

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 144

Country: Fiji

TABLE 1: Monthly Rainfall

Station (include data period)	Jun-2019	Jul-2019	Aug-2019				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
<i>Western Division</i>							
Penang Mill (1910-2019)	64.0	59.8	17.5	37.1	74.7	51.6	23/110
Lautoka Mill (1900-2019)	49.7	61.2	24.6	21.1	63.2	39.3	42/120
Nadi Airport (1942-2019)	58.1	65.0	20.3	26.0	67.3	49.6	22/78
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2019)	134.8	214.0	86.6	92.4	151.1	126.7	22/78
Nausori Airport (1957-2019)	190.5	226.4	58.5	90.2	167.0	117.0	12/63
Tokotoko (Navua) (1945-2019)	217.5	244.5	144.4	130.0	207.5	169.8	27/74
<i>Eastern Division</i>							
Lakeba (1950-2019)	124.9	57.6	24.5	53.3	98.0	73.0	13/70
Vunisea (Kadavu) (1931-2019)	115.1	254.3	78.9	60.5	128.6	86.2	37/83
Ono-i-Lau (1943-2019)	162.1	80.0	23.0	56.1	108.5	88.0	6/72
<i>Northern Division</i>							
Labasa Airport (1946-2019)	129.9	46.1	33.2	13.4	63.6	48.5	28/63
Savusavu Airfield (1956-2019)	135.8	99.8	65.5	58.7	104.8	82.4	25/64
Udu Point (1946-2019)	260.5	65.2	36.0	43.0	105.2	81.0	21/70
Rotuma (1912-2019)	403.2	140.8	319.9	128.0	222.0	168.7	84/104

**TABLE 2: Three-month Rainfall for June to August 2019**

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 March-April 2019				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
<i>Western Division</i>											
Penang Mill (1910-2019)	141.3	Below normal	166.8	227.1	193.3	34/110	41	29	30	-1	Consistent
Lautoka Mill (1900-2019)	135.5	Normal	113.4	215.5	151.3	52/120	41	35	24	1	Near-consistent
Nadi Airport (1942-2019)	143.4	Normal	114.8	205.5	167.9	35/78	50	29	21	3	Near-consistent
<i>Central Division</i>											
Laucala Bay (Suva) (1942-2019)	435.4	Normal	363.8	528.5	436.2	38/78	43	35	22	1	Near-consistent
Nausori Airport (1957-2019)	475.4	Normal	336.0	497.8	423.5	37/63	53	26	21	4	Near-consistent
Tokotoko (Navua) (1945-2019)	606.4	Normal	468.2	654.8	567.7	44/73	42	39	19	4	Near-consistent
<i>Eastern Division</i>											
Lakeba (1950-2019)	207.0	Normal	185.0	303.1	270.1	25/68	51	35	14	5	Near-consistent
Vunisea (Kadavu) (1931-2019)	448.3	Above normal	274.1	418.6	346.8	63/81	43	30	27	0	Inconsistent
Ono-i-Lau (1943-2019)	265.1	Normal	252.2	344.6	289.2	31/69	47	27	26	2	Near-consistent
<i>Northern Division</i>											
Labasa Airport (1947-2019)	209.2	Above normal	111.7	178.7	145.3	44/62	44	27	29	0	Inconsistent
Savusavu Airfield (1957-2019)	301.1	Normal	230.4	373.2	305.0	30/61	54	26	20	6	Near-consistent
Udu Point (1946-2019)	361.7	Normal	248.1	391.2	306.1	44/69	49	34	17	6	Near-consistent
Rotuma (1912-2019)	863.9	Above normal	576.0	785.2	693.4	76/102	21	37	42	2	Consistent

