

Country Name: Fiji

TABLE 1: Monthly Rainfall

Station (include data period)			September 2017				
	July 2017 Total	August 2017 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
<i>Western Division</i>							
Penang Mill (1910-2017)	1.4	48.7	28.6	38.3	104.9	67.6	28/107
Lautoka Mill (1900-2017)	10.2	28.7	2.1	31.8	81.4	52.7	5/118
Nadi Airport (1942-2017)	20.5	60.6	4.3	36.1	91.0	62.8	6/76
Viwa (1978 -2017)	15.8	93.5	12.2	35.3	72.3	52.5	6/36
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2017)	85.1	149.8	118.4	119.1	218.5	149.5	26/76
Nausori Airport (1957-2017)	76.9	169.4	122.5	104.2	200.5	147.4	25/61
Tokotoko (Navua) (1945-2017)	146.5	149.6	184.1	157.4	286.7	214.4	33/73
<i>Eastern Division</i>							
Lakeba (1950-2017)	26.6	81.6	58.1	66.3	120.6	90.6	21/69
Vunisea (Kadavu) (1931-2017)	M	122.9	-	76.8	151.0	108.6	-
Ono-i-Lau (1943-2017)	20.1	214.4	91.4	68.6	116.9	90.4	36/70
<i>Northern Division</i>							
Labasa Airport (1946-2017)	20.3	80.2	40.8	36.7	79.9	59.6	24/61
Savusavu Airfield (1956-2017)	17.0	86.8	35.7	81.8	135.0	107.0	5/60
Rotuma (1912-2017)	434.6	220.8	175.6	178.7	242.3	210.8	32/103

Period: *below normal/normal/above normal

M - Missing

**TABLE 2: Three-monthly Rainfall
July to September 2017**

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

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)
Western Division							
Penang Mill (1910-2017)	78.7	152.0	232.6	196.5	11/107	43:38:19 (3.7)	Consistent
Lautoka Mill (1900-2017)	41.0	123.2	219.6	171.7	7/118	46:30:24 (2.7)	Consistent
Nadi Airport (1942-2017)	85.4	130.3	213.9	175.1	10/76	48:26:26 (2.7)	Consistent
Viwa (1978 -2017)	121.5	109.6	266.2	153.2	15/35	39:28:33 (-1.0)	Near consistent
Central Division							
Laucala Bay (Suva) (1942-2017)	353.3	384.2	562.5	464.6	22/76	46:29:25 (2.5)	Consistent
Nausori Airport (1957-2017)	368.8	369.6	531.1	441.8	21/61	34:41:25 (-0.1)	Near-consistent
Tokotoko (Navua) (1945-2017)	480.2	526.5	684.0	625.7	18/72	45:37:18 (5.2)	Consistent
Eastern Division							
Lakeba, Lau (1950-2017)	166.3	208.9	315.8	236.8	16/67	36:40:24 (0.1)	Near Consistent
Vunisea (Kadavu) (1931-2017)	-	272.9	381.7	324.2	-	37:36:27 (-0.3)	-
Ono-i-lau (1943-2017)	325.9	251.9	344.5	291.6	43/70	43:30:27 (0.3)	Near-consistent
Northern Division							
Labasa Airport (1956-2017)	141.3	109.0	204.0	158.0	28/61	41:35:24 (0.9)	Near-consistent
Savusavu Airfield (1956-2017)	139.5	244.0	355.0	310.0	5/60	49:19:32 (1.8)	Consistent
Rotuma (1912-2017)	831.0	576.5	775.2	656.1	78/103	32:30:38 (-1.7)	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
November 2017 to January 2018– Tercile Method**

