Pacific Islands - Online Climate Outlook Forum (OCOF) No. 138

Country: Fiji

TABLE 1: Monthly Rainfall

Station (include data period)	Dec-2018 Total (mm)	Jan-2019 Total (mm)	Feb-2019 Total (mm)	33%tile	67%tile	Median	Rank
Western Division							
Penang Mill (1910-2019)	86.1	250.0	268.0	294.5	405.3	353.1	35/110
Lautoka Mill (1900-2019)	135.6	219.9	229.5	221.0	395.5	286.8	43/119
Nadi Airport (1942-2019)	99.8	402.5	84.6	232.4	378.8	285.9	**6/77**
Viwa (1978 -2019)	128.2	366.1	99.6	167.1	275.8	238.8	5/37
Central Division							
Laucala Bay (Suva) (1942-2019)	361.0	493.4	226.8	244.0	328.8	293.2	22/78
Nausori Airport (1957-2019)	449.6	643.8	262.5	226.1	321.1	286.7	27/63
Tokotoko (Navua) (1945-2019)	459.6	510.6	267.8	254.7	356.7	295.5	25/74
Eastern Division							
Lakeba (1950-2019)	136.1	431.5	160.4	158.9	278.8	206.8	24/70
Vunisea (Kadavu) (1931-2019)	304.3	290.9	89.1	166.6	276.8	231.5	10/84
Ono-i-Lau (1943-2019)	19.6	235.2	355.7	129.2	221.4	177.6	65/73
Northern Division							
Labasa Airport (1946-2019)	159.1	362.0	271.6	242.8	461.1	358.8	25/63
Savusavu Airfield (1956-2019)	193.7	569.6	141.6	158.4	305.3	259.5	18/61
Rotuma (1912-2019)	459.6	288.8	296.8	282.7	366.9	319.9	37/107

TABLE 2: Three-month Rainfall for December 2018 to February 2019

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 September-October 2018				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Western Division											
Penang Mill (1910-2019)	604.1	Below normal	785.3	1067.6	891.0	18/106	47	41	12	14	Consistent
Lautoka Mill (1900-2019)	585.0	Below normal	610.0	923.5	781.9	35/119	53	37	10	27	Consistent
Nadi Airport (1942-2019)	586.9	Below normal	658.7	913.0	839.9	22/76	51	36	13	20	Consistent
Viwa (1978 -2019)	593.9	Normal	482.5	708.6	625.0	17/37	50	36	14	22	Near-consistent
Central Division											
Laucala Bay (Suva) (1942-2019)	1081.2	Above normal	783.5	1024.7	876.8	56/77	41	32	27	2	Inconsistent
Nausori Airport (1957-2019)	1355.9	Above normal	786.6	1014.2	852.2	**59/63**	34	37	29	-1	Near-consistent
Tokotoko (Navua) (1945-2019)	1238.0	Above normal	883.4	1140.6	994.0	56/72	34	34	32	-2	Near-consistent
Eastern Division											
Lakeba (1950-2019)	728.0	Normal	582.1	757.3	655.6	45/69	58	34	8	29	Near-consistent
Vunisea (Kadavu) (1931-2019)	684.3	Normal	498.4	725.1	616.2	50/81	49	29	22	8	Near-consistent
Ono-i-Lau (1943-2019)	610.5	Above normal	440.8	598.1	547.6	47/69	45	31	24	5	Inconsistent
Northern Division											
Labasa Airport (1947-2019)	792.7	Normal	786.5	1105.5	897.5	21/60	54	37	9	30	Near-consistent
Savusavu Airfield (1957-2019)	904.9	Above normal	576.4	850.1	703.2	44/59	47	35	18	11	Inconsistent
Rotuma (1912-2019)	1045.2	Normal	897.2	1098.7	994.4	61/103	50	37	13	14	Near-consistent

