

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 139

Country: Fiji

TABLE 1: Monthly Rainfall

Station (include data period)	Jan-2019	Feb-2019	Mar-2019				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
<i>Western Division</i>							
Penang Mill (1910-2019)	250.0	268.0	195.5	289.1	458.9	381.3	23/110
Lautoka Mill (1900-2019)	219.9	229.5	280.0	226.3	415.8	301.8	59/119
Nadi Airport (1942-2019)	402.5	84.6	268.3	243.0	414.1	321.2	31/76
Viwa (1978 -2019)	366.1	99.6	212.3	184.0	293.2	230.7	17/37
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2019)	493.4	226.8	436.6	296.5	420.0	338.2	54/78
Nausori Airport (1957-2019)	643.8	262.5	418.5	302.5	435.9	354.9	40/63
Tokotoko (Navua) (1945-2019)	510.6	267.8	437.1	312.6	439.0	378.0	49/75
<i>Eastern Division</i>							
Lakeba (1950-2019)	431.5	160.4	285.5	211.9	332.8	260.2	37/69
Vunisea (Kadavu) (1931-2019)	290.9	89.1	403.0	227.9	307.6	282.6	70/83
Ono-i-Lau (1943-2019)	235.2	355.7	273.0	156.2	295.0	221.3	47/72
<i>Northern Division</i>							
Labasa Airport (1946-2019)	362.0	271.6	240.0	266.5	434.9	343.6	15/63
Savusavu Airfield (1956-2019)	569.6	141.6	125.0	185.0	278.6	230.2	6/62
Rotuma (1912-2019)	288.8	296.8	452.1	274.6	405.5	326.4	78/106

**TABLE 2: Three-month Rainfall for January to March 2019**

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 October - November 2018				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
<i>Western Division</i>											
Penang Mill (1910-2019)	713.5	Below normal	1045.7	1256.0	1133.0	18/110	63	28	9	25	Consistent
Lautoka Mill (1900-2019)	729.4	Below normal	867.3	1147.3	1029.1	33/119	56	33	11	20	Consistent
Nadi Airport (1942-2019)	755.4	Below normal	828.6	1136.4	938.8	22/76	59	29	12	21	Consistent
Viwa (1978 -2019)	678.0	Normal	625.9	838.0	725.2	15/37	64	30	6	28	Near-consistent
<i>Central Division</i>											
Laucala Bay (Suva) (1942-2019)	1156.8	Above normal	853.0	1069.5	996.4	56/78	39	32	29	-1	Inconsistent
Nausori Airport (1957-2019)	1324.8	Above normal	883.8	1071.4	958.6	57/63	40	27	33	-1	Inconsistent
Tokotoko (Navua) (1945-2019)	1215.5	Normal	910.5	1230.8	1068.2	49/74	38	23	39	-1	Near-consistent
<i>Eastern Division</i>											
Lakeba (1950-2019)	877.4	Normal	658.3	884.4	765.0	45/68	54	33	13	17	Near-consistent
Vunisea (Kadavu) (1931-2019)	783.0	Normal	664.8	876.6	789.1	47/83	45	26	29	1	Near-consistent
Ono-i-Lau (1943-2019)	863.9	Above normal	484.6	751.3	618.4	58/70	43	31	26	1	Inconsistent
<i>Northern Division</i>											
Labasa Airport (1947-2019)	873.6	Below normal	973.0	1305.0	1119.0	19/61	58	22	20	16	Consistent
Savusavu Airfield (1957-2019)	836.2	Normal	671.7	861.5	780.7	37/58	50	25	25	7	Near-consistent
Rotuma (1912-2019)	1037.7	Normal	904.0	1152.9	1043.5	52/106	58	30	12	18	Near-consistent

