5	1054.5	932.5	67/78	37	25	38	-1	Consistent
Nausori Airport (1957-2019)	1328.3	Above normal	893.9	1042.6	960.0	57/63	28	34	38	0	Consistent
Tokotoko (Navua) (1945-2019)	1728.3	Above normal	998.5	1205.1	1101.8	71/74	33	28	39	-1	Consistent
Eastern Division											
Lakeba (1950-2019)	778.1	Normal	646.6	827.6	704.1	41/67	53	25	22	10	Near-consistent
Vunisea (Kadavu) (1931-2019)	974.7	Above normal	644.3	832.2	751.6	71/83	53	26	21	10	Inconsistent
Ono-i-Lau (1943-2019)	864.3	Above normal	479.5	737.6	594.4	60/70	43	34	23	3	Inconsistent
Northern Division											
Labasa Airport (1947-2019)	644.2	Below normal	833.3	1175.7	1030.5	11/62	46	27	27	3	Consistent
Savusavu Airfield (1957-2019)	663.1	Normal	638.9	832.1	699.4	28/60	45	28	27	3	Near-consistent
Rotuma (1912-2019)	975.6	Normal	882.1	1076.2	996.6	48/106	40	32	28	0	Near-consistent

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

Predictor and Period used: NINO3.4 for March to April 2019

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
<i>Western Division</i>						
Penang Mill (1910-2019)	55	193.3	45		-1	55
Lautoka Mill (1900-2019)	64	151.3	36		3	59
Nadi Airport (1942-2019)	62	167.9	38		1	54
Viwa (1978 -2019)	63	167.1	37		3	54
<i>Central Division</i>						
Lautoka Bay (Suva) (1942-2019)	63	436.2	37		1	54
Nausori Airport (1957-2019)	65	423.5	35		4	57
Tokotoko (Navua) (1945-2019)	70	567.7	30		4	54
<i>Eastern Division</i>						
Lakeba (1950-2019)	60	270.1	40		0	49
Vunisea (Kadavu) (1931-2019)	60	346.8	40		1	52
Ono-i-Lau (1943-2019)	61	289.2	39		1	57
<i>Northern Division</i>						
Labasa Airport (1946-2019)	60	145.3	40		0	54
Savusavu Airfield (1956-2019)	71	305.0	29		7	62
Rotuma (1912-2019)	39	693.4	61		1	60

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)	LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
<i>Western Division</i>							
Penang Mill (1910-2019)	41	166.8	29	227.1	30	-1	20
Lautoka Mill (1900-2019)	40	113.4	35	215.5	25	1	39
Nadi Airport (1942-2019)	50	114.8	29	205.5	21	3	42
Viwa (1978 -2019)	51	113.3	16	211.3	33	2	49
<i>Central Division</i>							
Lautoka Bay (Suva) (1942-2019)	43	363.8	35	528.5	22	1	41
Nausori Airport (1957-2019)	53	336.0	26	497.8	21	4	40
Tokotoko (Navua) (1945-2019)	42	468.2	39	654.8	19	4	39
<i>Eastern Division</i>							
Lakeba (1950-2019)	51	185.0	35	303.1	14	5	37
Vunisea (Kadavu) (1931-2019)	43	274.1	30	418.6	27	0	19
Ono-i-Lau (1943-2019)	47	252.2	27	344.6	26	2	40
<i>Northern Division</i>							
Labasa Airport (1946-2019)	44	111.7	27	178.7	29	0	46
Savusavu Airfield (1956-2019)	54	230.4	26	373.2	20	6	43
Rotuma (1912-2019)	21	576.0	37	785.2	42	2	45

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

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Lakeba	70	184.0	15	299.0	15
Nadi	79	126.0	12	215.0	9
Nabouwalu	61	212.0	24	316.0	15
Udu Point	58	159.0	21	295.0	21
Vunisea	79	294.0	12	448.0	9
Suva	79	359.0	12	501.0	9
Rotuma	46	587.0	27	843.0	27

Summary Statements

Rainfall for April 2019:

Above normal rainfall was recorded across the Western, Central and Eastern Divisions, together with Savusavu in the Northern Division. *Normal* rainfall was recorded at Rotuma, while Labasa was the lone station with *below normal* rainfall.

It was the second-wettest April on record at Tokotoko, while it was fourth-wettest April on record for Nausori Airport.

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

Above normal rainfall was recorded across the Central Division, together with Vunisea and Ono-i-Lau in the Eastern Division. *Normal* rainfall was recorded at the majority of the stations in the Western Division, Lakeba (Eastern Division), Savusavu Airfield (Northern Division) and Rotuma. On the other hand, *below normal* rainfall was recorded at Nadi and Labasa Airport.

The forecasts for the February to April 2019 period were 'consistent' at 5 stations, 'near-consistent' at 6 stations and 'inconsistent' at 2 stations.

The accumulated rainfall at Tokotoko over February to April 2019, was the station's fourth-wettest on record for this period.

Outlooks for June to August 2019:

1. SCOPIC:

Western, Central, Eastern and Northern Divisions: *Below normal* rainfall is the most likely outcome across all four Divisions.

Rotuma: *above normal* rainfall is the most likely outcome, with *normal* as the next most likely.

2. POAMA:

Below normal rainfall is the most likely outcome across the country.

NB: The X LEPS % score has been categorised as follows:

Very Low: $X < 0.0$

Low: $0 \leq X < 5$

Moderate $5 \leq X < 10$

Good: $10 \leq X < 15$

High: $15 \leq X < 25$

Very High: $25 \leq X < 35$ Exceptional: $X \geq 35$

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

Product	Date: April 2019	Stakeholder	Total Number of Participants	Number of male	Number of female
Fiji Climate Summary	05/04/2019	General public	140	106	34
Fiji Climate Outlook	09/04/ 2019	General public	124	93	31
Climate Outlook for Monasavu	09/04/ 2019	EFL	13	13	-
EAR Watch	05/04/ 2019	Humanitarian partners	122	96	26
Fiji Sugarcane Rainfall Outlook	25/04/2019	Sugar industry stakeholders	77	60	17
Consultation meeting with Ministry of Health & Medical Services	10/04/ 2019	Ministry of Health & Médical Services	15	10	5
Total			414	318	96