

Country Name: Fiji

TABLE 1: Monthly Rainfall

Station (include data period)			December 2017				
	October 2017 Total	November 2017 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Western Division							
Penang Mill (1910-2017)	7.1	187.2	134.1	149.8	268.7	210.3	31/105
Lautoka Mill (1900-2017)	24.5	131.0	187.3	108.1	212.4	150.7	71/118
Nadi Airport (1942-2017)	28.2	138.8	202.4	119.1	234.3	181.8	44/76
Viwa (1978 -2017)	40.7	-	88.6	89.5	176.0	143.2	13/36
Central Division							
Laucala Bay (Suva) (1942-2017)	150.2	661.5	411.3	210.7	325.5	254.3	61/76
Nausori Airport (1957-2017)	126.2	487.4	340.7	214.2	320.4	251.8	45/62
Tokotoko (Navua) (1945-2017)	236.5	871.5	347.9	220.8	392.5	282.3	41/72
Eastern Division							
Lakeba (1950-2017)	72.6	381.5	114.2	135.6	210.1	168.5	19/68
Vunisea (Kadavu) (1931-2017)	-	555.6	172.4	107.3	179.2	140.7	52/81
Ono-i-Lau (1943-2017)	131.8	174.6	124.0	87.1	174.4	117.8	38/70
Northern Division							
Labasa Airport (1946-2017)	47.0	267.1	213.0	144.0	278.7	205.8	31/60
Savusavu Airfield (1956-2017)	80.7	235.5	197.2	143.1	241.9	169.6	36/61
Rotuma (1912-2017)	625.1	369.3	192.0	242.9	373.8	307.8	19/103

Period: *below normal/normal/above normal

M - Missing

**TABLE 2: Three-monthly Rainfall
October to December 2017**

Predictors and Period used: NINO3.4 SST Anomalies: July to August 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)	328.4	351	576	462	30/103	29: 37 :34 (14.7)	Near-consistent
Lautoka Mill (1900-2017)	342.8	275	448	358	57/118	29: 39 :32 (20.8)	Consistent
Nadi Airport (1942-2017)	369.4	326	487	380	35/75	28: 39 :33 (19.6)	Consistent
Viwa (1978 -2017)	-	244	364	317	-	14: 45 :41 (28.5)	Missing
Central Division							
Laucala Bay (Suva) (1942-2017)	1223.0	539	835	706	70/76	32: 35 :33 (4.6)	Near-Consistent
Nausori Airport (1957-2017)	954.3	559	831	682	45/61	31: 35 :34 (5.8)	Near-Consistent
Tokotoko (Navua) (1945-2017)	1455.9	769	1032	873	68/72	33: 35 :32 (5.7)	Near-Consistent
Eastern Division							
Lakeba, Lau (1950-2017)	568.3	327	532	409	50/68	31: 36 :33 (10.4)	Near-Consistent
Vunisea (Kadavu) (1931-2017)	-	313	506	422	-	34: 36 :30(10.9)	Missing
Ono-i-lau (1943-2017)	430.4	215	411	348	48/70	27: 40 :33 (23.5)	Near-Consistent
Northern Division							
Labasa Airport (1956-2017)	527.1	362	623	485	36/57	25: 41 :34 (23.4)	Consistent
Savusavu Airfield (1956-2017)	513.4	420	622	511	31/60	28: 37 :35 (14.2)	Consistent
Rotuma (1912-2017)	1186.4	818	1054	939	85/102	32: 34 : 34 (1.1)	Near-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
February to April 2018– Tercile Method**

