

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 70

Country Name: FIJI

TABLE 1: Monthly Rainfall

Station (data period)			JUNE 2013				
	APR 2012 Total	MAY 2013 Total	Total	33%ile Rainfall (mm)	67%ile Rainfall (mm)	Median Rainfall (mm)	Ranking
<i>Western Division</i>							
Penang Mill (1910-2013)	289.6	129.5	103.0	39.6	96	58.6	74/104
Lautoka Mill (1900-2013)	126.5	197.2	138.6	30.4	77.1	46.9	100/114
Nadi Airport (1942-2013)	104.1	116.5	124.9	27.3	72.9	52.9	62/72
Yasawa-I-Rara (1950-2013)	107.5	160.4	43.0	41.3	132.4	72.6	21/61
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2013)	234.3	143.7	141.2	110.8	221.8	141.1	37/72
Nausori Airport (1957-2013)	232.4	132.2	219.7	94.4	198.3	144.1	41/57
Tokotoko (Navua) (1945-2013)	354.7	114.9	361.7	133.2	251.9	186	60/69
<i>Eastern Division</i>							
Lakeba (1950-2013)	109.4	49.8	78.8	50.5	137.7	97.5	30/64
Vunisea (Kadavu) (1931-2013)	MISSING		123.8	73.7	141.8	114.2	43/78
Ono-I-Lau (1943-2013)	181.3	82.1	78.0	59.9	114.3	79.3	32/66
<i>Northern Division</i>							
Labasa Airfield (1956-2013)	23.4	70.9	82.4	32.5	86.7	51.8	38/57
Nabouwalu (1918-2013)	208.4	177.8	153.9	60	144.6	102.1	66/95
Rotuma (1912-2013)	226.2	342.2	208.2	196.7	294.3	246.9	38/100

April to June 2013
Predictor: SST 1 & 9 (December 2012 to February 2013)

Station	Three-month Total	33%ile Rainfall (mm)	67%ile Rainfall (mm)	Median Rainfall (mm)	Ranking	Forecasted probs.* (include LEPS)	Verification* (Consistent, Near-consistent, Inconsistent ?)
Western Division							
Penang Mill (1910-2013)	522.1	349.3	534.6	422.6	68/103	32:30:38 (1.3)	Near-consistent
Lautoka Mill (1900-2013)	462.3	263.2	389.0	321.8	89/114	33:39:28 (12.5)	Near-consistent
Nadi Airport (1942-2013)	345.5	260.1	377.3	314.4	41/71	26:35:39 (16.0)	Near-consistent
Yasawa-I-Rara (1950-2013)	310.9	283.4	437.9	363.1	27/61	31:29:40 (13.7)	Near-consistent
Central Division							
Laucala Bay (Suva) (1942-2013)	519.2	684.0	849.4	737.7	8/72	33:35:32 (7.3)	Near-consistent
Nausori Airport (1957-2013)	584.3	647.5	799.5	716.8	12/57	27:39:34 (12.7)	Near-consistent
Tokotoko (Navua) (1945-2013)	831.3	764.2	1001.4	879.9	28/69	35:35:30 (5.3)	Near-consistent
Eastern Division							
Lakeba (1950-2013)	238.0	357.3	516.0	428.1	11/63	16:40:44 (17.2)	Inconsistent
Vunisea (Kadavu) (1931-2013)	MISSING APRIL & MAY OBSERVATIONS						
Ono-I-Lau (1943-2013)	341.4	314.5	468.3	419.8	24/63	40:27:33 (8.8)	Near-consistent
Northern Division							
Labasa Airfield (1956-2013)	176.7	350.8	448.6	411.0	6/57	27:36:37 (4.1)	Inconsistent
Nabouwalu (1918-2013)	540.1	483.7	661.5	553.1	44/95	33:35:32 (14.1)	Consistent
Rotuma (1912-2013)	776.6	744.0	925.6	863.0	42/100	29:39:32 (-2.1)	Consistent

Period: *below normal/normal/above normal

*below normal/normal/above normal

*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 August to October 2013

Predictors and Period used: SST 1& 9 (Apr to Jun)

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)	18	184.3	36	277.1	46	4.8	46
Lautoka Mill (1900-2013)	16	168.9	38	259.9	46	6.1	37.5
Nadi Airport (1942-2013)	26	175.1	25	291.8	49	2.4	34.4
Yasawa-I-Rara (1950-2013)	12	161	42	255.4	46	9.7	30.5
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2013)	28	422.5	27	619.5	45	2.7	21.9
Nausori Airport(1957-2013)	30	424.3	25	602.6	45	-1.1	37.5
Tokotoko (Navua) (1945-2013)	26	554.6	36	878.5	38	1	33.3
<i>Eastern Division</i>							
Lakeba (1950-2013)	26	255.1	38	345.8	36	-1.6	32.8
Vunisea (Kadavu) (1931-2013)	29	290.9	26	436.2	45	2.7	32.8
Ono-I-Lau (1943-2013)	35	236.6	31	349.6	34	-1.5	30
<i>Northern Division</i>							
Labasa Airfield (1956-2013)	22	165.9	29	242.2	49	1.2	35.2
Nabouwalu (1918-2013)	18	263	39	447.5	43	6.5	40.6
Rotuma (1912 -2013)	47	654.1	29	839.7	24	2.9	45.3

TABLE 4: Seasonal Climate Outlooks using POAMA2 for August to October 2013

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)
Nadi	33	152	17	266	50
Rotuma	33	650	23	894	44

Summary Statements

Rainfall for June 2013:

Most of the **Western Division**, Nausori & Navua in the **Central Division** and Nabouwalu in the **Northern Division** recorded *above normal* rainfall in June, while the rest of the stations recorded *normal* rainfall, including Rotuma.

There were no new records with regards to June rainfall.

Accumulated rainfall for April–June 2013, including outlook verification:

Rainfall during April to June ranged from normal to below normal. Most of the **Western Division** (exception to this is Lautoka Mill which recorded above normal rain), Navua in the **Central Division**, Ono-I-Lau in the **Eastern Division** and Nabouwalu in the **Northern Division** recorded *normal* rainfall, while the rest of the stations recorded *below normal* rainfall.

Rotuma recorded *normal* rainfall over the last three months.

There were no records with regards to the April to June rainfall.

The SCOPIC Outlook for the period was generally near consistent, with two Inconsistent and two Consistent.

Outlooks for August–October 2013:

1. SCOPIC:

Above normal rainfall is favoured for the **Western Division**, and the **Central Division**, Vunisea in the **Eastern Division**, as well as Labasa Airfield and Nabouwalu in the **Northern Division**.

Normal rainfall is favoured for Lakeba in the **Eastern Division**.

Below normal rainfall is favoured for Rotuma in the Northern Division and Ono I Lau in the Eastern Division.

2. POAMA:

Using POAMA model, *above normal* rainfall is favoured for both 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: $X \geq 35$