

Country Name: Fiji

TABLE 1: Monthly Rainfall

Station (include data period)	December 2015						
	October 2015 Total	November 2015 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Western Division							
Penang Mill (1910-2015)	34.7	27.7	195.4	141.9	276.0	219.0	45/103
Lautoka Mill (1900-2015)	18.5	2.4	116.3	108.3	210.4	150.7	43/116
Nadi Airport (1942-2015)	24.5	28.4	204.6	119.0	232.3	176.1	43/74
Yasawa-i-rara (1950-2015)	34.6	2.9	249.0	98.2	182.2	140.7	53/63
Central Division							
Laucala Bay (Suva) (1942-2015)	98.3	45.6	364.8	208.4	312.7	252.5	54/74
Nausori Airport (1957-2015)	122.9	74.4	375.1	213.9	311.0	246.2	48/60
Tokotoko (Navua) (1945-2015)	128.8	193.8	493.1	216.3	383.9	276.1	61/70
Eastern Division							
Lakeba (1950-2015)	12.5	48.4	86.1	133.7	208.8	168.4	15/67
Vunisea (Kadavu) (1931-2015)	128.5	26.1	M	M	M	M	M
Ono-i-lau (1943-2015)	9.0	25.8	15.8	82.2	172.6	116.4	4/70
Northern Division							
Labasa Airport (1956-2015)	69.2	72.2	82.9	146.8	278.7	211.0	7/60
Nabouwalu (1918-2015)	M	M	295.2	180.9	308.8	242.8	59/97
Rotuma (1912-2015)	156.4	252.7	274.2	242.7	375.0	308.1	43/102

Period: *below normal/normal/above normal

M - Missing

**TABLE 2: Three-monthly Rainfall
October to December 2015**

[Please note that the data used in this verification should be sourced from table 3 of OCOF #96]

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 (1910-2015)	257.8	356.6	572.0	461.5	16/101	77:17:6 (13.2)	Consistent
Lautoka Mill (1900-2015)	137.2	276.1	446.4	358.1	7/116	80:17:3 (17.3)	Consistent
Nadi Airport (1942-2015)	257.5	325.7	482.6	380.1	18/73	78:18:4 (16.5)	Consistent
Yasawa-i-rara (1950-2015)	286.5	255.5	433.8	352.5	24/63	79:18:3 (18.2)	Near-Consistent
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2015)	508.7	539.6	833.9	705.7	23/74	60:24:16 (2.6)	Consistent
Nausori Airport (1957-2015)	572.4	547.7	812.5	682.5	22/59	63:21:16 (5.6)	Near-Consistent
Tokotoko (Navua) (1945-2015)	815.7	760.7	1028.3	873.2	29/70	54:36:10 (5.6)	Near-Consistent
<i>Eastern Division</i>							
Lakeba, Lau (1950-2015)	147.0	330.6	529.5	409.1	3/67	73:18:9 (8.9)	Consistent
Vunisea (Kadavu) (1931-2015)	M	310.1	504.8	415.3	M	56:37:7 (8.8)	M
Ono-i-lau (1943-2015)	50.6	220.1	406.3	348.3	2/70	87:11:2 (21.5)	Consistent
<i>Northern Division</i>							
Labasa Airport (1956-2015)	224.3	362.9	626.8	485.4	6/57	73:25:2 (22.1)	Consistent
Nabouwalu (1918-2015)	M	446.3	719.9	546.9	M	73:23:4 (15.9)	M
Rotuma (1912-2015)	683.3	826.9	1054.3	943.1	16/101	48:26:26 (-0.4)	Consistent

Period: *below normal/normal/above normal

Predictors and Period used for October to December 2015 Outlooks (refer to OCOF #96):

* 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 2016 – Tercile Method**

Predictors and Period used:

