

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 65

Country Name: Fiji

TABLE 1: Monthly Rainfall

Station (include data period)			January 2013				
	Nov 2012 Total	Dec 2012 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
<i>Western Division</i>							
Penang Mill (1910-2012)	59.6	457.9	311.4	231.4	446.8	300.9	55/10
Lautoka Mill (1900-2012)	38.2	252.8	159.8	173.1	373.9	259.2	33/11
Nadi Airport (1942-2012)	122.2	199.0	87.9	221.5	362.1	295.1	6/72
Yasawa-I-Rara (1950-2012)	170.1	Missing	70.1	130.6	299.3	218.4	10/62
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2012)	302.2	258.9	200.2	253.1	382.6	319.9	17/72
Nausori Airport (1957-2012)	201.2	325.9	347.6	253.1	407.5	325.5	33/57
Tokotoko (Navua) (1945-2012)	157.0	291.0	354.2	272.4	412.5	341.8	36/69
<i>Eastern Division</i>							
Lakeba (1950-2012)	101.2	199.2	123.0	183.3	309.1	250.2	10/64
Vunisea (Kadavu) (1931-2012)	103.9	219.4	118.6	171.5	280.2	228.6	14/77
Ono-I-Lau (1943-2012)	79.8	28.1	99.0	128.1	226.4	186.6	16/67
<i>Northern Division</i>							
Labasa Airfield (1956-2012)	157.2	163.6	174.1	254.7	485.6	409.0	11/57
Nabouwalu (1918-2012)	236.2	389.5	223.4	259.6	404.7	333.0	28/90
Rotuma (1912-2012)	352.9	232.6	470.9	287.0	410.4	336.7	83/10

**TABLE 2: Three-monthly Rainfall
November 2012 to January 2013**

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 (1910-2012)	828.9	561.7	823.0	682.0	67/98	34/ 36 /30 (12.5)	Near-consistent
Lautoka Mill (1900-2012)	450.8	417.0	694.2	562.1	40/113	35/ 42 /23 (26.2)	Consistent
Nadi Airport (1942-2012)	409.1	429.8	750.3	661.6	20/70	33/ 41 /26 (27.0)	Near-consistent
Yasawa-I-Rara (1950-2012)	Missing	389.2	634.4	506.0	43/60	34/ 41 /25 (26.3)	Unverified
Central Division							
Laulala Bay (Suva) (1942-2012)	761.3	681.2	1041.5	849.8	31/71	35/35 /30 (1.1)	Near Consistent
Nausori Airport (1957-2012)	874.7	743.0	1005.4	846.4	32/57	35/ 36 /29 (10.0)	Consistent
Tokotoko (Navua) (1945-2012)	802.2	867.0	1134.9	933.5	18/67	34/32/34 (2.5)	Near Consistent
Eastern Division							
Lakeba (1950-2012)	423.4	464.7	675.5	586.5	16/64	35/ 39 /26 (18.8)	Near-consistent
Vunisea (Kadavu) (1931-2012)	441.9	435.0	634.5	526.2	26/76	34/ 36 /30 (10.0)	Consistent
Ono-I-Lau (1943-2012)	206.9	362.2	515.2	448.8	13/65	33/ 40 /27 (21.2)	Near-consistent
Northern Division							
Labasa Airfield (1956-2012)	494.9	573.9	958.9	681.3	12/53	36/ 42 /22 (25.1)	Near-consistent
Nabouwalu (1918-2012)	849.1	648.6	890.7	759.0	61/94	34/ 40 /26 (23.4)	Consistent
Rotuma (1912-2012)	1056.4	897.0	1079.0	984.4	60/98	34/32/34 (2.6)	Near 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
March to May 2013**

Predictors and Period used: SOI (November 2012 to January 2013)

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)	35	596.4	33	914.9	32	3.2	39.2
Lautoka Mill (1900-2012)	35	480.8	32	679.3	33	8.6	48.2
Nadi Airport (1942-2012)	36	509.2	35	675.9	29	10.4	43.5
Yasawa-I-Rara (1950-2012)	35	479.1	35	642.9	30	4.8	36.7
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2012)	34	828.5	33	1054.3	33	-1.2	25.4
Nausori Airport (1957-2012)	34	835.9	33	1059.9	33	-1.7	35.7
Tokotoko (Navua) (1945-2012)	35	952.4	31	1203.4	34	-0.7	39.7
<i>Eastern Division</i>							
Lakeba (1950-2012)	35	545.9	34	721.6	31	6.4	43.5
Vunisea (Kadavu) (1931-2012)	35	613.3	31	761.2	34	4.4	47.4
Ono-I-Lau (1943-2012)	34	454.7	35	646.8	31	7.3	41.3
<i>Northern Division</i>							
Labasa Airfield (1956-2012)	35	566.2	33	846.0	32	3.2	28.1
Nabouwalu (1918- 2012)	36	668.0	33	905.1	31	5.2	36.8
Rotuma (1912 -2012)	34	819.5	31	1041.4	35	-0.6	40.8

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for
March to May 2013**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)
Nadi Airport	27	469	53	647	20
Rotuma	20	836	43	1043	37

Summary Statements

Rainfall for January 2013:

Generally *below normal* rainfall was recorded during the month. *Normal* rainfall was recorded at Penang Mill, Nausori Airport and Tokotoko Navua while *above normal* rainfall was recorded at Rotuma. Rest of the sites recorded *below normal rainfall*.

Accumulated rainfall for November 2012–January 2013, including outlook verification:

Rainfall during November 2012 to January 2013 period generally ranged from *below normal to normal*. Penang was the lone site that managed to record *above normal* rainfall.

54% (7/13) of the forecasts for the November 2012 to January 2013 period were Consistent, 39% (5/13) were Near Consistent and 7% (1/13) was unverified due to missing data at Yasawa. There was no Inconsistent forecast.

Outlooks for March - May 2013:

1. SCOPIC:

Climatological rainfall is favoured across Fiji over the March to May 2013 period.

2. POAMA:

Normal rainfall is favoured at Nadi Airport and 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: $X \geq 35$