

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 64

Country Name: Fiji

TABLE 1: Monthly Rainfall

Station (include data period)	December 2012						
	Oct 2012 Total	Nov 2012 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
<i>Western Division</i>							
Penang Mill (1910-2012)	147.4	59.6	457.9	140.2	263.3	208.6	88/100
Lautoka Mill (1900-2012)	91.9	38.2	252.8	107.8	209.2	150.7	89/113
Nadi Airport (1942-2012)	104.5	122.2	199.0	118.4	232.3	173.9	41/71
Yasawa-I-Rara (1950-2012)	169.3	170.1	Missing	98.2	175	136.2	Missing
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2012)	184.1	302.2	258.9	198.3	307.3	248.4	40/71
Nausori Airport (1957-2012)	297.3	201.2	325.9	211	298.8	237.2	41/57
Tokotoko (Navua) (1945-2012)	167.3	157.0	291.0	212.2	383.9	269.1	37/67
<i>Eastern Division</i>							
Lakeba (1950-2012)	75.8	101.2	199.2	133.7	208.8	168.2	40/64
Vunisea (Kadavu) (1931-2012)	126.5	103.9	219.4	100	167.8	132.4	57/77
Ono-I-Lau (1943-2012)	140.7	79.8	28.1	87.1	172.6	117.1	7/67
<i>Northern Division</i>							
Labasa Airfield (1956-2012)	151.0	157.2	163.6	146.8	287.1	210.7	24/57
Nabouwalu (1918-2012)	181.4	236.2	389.5	173	307.6	242	75/94
Rotuma (1912-2012)	193.1	352.9	232.6	239.1	375	307.8	29/99

**TABLE 2: Three-monthly Rainfall
October to December 2012**

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?)
<i>Western Division</i>							
Penang Mill (1910-2012)	664.9	344.6	568.6	461.0	78/98	41:35:24 (8.6)	Inconsistent
Lautoka Mill (1900-2012)	382.9	276.1	446.4	356.4	64/113	43:33:24 (11.8)	Near-consistent
Nadi Airport (1942-2012)	425.7	325.7	482.6	378.8	40/70	46:31:23 (13.4)	Near-consistent
Yasawa-I-Rara (1950-2012)	Missing	255.5	432.1	344.0	Missing	44:39:17 (16.0)	Missing
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2012)	745.2	538.7	830.4	687.4	38/71	43:31:26 (7.3)	Near-consistent
Nausori Airport (1957-2012)	824.4	537.7	812.5	679.1	38/56	40:31:29 (4.9)	Inconsistent
Tokotoko (Navua) (1945-2012)	615.3	760.7	1036.3	878.6	55/66	42:35:23 (9.6)	Consistent
<i>Eastern Division</i>							
Lakeba (1950-2012)	376.2	330.6	529.5	415.4	29/64	44:32:24 (13.3)	Near-consistent
Vunisea (Kadavu) (1931-2012)	449.8	303.7	500.1	409.0	42/77	42:35:23 (11.3)	Near-consistent
Ono-I-Lau (1943-2012)	248.6	220.1	406.3	357.3	27/67	48:32:20 (21.0)	Near-consistent
<i>Northern Division</i>							
Labasa Airfield (1956-2012)	471.8	362.9	617.4	483.8	25/54	42:38:20 (17.5)	Near-consistent
Nabouwalu (1918-2012)	807.1	445.1	673.1	545.0	70/94	48:36:16 (23.3)	Inconsistent
Rotuma (1912-2012)	778.6	853.2	1059.7	948.3	27/99	36:30:34 (-0.9)	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
February to April 2013**

Predictors and Period used: SOI (October to December 2012)

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 (1910-2012)	33	827.2	35	1095.6	32	7.9	45.1
Lautoka Mill (1900-2012)	31	685.3	36	916.0	33	10.2	48.2
Nadi Airport (1942-2012)	34	667.0	37	907.6	29	12.2	43.5
Yasawa-I-Rara (1950-2012)	32	582.8	34	831.8	34	11.5	49.2
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2012)	34	874.5	32	1059.6	34	-0.9	36.6
Nausori Airport (1957-2012)	33	891.2	34	1046.4	33	0.9	55.4
Tokotoko (Navua) (1945-2012)	34	1002.0	32	1206.6	34	0.5	38.2
<i>Eastern Division</i>							
Lakeba (1950-2012)	33	643.9	36	821.9	31	10.3	50
Vunisea (Kadavu) (1931-2012)	34	634.5	35	829.6	31	3	43.4
Ono-I-Lau (1943-2012)	32	472.7	35	689.1	33	8.3	41.3
<i>Northern Division</i>							
Labasa Airfield (1956-2012)	33	815.9	35	1123.3	32	6.1	47.4
Nabouwalu (1918- 2012)	34	775.3	34	1025.8	32	3.7	37.9
Rotuma (1912 -2012)	33	895.8	34	1080.4	33	0.9	32.3

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for
February to April 2013**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)
Nadi Airport	43	657.0	27	856.0	30
Rotuma	33	845.0	33	1046.0	34

Summary Statements

Rainfall for December 2012:

Generally *normal* to *above normal* rainfall was recorded during the month. The exception to this was Lakeba and Rotuma, where *below normal* rainfall was recorded.

Accumulated rainfall for October–December 2012, including outlook verification:

Penang in the Western Division, Nausori in the Central Division and Nabouwalu in the Northern Division recorded *above normal* rainfall, while Navua in the Central Division and Rotuma recorded *below normal* rainfall. The rest of the stations recorded *normal* rainfall.

58% (7/12) of the forecasts for the October to December 2012 period were near-consistent, 25% (3/12) were inconsistent and 17% (2/12) were consistent.

Outlooks for February - April 2013:

1. SCOPIC:

Climatological rainfall is favoured across Fiji over the February to April 2013 period.

2. POAMA:

Below normal rainfall is favoured at Nadi Airport, while climatological rainfall is favoured at Rotuma.

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: $X \geq 35$