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

Predictor and Period used: NINO3.4 for July to August 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)	62	471.8	38		14	67
Lautoka Mill (1900-2019)	67	360.4	33		20	71
Nadi Airport (1942-2019)	69	377.7	31		26	73
<b>Central Division</b>						
Laucala Bay (Suva) (1942-2019)	58	760.7	42		5	59
Nausori Airport (1957-2019)	57	700.9	43		6	57
Tokotoko (Navua) (1945-2019)	61	887.9	39		11	65
<b>Eastern Division</b>						
Lakeba (1950-2019)	63	427.5	37		15	69
Vunisea (Kadavu) (1931-2019)	68	465.1	32		23	68
Ono-i-Lau (1943-2019)	72	348.3	28		34	80
<b>Northern Division</b>						
Labasa Airport (1946-2019)	63	483.2	37		22	69
Savusavu Airfield (1956-2019)	64	518.8	36		22	71
Udu Point (1946-2019)	55	622.0	45		1	55
Rotuma (1912-2019)	58	946.7	42		5	57

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)	44	351.4	32	595.3	24	15	49
Lautoka Mill (1900-2019)	47	292.0	35	441.3	18	24	48
Nadi Airport (1942-2019)	46	327.5	34	493.7	20	19	48
<b>Central Division</b>							
Laucala Bay (Suva) (1942-2019)	39	554.1	34	868.6	27	3	42
Nausori Airport (1957-2019)	39	568.7	34	894.7	27	6	42
Tokotoko (Navua) (1945-2019)	41	769.0	32	1043.2	27	7	46
<b>Eastern Division</b>							
Lakeba (1950-2019)	43	338.3	31	535.6	26	10	40
Vunisea (Kadavu) (1931-2019)	44	313.6	38	532.6	18	14	53
Ono-i-Lau (1943-2019)	48	218.8	34	416.9	18	23	59
<b>Northern Division</b>							
Labasa Airport (1946-2019)	43	361.8	40	605.9	17	23	55
Savusavu Airfield (1956-2019)	42	421.9	32	626.5	26	13	43
Udu Point (1946-2019)	42	543.0	27	734.8	31	3	38
Rotuma (1912-2019)	37	813.6	32	1054.3	31	1	37

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

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Lakeba	27	307.0	18	419.0	55
Nadi	49	305.0	12	410.0	39
Nabouwalu	21	344.0	12	648.0	67
Udu Point	15	437.0	12	605.0	73
Vunisea	49	314.0	12	519.0	39
Suva	49	505.0	12	763.0	39
Rotuma	15	828.0	6	1026.0	79

### Summary Statements

#### Rainfall for August 2019:

*Below normal to normal* rainfall was recorded across the Western, Central, Eastern and Northern Divisions, while *above normal* rainfall was registered at Rotuma.

Ono-i-Lau recorded its 6<sup>th</sup> driest August on record.

#### Accumulated rainfall for June to August 2019, including outlook verification:

*Normal to above normal* rainfall was recorded at most parts of the country, except for Penang Mill, which recorded *below normal* rainfall.

The rainfall outlooks were 'Consistent' at two sites, 'Near-Consistent' at nine sites and 'Inconsistent' at two sites.

#### 1. Outlooks for October to December 2019:

##### 2. SCOPIC:

- **Western, Central and Eastern Divisions, and Savusavu Airfield and Udu Point (Northern Division):** The outlook favours *below normal* rainfall, with *near normal* the next most likely.
- **Labasa Airport (Northern Division):** The outlook shows near equal likelihood of *below normal and normal rainfall*.
- **Rotuma:** The outlook offers little guidance as the chances of *above normal, normal and below normal* rainfall are similar.

##### 3. POAMA:

The outlook favours *above normal* rainfall at Lakeba, Nabouwalu, Udu Point and Rotuma, while *below normal* rainfall is favoured at Nadi, Vunisea and Suva.

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

<b>Product</b>	<b>Date: August 2019</b>	<b>Stakeholder</b>	<b>Total Number of Participants</b>	<b>Number of male</b>	<b>Number of female</b>
Fiji Climate Summary	07/08/2019	General public	140	106	34
Fiji Climate Outlook	13/08/2019	General public	124	93	31
Climate Outlook for Monasavu	08/08/2019	Energy Fiji Limited	13	13	-
EAR Watch	06/08/2019	Humanitarian partners	122	96	26
Meteorological Data Requests	01/08/19 to 31/08/19	A range of stakeholders	32	27	5
<b>Total</b>			<b>431</b>	<b>335</b>	<b>96</b>