

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 141

Country: Fiji

TABLE 1: Monthly Rainfall

Station (include data period)	Mar-2019	Apr-2019	May-2019				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Western Division							
Penang Mill (1910-2019)	195.5	447.2	29.5	61.7	164.1	106.9	15/110
Lautoka Mill (1900-2019)	280.0	328.5	6.2	39.1	93.8	63.6	10/120
Nadi Airport (1942-2019)	268.3	323.7	2.2	42.6	104.1	71.8	3/77
Central Division							
Laucala Bay (Suva) (1942-2019)	436.6	665.7	115.6	174.5	262.3	196.8	12/78
Nausori Airport (1957-2019)	418.5	647.3	65.9	160.8	253.0	198.2	2/63
Tokotoko (Navua) (1945-2019)	437.1	1023.4	153.2	184.1	321.8	254.3	16/75
Eastern Division							
Lakeba (1950-2019)	285.5	332.2	57.5	82.4	171.2	110.3	15/69
Vunisea (Kadavu) (1931-2019)	403.0	482.6	125.3	111.2	210.6	146.1	35/83
Ono-i-Lau (1943-2019)	273.0	235.6	112.4	64.2	150.7	102.3	41/72
Northern Division							
Labasa Airport (1946-2019)	240.0	132.6	5.1	56.1	118.4	84.9	2/64
Savusavu Airfield (1956-2019)	125.0	396.5	131.9	118.1	200.8	155.1	26/62
Udu Point (1950 -2019)	540.7	836.6	137.6	100.3	175.6	144.4	35/71
Rotuma (1912-2019)	452.1	226.7	377.6	219.6	336.4	271.8	81/106

TABLE 2: Three-month Rainfall for March to May 2019

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 December 18-January 19				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
<i>Western Division</i>											
Penang Mill (1910-2019)	672.2	Normal	642.3	912.0	774.0	47/109	47	29	24	8	Near-consistent
Lautoka Mill (1900-2019)	614.7	Normal	513.5	715.1	600.5	69/119	48	29	23	10	Near-consistent
Nadi Airport (1942-2019)	594.2	Normal	508.1	655.7	583.8	39/76	48	30	22	10	Near-consistent
<i>Central Division</i>											
Laucala Bay (Suva) (1942-2019)	1217.9	Above normal	812.9	1065.8	906.3	64/78	40	32	28	1	Inconsistent
Nausori Airport (1957-2019)	1131.7	Above normal	803.1	1009.3	907.8	48/63	37	31	32	-1	Inconsistent
Tokotoko (Navua) (1945-2019)	1613.7	Above normal	929.0	1203.4	1023.1	69/75	37	30	33	-1	Inconsistent
<i>Eastern Division</i>											
Lakeba (1950-2019)	675.2	Normal	542.9	721.5	636.7	39/67	45	29	26	5	Near-consistent
Vunisea (Kadavu) (1931-2019)	1010.9	Above normal	635.3	761.2	706.4	74/82	47	29	24	9	Inconsistent
Ono-i-Lau (1943-2019)	621.0	Normal	457.9	646.8	525.2	44/70	42	34	24	4	Near-consistent
<i>Northern Division</i>											
Labasa Airport (1947-2019)	377.7	Below normal	563.7	848.3	706.8	7/63	40	32	28	1	Consistent
Savusavu Airfield (1957-2019)	653.4	Normal	567.9	736.6	662.2	29/61	44	31	25	7	Near-consistent
Udu Point (1950 -2019)	1514.9	Above normal	614.8	829.6	713.4	70/70	38	36	26	1	Inconsistent
Rotuma (1912-2019)	1056.4	Above normal	812.3	998.8	945.8	73/105	32	31	37	-1	Consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for July to September 2019

