Pacific Islands - Online Climate Outlook Forum (OCOF) No. 146

Country: Fiji

TABLE 1: Monthly Rainfall

	Aug-2019	Sep-2019	Oct-2019				
Station (include data period)			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)		Rainfa	ıll (mm)		
		Weste	ern Division				
Penang Mill (1910-2019)	17.5	74.8	44.1	44.1	120.2	72.8	34/110
Lautoka Mill (1900-2019)	24.6	114.6	101.6	38.1	103.7	63.5	73/120
Nadi Airport (1942-2019)	20.3	89.7	132.7	39.2	105.6	61.3	59/78
		Centr	al Division				
Laucala Bay (Suva) (1942-2019)	86.6	307.2	557.2	130.0	225.0	173.1	74/78
Nausori Airport (1957-2019)	58.5	217.1	449.3	128.3	225.3	149.7	56/63
Tokotoko (Navua) (1945-2019)	144.4	242.0	299.6	194.0	319.6	247.9	44/75
		Easte	rn Division				
Lakeba (1950-2019)	24.5	69.8	112.8	65.1	142.3	87.9	39/70
Vunisea (Kadavu) (1931-2019)	78.9	76.9	170.5	94.9	165.2	126.5	59/82
Ono-i-Lau (1943-2019)	23.0	90.1	76.1	40.0	111.5	76.0	38/63
		North	ern Division				
Labasa Airport (1946-2019)	33.2	116.4	52.3	69.2	134.4	96.7	16/62
Savusavu Airfield (1956-2019)	65.5	48.0	305.3	95.8	185.2	127.9	55/63
Udu Point	36.0	159.7	365.6	89.7	203.0	159.5	70/71
Rotuma (1912-2019)	319.9	248.2	377.9	242.8	367.9	289.5	76/105

TABLE 2: Three-month Rainfall for August to October 2019

Station	Three-r	month Total	33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 May-June 2019				Verification: Consistent, Near-consistent,
		Ra	infall (mm)				B-N	N	A-N	LEPS	Inconsistent?
				West	tern Division						
Penang Mill (1910-2019)	136.4	Below normal	187.4	306.0	239.7	23/109	42	43	15	6	Near-consistent
Lautoka Mill (1900-2019)	240.8	Normal	152.8	257.6	216.5	72/120	51	25	24	4	Near-consistent
Nadi Airport (1942-2019)	242.7	Normal	165.2	285.7	225.0	44/78	48	33	19	6	Near-consistent
				Cent	tral Division						•
Laucala Bay (Suva) (1942-2019)	951.0	Above normal	414.8	625.3	513.2	72/78	49	34	17	7	Inconsistent
Nausori Airport (1957-2019)	724.9	Above normal	419.6	602.6	479.2	55/63	32	46	22	0	Near-consistent
Tokotoko (Navua) (1945-2019)	686.0	Normal	546.3	786.9	637.6	38/73	46	40	14	7	Near-consistent
				East	ern Division						
Lakeba (1950-2019)	207.1	Below normal	255.1	345.8	309.9	16/69	44	31	25	1	Consistent
Vunisea (Kadavu) (1931-2019)	326.3	Normal	325.4	449.4	394.1	34/80	36	43	21	1	Consistent
Ono-i-Lau (1943-2019)	189.2	Below normal	237.1	364.1	312.5	16/72	37	36	27	-1	Consistent
				Norti	hern Division						
Labasa Airport (1947-2019)	201.9	Normal	169.8	242.4	198.9	31/60	41	32	27	0	Near-consistent
Savusavu Airfield (1957-2019)	418.8	Above normal	301.1	415.0	353.2	43/62	45	35	20	4	Inconsistent
Udu Point	561.3	Above normal	296.1	406.5	337.5	61/70	38	45	17	3	Near-consistent
Rotuma (1912-2019)	946.0	Above normal	632.5	860.4	709.6	78/102	28	24	48	1	Consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for December 2019 to February 2020 Predictor and Period used: NINO3.4 for September to October 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	957.7	39		15	66			
Lautoka Mill (1900-2019)	62	846.2	38		18	73			
Nadi Airport (1942-2019)	68	848.4	32		31	78			
		Centi	al Division						
Laucala Bay (Suva) (1942-2019)	54	880.0	46		0	58			
Nausori Airport (1957-2019)	50	870.8	50		-2	35			
Tokotoko (Navua) (1945-2019)	52	989.9	48		0	52			
		Easte	rn Division						
Lakeba (1950-2019)	63	666.2	37		21	68			
Vunisea (Kadavu) (1931-2019)	56	652.5	44		4	66			
Ono-i-Lau (1943-2019)	57	547.6	43		6	58			
		North	ern Division						
Labasa Airport (1946-2019)	63	897.2	37		28	72			
Savusavu Airfield (1956-2019)	59	707.8	41		14	64			
Udu Point	58	929.8	42		7	57			
Rotuma (1912-2019)	60	964.2	40		13	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]		
	Western Division								
Penang Mill (1910-2019)	43	825.6	42	1089.7	15	23	55		
Lautoka Mill (1900-2019)	43	678.0	40	999.7	17	27	57		
Nadi Airport (1942-2019)	42	672.4	38	948.6	20	18	51		
		Centr	al Division						
Laucala Bay (Suva) (1942-2019)	36	782.9	34	1015.2	30	1	28		
Nausori Airport (1957-2019)	34	786.9	34	1023.7	32	-1	33		
Tokotoko (Navua) (1945-2019)	34	879.9	34	1113.2	32	-2	3		
		Easte	rn Division						
Lakeba (1950-2019)	44	582.1	40	757.3	16	29	54		
Vunisea (Kadavu) (1931-2019)	41	548.2	30	764.6	29	8	32		
Ono-i-Lau (1943-2019)	38	439.1	33	630.9	29	4	45		
		Northe	ern Division						
Labasa Airport (1946-2019)	41	785.9	42	1088.0	17	30	55		
Savusavu Airfield (1956-2019)	39	581.5	36	854.6	25	9	44		
Udu Point	42	749.2	28	1049.1	30	10	29		
Rotuma (1912-2019)	41	866.5	39	1058.8	20	17	43		