Predictors and Period used: NINO3.4 SST Anomalies: August to September 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)	22	567.8	40	821.8	38	18.4	59.4
Lautoka Mill (1900-2017)	18	416.2	44	689.4	38	33.3	58.2
Nadi Airport (1942-2017)	23	428.9	42	746.8	35	31.0	59.7
Viwa (1978 -2017)	17	317.4	41	625.6	42	31.8	52.8
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2017)	32	683.8	34	1030.6	34	3.4	41.8
Nausori Airport (1957-2017)	29	742.5	36	1010.6	35	10.7	42.6
Tokotoko (Navua) (1945-2017)	30	856.8	35	1124.5	35	5.3	48.5
<i>Eastern Division</i>							
Lakeba (1950-2017)	30	461.1	37	671.7	33	17.3	53.7
Vunisea (Kadavu) (1931-2017)	29	444.0	36	637.8	35	11.9	51.5
Ono-i-Lau (1943-2017)	22	328.1	43	515.4	35	31.7	62.5
<i>Northern Division</i>							
Labasa Airport (1956-2017)	21	571.0	40	928.6	39	30.2	54.4
Savusavu Airfield (1956-2017)	29	559.9	36	745.0	35	11.0	45.6
<i>Rotuma</i>							
Rotuma (1912 -2017)	29	898.7	36	1078.5	35	9.8	42.4

Seasonal Climate Outlook:

November 2017 to January 2018 - Median Table:

Predictors and Period used: NINO3.4 SST Anomalies: August to September 2017

Station	Below Median (prob)	Median rainfall (mm)	Above Median (prob)	LEPS (%)	Hit-rate (%)
<i>Western Division</i>					
Penang Mill (1910-2017)	43	682.8	57	21.9	71.9
Lautoka Mill (1900-2017)	40	559.0	61	35.8	80.6
Nadi Airport (1942-2017)	44	656.2	56	34.5	80.6
Viwa (1978 -2017)	28	471.8	72	45.6	86.1
<i>Central Division</i>					
Laucala Bay (Suva) (1942-2017)	48	850.1	52	6.7	65.7
Nausori Airport (1957-2017)	47	850.4	53	8.4	62.3
Tokotoko (Navua) (1945-2017)	49	928.6	51	1.5	59.1
<i>Eastern Division</i>					
Lakeba (1950-2017)	47	575.8	54	15.1	64.2
Vunisea (Kadavu) (1931-2017)	48	526.2	52	11.4	68.2
Ono-i-Lau (1943-2017)	46	448.6	54	14.0	71.9
<i>Northern Division</i>					
Labasa Airport (1956-2017)	40	666.6	60	25.4	75.4
Savusavu Airfield (1956-2017)	45	663.9	55	19.1	68.4
<i>Northern Division</i>					
Rotuma (1912 -2017)	48	984.4	52	6.0	57.6

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for
November 2017 to January 2018**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)
Lakeba	21	450	18	628	61
Nadi	21	410	21	711	58
Nabouwalu	21	594	15	784	64
Udu Point	24	601	5	751	71
Vunisea	21	479	21	611	58
Suva	21	683	21	933	58
Rotuma	9	775	6	1056	85

Summary Statements

Rainfall for September 2017:

Normal to below-normal rainfall was recorded across the Fiji Group during September 2017.

September 2017 was the fifth driest September on record for Lautoka Mill and Savusavu Airfield and 6th driest for Nadi Airport and Viwa.

Accumulated rainfall for July to September 2017 & outlook verification:

The accumulated rainfall over the July to September 2017 was *below-normal* at most of the stations. The exceptions to this were Viwa, Labasa Airport and Ono-i-Lau where *normal* rainfall was registered, while Rotuma recorded *above-normal* rainfall.

As at end of September 2017, majority of the stations in the Western Division were in a meteorological drought state at the 3-month timescale.

The rainfall outlooks for the July to September 2017 period were consistent at seven stations, near-consistent at five, while the forecast for Vunisea could not be verified due to missing observations.

Outlooks for November 2017 to January 2018:

1. SCOPIC:

The SCOPIC rainfall outlook for November 2017 to January 2018 shows:

- Across most of the Western Division normal rainfall as the most likely outcome, with above-normal the next likely;
- At Viwa, Ono-i-Lau and Labasa there are near-equal chances for normal or above-normal rainfall
- Little guidance for remaining sites as the chances of below-normal, normal or above-normal rainfall are similar.
- Generally *good to high* confidences in the outlook at most of the places, with the exception of Central Division and Rotuma where the confidence range from *low to moderate*.

2. POAMA

The POAMA outlook shows:

- *Above-normal* rainfall as the favoured outcome across the Fiji Group.

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: $X \geq 35$