Pacific Islands - Online Climate Outlook Forum (OCOF) No. 136

Country: Fiji

TABLE 1: Monthly Rainfall

Station (include data period)	Oct-2018	Nov-2018	Dec-2018				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Western Division							
Penang Mill (1910-2018)	341.2	69.6	86.1	156.9	264.2	203.3	14/106
Lautoka Mill (1900-2018)	220.8	74.9	135.6	109.2	206.1	161.8	52/119
Nadi Airport (1942-2018)	173.1	97.5	99.8	120.8	244.3	184.2	21/77
Viwa (1978 -2018)	171.1	81.9	128.2	92.7	178.4	146.2	18/37
Central Division							
Laucala Bay (Suva) (1942-2018)	541.9	321.3	361.0	211.8	328.1	261.3	53/77
Nausori Airport (1957-2018)	542.0	444.4	449.6	214.9	324.1	254.1	54/63
Tokotoko (Navua) (1945-2018)	503.6	201.2	459.6	219.5	406.0	291.0	57/73
Eastern Division							
Lakeba (1950-2018)	259.7	111.0	136.1	135.6	210.1	168.2	24/69
Vunisea (Kadavu) (1931-2018)	126.2	104.6	304.3	110.1	213.3	142.0	73/82
Ono-i-Lau (1943-2018)	71.0	63.0	19.6	82.4	172.4	114.9	**3/71**
Northern Division							
Labasa Airport (1946-2018)	252.7	51.0	159.1	144.3	276.2	210.7	25/61
Savusavu Airfield (1956-2018)	457.9	92.7	193.7	145.0	247.0	169.6	35/62
Rotuma (1912-2018)	175.8	89.9	459.6	237.4	352.1	287.6	88/104

TABLE 2: Three-month Rainfall for October to December 2018

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities* based on NINO3.4 July-August 2018				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Western Division											
Penang Mill (1910-2018)	496.9	Normal	347.0	568.6	461.0	57/104	39	34	27	15	Near-consistent
Lautoka Mill (1900-2018)	431.3	Normal	276.1	446.4	356.4	78/119	41	38	21	23	Near-consistent
Nadi Airport (1942-2018)	370.4	Normal	325.7	482.6	378.8	36/76	41	37	22	22	Near-consistent
Viwa (1978 -2018)	381.2	Above normal	252.4	366.8	317.4	25/36	37	38	25	25	Near-consistent
Central Division											
Laucala Bay (Suva) (1942-2018)	1224.2	Above normal	539.6	837.2	714.5	71/77	38	33	29	5	Inconsistent
Nausori Airport (1957-2018)	1436.0	Above normal	564.3	866.6	684.8	62/62	37	35	28	6	Inconsistent
Tokotoko (Navua) (1945-2018)	1164.4	Above normal	760.7	1036.3	878.6	59/73	38	35	27	8	Inconsistent
Eastern Division											
Lakeba (1950-2018)	506.8	Normal	334.7	535.6	420.1	41/69	39	33	28	10	Near-consistent
Vunisea (Kadavu) (1931-2018)	535.1	Above normal	313.3	506.2	421.6	59/80	40	38	22	12	Inconsistent
Ono-i-Lau (1943-2018)	153.6	Below normal	230.0	417.0	347.6	10/71	43	34	23	22	Consistent
Northern Division											
Labasa Airport (1947-2018)	462.8	Normal	361.4	611.6	483.8	27/58	38	41	21	22	Consistent
Savusavu Airfield (1957-2018)	744.3	Above normal	420.8	617.7	514.7	46/61	38	34	28	14	Inconsistent
Rotuma (1912-2018)	725.3	Below normal	822.5	1057.0	943.1	23/103	36	32	32	1	Consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for February to April 2019
Predictor and Period used: NINO3.4 for October to November 2018