Predictors and Period used: NINO3.4 SST Anomalies: November to December 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)	19	827.4	37	1092.1	44	9.9	56.9
Lautoka Mill (1900-2017)	21	681.3	38	934.0	41	6.7	46.3
Nadi Airport (1942-2017)	18	662.9	36	910.4	46	15.4	50.7
Viwa (1978 -2017)	14	590.5	37	757.2	49	15.7	51.4
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2017)	32	869.9	39	1061.4	29	-1.3	32.8
Nausori Airport (1957-2017)	37	893.8	35	1044.3	28	0	39.3
Tokotoko (Navua) (1945-2017)	33	998.8	39	1206.6	28	-0.9	35.4
<i>Eastern Division</i>							
Lakeba (1950-2017)	20	643.9	40	821.9	40	7.7	29.7
Vunisea (Kadavu) (1931-2017)	18	631.3	40	827.0	42	10.3	50.0
Ono-i-Lau (1943-2017)	27	475.4	32	707.8	41	2.1	41.0
<i>Northern Division</i>							
Labasa Airport (1956-2017)	24	815.9	38	1142.7	38	3.1	41.7
Savusavu Airfield (1956-2017)	26	638.9	37	834.5	37	1.5	29.3
<i>Rotuma</i>							
Rotuma (1912 -2017)	29	897.9	33	1083.3	38	0.3	35.8

Seasonal Climate Outlook:

February to April 2018 - Median Table:

Predictors and Period used: NINO3.4 SST Anomalies: November to December 2017

Station	Below Median (prob)	Median rainfall (mm)	Above Median (prob)	LEPS (%)	Hit-rate (%)
<i>Western Division</i>					
Penang Mill (1910-2017)	38	992.8	62	9.4	66.2
Lautoka Mill (1900-2017)	39	809.4	61	8.4	61.2
Nadi Airport (1942-2017)	39	797.2	61	6.9	62.7
Viwa (1978 -2017)	30	691.2	70	19.4	65.7
<i>Central Division</i>					
Laucala Bay (Suva) (1942-2017)	50	945.9	50	-1.5	11.9
Nausori Airport (1957-2017)	55	960.5	45	0.4	55.7
Tokotoko (Navua) (1945-2017)	55	1101.8	45	-0.7	53.8
<i>Eastern Division</i>					
Lakeba (1950-2017)	40	699.4	60	6.2	62.5
Vunisea (Kadavu) (1931-2017)	40	734.5	60	5.9	60.6
Ono-i-Lau (1943-2017)	40	585.0	60	4.6	63.9
<i>Northern Division</i>					
Labasa Airport (1956-2017)	41	1028.0	59	4.1	63.3
Savusavu Airfield (1956-2017)	45	697.2	55	0	56.9
<i>Northern Division</i>					
Rotuma (1912 -2017)	45	1004.8	55	0.8	53.7

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for
February to April 2018**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)
Lakeba	24	545	24	757	52
Nadi	30	657	21	856	49
Nabouwalu	27	735	18	1042	55
Udu Point	33	709	18	928	49
Vunisea	30	618	21	846	49
Suva	30	852	21	983	49
Rotuma	18	845	33	1046	49

Summary Statements

Rainfall for December 2017:

Majority of the stations recorded *above normal* rainfall in the Central Division, while *normal to below normal* rainfall was recorded at the rest of the stations, including Rotuma.

Accumulated rainfall for October to December 2017 & outlook verification:

Normal to above normal rainfall recorded across the country, except for Penang, which recorded *below normal* rainfall.

The rainfall outlooks were near- consistent at seven of the sites, four consistent and two stations had missing observations.

Outlooks for February to April 2018:

1. SCOPIC:

The SCOPIC rainfall outlook for February to April 2018 shows:

- **Western Divisions:** the outlook shows *above normal* as the most likely outcome with *normal* the next most likely. *Below normal* is the least likely;
- **Central Division:** the outlook offers little guidance as the chances of *above-normal*, *normal* and *below-normal* rainfall are similar;
- **Eastern Division:** the outlook shows a near- equal likelihood of *normal* and *above normal* rainfall. *Below- normal* is the least likely.
- **Northern Division:** the outlook shows near-equal likelihood of *above normal* and *normal* rainfall. *Below normal* is the least likely.
- **Rotuma:** the outlook offers little guidance as the chances of *above normal*, *normal* and *below normal* are similar.

Moderate to high confidence in the Western Division, *low to moderate* confidence in the Eastern and Northern Division and *very low* confidence in the Central Division. *Low* confidence at Rotuma.

2. POAMA

The POAMA outlook shows:

- *Above normal* rainfall is 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: $X \geq 35$