

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 81

Country Name: Fiji

TABLE 1: Monthly Rainfall

Station (include data period)	May 2014						
	March 2014 Total	April 2014 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Western Division							
Penang Mill (1910-2014)	242.9	123.5	207.1	65.4	164.5	100.9	83/105
Lautoka Mill (1900-2014)	101.1	145.7	140.6	45.4	116.8	79.0	89/115
Nadi Airport (1942-2014)	136.7	117.3	133.9	42.7	101.1	78.4	54/72
Yasawa-i-Rara (1950-2014)	155.0	101.4	132.6	43.4	111.1	89.9	46/62
Central Division							
Laucala Bay (Suva) (1942-2014)	497.1	186.0	447.1	172.2	258.1	198.2	65/73
Nausori Airport (1957-2014)	427.8	107.3	226.5	159.2	260.7	196.7	37/58
Tokotoko (Navua) (1945-2014)	752.5	154.6	224.2	182.4	350.7	255.1	31/70
Eastern Division							
Lakeba (1950-2014)	192.9	91.0	155.3	82.5	174.4	110.4	42/65
Vunisea (Kadavu) (1931-2014)	309.8	165.1	249.9	105.7	201.1	139.3	59/78
Ono-I-Lau (1943-2014)	63.2	91.0	243.5	61.5	143.0	83.9	62/67
Northern Division							
Labasa Airport (1956-2014)	158.1	62.8	107.8	58.1	120.5	85.2	35/59
Nabouwalu (1918-2014)	251.3	106.9	315.6	113.9	207.0	172.7	84/97
Rotuma (1912-2014)	303.9	163.9	426.7	231.8	340.0	282.8	83/101

Period: *below normal/normal/above normal

**TABLE 2: Three-monthly Rainfall
March to May 2014**
Predictors and Period used: SOI (November 2013 to January 2014)

Station	Three-month Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking	Forecast probs.* (include LEPS)	Verification* (Consistent, Near-consistent, Inconsistent ?)
Western Division							
Penang Mill (1910-2014)	573.5	596.9	906.4	695.6	30/104	25/36/ 39 (3.3)	Inconsistent
Lautoka Mill (1900-2014)	387.4	481.4	682.0	575.6	23/114	19/ 41 /40 (8.5)	Near consistent
Nadi Airport (1942-2014)	387.9	509.5	675.8	584.5	12/71	22/35/ 43 (10.5)	Inconsistent
Yasawa-i-Rara (1950-2014)	389.0	489.7	643.4	549.4	11/62	25/33/ 42 (6.0)	Inconsistent
Central Division							
Laucala Bay (Suva) (1942-2014)	1130.2	819.9	1046.3	909.5	54/73	31/ 35 /34 (-1.1)	Near Consistent
Nausori Airport (1957-204)	761.6	824.7	1047.7	916.8	11/58	28/ 37 /35 (-1.2)	Near Consistent
Tokotoko (Navua) (1945-2014)	1131.3	943.0	1186.9	1059.8	41/70	29/ 38 /33 (-0.6)	Consistent
Eastern Division							
Lakeba, Lau (1950-2014)	439.2	546.5	721.5	647.9	11/64	23/36/ 41 (6.1)	Inconsistent
Vunisea (Kadavu) (1931-2014)	724.8	613.3	761.2	297.4	44/77	23/ 40 /37 (4.4)	Consistent
Ono-i-Lau (1943-2014)	397.7	458.0	643.8	513.2	20/65	21/36/ 43 (7.4)	Inconsistent
Northern Division							
Labasa Airport (1956-2014)	328.7	568.6	843.7	729.0	4/59	25/37/ 38 (3.0)	Inconsistent
Nabouwalu (1918-2014)	673.8	668.3	907.9	771.3	36/97	23/ 39 /38 (4.5)	Consistent
Rotuma (1912-2014)	894.5	824.1	1043.2	957.6	42/100	30/ 40 /30 (-0.6)	Consistent

* 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).