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Western Division						
Penang Mill (1910-2018)	63	1020.1	37		5	63
Lautoka Mill (1900-2018)	66	828.5	34		9	62
Nadi Airport (1942-2018)	67	815.2	33		8	63
Viwa (1978 -2018)	72	698.0	28		17	61
Central Division						
Laucala Bay (Suva) (1942-2018)	54	932.5	46		-1	47
Nausori Airport (1957-2018)	43	960.0	57		0	60
Tokotoko (Navua) (1945-2018)	44	1101.8	56		-1	55
Eastern Division						
Lakeba (1950-2018)	66	704.1	34		7	63
Vunisea (Kadavu) (1931-2018)	62	751.6	38		4	60
Ono-i-Lau (1943-2018)	60	594.4	40		2	60
Northern Division						
Labasa Airport (1946-2018)	61	1030.5	39		4	62
Savusavu Airfield (1956-2018)	59	699.4	41		1	61
Rotuma (1912-2018)	57	996.6	43		1	52

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 (1910-2018)	49	838.0	31	1154.7	20	8	45
Lautoka Mill (1900-2018)	52	736.2	25	952.7	23	8	50
Nadi Airport (1942-2018)	51	680.5	35	950.1	14	14	50
Viwa (1978 -2018)	54	592.2	29	764.8	17	16	47
Central Division							
Laucala Bay (Suva) (1942-2018)	37	845.8	25	1054.5	38	-1	24
Nausori Airport (1957-2018)	28	893.9	34	1042.6	38	0	40
Tokotoko (Navua) (1945-2018)	33	998.5	28	1205.1	39	-1	35
Eastern Division							
Lakeba (1950-2018)	53	646.6	25	827.6	22	10	29
Vunisea (Kadavu) (1931-2018)	53	644.3	26	832.2	21	10	48
Ono-i-Lau (1943-2018)	43	479.5	34	737.6	23	3	44
Northern Division							
Labasa Airport (1946-2018)	46	833.3	27	1175.7	27	3	20
Savusavu Airfield (1956-2018)	45	638.9	28	832.1	27	3	37
Rotuma (1912-2018)	40	882.1	32	1076.2	28	0	35

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

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Lakeba	49	545.0	12	757.0	39
Nadi	52	657.0	21	856.0	27
Nabouwalu	49	735.0	27	1042.0	24
Udu Point	43	709.0	30	928.0	27
Vunisea	52	618.0	21	846.0	27
Suva	52	852.0	21	983.0	27
Rotuma	61	845.0	6	1046.0	33

Summary Statements

Rainfall for December 2018:

Normal to *below normal* rainfall was recorded over the Western, Northern and parts of the Eastern Divisions, while *above normal* rainfall *was* recorded in the Central Division and Rotuma.

Ono- i- Lau recorded its third-lowest December rainfall. Nausori Airport and Vunisea recorded their 10th wettest December on record.

Accumulated rainfall for October to December 2018, including outlook verification:

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

Nausori Airport recorded its highest October to December rainfall in its 62 years of record, while Laucala Bay (Suva) recorded its seventh-highest October to December rainfall in its 77 years of record.

The rainfall outlooks were 'Consistent' at 3 sites, 'Near- Consistent' at 5 sites and 'Inconsistent' at 5 sites.

Outlooks for February to April 2019:

1. **SCOPIC:**

   - **Lautoka, Nadi & Viwa (Western Division), together with Lakeba and Vunisea (Eastern Division):** *Below normal* rainfall is favoured.
   - **Northern Division, Penang (Western Division), Ono-i-Lau (Eastern Division) and Rotuma:** The outlook shows *below normal* as the most likely*,* with *normal* the next most likely;
   - **Central Division:** For Nausori and Navua, the outlook offers little guidance, as the chances of *below normal, normal* and *above normal* are similar, while the outlook for Suva is mixed, with similar chances for *below normal* and *above normal* totals; *near normal* is the least likely outcome.

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

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

Country	Date: December 2018	Stakeholder	Goals	Total Number of Participants	Number of male	Number of female
Fiji	None					
Fiji						