

Pacific Islands - Online Climate Outlook Forum No 69

Country: Fiji

Table 1: Monthly Rainfall

Station (data period)			May 2013				
	Mar. 2013 Total	Apr. 2013 Total	Total	33%ile Rainfall (mm)	67%ile Rainfall (mm)	Median Rainfall (mm)	Ranking
<i>Western Division</i>							
Penang Mill (1910-2013)	414.2	289.6	129.5	65.4	164.8	100.7	66/104
Lautoka Mill (1900-2013)	488.9	126.5	197.2	45.3	114.6	77.7	66/104
Nadi Airport (1942-2013)	341.7	104.1	116.5	42.7	97.9	75.6	51/71
Yasawa-I-Rara (1950-2013)	530.1	107.5	160.4	43.3	110.6	86.0	50/61
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2013)	444.4	234.3	143.7	176.3	258.7	199.6	14/72
Nausori Airport (1957-2013)	402.6	232.4	132.2	160.8	266.5	198.3	11/57
Tokotoko (Navua) (1945-2013)	427.6	354.7	114.9	184.6	354.3	256.9	8/69
<i>Eastern Division</i>							
Lakeba (1950-2013)	503.0	109.4	49.8	83.8	174.7	112.4	9/64
Vunisea (Kadavu) (1931-2013)	Missing	Missing	Missing				
Ono-I-Lau (1943-2013)	363.3	181.3	82.1	59.6	144.6	85.6	33/66
<i>Northern Division</i>							
Labasa Airfield (1956-2013)	714.4	23.4	70.9	54.9	121.2	85.5	25/58
Nabouwalu (1918-2013)	560.5	208.4	177.8	117.8	207.3	172.0	52/96
Rotuma (1912-2013)	629.6	226.2	342.2	230.2	339.3	281.0	68/100

Below Normal Rainfall

Normal Rainfall

Above Normal Rainfall

**Table 2: Three-monthly Rainfall
Mar. to May 2013
Predictor: SOI (Nov. 2012 to Jan. 2013)**

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)	833.3	596.4	914.9	694.4	64/103	35:33:32 (3.2)	Near Consistent
Lautoka Mill (1900-2013)	812.6	480.8	679.3	573.6	90/113	35:32:33 (8.6)	In Consistent
Nadi Airport (1942-2013)	562.3	509.2	675.9	585.2	32/70	36:35:29 (10.4)	Near Consistent
Yasawa-I-Rara (1950-2013)	798.0	479.1	642.9	545.2	53/61	35:35:30 (4.8)	Near Consistent
Central Division							
Laucala Bay (Suva) (1942-2013)	822.4	828.5	1054.3	912.7	25/72	34:33:33 (-1.2)	Near Consistent
Nausori Airport (1957-2013)	767.2	835.9	1059.9	922.3	11/57	34:33:33 (-1.7)	Near Consistent
Tokotoko (Navua) (1945-2013)	897.2	952.4	1203.4	1063.7	19/69	35:31:34 (-0.7)	Consistent
Eastern Division							
Lakeba (1950-2013)	662.2	545.9	721.6	636.7	34/63	35:34:31 (6.4)	Near consistent
Vunisea (Kadavu) (1931-2013)		613.3	761.2	697.4		35:31:34 (4.4)	
Ono-I-Lau (1943-2013)	626.7	454.7	646.8	512.5	41/64	34: 35 :31 (7.3)	Consistent
Northern Division							
Labasa Airfield (1956-2013)	808.7	566.2	846.0	722.3	37/58	35:33:32 (3.2)	Near consistent
Nabouwalu (1918-2013)	946.7	668.0	905.1	758.5	69/96	36:33:31 (5.2)	In Consistent
Rotuma (1912-2013)	1198.0	819.5	1041.4	957.3	86/99	34:31: 35 (-0.6)	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 July to September 2013

Predictors used: SST 1 & 9 (Mar to May 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)	29	155.7	34	235.2	37	1.1	25.4
Lautoka Mill (1900-2013)	25	131.8	26	221.9	49	5.8	53.1
Nadi Airport (1942-2013)	26	131.6	26	216.0	48	4.2	48.4
Yasawa-I-Rara (1950-2013)	27	123.3	28	216.3	45	2.9	44.1
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2013)	34	389.5	28	564.5	38	-3.3	17.2
Nausori Airport(1957-2013)	32	366.9	25	531.5	43	-2.3	33.9
Tokotoko (Navua) (1945-2013)	35	532.1	28	684.3	37	-2.3	28.6
<i>Eastern Division</i>							
Lakeba (1950-2013)	28	206.2	31	318.7	41	1.8	41.9
Vunisea (Kadavu) (1931-2013)	26	272.9	46	381.7	28	-1.8	40.6
Ono-I-Lau (1943-2013)	29	252.4	36	348.0	35	-2.4	26.7
<i>Northern Division</i>							
Labasa Airfield (1956-2013)	23	113.4	40	196.8	37	2.8	33.9
Nabouwalu (1918-2013)	27	212.0	39	367.0	34	3.9	40.6
Rotuma (1912 -2013)	34	576.5	39	775.2	27	-2.1	34.4

Table 4: Seasonal Climate Outlooks using POAMA 2 for July to September 2013

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)
Nadi	5	142	8	198	87
Rotuma	5	573	32	784	63

Summary Statement:

May 2013 rainfall:

Rainfall varied over the Fiji Group during May, with *below normal* rainfall recorded across the Central Division and at Lakeba in the Eastern Division, *normal* rainfall across the Northern Division and at Ono-I-Lau in the Eastern Division, while *above normal* rainfall was received at majority of the stations in the Western Division and at Rotuma.

March to May 2013 rainfall: (Include a summary statement on verification)

Similarly, rainfall was variable over the country during March to May 2013 period, with below normal rainfall recorded across the Central Division, normal rainfall over the Eastern Division and at Penang Mill and Nadi Airport in the Western Division, while above normal rainfall was received at Lautoka Mill and Yasawa-I-Rara in the Western Division, Nabouwalu in the Northern Division and at Rotuma.

Outlook for July to September 2013:

The SCOPIC Model favours for *above normal* rainfall at the stations in the Western Division, Central Division and at Lakeba in the Eastern Division. The Model is biased towards *normal* rainfall at Vunisea and Ono-I-Lau (Eastern Division), as well as over the Northern Division.

The POAMA model outlook favours for *above normal* rainfall 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: $X \geq 35$