**TABLE 3: Seasonal Climate Outlooks using SCOPIC for
July to September 2014**

Predictors and Period used: SST 1 & 9 (March to May 2014)

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 (1910-2014)	28	153.0	33	233.5	39	-1.3	23.4
Lautoka Mill (1900-2014)	25	126.7	18	221.4	57	3.4	47.7
Nadi Airport (1942-2014)	20	132.3	23	214	57	4.2	47.7
Yasawa-i-Rara (1950-2014)	21	125.1	26	227.0	53	3.4	48.3
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2014)	34	394.8	24	566.7	42	-3.1	20.0
Nausori Airport (1957-2014)	27	369.6	18	532.1	55	-1.3	47.4
Tokotoko (Navua) (1945-2014)	32	534.5	26	694.7	42	-2.3	29.7
<i>Eastern Division</i>							
Lakeba (1950-2014)	22	209.4	30	326.3	48	2.8	42.9
Vunisea (Kadavu) (1931- 2014)	16	273.0	61	381.8	23	-1.7	36.9
Ono-i-Lau (1943-2014)	27	251.9	38	347.3	35	-2.3	23.0
<i>Northern Division</i>							
Labasa Airport (1956- 2014)	15	116.1	40	203.5	45	3.4	33.3
Nabouwalu (1918-2014)	22	212.0	42	367.0	36	3.9	40.6
Rotuma (1912 -2014)	34	576.5	44	775.2	22	-2.1	34.4

Seasonal Climate Outlook:

July to September 2014- Median Table:

Predictors and Period used: SST 1 & 9 (March to May 2014)

Station	Below Median (prob)	Median rainfall (mm)	Above Median (prob)	LEPS	Hit-rate
<i>Western Division</i>					
Penang Mill (1910-2014)	45	198.0	55	-2.1	40.6
Lautoka Mill (1900-2014)	37	172.9	63	-1.1	52.3
Nadi Airport (1942-2014)	40	175.5	60	-1.0	52.3
Yasawa-i-Rara (1950-2014)	35	153.6	65	4.5	60.0
<i>Central Division</i>					
Laucala Bay (Suva) (1942-2014)	38	472.6	62	-1.4	49.2
Nausori Airport (1957-2014)	25	445.9	75	4.8	57.9
Tokotoko (Navua) (1945-2014)	44	629.3	56	-0.8	43.8
<i>Eastern Division</i>					
Lakeba (1950-2014)	43	249.4	57	-1.0	49.2
Vunisea (Kadavu) (1931-2014)	51	338.9	49	-2.3	40.0
Ono-i-Lau (1943-2014)	59	293.7	41	-2.5	47.5
<i>Northern Division</i>					
Labasa Airport (1956-2014)	31	160.3	69	3.3	49.1
Nabouwalu (1918-2014)	33	279.8	67	8.2	56.3
Rotuma (1912 -2014)	65	656.9	35	0.9	56.3

TABLE 4: Seasonal Climate Outlooks using POAMA2 for July to September 2014

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)
Nadi Airport	6	126.0	89	215.0	5
Suva	6	359.0	89	501.0	5
Udu Point	18	159.0	77	295.0	5
Rotuma	9	587.0	86	843.0	5

Summary Statements

Rainfall for May 2014:

Normal to above normal rainfall was recorded in the Central, Eastern and Northern Divisions with above normal rainfall received across the Western Division and at Rotuma.

Accumulated rainfall for March to May 2014, including outlook verification:

Normal to below normal rainfall was recorded in the Eastern and Northern Divisions, below normal across the Western Division, normal rainfall at Rotuma while rainfall varied from below normal to above normal in the Central Division.

Verification of SCOPIC Outlook for the March to May 2014 period: 46% (6/13) of the forecasts were inconsistent, 31% (4/13) consistent and 23% (3/13) near consistent.

Outlooks for July to September 2014:

1. SCOPIC:

The seasonal rainfall outlook for July to September 2014 shows:

- Above-normal is the most likely outcome across the Western and Central Divisions, at Lakeba in the Eastern Division and at Labasa Airport in the Northern Division;
- Normal is the most likely outcome for Nabouwalu, Vunisea, Ono-i-Lau and Rotuma; and
- Confidence in the outlook ranges from very low to low.

2. POAMA:

Normal rainfall favoured for all of 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: $X \geq 35$