Pacific Islands - Online Climate Outlook Forum (OCOF) No. 133

Country: Fiji

TABLE 1: Monthly Rainfall

Station (include data period)	Jul-2018 Total (mm)	Aug-2018 Total (mm)	Sep-2018 Total (mm)	33%tile	67%tile	Median	Rank
			Rainfall (mm)				
Western Division							
Penang Mill (1910-2018)	7.5	5.7	35.2	39.5	103.1	65.9	31/108
Lautoka Mill (1900-2018)	1.9	0.0	25.5	31.7	80.8	52.2	34/119
Nadi Airport (1942-2018)	0.5	5.5	42.2	35.6	89.6	62.6	34/77
Viwa (1978 -2018)	10.0	14.7	28.7	34.9	72.1	48.6	11/37
Central Division							
Laucala Bay (Suva) (1942-2018)	125.5	13.2	259.5	118.4	217.3	148.6	56/77
Nausori Airport (1957-2018)	98.6	34.4	113.9	105.1	196.3	145.2	24/62
Tokotoko (Navua) (1945-2018)	240.6	47.6	287.5	157.4	286.7	214.4	49/73
Eastern Division							
Lakeba (1950-2018)	13.6	6.9	188.5	66.3	120.6	90.6	59/69
Vunisea (Kadavu) (1931-2018)	53.8	35.6	159.8	76.8	151.0	108.6	56/81
Ono-i-Lau (1943-2018)		41.5	195.0	69.1	119.7	90.9	61/71
Northern Division							
Labasa Airport (1946-2018)	4.5	0.0	49.7	36.7	76.4	57.2	30/61
Savusavu Airfield (1956-2018)	37.7	12.4	122.4	79.5	131.3	102.8	40/61
Rotuma (1912-2018)	172.0	102.1	98.3	181.4	244.7	210.9	**8/102**

TABLE 2: Three-month Rainfall for July to September 2018

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities* based on NINO3.4 April-May 2018				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Western Division											
Penang Mill (1910-2018)	48.4	Below normal	146.5	232.4	194.9	**3/108**	32	33	35	4	Inconsistent
Lautoka Mill (1900-2018)	27.4	Below normal	123.1	219.0	170.8	**3/119**	29	36	35	4	Near-consistent
Nadi Airport (1942-2018)	48.2	Below normal	128.9	212.0	174.6	**4/77**	29	36	35	4	Near-consistent
Viwa (1978 -2018)	53.4	Below normal	110.1	257.4	146.2	**2/36**	26	40	34	1	Near-consistent
Central Division											
Laucala Bay (Suva) (1942-2018)	398.2	Normal	383.9	560.6	461.2	29/77	30	35	35	4	Near-consistent
Nausori Airport (1957-2018)	246.9	Below normal	367.9	530.7	437.6	**5/62**	33	32	35	0	Inconsistent
Tokotoko (Navua) (1945-2018)	575.7	Normal	532.1	683.3	613.6	31/71	31	34	35	5	Near-consistent
Eastern Division											
Lakeba (1950-2018)	209.0	Normal	200.0	315.8	236.8	25/67	33	33	34	0	Near-consistent
Vunisea (Kadavu) (1931-2018)	249.2	Below normal	272.9	381.7	324.2	20/80	33	33	34	-1	Near-consistent
Ono-i-Lau (1943-2018)			251.9	334.5	291.9		31	34	35	0	
Northern Division											
Labasa Airport (1947-2018)	54.2	Below normal	109.0	192.4	154.2	**5/61**	32	32	36	2	Near-consistent
Savusavu Airfield (1957-2018)	172.5	Below normal	240.6	345.3	307.6	**9/61**	28	36	36	3	Near-consistent
Rotuma (1912-2018)	372.4	Below normal	577.9	787.7	657.0	12/102	34	34	32	-1	Near-consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for November 2018 to January 2019
Predictor and Period used: NINO3.4 for August to September 2018

