

Country Name: Fiji

TABLE 1: Monthly Rainfall

Station (include data period)			November 2016				
	September 2016 Total	October 2016 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Western Division							
Penang Mill (1910-2016)	1.2	72.5	126.0	90.9	188.3	125.9	53/105
Lautoka Mill (1900-2016)	2.6	153.2	110.7	62.9	139.7	101.8	64/117
Nadi Airport (1942-2016)	7.3	164.6	123.4	89.3	148.2	122.3	39/74
Yasawa-i-Rara (1950-2016)	1.4	176.2	71.6	56.0	157.4	112.2	26/65
Central Division							
Laucala Bay (Suva) (1942-2016)	56.9	291.9	118.0	147.4	254.7	205.5	20/75
Nausori Airport (1957-2016)	26.1	300.5	73.7	187.6	296.8	229.8	6/61
Tokotoko Navua) (1945-2016)	41.1	398.2	72.6	222.1	347.2	276.8	5/71
Eastern Division							
Lakeba (1950-2016)	3.0	139.5	28.7	71.9	176.4	114.0	6/68
Vunisea (Kadavu) (1931-2016)	21.8	174.9	60.8	81.7	156.8	108.0	23/81
Ono-i-lau (1943-2016)	23.6	175.7	105.4	53.7	125.9	92.8	43/71
Northern Division							
Labasa Airport (1956-2016)	7.9	202.6	23.4	117.9	203.4	151.1	2/58
Rotuma (1912-2016)	379.3	423.6	351.2	250.5	347.5	292.2	71/103

Period: *below normal/normal/above normal

M - Missing

**TABLE 2: Three-monthly Rainfall
September to November 2016**

Predictors and Period used: NINO3.4 SST Anomalies: February to April 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)
Western Division							
Penang Mill (1910-2016)	199.7	239.5	360.0	292.8	27/104	41:38:21 (19.1)	Consistent
Lautoka Mill (1900-2016)	266.5	183.0	324.8	264.5	61/117	42:39:19 (19.4)	Near-consistent
Nadi Airport (1942-2016)	295.3	237.4	342.9	296.0	37/74	45:40:15 (30.4)	Near-consistent
Yasawa-i-rara (1950-2016)	249.2	191.9	351.9	263.3	30/63	41:38:21 (12.2)	Near-consistent
Central Division							
Laucala Bay (Suva) (1942-2016)	466.8	458.5	754.3	614.4	27/75	41:32:27 (11.4)	Near-consistent
Nausori Airport (1957-2016)	400.3	434.7	713.2	594.2	17/60	40:36:24 (11.3)	Consistent
Tokotoko (Navua) (1945-2016)	511.9	648.2	936.4	773.1	9/71	44:40:16 (22.5)	Consistent
Eastern Division							
Lakeba, Lau (1950-2016)	171.2	273.9	393.9	329.0	8/68	41:34:25 (12.9)	Consistent
Vunisea (Kadavu) (1931-2016)	257.5	310.2	440.4	388.2	19/79	42:33:25 (14.0)	Consistent
Ono-i-lau (1943-2016)	304.7	207.2	354.8	293.0	39/69	42:34:24 (14.4)	Near-consistent
Northern Division							
Labasa Airport (1956-2016)	233.9	261.0	382.6	307.7	16/57	40:39:21 (20.5)	Consistent
Rotuma (1912-2016)	1154.1	722.0	927.4	842.0	91/101	36:27:37 (-0.8)	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
Jan to Mar 2017 – Tercile Method**

