

Pacific Islands - Online Climate Outlook Forum No 66

Country: Fiji

Table 1: Monthly Rainfall

Station (data period)			February 2013				
	Dec. 2012 Total	Jan. 2013 Total	Total	33%ile Rainfall (mm)	67%ile Rainfall (mm)	Median Rainfall (mm)	Ranking
<i>Western Division</i>							
Penang Mill (1910-2013)	430.4	311.4	462.4	274.6	395.7	340.3	85/104
Lautoka Mill (1900-2013)	232.2	116.3	531.2	216.8	367.3	272.3	101/113
Nadi Airport (1942-2013)	199.0	87.9	459.8	217.3	336.6	273.5	59/71
Yasawa-I-Rara (1950-2013)	230.6	70.1	340.7	174.8	292.0	222.0	48/63
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2013)	288.7	188.5	434.5	240.0	329.6	287.7	67/72
Nausori Airport (1957-2013)	326.0	347.7	588.1	209.1	313.6	279.9	57/57
Tokotoko (Navua) (1945-2013)	291.0	354.2	347.6	264.6	362.9	295.3	45/69
<i>Eastern Division</i>							
Lakeba (1950-2013)	202.0	123.0	340.9	149.4	271.3	190.0	51/64
Vunisea (Kadavu) (1931-2013)	269.2	118.6	276.9	151.6	257.5	209.0	58/78
Ono-I-Lau (1943-2013)	28.1	99.0	195.4	122.3	209.9	173.1	42/67
<i>Northern Division</i>							
Labasa Airfield (1956-2013)	273.7	172.0	217.4	246.3	459.6	369.3	15/58
Nabouwalu (1918-2013)	399.5	224.2	304.4	250.5	341.9	301.6	49/96
Rotuma (1912-2013)	258.7	470.9	203.8	288.5	380.0	323.0	15/101

Below Normal Rainfall

Normal Rainfall

Above Normal Rainfall

Table 2: Three-monthly Rainfall**December 2012 to February 2013****Predictor: SOI (Aug. – Oct. 2012)**

Station	Three-month Total	33%ile Rainfall (mm)	67%ile Rainfall (mm)	Median Rainfall (mm)	Ranking	Forecasted probs.* (include LEPS)	Verification ¹ (Consistent, Near-consistent, Inconsistent ?)
Western Division							
Penang Mill (1910-2013)	1204.2	770.4	1067.6	868.7	78/100	32:40:28 (20.3)	Near consistent
Lautoka Mill (1900-2013)	879.7	604.6	928.8	766.3	69/113	31:39:30 (23.0)	Consistent
Nadi Airport (1942-2013)	746.7	607.0	913.0	839.9	31/70	30:39:31 (17.0)	Consistent
Yasawa-I-Rara (1950-2013)	641.4	485.0	791.0	665.0	30/60	30:45:25 (34.9)	Consistent
Central Division							
Laucala Bay (Suva) (1942-2013)	911.7	776.0	1010.5	847.4	40/71	34:34:32 (-0.3)	Near Consistent
Nausori Airport (1957-2013)	1261.8	770.0	978.0	811.8	54/57	33:33:34 (-2.0)	Consistent
Tokotoko (Navua) (1945-2013)	992.8	882.1	1119.0	990.5	35/67	33:33:34 (-1.6)	Near Consistent
Eastern Division							
Lakeba (1950-2013)	665.9	575.8	750.9	645.3	33/64	31:42:27 (28.5)	Consistent
Vunisea (Kadavu) (1931-2013)	664.7	495.5	716.4	600.8	48/76	31:35:34 (7.3)	Consistent
Ono-I-Lau (1943-2013)	322.5	439.1	589.0	523.5	12/65	30:35:35 (8.0)	In Consistent
Northern Division							
Labasa Airfield (1956-2013)	663.1	813.5	1135.3	936.8	14/56	31:42:27 (27.8)	Near consistent
Nabouwalu (1918-2013)	928.1	751.8	1023.7	870.0	52/94	31:39:30 (20.5)	Consistent
Rotuma (1912-2013)	933.4	899.6	1099.1	996.9	38/98	33:36:31 (10.2)	Consistent

Below Normal Rainfall**Normal Rainfall****Above Normal Rainfall**

*below normal/normal/above normal

¹Forecast 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 for April to June 2013

Predictors used: SST 1 & 9 (Dec. 2012 to Feb. 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)	32	349.3	30	534.6	38	1.3	32.3
Lautoka Mill (1900-2013)	33	263.2	39	389.0	28	12.5	42.9
Nadi Airport (1942-2013)	26	260.1	35	377.3	39	16.0	47.6
Yasawa-I-Rara (1950-2013)	31	283.4	29	437.9	40	13.7	48.3
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2013)	33	684.0	35	849.4	32	7.3	41.3
Nausori Airport (1957-2013)	27	647.5	39	799.5	34	12.7	50.0
Tokotoko (Navua) (1945-2013)	35	764.2	35	1001.4	30	5.3	39.7
<i>Eastern Division</i>							
Lakeba (1950-2013)	16	357.3	40	516.0	44	17.2	50.0
Vunisea (Kadavu) (1931-2013)	32	464.0	34	614.4	34	5.7	41.3
Ono-I-Lau (1943-2013)	40	314.5	27	468.3	33	8.8	44.8
<i>Northern Division</i>							
Labasa Airfield (1956-2013)	27	350.8	36	448.6	37	4.1	41.1
Nabouwalu (1918-2013)	33	483.7	35	661.5	32	14.1	44.4
Rotuma (1912 -2013)	29	744.0	39	925.6	32	-2.1	37.1

Table 4: Seasonal Climate Outlooks using POAMA 2 for April to June 2013

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)
Nadi	33	250	40	385	27
Rotuma	37	761	26	973	37

Summary Statement:

February 2013 rainfall:

Rainfall during February was *above normal* over a number of places, with Western Division and parts of the Central and Eastern Divisions recording *above normal* rainfall. The exception to this was Labasa Airfield, Ono-i-Lau and Rotuma, where *below normal* rainfall was recorded, with Tokotoko (Navua) and Nabouwalu recording *normal* rainfall.

A new high total monthly rainfall record was established at Nausori Airport during the month.

December 2012 to February 2013 rainfall: (Include a summary statement on verification)

Rainfall over the last three months was *normal* over most of the places. The exceptions to this were Penang Mill and Nausori Airport, where *above normal* rainfall was received, while Labasa Airfield and Ono-i-Lau recorded *below normal* rainfall.

The total three months rainfall at Nausori Airport ranked fourth highest in the historical record.

The SCOPIC forecasts for December 2012 to February 2013 period were consistent at 11 out of the 13 stations, while 2 stations recorded near-consistent forecast.

Outlook for April to June 2013:

The SCOPIC model generally favours climatological rainfall over the Central, Northern and Eastern Divisions, while *normal to above normal* rainfall is predicted for the Western Division. The model is biased towards *normal* rainfall at Rotuma. The forecast skill generally ranges from *moderate* to *good*, with *very low* skill at Rotuma.

The POAMA model outlook favours for *normal* rainfall at Nadi Airport, while climatological rainfall is expected 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: $X \geq 35$