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

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Western Division						
Penang Mill (1910-2019)	61	187.2	39		1	52
Lautoka Mill (1900-2019)	61	156.2	39		1	54
Nadi Airport (1942-2019)	61	175.1	39		2	52
Central Division						
Laucala Bay (Suva) (1942-2019)	62	464.6	38		2	51
Nausori Airport (1957-2019)	56	436.8	44		-1	44
Tokotoko (Navua) (1945-2019)	69	594.7	31		7	52
Eastern Division						
Lakeba (1950-2019)	59	233.2	41		0	52
Vunisea (Kadavu) (1931-2019)	59	345.3	41		0	54
Ono-i-Lau (1943-2019)	53	295.5	47		-1	51
Northern Division						
Labasa Airport (1946-2019)	63	153.0	37		2	53
Savusavu Airfield (1956-2019)	68	305.5	32		5	61
Udu Point (1950-2019)	77	288.8	23		13	64
Rotuma (1912-2019)	50	637.9	50		-2	26

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	130.5	30	229.6	20	4	40
Lautoka Mill (1900-2019)	51	112.7	27	219.6	22	3	25
Nadi Airport (1942-2019)	53	128.8	25	213.9	22	4	29
Central Division							
Laucala Bay (Suva) (1942-2019)	51	384.2	26	562.5	23	4	39
Nausori Airport (1957-2019)	33	365.4	46	527.9	21	0	21
Tokotoko (Navua) (1945-2019)	51	523.7	32	671.8	17	7	46
Eastern Division							
Lakeba (1950-2019)	38	203.0	40	312.9	22	0	33
Vunisea (Kadavu) (1931-2019)	41	277.0	35	397.8	24	1	34
Ono-i-Lau (1943-2019)	42	252.6	32	344.5	26	0	38
Northern Division							
Labasa Airport (1946-2019)	45	105.7	36	188.1	19	2	31
Savusavu Airfield (1956-2019)	56	237.5	15	336.0	29	3	43
Udu Point (1950-2019)	53	229.3	26	336.0	21	6	41
Rotuma (1912-2019)	34	565.5	27	762.2	39	-2	35

TABLE 4: Seasonal Climate Outlooks using POAMA2 for July to September 2019

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Lakeba	49	174.0	24	303.0	27
Nadi	49	142.0	21	198.0	30
Nabouwalu	42	183.0	16	297.0	42
Udu Point	45	151.0	13	295.0	42
Vunisea	48	298.0	22	413.0	30
Suva	48	369.0	22	602.0	30
Rotuma	21	573.0	12	784.0	67

Summary Statements

Rainfall for May 2019:

Below normal rainfall was recorded across the Western and Central Divisions, with Labasa Airport in the Northern Division and Lakeba in the Eastern Division also experiencing the same condition. The other stations in the Eastern and Northern Divisions registered *near normal* rainfall. In contrast, Rotuma received *above normal* rainfall.

Nausori Airport and Labasa Airport recorded their second-driest May on record, while at Nadi Airport and Tokotoko it was the third-driest.

Accumulated rainfall for March to May 2019, including outlook verification:

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

At Udu Point it was the wettest March to May period on record.

The rainfall outlooks were 'Consistent' at 2 sites, 'Near- Consistent' at 6 sites and 'Inconsistent' at 5 sites.

Outlooks for July to September 2019:

1. SCOPIC:

- *Below normal* rainfall is the favoured or most likely outcome at a majority of the places, with *near normal* rainfall the next likely outcome;
- The exceptions to above are Nausori Airport in the Central Division where *near normal* rainfall is most likely with *below normal* rainfall the next likely outcome; and Lakeba in the Eastern Division where there is a near-equal likelihood of *below normal* or *normal* rainfall; and
- The outlook for Rotuma shows *above normal* as the most likely outcome, with *below normal* the next most likely; *near normal* is the least likely.

2. POAMA:

The outlook shows *below normal* rainfall as the most likely at Lakeba, Nadi, Vunisea and Suva, *above normal* the most likely at Rotuma, while at Nabouwalu and Udu Point the outlook is mixed with near-equal chances of *above normal* and *below normal* rainfall.

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

Product	Date: May 2019	Stakeholder	Total Number of Participants	Number of male	Number of female
Fiji Climate Summary	07/05/2019	General public	140	106	34
Fiji Climate Outlook	13/05/2019	General public	124	93	31
Climate Outlook for Monasavu	09/05/2019	EFL	13	13	-
EAR Watch	09/05/2019	Humanitarian partners	122	96	26
ENSO Update	24/05/2019	General public	124	93	31
Meteorological Data Requests	01/05/19 to 31/05/19	A range of stakeholders	79	72	7
Total			602	473	129