Predictors and Period used: NINO3.4 SST Anomalies: September to November 2016

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 (1910-2016)	7	925.3	40	1185.9	53	31.1	60.6
Lautoka Mill (1900-2016)	15	793.8	35	1063.7	50	23.0	54.5
Nadi Airport (1942-2016)	19	808.6	34	1087.4	47	19.3	47.0
Yasawa-i-rara (1950-2016)	9	619.3	42	898.4	49	30.6	50.8
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2016)	31	839.6	32	1085.9	37	-0.1	33.3
Nausori Airport (1957-2016)	31	877.1	35	1077.4	34	-1.4	33.3
Tokotoko (Navua) (1945-2016)	30	921.5	39	1245.5	31	-0.9	25.8
<i>Eastern Division</i>							
Lakeba (1950-2016)	19	639.0	32	879.6	49	19.6	52.3
Vunisea (Kadavu) (1931-2016)	26	615.1	37	834.2	37	0.6	18.5
Ono-i-lau (1943-2016)	27	489.8	34	683.7	39	1.5	41.0
<i>Northern Division</i>							
Labasa Airport (1956-2016)	16	973.0	41	1296.4	43	14.8	48.3
<i>Rotuma</i>							
Rotuma (1912 -2016)	18	929.9	38	1160.7	44	16.7	47.0

Seasonal Climate Outlook:

January to March 2017 - Median Table:

Predictors and Period used: NINO3.4 SST Anomalies: September to November 2016

Station	Below Median (prob)	Median rainfall (mm)	Above Median (prob)	LEPS	Hit-rate
<i>Western Division</i>					
Penang Mill (1910-2016)	30	1066.5	70	22.1	75.8
Lautoka Mill (1900-2016)	34	945.7	66	14.4	69.7
Nadi Airport (1942-2016)	33	937.2	67	19.0	72.7
Yasawa-i-rara (1950-2016)	30	741.1	70	24.9	77.8
<i>Central Division</i>					
Laucala Bay (Suva) (163.6942-2016)	46	1008.1	54	-0.4	51.5
Nausori Airport (1957-2016)	50	955.8	50	-1.7	30.0
Tokotoko (Navua) (1945-2016)	55	1083.5	45	-0.1	60.6
<i>Eastern Division</i>					
Lakeba (1950-2016)	38	753.0	62	10.2	63.1
Vunisea (Kadavu) (1931-2016)	42	738.1	58	4.4	66.2
Ono-i-lau (1943-2016)	44	594.7	56	1.6	57.4
<i>Northern Division</i>					
Labasa Airport (1956-2016)	36	1117.1	64	13.3	68.3
<i>Rotuma</i>					
Rotuma (1912 -2016)	31	1044.4	69	24.3	66.7

Summary Statements

Rainfall for November 2016:

Below normal rainfall were recorded in the Central and Northern Division and generally in the Eastern Division, while *normal* rainfall was recorded in the Western Division and Ono in the Eastern Division.

Rotuma recorded *above normal* rainfall.

Labasa Airfield recorded its second lowest November rainfall, while Navua recorded its fifth lowest November rainfall.

Accumulated rainfall for September to November 2016 & outlook verification:

For 3-month rainfall, *normal* rainfall were recorded at most of the Western Division, Suva in the Central Division and Ono in the Eastern Division, while *below normal* rainfall were recorded at Penang (Western Division), Nausori, Navua, Lakeba, Vunisea (Kadavu) and Labasa Airfield.

Rotuma was the lone station again that recorded *above normal* rainfall.

Verification of the 3-month rainfall

Apart from Lautoka, Nadi, Yasawa, Suva and Ono-i-Lau, which had near-consistent forecast, the rest of the stations recorded consistent forecasts.

Outlooks for January to March 2017:

1. SCOPIC:

Above normal rainfall is favoured for most of the Western Division, except for Yasawa-I-Rara where above normal rainfall is most-likely. Above normal favoured for the Eastern and Northern Divisions, except for Vunisea (Eastern Division) which has an equal likelihood of above normal and normal rainfall. Climatology forecast for the Central Division.

Rotuma also favours above normal rainfall.

The confidences in the rainfall outlook for the Central Division is very low, while generally high to very high confidence in the Western, Eastern and Northern Division. Rotuma confidence is also high.

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: $X \geq 35$