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

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

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
<b>Western Division</b>						
Penang Mill (1910-2019)	69	254.8	31		8	62
Lautoka Mill (1900-2019)	83	179.2	17		25	74
Nadi Airport (1942-2019)	73	174.8	27		12	65
Viwa (1978 -2019)	74	200.5	26		15	69
<b>Central Division</b>						
Laucala Bay (Suva) (1942-2019)	80	509.5	20		20	65
Nausori Airport (1957-2019)	86	508.9	14		31	74
Tokotoko (Navua) (1945-2019)	68	642.0	32		9	60
<b>Eastern Division</b>						
Lakeba (1950-2019)	70	319.1	30		10	53
Vunisea (Kadavu) (1931-2019)	63	389.3	37		3	58
Ono-i-Lau (1943-2019)	72	303.1	28		12	66
<b>Northern Division</b>						
Labasa Airport (1946-2019)	74	197.6	26		14	65
Savusavu Airfield (1956-2019)	78	358.5	22		21	73
Rotuma (1912-2019)	45	789.8	55		0	55

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)	LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
<b>Western Division</b>							
Penang Mill (1910-2019)	55	169.0	31	301.9	14	12	52
Lautoka Mill (1900-2019)	62	141.4	24	219.0	14	18	46
Nadi Airport (1942-2019)	55	140.5	30	241.5	15	12	48
Viwa (1978 -2019)	62	173.4	20	249.8	18	15	33
<b>Central Division</b>							
Laucala Bay (Suva) (1942-2019)	58	442.7	29	615.2	13	16	51
Nausori Airport (1957-2019)	65	423.6	22	580.8	13	21	47
Tokotoko (Navua) (1945-2019)	60	555.0	29	743.1	11	19	53
<b>Eastern Division</b>							
Lakeba (1950-2019)	65	250.3	21	364.1	14	19	50
Vunisea (Kadavu) (1931-2019)	44	338.5	38	450.5	18	4	43
Ono-i-Lau (1943-2019)	56	227.7	28	369.4	16	13	48
<b>Northern Division</b>							
Labasa Airport (1946-2019)	57	152.1	29	258.4	14	16	48
Savusavu Airfield (1956-2019)	60	295.9	25	460.0	15	17	48
Rotuma (1912-2019)	29	680.2	35	862.7	36	-1	21

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

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Lakeba	91	214.0	5	368.0	4
Nadi	94	149.0	5	206.0	1
Nabouwalu	76	240.0	19	393.0	5
Udu Point	73	215.0	22	355.0	5
Vunisea	94	358.0	5	422.0	1
Suva	94	415.0	5	560.0	1
Rotuma	82	758.0	9	863.0	9

### **Summary Statements**

#### **Rainfall for March 2019:**

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

Savusavu Airfield recorded its sixth-lowest March monthly rainfall.

#### **Accumulated rainfall for January to March 2019, including outlook verification:**

*Normal* to above *normal* rainfall was recorded in most parts of the country, except for the Western and Northern Division sites of Penang Mill, Lautoka Mill, Nadi Airport and Labasa Airport, which recorded *below normal* rainfall.

Nausori Airport recorded its seventh-highest January to March rainfall in its 63 years of record.

The rainfall outlooks were 'Consistent' at 4 sites, 'Near- Consistent' at 6 sites and 'Inconsistent' at 3 sites.

#### **Outlooks for May to July 2019:**

##### **1. SCOPIC:**

- **Western Division, Central Division, Northern Division, plus Lakeba and Oni-i-Lau (Eastern Division):** The outlook favours *below normal rainfall*;
- **Vunisea (Eastern Division):** The outlook shows *below normal* as the most likely outcome; and
- **Rotuma:** The outlook offers little guidance, as the chances of *below normal*, *normal* and *above normal* rainfall are similar.

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

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

<b>Product</b>	<b>Date: March 2019</b>	<b>Stakeholder</b>	<b>Total Number of Participants</b>	<b>Number of male</b>	<b>Number of female</b>
Fiji Climate Summary	07/03/19	General public	140	106	34
Fiji Climate Outlook	13/03/19	General public	124	93	31
Climate Outlook for Monasavu	12/03/19	EFL	13	13	13
EAR Watch	11/03/19	Humanitarian partners	122	96	26
Consultation meeting with sugar industry statekholders on El Niño	26/03/19	Sugar industry stakeholders	43	40	3
<b>Total</b>			<b>442</b>	<b>348</b>	<b>107</b>