

# Pacific Islands - Online Climate Outlook Forum (OCOF) No. 145

Country: Fiji

**TABLE 1: Monthly Rainfall**

Station (include data period)	Jul-2019	Aug-2019	Sep-2019					Rank
			Total (mm)	33%tile	67%tile	Median		
	Total (mm)	Total (mm)	Rainfall (mm)					
<i>Western Division</i>								
Penang Mill (1910-2019)	59.8	17.5	74.8	37.9	100.9	59.9	61/109	
Lautoka Mill (1900-2019)	61.2	24.6	114.6	31.5	87.8	56.0	95/120	
Nadi Airport (1942-2019)	65.0	20.3	89.7	36.1	88.2	62.5	53/78	
<i>Central Division</i>								
Laucala Bay (Suva) (1942-2019)	214.0	86.6	307.2	119.1	218.5	147.7	61/78	
Nausori Airport (1957-2019)	226.4	58.5	217.1	107.7	196.2	144.0	45/63	
Tokotoko (Navua) (1945-2019)	244.5	144.4	242.0	156.6	288.6	214.4	43/74	
<i>Eastern Division</i>								
Lakeba (1950-2019)	57.6	24.5	69.8	66.3	120.6	90.6	26/70	
Vunisea (Kadavu) (1931-2019)	254.3	78.9	76.9	93.2	169.7	132.5	28/82	
Ono-i-Lau (1943-2019)	80.0	23.0	90.1	70.1	118.3	91.4	35/72	
<i>Northern Division</i>								
Labasa Airport (1946-2019)	46.1	33.2	116.4	36.8	77.3	57.7	50/62	
Savusavu Airfield (1956-2019)	99.8	65.5	48.0	79.8	132.4	107.0	11/62	
Udu Point	65.2	36.0	159.7	70.9	144.2	107.0	51/70	
Rotuma (1912-2019)	140.8	319.9	248.2	169.0	271.0	210.4	70/103	

**TABLE 2: Three-month Rainfall for July to September 2019**

Station	Three-month Total	33%tile	67%tile	Median	Rank	SCOPIIC forecast probabilities based on NINO3.4 April-May 2019				Verification: Consistent, Near-consistent, Inconsistent?	
	Rainfall (mm)					B-N	N	A-N	LEPS		
<i>Western Division</i>											
Penang Mill (1910-2019)	152.1	Normal	130.5	229.6	187.2	39/109	50	30	20	4	Near-consistent
Lautoka Mill (1900-2019)	200.4	Normal	112.7	219.6	156.2	71/120	51	27	22	3	Near-consistent
Nadi Airport (1942-2019)	175.0	Normal	128.8	213.9	175.1	40/78	53	25	22	4	Near-consistent
<i>Central Division</i>											
Laucala Bay (Suva) (1942-2019)	607.8	Above normal	384.2	562.5	464.6	62/78	51	26	23	4	Inconsistent
Nausori Airport (1957-2019)	502.0	Normal	365.4	527.9	436.8	39/63	33	46	21	0	Consistent
Tokotoko (Navua) (1945-2019)	630.9	Normal	523.7	671.8	594.7	40/73	51	32	17	7	Near-consistent
<i>Eastern Division</i>											
Lakeba (1950-2019)	151.9	Below normal	203.0	312.9	233.2	14/68	38	40	22	0	Near-consistent
Vunisea (Kadavu) (1931-2019)	410.1	Above normal	277.0	397.8	345.3	62/81	41	35	24	1	Inconsistent
Ono-i-Lau (1943-2019)	193.1	Below normal	252.6	344.5	295.5	15/71	42	32	26	0	Consistent
<i>Northern Division</i>											
Labasa Airport (1947-2019)	195.7	Above normal	105.7	188.1	153.0	42/62	45	36	19	2	Inconsistent
Savusavu Airfield (1957-2019)	213.3	Below normal	237.5	336.0	305.5	16/62	56	15	29	3	Consistent
Udu Point	260.9	Normal	229.3	336.0	288.8	29/69	53	26	21	6	Near-consistent
Rotuma (1912-2019)	708.9	Normal	565.5	762.2	637.9	58/102	34	27	39	-2	Near-consistent