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

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Western Division						
Penang Mill (1910-2019)	55	432.2	45		0	57
Lautoka Mill (1900-2019)	65	345.1	35		9	65
Nadi Airport (1942-2019)	62	313.1	38		9	65
Viwa (1978 -2019)	69	390.7	31		22	72
Central Division						
Laucala Bay (Suva) (1942-2019)	60	730.9	40		5	59
Nausori Airport (1957-2019)	61	705.9	39		6	63
Tokotoko (Navua) (1945-2019)	61	869.1	39		6	62
Eastern Division						
Lakeba (1950-2019)	59	428.1	41		5	61
Vunisea (Kadavu) (1931-2019)	60	544.4	40		5	66
Ono-i-Lau (1943-2019)	59	413.6	41		5	64
Northern Division						
Labasa Airport (1946-2019)	56	407.4	44		1	60
Savusavu Airfield (1956-2019)	67	488.3	33		14	68
Rotuma (1912-2019)	46	818.8	54		-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]
Western Division							
Penang Mill (1910-2019)	39	364.6	34	541.5	27	1	41
Lautoka Mill (1900-2019)	47	263.1	35	412.6	18	13	54
Nadi Airport (1942-2019)	45	254.0	34	375.0	21	9	55
Viwa (1978 -2019)	47	274.1	39	468.1	14	18	53
Central Division							
Laucala Bay (Suva) (1942-2019)	41	678.1	37	820.6	22	5	46
Nausori Airport (1957-2019)	45	645.9	34	785.9	21	11	45
Tokotoko (Navua) (1945-2019)	42	753.9	39	972.7	19	9	50
Eastern Division							
Lakeba (1950-2019)	44	353.4	31	501.9	25	7	42
Vunisea (Kadavu) (1931-2019)	47	484.3	30	614.4	23	9	54
Ono-i-Lau (1943-2019)	50	316.8	26	465.8	24	13	32
Northern Division							
Labasa Airport (1946-2019)	39	323.6	32	448.6	29	1	40
Savusavu Airfield (1956-2019)	45	396.9	40	626.9	15	16	56
Rotuma (1912-2019)	30	743.6	36	909.7	34	-1	29

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

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Lakeba	**73**	341.0	15	507.0	12
Nadi	**76**	250.0	15	385.0	9
Nabouwalu	**52**	409.0	24	627.0	24
Udu Point	**55**	397.0	18	618.0	27
Vunisea	**76**	446.0	15	627.0	9
Suva	**76**	646.0	15	821.0	9
Rotuma	**52**	761.0	24	973.0	24

Summary Statements

Rainfall for February 2019:

Below normal to *normal* rainfall was recorded over the Western, Central, Eastern and Northern Divisions, and Rotuma, apart from Ono-i-Lau which recorded *above normal*.

Nadi Airport recorded its sixth-lowest February monthly rainfall.

Accumulated rainfall for December 2018 to February 2019, including outlook verification:

Normal to *above normal* rainfall was recorded at most parts of the country, except for the Western Division sites of Penang Mill, Lautoka Mill and Nadi Airport, which recorded *below normal* rainfall.

Nausori Airport recorded its fifth-highest December to February rainfall in its 63 years of record.

The rainfall outlooks were 'Consistent' at 3 sites, 'Near- Consistent' at 7 sites and 'Inconsistent' at 3 sites.

Outlooks for April to June 2019:

1. **SCOPIC:**

   - **Western Division, Eastern Division, Laucala Bay & Nausori (Central Division) and Savusavu (Northern Division):** The outlook shows *below normal* as the most likely, with *normal* the next most likely;
   - **Tokotoko (Navua):** The outlook shows a near equal likelihood of *below normal* and *normal* rainfall. *Above normal* is the least likely;
   - **Labasa and Rotuma:** The outlook offers little guidance, as the chances of *below normal, normal* and *above normal* are similar.

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

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

Country	Date: February 2019	Stakeholder	Total Number of Participants	Number of male	Number of female
Fiji: Meeting with the Food and Agricultural Organisation regarding the Drought Early Warning Early Action	06/02/19	United Nations Food and Agriculture Organisation	3	2	1
Fiji: Teleconference between FMS, EFL and BoM on sub-seasonal to seasonal predictions	14/02/19	Energy Fiji Ltd (EFL) and Australian Bureau of Meteorology	5	5	-
Fiji: Meeting with UNDP scoping work for the Pacific Regional Climate Risk Adaptation and Insurance	15/02/19	UNDP	6	5	1
Fiji: Meeting with UK Met Office on CommonSensing project	25/02/19	UK Met Office (UKMO)	5	3	2
Fiji: Workshop on Evaluating Climate Change Impacts on Storm Surge/Storm Wave Hazards – Suva	08/02//2019	Ministry of Environment (Japan), Pacific Community, University of the South Pacific (USP), SPREP, Housing Authority, Ministry of Economy (MoE)	19	13	6
Fiji: CommonSensing Relocation Workshop – Suva	28/02/19	CommonSensing Project team, MoE, Department of Environment, Ministry of Lands & Mineral Recourses, USP	25	15	10
Fiji Climate Summary	11/02/19	General public			
Fiji Climate Outlook	13/02/19	General public			
Climate Outlook for Monasavu	11/02/19	EFL			
EAR Watch	06/02/19	Humanitarian partners			