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 (1910-2015)	77	275.7	19	365.2	4	11.9	53.1
Lautoka Mill (1900-2015)	95	224.4	4	305.2	1	23.2	45.5
Nadi Airport (1942-2015)	92	219.0	8	302.5	0	33.9	63.6
Yasawa-i-rara (1950-2015)	93	178.8	5	277.3	2	16.0	51.6
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2015)	36	291.5	26	366.6	38	-3.5	15.2
Nausori Airport (1957-2015)	34	297.1	26	348.8	40	-3.7	24.2
Tokotoko (Navua) (1945- 2015)	34	334.0	33	404.8	33	-3.5	0.0
<i>Eastern Division</i>							
Lakeba (1950-2015)	87	212.3	8	274.0	5	14.3	40.6
Vunisea (Kadavu) (1931- 2015)	63	211.5	28	275.2	9	5.9	51.5
Ono-i-lau (1943-2015)	41	157.6	30	229.7	29	-4.5	17.9
<i>Northern Division</i>							
Labasa Airport (1956- 2015)	54	257.9	31	373.2	15	2.8	45.5
Nabouwalu (1918-2015)	46	258.4	52	343.9	2	12.9	40.6
Rotuma (1912 -2015)	54	298.6	11	360.1	35	-1.1	39.4

**Seasonal Climate Outlook:
February to April 2016 - Median Table:**

Predictors and Period used:

Station	Below Median (prob)	Median rainfall (mm)	Above Median (prob)	LEPS	Hit-rate
<i>Western Division</i>					
Penang Mill (1910-2015)	88	329.5	12	17.0	68.8
Lautoka Mill (1900-2015)	94	269.5	6	18.9	63.9
Nadi Airport (1942-2015)	98	263.0	2	30.8	72.7
Yasawa-i-rara (1950-2015)	93	219.9	7	17.1	71.0
<i>Central Division</i>					
Laucala Bay (Suva) (1942-2015)	58	315.3	42	-2.5	51.5
Nausori Airport(1957-2015)	45	320.2	55	-3.0	45.5
Tokotoko (Navua) (1945-2015)	52	370.4	48	-3.1	24.2
<i>Eastern Division</i>					
Lakeba (1950-2015)	81	232.8	19	5.6	59.4
Vunisea (Kadavu) (1931-2015)	77	244.8	23	3.6	63.6
Ono-i-lau (1943-2015)	67	193.5	33	-1.3	57.1
<i>Northern Division</i>					
Labasa Airport (1956-2015)	82	339.5	18	6.1	63.6
Nabouwalu (1918-2015)	89	293.1	11	12.7	65.6
Rotuma (1912 -2015)	63	333.4	37	-1.7	45.5

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for
February to April 2016**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)
Lakeba	82	545.0	12	757	6
Nadi	73	657.0	21	856	6
Nabouwalu	70	735.0	25	1042	5
Udu Point	70	709.0	24	928	6
Vunisea	73	618.0	21	846	6
Suva	73	852.0	21	983	6
Rotuma	67	845.0	24	1046	9

Summary Statements

Rainfall for December 2015:

Rainfall in December was *above normal* for Central Division and Yasawa- i-Rara in the Western Division. *Normal rainfall* was recorded at Penang Mill, Lautoka Mill, Nadi Airport in the Western Division, Nabouwalu in the Northern Division and Rotuma. *Below normal* rainfall was recorded at Lakeba and Ono-i-lau in the Eastern Division and Labasa in the Northern Division.

Accumulated rainfall for October to December 2015 and outlook verification:

Rainfall over the last three months was *normal* at Yasawa-i-rara in the Western Division and Nausori Airport and Tokotoko in the Central Division. The rest of the stations recorded *below normal* rainfall.

October to December 2015 was second driest in the October to December period on record at Ono-i-lau and third driest at Lakeba.

Verification of the 3-month rainfall

The SCOPIC outlooks for the last three months were consistent at 8 stations, and near – consistent at 3 stations. The outlook for Vunisea and Nabouwalu could not be verified due to missing data.

Outlooks for February to April 2016:

1. SCOPIC:

The seasonal rainfall outlook for February to April 2016 shows:

- *Below normal* rainfall is the most likely outcome across the Western and Eastern Divisions, Labasa Airport in the Northern Division and at Rotuma, with *normal* rainfall the most likely;
- *Normal* rainfall is favoured at Nabouwalu, with *below normal* next most likely;
- The outlooks offer little guidance for the Central Division as the chances of *above normal*, *normal* and *below normal* rainfall are similar;
- The outlook confidence ranges from good to *very high* in the Western Division, while it's generally *very low* to *moderate* at the rest of the stations.

2. POAMA:

POAMA model favours *below normal* rainfall at all the stations.

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: $X \geq 35$