

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 130

Country: Fiji

TABLE 1: Monthly Rainfall

Station (include data period)	Apr-2018	May-2018	Jun-2018				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Western Division							
Penang Mill (1910-2018)	592.7	59.2	45.5	39.6	92.9	58.0	43/109
Lautoka Mill (1900-2018)	381.9	83.5	59.3	30.4	73.5	46.2	70/119
Nadi Airport (1942-2018)	344.4	109.5	53.3	26.0	72.6	51.8	42/77
Viwa (1978 -2018)	271.9	141.8	90.1	18.1	92.4	59.6	24/37
Central Division							
Laucala Bay (Suva) (1942-2018)	341.0	485.4	116.9	104.3	204.0	138.8	33/77
Nausori Airport (1957-2018)	340.6	261.7	190.1	91.4	198.3	128.3	40/62
Tokotoko (Navua) (1945-2018)	394.2	312.5	174.8	133.2	244.7	181.4	37/74
Eastern Division							
Lakeba (1950-2018)	307.4	129.8	64.6	50.5	129.7	86.6	30/69
Vunisea (Kadavu) (1931-2018)	515.5	291.0	138.2	71.0	140.5	104.5	51/82
Ono-i-Lau (1943-2018)	294.0	178.5		58.3	106.8	77.8	
Northern Division							
Labasa Airport (1946-2018)	617.7	44.8	16.1	28.7	80.7	47.7	10/62
Savusavu Airfield (1956-2018)	260.3	48.5	183.2	57.3	136.3	105.5	50/60
Rotuma (1912-2018)	347.9	56.2	150.5	196.7	294.3	246.0	23/105

TABLE 2: Three-month Rainfall for April to June 2018

Station	Three-month Total		33%tile	77%tile	Median	Rank	SCOPIC forecast probabilities* based on NINO3.4 January - February 2018				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Western Division											
Penang Mill (1910-2018)	697.4	Above normal	344	532	421	95/107	24	36	40	3.4	Consistent
Lautoka Mill (1900-2018)	524.7	Above normal	263	390	323	105/119	20	32	48	11.5	Consistent
Nadi Airport (1942-2018)	507.2	Above normal	255	375	313	63/76	23	33	44	9	Consistent
Viwa (1978 -2018)	503.8	Above normal	274	450	383	25/36	17	27	56	17.7	Consistent
Central Division											
Laucala Bay (Suva) (1942-2018)	943.3	Above normal	678	809	732	60/77	25	32	43	4.9	Consistent
Nausori Airport (1957-2018)	792.4	Above normal	646	770	706	43/62	20	34	46	9.5	Consistent
Tokotoko (Navua) (1945-2018)	881.5	Normal	755	985	869	40/73	24	31	45	7.8	Near-consistent
Eastern Division											
Lakeba (1950-2018)	501.8	Normal	351	501	426	44/66	21	37	42	6.4	Consistent
Vunisea (Kadavu) (1931-2018)	944.7	Normal	461	598	541	79/82	22	35	43	7.2	Near-consistent
Ono-i-Lau (1943-2018)			312	463	397	13/67	13	43	44	13.9	
Northern Division											
Labasa Airport (1947-2018)	678.6	Above normal	320	448	405	57/62	24	37	39	0.9	Consistent
Savusavu Airfield (1957-2018)	492.0	Normal	396	629	488	31/59	18	29	53	17.3	Near-consistent
Rotuma (1912-2018)	554.6	Below normal	746	916	831	10/105	34	34	32	-1.7	Near-consistent

**TABLE 3: Seasonal Climate Outlooks using SCOPIC for
August to October 2018– Median Method
Predictor and Period used: NINO3.4 for May to June 2018**

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
<i>Western Division</i>						
Penang Mill (1910-2018)	51	224.0	49		-1	51
Lautoka Mill (1900-2018)	53	221.2	47		3	54
Nadi Airport (1942-2018)	53	220.7	47		3	54
Viwa (1978 -2018)	50	212.6	50		-1	57
<i>Central Division</i>						
Laucala Bay (Suva) (1942-2018)	52	505.7	48		2	53
Nausori Airport (1957-2018)	52	474.5	48		3	57
Tokotoko (Navua) (1945-2018)	54	637.6	46		8	58
<i>Eastern Division</i>						
Lakeba (1950-2018)	50	309.9	50		-1	58
Vunisea (Kadavu) (1931-2018)	51	362.5	49		-1	46
Ono-i-Lau (1943-2018)	51	307.4	49		0	53
<i>Northern Division</i>						
Labasa Airport (1946-2018)	52	197.2	48		4	60
Savusavu Airfield (1956-2018)	52	353.0	48		1	57
Rotuma (1912-2018)	49	721.2	51		-1	55

Seasonal Climate Outlook:

August to October 2018– Tercile Method

Predictor and Period used: NINO3.4 for May to June 2018

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)	36	181.3	35	273.6	29	4	42
Lautoka Mill (1900-2018)	36	163.8	31	257.7	33	4	40
Nadi Airport (1942-2018)	36	170.3	34	289.5	30	5	40
Viwa (1978 - 2018)	33	137.3	33	266.3	34	-2	37
Central Division							
Laucala Bay (Suva) (1942- 2018)	36	416.6	36	611.5	28	7	44
Nausori Airport (1957- 2018)	34	418.1	35	597.5	31	0	39
Tokotoko (Navua) (1945- 2018)	36	559.9	37	795.4	27	7	36
Eastern Division							
Lakeba (1950- 2018)	35	255.1	34	345.8	31	1	44
Vunisea (Kadavu) (1931-2018)	35	293.9	35	437.1	30	3	35
Ono-i-Lau (1943-2018)	34	236.4	34	351.0	32	0	39
Northern Division							
Labasa Airport (1946-2018)	34	166.6	34	242.0	32	0	16
Savusavu Airfield (1956- 2018)	35	300.8	35	413.8	30	4	40
Rotuma (1912- 2018)	32	656.0	32	864.0	36	2	23

TABLE 4: Seasonal Climate Outlooks using POAMA2 for August to October 2018

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Lakeba	49	192.0	24	298.0	27
Nadi	40	152.0	36	266.0	24
Nabouwalu	49	234.0	27	378.0	24
Udu Point	46	241.0	15	364.0	39
Vunisea	40	302.0	36	459.0	24
Suva	40	434.0	36	590.0	24
Rotuma	49	650.0	18	894.0	33

Summary Statements

Rainfall for June 2018:

Normal was recorded over the Central, Eastern and Western Division. Savusavu recorded *above normal rainfall* while *Below normal* was also recorded in the Labasa and Rotuma.

Accumulated rainfall for April to June 2018, including outlook verification:

Normal to above normal rainfall was recorded throughout the country, with the exception of Rotuma where the April to May total was *below normal*.

Vunisea managed to record its fourth highest April to June rainfall in 82 years of record.

The rainfall outlooks were 'Consistent' at 8 sites, 'Near- Consistent' at 4 sites, while Ono-i-Lau could not be verified due to missing readings.

Outlooks for August to October 2018:

1. SCOPIC:

- **Western, Central, Northern, Eastern Division and Rotuma:** The outlook offers little guidance, as the chances of *above normal*, *normal* and *below normal* are similar. Only Navua with *normal* as the most likely outcome, with *below normal* the next most likely. *Above normal* is the least likely

Very low to moderate confidence in the Western, Central, Northern and Eastern Division, and *low confidence* at Rotuma

- #### **2. POAMA:**
- The outlook for all station show *below normal* as the most likely outcome with *normal* and *above normal* the next most likely.