

Country Name: Fiji

TABLE 1: Monthly Rainfall

Station (include data period)	APRIL 2017						
	February 2017 Total	March 2017 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Western Division							
Penang Mill (1910-2017)	512.7	440.0	32.4	171.8	277.7	205.2	1/107
Lautoka Mill (1900-2017)	697.0	369.8	15.2	114.8	201.3	147.1	1/118
Nadi Airport (1942-2017)	786.6	509.8	48.7	116.8	208.0	152.0	6/75
Viwa (1978 -2017)	410.1	285.5	63.2	155.4	224.2	184.0	5/35
Central Division							
Laucala Bay (Suva) (1942-2017)	351.3	383.0	317.9	268.2	380.5	324.4	35/76
Nausori Airport (1957-2017)	433.8	312.8	175.4	262.0	389.2	321.9	8/61
Tokotoko (Navua) (1945-2017)	562.8	623.9	187.5	304.3	450.2	347.2	13/73
Eastern Division							
Lakeba (1950-2017)	525.1	175.1	21.8	131.8	221.0	175.2	1/67
Vunisea (Kadavu) (1931-2017)	474.0	302.6	273.9	149.3	271.9	212.9	55/85
Ono-i-Lau (1943-2017)	590.9	143.4	44.4	103.7	214.7	170.8	7/70
Northern Division							
Udu Point (1946-2017)	494.0	296.0	164.9	173.8	286.8	233.1	23/69
Nabouwalu (1918-2017)	626.4	590.6	71.8	204.2	330.9	245.1	5/99
Rotuma (1912-2017)	752.1	327.8	243.9	214.7	306.1	257.1	48/105

Period: *below normal/normal/above normal

M - Missing

**TABLE 2: Three-monthly Rainfall
February to April 2017**

Predictors and Period used: NINO3.4 SST Anomalies: October to December 2016

Station	Three-month Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking	Forecast probs.* (include LEPS)	Verification* (Consistent, Near-consistent or Inconsistent)
<i>Western Division</i>							
Penang Mill (1910-2017)	985.1	827.4	1102.7	992.8	53/107	23/37/ 40 (6.5)	Near-consistent
Lautoka Mill (1900-2017)	1082.0	677.2	926.3	809.0	94/117	23/37/ 40 (5.8)	Consistent
Nadi Airport (1942-2017)	1345.1	658.9	910.1	792.5	68/74	20/36/ 44 (14.3)	Consistent
Yasawa-i-rara (1950-2016)	Missing	542.9	818.5	656.4		20/37/ 43 (12.6)	Unverified
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2017)	1052.2	869.4	1080.7	944.8	48/76	32/ 37 /31 (-1.3)	Consistent
Nausori Airport (1957-2017)	922.0	892.5	1045.3	966.3	26/61	36 /35/29 (-0.4)	Near-consistent
Tokotoko (Navua) (1945-2017)	1374.2	999.0	1210.9	1106.5	60/73	33/ 38 /29 (-1.0)	Near-consistent
<i>Eastern Division</i>							
Lakeba, Lau (1950-2017)	722.0	628.5	819.3	696.0	38/67	20/ 40 /41 (9.6)	Consistent
Vunisea (Kadavu) (1931-2017)	1050.5	628.2	825.5	733.6	74/81	21/38/ 41 (9.2)	Consistent
Ono-i-lau (1943-2017)	778.7	474.0	698.4	580.9	53/68	28/32/ 40 (2.0)	Consistent
<i>Northern Division</i>							
Labasa Airport (1956-2016)	1362.5	781.0	1118.6	1019.2	35/62	27/33/ 40 (4.6)	Consistent
Savusavu Airfield (1956-2016)	751.3	632.9	842.6	694.9		26/37/ 40 (2.5)	Near-consistent
Rotuma (1912-2017)	1323.8	896.2	1083.1	1001.0	97/104	30/34/ 36 (-0.4)	Consistent

Period:* **below normal**/normal/**above normal**

* Forecast is consistent when observed and predicted (tercile with the highest probability) categories coincide (are in the same tercile).

Forecast is near-consistent when observed and predicted (tercile with the highest probability) differ by only one category (i.e. terciles 1 and 2 or terciles 2 and 3).

Forecast is inconsistent when observed and predicted (tercile with the highest probability) differ by two categories (i.e. terciles 1 and 3).

