Pacific Islands - Online Climate Outlook Forum (OCOF) No. 149

Country: Fiji

TABLE 1: Monthly Rainfall

	Nov- Dec-		Jan-2020					
Station (include data period)	2019	2019	Total (mm)	33%tile	67%tile	Median	Rank	
	Total (mm)	Total (mm)		Rainfa	ıll (mm)		1161111	
		Weste	rn Division					
Penang Mill (1910-2020)	96.2	164.6	127.5	246.2	455.7	331.0	17/111	
Lautoka Mill (1900-2020)	77.0	158.6	114.1	213.9	407.5	314.0	17/120	
Nadi Airport (1942-2020)	47.9	202.3	78.2	226.0	357.4	302.0	6/79	
		Centr	al Division					
Laucala Bay (Suva) (1942- 2020)	144.3	293.8	157.7	254.1	396.4	317.6	12/79	
Nausori Airport (1957-2020)	193.0	254.4	162.1	267.7	406.9	324.1	8/64	
Tokotoko (Navua) (1945- 2020)	146.4	239.5	327.5	273.9	409.5	343.7	33/75	
		Easte	rn Division					
Lakeba (1950-2020)	98.5	170.8	121.4	172.6	306.7	242.2	10/70	
Vunisea (Kadavu) (1931- 2020)	120.8	387.9	132.9	172.5	297.4	246.6	16/85	
Ono-i-Lau (1943-2020)	16.8	226.0	53.1	130.7	230.4	186.5	10/73	
		Northe	ern Division					
Labasa Airport (1946-2020)	40.0	198.2	181.3	236.9	461.0	370.0	15/63	
Savusavu Airfield (1956- 2020)	89.9	341.8	142.9	199.9	322.1	254.1	14/61	
Udu Point (1946-2020)	256.2	294.4	311.7	231.1	394.0	333.5	36/71	
Rotuma (1912-2020)	723.3	184.6	281.5	271.0	410.4	335.7	35/108	

TABLE 2: Three-month Rainfall for November 2019 to January 2020

Station	Three-r	month Total	33%tile	67%tile	Median	Rank		COPIC foreca n NINO3.4 Au	•		Verification: Consistent, Near-consistent,
		Ra	infall (mm)				B-N	B-N N	A-N	LEPS	Inconsistent?
				West	ern Division						
Penang Mill (1910-2020)	388.3	Below normal	573.1	924.4	718.0	15/105	35	40	25	24	Near-consistent
Lautoka Mill (1900-2020)	349.7	Below normal	430.4	753.3	622.0	24/120	34	41	25	31	Near-consistent
Nadi Airport (1942-2020)	328.4	Below normal	427.1	750.8	650.8	12/77	35	43	22	33	Near-consistent
		•		Cent	ral Division						•
Laucala Bay (Suva) (1942-2020)	595.8	Below normal	703.0	1045.0	913.8	18/78	36	36	28	5	Near-consistent
Nausori Airport (1957-2020)	609.5	Below normal	743.6	1051.6	863.8	14/64	35	36	29	13	Near-consistent
Tokotoko (Navua) (1945-2020)	713.4	Below normal	863.7	1135.4	953.2	12/73	35	32	33	6	Consistent
		•		East	ern Division						•
Lakeba (1950-2020)	390.7	Below normal	464.5	683.7	587.0	14/70	36	37	27	15	Near-consistent
Vunisea (Kadavu) (1931-2020)	641.6	Normal	484.3	707.7	556.8	54/82	37	37	26	14	Near-consistent
Ono-i-Lau (1943-2020)	295.9	Below normal	368.2	515.7	452.0	22/70	37	41	22	24	Near-consistent
				Norti	nern Division						
Labasa Airport (1947-2020)	419.5	Below normal	565.0	928.6	666.6	14/58	34	42	24	32	Near-consistent
Savusavu Airfield (1957-2020)	574.6	Normal	572.3	762.1	663.9	21/60	34	36	30	11	Consistent
Udu Point (1946-2020)	862.3	Normal	671.8	916.8	752.4	42/69	37	37	26	5	Near-consistent
Rotuma (1912-2020)	1189.4	Above normal	850.3	1055.8	965.0	87/104	35	32	33	10	Inconsistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for March to May 2020 Predictor and Period used: NINO3.4 for December 2019 to January 2020