TABLE 4: Seasonal Climate Outlooks using POAMA2 for December 2019 to February 2020

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Lakeba	15	508.0	21	701.0	64
Nadi	9	597.0	30	860.0	61
Nabouwalu	15	679.0	24	885.0	61
Udu Point	9	680.0	21	927.0	70
Vunisea	9	496.0	30	669.0	61
Suva	9	739.0	30	956.0	61
Rotuma	30	817.0	15	1018.0	55

Summary Statements

Rainfall for October 2019:

Normal to above normal rainfall was recorded across the Western, Central and Eastern Divisions, together with Savusavu and Udu Point in the Northern Division. Above normal rainfall was recorded at Rotuma, while Labasa was the lone station with below normal rainfall.

Udu Point recorded its second wettest October on record, while Laucala Bay (Suva) recorded its fifth wettest October on record.

Accumulated rainfall for August to October 2019, including outlook verification:

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

Laucala Bay (Suva) recorded its seventh wettest August to October period on record, while at Nausori Airport it was the ninth wettest.

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

Outlooks for December 2019 to February 2020:

1. SCOPIC:

- Nadi Airport, Lakeba, Vunisea and Udu Point: The outlook shows below normal as the most likely, with normal the next most likely. Above normal is the least likely.
- **Penang Mill, Lautoka Mill, Labasa Airport, Savusavu and Rotuma:** The outlook shows a near-equal likelihood of below normal and normal rainfall. *Above normal* is the least likely.
- **Central Division and Ono-i-Lau:** The outlook offers little guidance as the chances of *above normal*, *normal* and *below normal* rainfall are similar.

2. POAMA:

Above normal rainfall is favoured across the country.

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

Product	Date: October 2019	Stakeholder	Total Number of Participants	Number of male	Number of female
Fiji Climate Summary	07/10/2019	General public	140	106	34
Fiji Climate Outlook	11/10/2019	General public	124	93	31
Climate Outlook for Monasavu	08/10/2019	EFL	13	13	-
EAR Watch	04/10/2019	Humanitarian partners	122	96	26
Fiji Sugarcane Rainfall Outlook	25/10/2019	Sugar industry stakeholders	77	60	17
Ocean Outlook		Reef explorer Fiji limited, Maritime saferty authority,World wildlife fun, wiulodlife conservation society and Tourisn sector.	36	29	7
Meteorological Data Requests	01/10/19 to 31/10/19	A range of stakeholders	53	49	4
	Total		565	446	119