

Pacific Islands - Online Climate Outlook Forum No 68

Country: Fiji

Table 1: Monthly Rainfall

Station (data period)			April 2013				
	Feb. 2013 Total	Mar. 2013 Total	Total	33%ile Rainfall (mm)	67%ile Rainfall (mm)	Median Rainfall (mm)	Ranking
<i>Western Division</i>							
Penang Mill (1910-2013)	462.4	394.0	320.1	174.5	267.3	205.2	80/103
Lautoka Mill (1900-2013)	531.2	482.9	162.8	113.4	204.7	147.1	62/114
Nadi Airport (1942-2013)	459.8	341.7	104.2	118.6	208.3	157.1	19/71
Yasawa-I-Rara (1950-2013)	340.7	530.1	107.5	111.7	214.3	155.3	17/62
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2013)	434.5	444.4	236.7	283.6	393.9	329.6	16/72
Nausori Airport (1957-2013)	588.1	402.6	232.4	270.6	393.4	331.9	15/57
Tokotoko (Navua) (1945-2013)	347.6	436.6	396.9	305.7	456.9	350.9	41/69
<i>Eastern Division</i>							
Lakeba (1950-2013)	340.9	503.3	109.4	133.5	225.5	178.0	14/63
Vunisea (Kadavu) (1931-2013)	MISSING OBSERVATIONS						
Ono-I-Lau (1943-2013)	195.4	363.3	181.3	107.2	217.3	170.8	35/66
<i>Northern Division</i>							
Labasa Airfield (1956-2013)	217.4	714.4	23.4	176.3	287.1	246.6	2/58
Nabouwalu (1918-2013)	304.4	560.5	208.4	204.2	330.9	245.6	35/96
Rotuma (1912-2013)	203.8	629.6	226.2	213.0	307.2	257.1	39/101

Below Normal Rainfall

Normal Rainfall

Above Normal Rainfall

Table 2: Three-monthly Rainfall
Feb to April 2013
Predictor: SOI(October to December 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)	1176.5	827.2	1095.6	992.8	77/103	33:35:32	Near consistent
Lautoka Mill (1900-2013)	1176.9	685.3	916.0	809.0	101/113	31:36:33	Near consistent
Nadi Airport (1942-2013)	905.7	667.0	907.6	792.5	48/70	34:37:29	Consistent
Yasawa-I-Rara (1950-2013)	978.3	582.8	831.8	662.7	52/62	32:34:34	Near Consistent
Central Division							
Laucala Bay (Suva) (1942-2013)	1115.6	874.5	1059.6	944.8	49/72	34:32:34	Near Consistent
Nausori Airport (1957-2013)	1223.1	891.2	1046.4	960.1	48/57	33:34:33	Near consistent
Tokotoko (Navua) (1945-2013)	1181.1	1002.0	1206.6	1106.5	43/69	34:32:34	Near consistent
Eastern Division							
Lakeba (1950-2013)	953.6	643.9	821.9	698.9	52/63	33:36:31	Near consistent
Vunisea (Kadavu) (1931-2013)	MISSING APRIL OBSERVATIONS						
Ono-I-Lau (1943-2013)	740.0	472.7	689.1	580.9	46/64	32:35:33	Near consistent
Northern Division							
Labasa Airfield (1956-2013)	955.2	815.9	1123.3	1025.6	26/58	33:35:32	Consistent
Nabouwalu (1918-2013)	1073.3	775.3	1025.8	879.2	70/96	34:34:32	Near Consistent
Rotuma (1912-2013)	1059.6	895.8	1080.4	1001.0	59/100	33:34:33	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 June to August 2013

Predictors used: SST 1 & 9 (Feb to April, 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)	35	160.0	25	226.4	40	1	39.1
Lautoka Mill (1900-2013)	25	121.2	28	223.8	47	9.3	45.3
Nadi Airport (1942-2013)	24	124.6	34	208.8	42	8.3	39.1
Yasawa-I-Rara (1950-2013)	31	132.2	31	246.4	38	7.6	37.3
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2013)	37	366.9	26	506.5	37	2.4	37.5
Nausori Airport (1957-2013)	35	350.3	27	495.5	38	7.7	50
Tokotoko (Navua) (1945-2013)	33	500.3	33	679.0	34	4.3	44.4
<i>Eastern Division</i>							
Lakeba (1950-2013)	29	196.8	34	304.0	37	12	43.5
Vunisea (Kadavu) (1931-2013)	31	255	36	398.0	33	2.1	35.9
Ono-I-Lau (1943-2013)	38	254.8	26	347.4	36	-0.7	31.7
<i>Northern Division</i>							
Labasa Airfield (1956-2013)	25	116.0	28	184.2	47	11	37.5
Nabouwalu (1918-2013)	26	231.9	38	336.9	36	15.8	43.8
Rotuma (1912 -2013)	28	589.6	41	784.5	31	1.8	44.4

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

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)
Nadi					
Rotuma					

Summary Statement:

April 2013 rainfall:

Lautoka Mill in the Western Division, Navua in the Central Division, Ono in the Eastern Division and Nabouwalu in the Northern Division recorded *normal* rainfall, while the rest of the stations recorded *below normal* rainfall.

Labasa Airfield recorded its second lowest ever April rainfall.

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

Navua in the Central Division, Nadi in the Western Division, Labasa in the Northern Division and Rotuma recorded *normal* rainfall during the 3 month period, while the rest of the stations received *above normal* rainfall.

75% of the stations recorded near consistent forecasts, with 25% recording consistent forecasts.

Outlook for June to August 2013:

The SCOPIC model generally favours;

Western Division: *Above normal* is favoured

Central Division: *Climatology* forecast for Suva and Navua, and *Above normal* for Nausori Airport

Eastern Division: *Below normal* favoured for Ono-I-Lau, *normal* for Vunisea, and *Above normal* for Lakeba

Northern Division: *Normal* in Nabouwalu and *above normal* in Labasa Airfield is favoured

Rotuma: *Normal* rainfall likely.

The POAMA model outlook – cannot access this model.

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: $X \geq 35$