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)			LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]		
	Western Division								
Penang Mill (1910-2020)	63	770.3	37			14	65		
Lautoka Mill (1900-2020)	57	601.0	43			4	62		
Nadi Airport (1942-2020)	59	584.5	41			6	65		
		Centr	al Division						
Laucala Bay (Suva) (1942- 2020)	52	909.5	48			-1	51		
Nausori Airport (1957-2020)	54	915.9	46			1	52		
Tokotoko (Navua) (1945- 2020)	55	1027.0	45			1	54		
		Easte	rn Division						
Lakeba (1950-2020)	57	647.9	43			3	59		
Vunisea (Kadavu) (1931-2020)	58	712.7	42			3	63		
Ono-i-Lau (1943-2020)	58	526.1	42			5	64		
		North	ern Division						
Labasa Airport (1946-2020)	53	688.3	47			-1	54		
Savusavu Airfield (1956-2020)	59	663.8	41			8	66		
Udu Point (1946-2020)	51	718.2	49			-1	50		
Rotuma (1912-2020)	48	947.4	52			-1	50		

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)	LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]		
		Weste	ern Division						
Penang Mill (1910-2020)	43	645.4	31	892.3	26	7	52		
Lautoka Mill (1900-2020)	43	517.4	32	712.9	25	9	46		
Nadi Airport (1942-2020)	43	508.6	33	654.2	24	10	51		
		Centr	al Division						
Laucala Bay (Suva) (1942- 2020)	38	814.5	33	1072.9	29	1	38		
Nausori Airport (1957-2020)	36	803.4	32	1027.5	32	-1	22		
Tokotoko (Navua) (1945- 2020)	34	926.5	32	1219.9	34	-2	32		
	•	Easte	rn Division	•	•				
Lakeba (1950-2020)	41	545.3	32	721.3	27	5	41		
Vunisea (Kadavu) (1931-2020)	43	636.3	30	761.7	27	8	46		
Ono-i-Lau (1943-2020)	39	462.1	35	643.8	26	4	43		
	Northern Division								
Labasa Airport (1946-2020)	37	558.2	34	846.0	29	1	38		
Savusavu Airfield (1956-2020)	40	569.5	33	724.3	27	7	48		
Udu Point (1946-2020)	37	618.2	35	844.3	28	1	41		
		-							
Rotuma (1912-2020)	32	813.6	33	1013.8	35	-1	28		

TABLE 4: Seasonal Climate Outlooks using POAMA2 for March to May 2020

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Lakeba	55	448.0	18	732.0	27
Nadi	64	469.0	12	647.0	24
Nabouwalu	49	623.0	33	885.0	18
Udu Point	37	590.0	33	807.0	30
Vunisea	64	636.0	12	756.0	24
Suva	64	807.0	12	971.0	24
Rotuma	36	836.0	40	1043.0	24

Summary Statements

Rainfall for January 2020:

Below normal rainfall was recorded at most of the places in the Fiji Group during the month. However, Tokotoko (Navua), Udu Point and Rotuma received near normal rainfall.

Nadi Airport recorded its sixth driest January on record, with Nausori Airport registering its eighth driest January rainfall.

Accumulated rainfall for November 2019 to January 2020, including outlook verification:

Most of the places in Fiji recorded *below normal* rainfall during the November 2019 to January 2020 period. The exceptions to this were Vunisea in the Eastern Division and Savusavu Airfield and Udu Point in the Northern Division, where *near normal* rainfall was registered. Rotuma recorded *above normal* rainfall during the past 3-month period.

The rainfall outlooks were 'Consistent' at two sites, 'Near-consistent' at ten sites and 'Inconsistent' at one site.

Outlooks for March to May 2020:

1. SCOPIC:

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

2. POAMA:

Lakeba, Nadi, Vunisea and Suva: *Below normal* rainfall is favoured for these stations.

Nabouwalu: Below normal rainfall is the most likely outcome, with normal the next most likely. Above normal is the least likely.

Rotuma: The outlook favours *near normal* rainfall as the most likely outcome, with *below normal* as the next most likely.

Udu Point: The outlook offers little guidance as the chances of *above normal*, *normal* and *below normal* rainfall are similar.

NB: The X LEPS % score has been categorised as follows:

Very Low: X < 0.0 Low: $0 \le X < 5$ Moderate $5 \le X < 10$ Good: $10 \le X < 15$ High: $15 \le X < 25$

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

Product	Date: January 2020	Stakeholder	Total Number of Participants	Number of male	Number of female
Fiji Climate Summary	09/01/20	General public	140	106	34
Fiji Climate Outlook	10/01/20	General public	124	93	31
Climate Outlook for Monasavu	09/01/20	EFL	13	13	-
EAR Watch	06/01/20	Humanitarian partners	122	96	26
Ocean Outlook	16/01/20	Reef Explorer Fiji Limited, Maritime Safety Authority of Fiji, World Wildlife Fund, Wildlife Conservation Society, Ministry of Fisheries and Tourism Sector	36	29	7
ENSO Update	24/01/20	General Public	142	116	26
Fiji Sugarcane Climate Outlook	24/01/20	Sugar Industry stakeholders	77	60	17
Meteorological Data Request	01/01/20 to 31/01/20	A range of stakeholders	66	62	4
Total			720	575	145