**TABLE 3: Seasonal Climate Outlooks using SCOPIC for November 2019 to January 2020**

Predictor and Period used: NINO3.4 for August to September 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)	54	718.0	46		14	65
Lautoka Mill (1900-2019)	60	622.0	40		38	81
Nadi Airport (1942-2019)	59	650.8	41		35	81
<b>Central Division</b>						
Laucala Bay (Suva) (1942-2019)	53	913.8	47		6	62
Nausori Airport (1957-2019)	52	863.8	48		7	64
Tokotoko (Navua) (1945-2019)	52	953.2	48		2	60
<b>Eastern Division</b>						
Lakeba (1950-2019)	55	587.0	45		18	66
Vunisea (Kadavu) (1931-2019)	54	556.8	46		9	68
Ono-i-Lau (1943-2019)	54	452.0	46		10	70
<b>Northern Division</b>						
Labasa Airport (1946-2019)	52	666.6	48		23	74
Savusavu Airfield (1956-2019)	54	663.9	46		17	66
Udu Point	55	752.4	45		9	59
Rotuma (1912-2019)	53	965.0	47		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)	35	573.1	40	924.4	25	24	56
Lautoka Mill (1900-2019)	34	430.4	41	753.3	25	31	54
Nadi Airport (1942-2019)	35	427.1	43	750.8	22	33	58
<b>Central Division</b>							
Laucala Bay (Suva) (1942-2019)	36	703.0	36	1045.0	28	5	45
Nausori Airport (1957-2019)	35	743.6	36	1051.6	29	13	44
Tokotoko (Navua) (1945-2019)	35	863.7	32	1135.4	33	6	33
<b>Eastern Division</b>							
Lakeba (1950-2019)	36	464.5	37	683.7	27	15	49
Vunisea (Kadavu) (1931-2019)	37	484.3	37	707.7	26	14	52
Ono-i-Lau (1943-2019)	37	368.2	41	515.7	22	24	56
<b>Northern Division</b>							
Labasa Airport (1946-2019)	34	565.0	42	928.6	24	32	54
Savusavu Airfield (1956-2019)	34	572.3	36	762.1	30	11	48
Udu Point	37	671.8	37	916.8	26	5	33
Rotuma (1912-2019)	35	850.3	32	1055.8	33	10	32

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for November 2019 to January 2020**

Station	Below Normal (prob.)	33%ile Rainfall (mm)	Normal (prob.)	67%ile Rainfall (mm)	Above Normal (prob.)
Lakeba	15	450.0	12	628.0	73
Nadi	9	410.0	21	711.0	70
Nabouwalu	15	594.0	18	784.0	67
Udu Point	9	601.0	21	751.0	70
Vunisea	9	479.0	21	611.0	70
Suva	9	683.0	21	933.0	70
Rotuma	12	775.0	24	1056.0	64

## Summary Statements

### Rainfall for September 2019:

Apart from *below average* rainfall at Vunisea and Savusavu, *normal* to *above normal* rainfall totals were recorded across the country during the month.

### Accumulated rainfall for July to September 2019, including outlook verification:

The Western Division and a majority of the Central Division recorded *normal* rainfall. There was a mix of *below normal* and *above normal* totals across the Eastern and Northern Divisions, apart from Udu Point where the total was *normal*.

Rotuma also recorded *normal* rainfall.

The outlook issued in August was 'near-consistent' at seven stations, 'consistent' at three stations, and 'inconsistent' at three stations.

### Outlooks for November 2019 to January 2020:

#### 1. SCOPIC:

The outlook for the **Western Division**, Ono-i-Lau and Labasa shows *normal* as the most likely outcome followed by *below normal* as the next most likely.

The outlook for Lakeba, Vunisea and Udu Point shows near-equal chances of *below normal* and *normal* rainfall, with *above normal* being the least likely.

The outlook for remaining sites offers little guidance as the chances of *above normal*, *normal* and *below normal* are similar.

#### 2. POAMA:

*Above normal* rainfall is favoured across the country.

**B: 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**

<b>Product</b>	<b>Date: September 2019</b>	<b>Stakeholder</b>	<b>Total Number of Participants</b>	<b>Number of male</b>	<b>Number of female</b>
Fiji Climate Summary	05/07/2019	General public	140	106	34
Fiji Climate Outlook	11/07/2019	General public	124	93	31
Climate Outlook for Monasavu	09/07/2019	EFL	13	13	-
EAR Watch	08/07/2019	Humanitarian partners	122	96	26
ENSO Outlook	25/07/2019	General public	142	116	26
Fiji Sugarcane Rainfall Outlook	30/07/2019	Sugar industry stakeholders	77	60	17
Meteorological Data Request	01/09/2019- 30/09/2019	Construction Agriculture Education Legal Engineering Health Disaster Risk Transportation	46	-	-