

Pacific Islands - Online Climate Outlook Forum (OCOF) No.76

Country Name: Fiji

TABLE 1: Monthly Rainfall

Station (include data period)			December 2013				
	October 2013 Total	November 2013 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Western Division							
Penang Mill (1910-2013)	124.9	89.5	253.4	140.4	274.0	210.3	64/101
Lautoka Mill (1900-2013)	62.2	290.4	429.6	108.0	210.0	150.7	108/114
Nadi Airport (1942-2013)	118.7	239.2	257.6	118.6	229.8	176.1	51/72
Yasawa-I-Rara (1950-2013)	177.2	89.2	247.6	99.4	180.2	140.7	52/61
Central Division							
Laucala Bay (Suva) (1942-2013)	240.3	155.3	451.9	201.7	307.3	251.3	64/72
Nausori Airport (1957-2013)	290.2	112.3	312.9	212.4	305.3	238.4	40/58
Tokotoko (Navua) (1945-2013)	362.9	135.9	382.1	210.0	383.4	269.6	45/68
Eastern Division							
Lakeba (1950-2013)	145.6	100.9	221.8	135.6	208.2	168.4	45/65
Vunisea (Kadavu) (1931-2013)	Missing	263.5	323.9	102.0	173.2	138.7	71/78
Ono-I-Lau (1943-2013)	35.8	104.1	393.9	82.4	172.4	116.4	66/68
Northern Division							
Labasa Airfield (1956-2013)	90.9	266.8	211.0	148.9	284.2	215.6	29/58
Nabouwalu (1918-2013)	197.5	233.7	347.6	173.2	308.7	242.2	71/95
Rotuma (1912-2013)	Missing	223.5	403.2	240.9	373.8	307.4	73/100

Period: *below normal/normal/above normal

**TABLE 2: Three-monthly Rainfall
October to December 2013
Predictors and Period used: SOI (June to August)**

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 (1910-2013)	467.8	347.6	570.9	461.0	52/99	23: 33: 44 (7.0)	Near-consistent
Lautoka Mill (1900-2013)	782.2	277.0	443.9	358.0	106/114	19: 36: 45 (11.8)	Consistent
Nadi Airport (1942-2013)	615.5	325.7	477.9	380.1	61/71	16: 37: 47 (13.3)	Consistent
Yasawa-I-Rara (1950-2013)	514.0	261.6	433.6	352.5	48/61	20: 30: 50 (14.7)	Consistent
Central Division							
Laucala Bay (Suva) (1942-2013)	847.5	539.0	828.2	691.2	51/72	22: 34: 44 (6.5)	Consistent
Nausori Airport (1957-2013)	715.4	541.0	809.8	679.6	31/57	20: 37: 43 (5.3)	Near-consistent
Tokotoko (Navua) (1945-2013)	880.9	749.1	1024.9	873.2	35/68	21: 32: 47 (10.0)	Near-consistent
Eastern Division							
Lakeba (1950-2013)	468.3	334.4	527.0	409.1	38/65	15: 38: 47 (13.8)	Near-consistent
Vunisea (Kadavu) (1931-2013)	Missing	306.9	502.8	409.0	-	19: 35: 46 (10.1)	-
Ono-I-Lau (1943-2013)	533.8	225.1	401.0	348.3	56/68	10: 39: 51 (20.9)	Consistent
Northern Division							
Labasa Airfield (1956-2013)	568.7	364.0	632.3	485.4	35/55	15: 31: 54 (15.1)	Near-Consistent
Nabouwalu (1918-2013)	778.8	445.2	700.0	546.0	68/95	11: 33: 56 (22.6)	Consistent
Rotuma (1912-2013)	Missing	837.4	1057.0	946.7	-	30: 38 : 32 (-0.8)	-

* 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 2014**

Predictors and Period used: SOI (October to December 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 (1910-2013)	28	827.4	36	1102.7	36	7.7	43.7
Lautoka Mill (1900-2013)	26	694.5	37	926.3	37	9.9	46.9
Nadi Airport (1942-2013)	29	671.0	36	910.1	35	11	42.9
Yasawa-I-Rara (1950-2013)	26	584.9	37	837.2	37	9.5	40.3
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2013)	34	879.2	34	1078.7	32	-1	34.7
Nausori Airport (1957-2013)	35	892.5	34	1057.8	31	1.3	52.6
Tokotoko (Navua) (1945-2013)	34	1004.6	34	1210.9	32	-0.2	26.1
<i>Eastern Division</i>							
Lakeba (1950-2013)	28	646.6	36	827.6	36	10.5	50.8
Vunisea (Kadavu) (1931-2013)	32	637.5	33	828.3	35	3.1	44.2
Ono-I-Lau (1943-2013)	27	474.0	36	698.4	37	7.8	42.2
<i>Northern Division</i>							
Labasa Airfield (1956- 2013)	30	833.3	35	1121.9	35	5.8	48.3
Nabouwalu (1918-2013)	32	775.4	33	1033.5	35	3.8	39.6
Rotuma (1912 -2013)	31	896.2	34	1079	35	0.9	33

Seasonal Climate Outlook:**February to April 2014 - Median Table:****Predictors and Period used: SOI (October to December 2013)**

Station	Below Median (prob)	Median rainfall (mm)	Above Median (prob)	LEPS	Hit-rate
<i>Western Division</i>					
Penang Mill (1910-2013)	46	997	54	9	60.2
Lautoka Mill (1900-2013)	46	809.4	54	10.5	61.9
Nadi Airport (1942-2013)	47	797.2	53	7.1	61.4
Yasawa-I-Rara (1950-2013)	47	663.4	53	6.9	61.3
<i>Central Division</i>					
Laucala Bay (Suva) (1942-2013)	51	945.9	49	-0.5	50
Nausori Airport(1957-2013)	51	960.5	49	-0.4	64.9
Tokotoko (Navua) (1945-2013)	52	1111.2	48	1.1	53.6
<i>Eastern Division</i>					
Lakeba (1950-2013)	47	699.4	53	4.8	60.3
Vunisea (Kadavu) (1931-2013)	48	734.5	52	1.5	58.4
Ono-I-Lau (1943-2013)	45	585	55	10.4	64.1
<i>Northern Division</i>					
Labasa Airfield (1956-2013)	47	1022.4	53	4.5	65.5
Nabouwalu (1918-2013)	47	880.1	53	6	64.6
Rotuma (1912 -2013)	48	1004.8	52	1.6	56

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for
January to March 2014**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)
Nadi Airport	27	657	52	856	21
Suva	27	852	52	983	21
Udu Point	30	709	58	928	12
Rotuma	46	845	33	1046	21

Summary Statements

Rainfall for December 2013:

Rainfall during December 2013 was *normal to above normal* over the Fiji Group. The total monthly rainfall at Ono-i-Lau ranked third highest in the historical record of the station.

Accumulated rainfall for October to December 2013, including outlook verification:

Rainfall during the last three months was also *normal to above normal* across the country.

The SCOPIC forecasts for the October to December 2013 period were consistent at the 6 stations, near-consistent at 5 and 2 forecasts couldn't be verified due to missing data.

Outlooks for January to March 2014:

1. SCOPIC:

Generally, *normal to above normal* rainfall is favoured over the Fiji Group during February to April 2014 period. The exception to this is the Central Division, where the model is biased towards *normal to below normal* rainfall.

POAMA:

Normal rainfall is favoured at Nadi, Suva and Udu Point, while *below normal* rainfall is favoured for 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: $X \geq 35$