M - Missing

**TABLE 3: Seasonal Climate Outlooks using SCOPIC for
June to August 2017 – Tercile Method**

Predictors and Period used: NINO3.4 SST Anomalies: March to April 2017

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS (%)	Hit-rate (%)
<i>Western Division</i>							
Penang Mill (1910-2017)	39	159.5	30	226.3	31	0.6	38.8
Lautoka Mill (1900-2017)	39	119.7	31	223.7	30	0.9	34.3
Nadi Airport (1942-2017)	40	121.0	32	208.2	28	2.9	35.8
Viwa (1978 -2017)	40	113.4	24	229.0	37	2.9	51.4
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2017)	38	366.4	33	513.9	29	1.2	38.8
Nausori Airport (1957-2017)	41	343.2	31	498.9	28	4.4	40.0
Tokotoko (Navua) (1945-2017)	39	491.6	35	682.7	26	2.8	42.4
<i>Eastern Division</i>							
Lakeba (1950-2017)	41	202.2	37	303.6	22	4.5	24.2
Vunisea (Kadavu) (1931-2017)	39	255.0	30	397.8	31	0.8	42.4
Ono-i-Lau (1943-2017)	37	249.6	36	344.2	27	1.8	41.3
<i>Northern Division</i>							
Udu Point (1946-2017)	40	245.7	36	393.7	24	5.1	42.2
Nabouwalu (1918-2017)	47	231.7	35	336.0	18	15.4	55.4
<i>Rotuma</i>							
Rotuma (1912 -2017)	25	598.5	38	778.5	37	2.3	41.5

Seasonal Climate Outlook:

June to August 2017 - Median Table:

Predictors and Period used: NINO3.4 SST Anomalies: March to April 2017

Station	Below Median (prob)	Median rainfall (mm)	Above Median (prob)	LEPS	Hit-rate
<i>Western Division</i>					
Penang Mill (1910-2017)	52	185.4	48	-1.3	53.7
Lautoka Mill (1900-2017)	55	169.2	45	0.5	56.7
Nadi Airport (1942-2017)	55	167.9	45	0.9	53.7
Viwa (1978 -2017)	53	171.2	47	2.1	57.1
<i>Central Division</i>					
Laucala Bay (Suva) (1942-2017)	56	436.2	44	0.7	53.7
Nausori Airport (1957-2017)	60	428.0	40	6.8	60.0
Tokotoko (Navua) (1945-2017)	59	576.5	41	5.1	56.1
<i>Eastern Division</i>					
Lakeba (1950-2017)	55	270.4	45	0.7	50.0
Vunisea (Kadavu) (1931-2017)	56	316.4	44	2.5	56.1
Ono-i-Lau (1943-2017)	55	289.2	45	0.6	57.1
<i>Northern Division</i>					
Udu Point (1946-2017)	63	305.3	37	10.2	60.9
Nabouwalu (1918-2017)	65	281.1	35	11.5	60.0
<i>Rotuma</i>					
Rotuma (1912 -2017)	44	709.4	56	1.6	58.5

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for
June to August 2017**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)
Lakeba	42	184.0	39	299.0	19
Nadi	46	126.0	42	215.0	12
Nabouwalu	42	212.0	42	316.0	16
Udu Point	46	159.0	30	295.0	24
Vunisea	46	294.0	42	448.0	12
Suva	46	359.0	42	501.0	12
Rotuma	36	587.0	21	843.0	43

Summary Statements

Rainfall for April 2017:

Majority of the stations recorded *below normal* rainfall, while *above normal* rainfall was recorded at Vunisea and *normal* rainfall at Laucala Bay (Suva) and Rotuma.

Penang (107 years of record), Lautoka (118 years) and Lakeba (67 years) recorded their lowest ever April monthly rainfall.

Accumulated rainfall for February to April 2017 & outlook verification:

Normal to above normal rainfall was recorded across country during February to April 2017 period.

For the February to April 2017 period, the rainfall outlooks were consistent at seven of the thirteen sites, near-consistent at four sites, inconsistent at Rotuma, while the outlook for Yasawa-i-Rara could not be verified due to missing records.

Outlooks for June to August 2017:

1. SCOPIC:

The SCOPIC rainfall outlook for June to August 2017:

- *Below normal* rainfall is most likely followed by *normal* rainfall;
- Rotuma is the lone exception, where there is equal likelihood of *normal* and *above normal* rainfall.

2. POAMA

POAMA model is almost identical to SCOPIC in that *below normal* rainfall is the most likely, with *normal* the next most likely. Once again the exception is Rotuma where *above normal* rainfall is the most likely.

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

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

Very High : $25 \leq X < 35$ Exceptional: $X \geq 35$