

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 137

Country: Fiji

TABLE 1: Monthly Rainfall

Station (include data period)	Nov-2018	Dec-2018	Jan-2019				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Western Division							
Penang Mill (1910-2019)	69.6	86.1	250.0	243.7	462.5	340.2	44/110
Lautoka Mill (1900-2019)	74.9	135.6	219.9	211.2	410.8	316.7	50/119
Nadi Airport (1942-2019)	97.5	99.8	402.5	224.0	355.6	301.8	57/78
Viwa (1978 -2019)	81.9	128.2	366.1	106.5	308.5	204.7	29/38
Central Division							
Laucala Bay (Suva) (1942-2019)	321.3	361.0	493.4	253.6	388.5	315.3	63/78
Nausori Airport (1957-2019)	444.4	449.6	643.8	264.3	398.7	318.3	61/63
Tokotoko (Navua) (1945-2019)	201.2	459.6	510.6	272.4	411.0	342.8	62/74
Eastern Division							
Lakeba (1950-2019)	111.0	136.1	431.5	172.3	299.3	239.9	59/69
Vunisea (Kadavu) (1931-2019)	104.6	304.3	290.9	172.1	298.0	243.3	59/84
Ono-i-Lau (1943-2019)	63.0	19.6	235.2	130.4	228.3	184.4	50/72
Northern Division							
Labasa Airport (1946-2019)	51.0	159.1	362.0	231.7	463.5	373.9	31/62
Savusavu Airfield (1956-2019)	92.7	193.7	569.6	195.0	318.0	253.8	57/60
Rotuma (1912-2019)	89.9	459.6	288.8	269.0	414.2	336.4	40/107

TABLE 2: Three-month Rainfall for November 2018 to January 2019

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 August-September 2018				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Western Division											
Penang Mill (1910-2019)	405.7	Below normal	561.7	812.0	682.0	18/104	40	33	27	16	Consistent
Lautoka Mill (1900-2019)	430.4	Normal	417.0	687.0	560.7	42/119	41	39	20	33	Near-consistent
Nadi Airport (1942-2019)	599.8	Normal	429.8	743.4	661.6	35/76	43	39	18	31	Near-consistent
Viwa (1978 -2019)	576.2	Normal	332.9	626.9	485.7	23/36	38	41	21	28	Consistent
Central Division											
Laucala Bay (Suva) (1942-2019)	1175.7	Above normal	685.1	1041.5	877.6	65/77	37	38	25	4	Near-consistent
Nausori Airport (1957-2019)	1537.8	Above normal	743.0	1034.3	857.1	62/63	39	36	25	12	Inconsistent
Tokotoko (Navua) (1945-2019)	1171.4	Above normal	865.3	1128.4	938.4	55/72	39	31	30	6	Inconsistent
Eastern Division											
Lakeba (1950-2019)	678.6	Normal	464.5	678.8	585.3	46/69	41	38	21	17	Near-consistent
Vunisea (Kadavu) (1931-2019)	699.8	Above normal	447.1	648.9	529.8	56/81	40	35	25	12	Inconsistent
Ono-i-Lau (1943-2019)	317.8	Below normal	364.2	523.8	452.2	22/69	43	40	17	26	Consistent
Northern Division											
Labasa Airport (1947-2019)	572.1	Normal	568.1	936.2	666.6	20/57	39	44	17	31	Consistent
Savusavu Airfield (1957-2019)	856.0	Above normal	569.9	728.0	658.7	44/59	39	35	26	13	Inconsistent
Rotuma (1912-2019)	838.3	Below normal	887.7	1078.0	982.6	29/103	40	33	27	9	Consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for March to May 2019**Predictor and Period used: NINO3.4 for December 2018 to January 2019**

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Western Division						
Penang Mill (1910-2019)	67	774.0	33		12	63
Lautoka Mill (1900-2019)	60	600.5	40		4	62
Nadi Airport (1942-2019)	62	583.8	38		7	65
Viwa (1978 -2019)	81	581.6	19		40	78
Central Division						
Laucala Bay (Suva) (1942-2019)	53	906.3	47		-1	52
Nausori Airport (1957-2019)	56	907.8	44		1	53
Tokotoko (Navua) (1945-2019)	57	1023.1	43		2	55
Eastern Division						
Lakeba (1950-2019)	58	636.7	42		3	60
Vunisea (Kadavu) (1931-2019)	61	706.4	39		5	64
Ono-i-Lau (1943-2019)	61	525.2	39		6	63
Northern Division						
Labasa Airport (1946-2019)	53	706.8	47		-1	52
Savusavu Airfield (1956-2019)	61	662.2	39		6	63
Rotuma (1912-2019)	47	945.8	53		-1	48

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)	47	642.3	29	912.0	24	8	52
Lautoka Mill (1900-2019)	48	513.5	29	715.1	23	10	47
Nadi Airport (1942-2019)	48	508.1	30	655.7	22	10	53
Viwa (1978 -2019)	55	470.0	36	673.2	9	32	61
Central Division							
Laucala Bay (Suva) (1942-2019)	40	812.9	32	1065.8	28	1	40
Nausori Airport (1957-2019)	37	803.1	31	1009.3	32	-1	19
Tokotoko (Navua) (1945-2019)	37	929.0	30	1203.4	33	-1	37
Eastern Division							
Lakeba (1950-2019)	45	542.9	29	721.5	26	5	31
Vunisea (Kadavu) (1931-2019)	47	635.3	29	761.2	24	9	46
Ono-i-Lau (1943-2019)	42	457.9	34	646.8	24	4	44
Northern Division							
Labasa Airport (1946-2019)	40	563.7	32	848.3	28	1	39
Savusavu Airfield (1956-2019)	44	567.9	31	736.6	25	7	47
Rotuma (1912-2019)	32	812.3	31	998.8	37	-1	34

TABLE 4: Seasonal Climate Outlooks using POAMA2 for March to May 2019

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Lakeba	52	448.0	24	732.0	24
Nadi	52	469.0	36	547.0	12
Nabouwalu	42	623.0	49	885.0	9
Udu Point	49	590.0	27	807.0	24
Vunisea	52	636.0	36	756.0	12
Suva	52	807.0	36	971.0	12
Rotuma	49	836.0	24	1043.0	27

Summary Statements

Rainfall for January 2019:

Normal to above normal rainfall was recorded over the Western, Eastern and Northern Divisions, and Rotuma, while *above normal* rainfall was recorded in the Central Division.

Nausori Airport recorded its 3rd wettest January on record, while Savusavu Airfield recorded its 4th wettest January on record.

Accumulated rainfall for November 2018 to January 2019, including outlook verification:

Normal to above normal rainfall was recorded at most parts of the country, except for Penang Mill, Ono-i-Lau and Rotuma, which recorded *below normal* rainfall.

Nausori Airport recorded its second-highest November to January rainfall in its 63 years of record.

The rainfall outlooks were 'Consistent' at 5 sites, 'Near- Consistent' at 4 sites and 'Inconsistent' at 4 sites.

Outlooks for March to May 2019:

1. SCOPIC:

- **Western Division, Eastern Division, Northern Division and Laucala Bay (Central Division)**
The outlook shows *below normal* as the most likely, with *normal* the next most likely;
- **Nausori Airport, Tokotoko (Navua) and Rotuma:** The outlook offers little guidance, as the chances of *below normal*, *normal* and *above normal* are similar.

2. POAMA: The outlook favours *below normal* across the country.

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

Country	Date: January 2019	Stakeholder	Total Number of Participants	Number of male	Number of female
	None for Fiji				