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Western Division						
Penang Mill (1910-2018)	60	682.0	40		20	71
Lautoka Mill (1900-2018)	64	560.7	36		36	81
Nadi Airport (1942-2018)	67	661.6	33		34	81
Viwa (1978 -2018)	63	485.7	37		45	83
Central Division						
Laucala Bay (Suva) (1942-2018)	56	877.6	44		6	65
Nausori Airport (1957-2018)	56	857.1	44		8	63
Tokotoko (Navua) (1945-2018)	54	938.4	46		2	61
Eastern Division						
Lakeba (1950-2018)	60	585.3	40		17	66
Vunisea (Kadavu) (1931-2018)	59	529.8	41		12	69
Ono-i-Lau (1943-2018)	58	452.2	42		10	68
Northern Division						
Labasa Airport (1946-2018)	59	666.6	41		25	73
Savusavu Airfield (1956-2018)	61	658.7	39		18	67
Rotuma (1912-2018)	57	982.6	43		6	60

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)	40	561.7	33	812.0	27	16	55
Lautoka Mill (1900-2018)	41	417.0	39	687.0	20	33	59
Nadi Airport (1942-2018)	43	429.8	39	743.4	18	31	59
Viwa (1978 -2018)	38	332.9	41	626.9	21	28	54
Central Division							
Laucala Bay (Suva) (1942-2018)	37	685.1	38	1041.5	25	4	37
Nausori Airport (1957-2018)	39	743.0	36	1034.3	25	12	44
Tokotoko (Navua) (1945-2018)	39	865.3	31	1128.4	30	6	42
Eastern Division							
Lakeba (1950-2018)	41	464.5	38	678.8	21	17	51
Vunisea (Kadavu) (1931-2018)	40	447.1	35	648.9	25	12	51
Ono-i-Lau (1943-2018)	43	364.2	40	523.8	17	26	60
Northern Division							
Labasa Airport (1946-2018)	39	568.1	44	936.2	17	31	54
Savusavu Airfield (1956-2018)	39	569.9	35	728.0	26	13	50
Rotuma (1912-2018)	40	887.7	33	1078.0	27	9	42

TABLE 4: Seasonal Climate Outlooks using POAMA2 for November 2018 to January 2019

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Lakeba	46	450.0	24	628.0	30
Nadi	39	410.0	22	711.0	39
Nabouwalu	42	594.0	25	784.0	33
Udu Point	39	601.0	22	751.0	39
Vunisea	39	479.0	22	611.0	39
Suva	39	683.0	22	933.0	39
Rotuma	46	775.0	21	1056.0	33

Summary Statements

Rainfall for September 2018:

Above normal rainfall was recorded in the Eastern Division, while *normal* to *below normal* was recorded at the rest of the stations, including Rotuma.

Rotuma recorded its eighth lowest September monthly rainfall.

Accumulated rainfall for July to September 2018, including outlook verification:

Below normal rainfall was recorded throughout the country, with the exceptions of Suva, Navua and Lakeba where the July to September total was *normal*.

Viwa recorded its second-lowest July to September total rainfall in 36 years of record, while Penang and Lautoka recorded their third-lowest July to September total rainfall in their 108 and 119 years of record respectively.

The rainfall outlooks were 'Near- Consistent' at 10 sites, 'Inconsistent' at 2 sites, while Ono-i-Lau could not be verified due to missing readings.

Outlooks for October to December 2018:

1. **SCOPIC:**
   - At Penang, Nadi, Navua, Vunisea, Savusavu and Rotuma, the outlook shows *below normal* as the most likely outcome, with normal the next most likely.
   - At Lautoka, Viwa, Suva, Nausori, Lakeba and Ono-i-Lau, the outlook shows a *near-equal likelihood* of *below-normal* and *normal*.
   - At Labasa, the outlook shows *normal* as the most likely, with *below normal* the next most likely.

2. **POAMA:** The outlook shows *below normal* as the most likely at Lakeba, Nabouwalu, and Rotuma, while at remaining sites the outlook is mixed with near-equal chances of *below normal* and *above normal*.