

Pacific Islands - Online Climate Outlook Forum (OCOF) No.74

Country Name: Fiji

TABLE 1: Monthly Rainfall

Station (include data period)			October 2013				
	August 2013 Total	September 2013 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Western Division							
Penang Mill (1910-2013)	36.9	37.2	124.9	45.5	112.0	73.7	79/104
Lautoka Mill (1900-2013)	18.3	73.8	62.2	38.1	108.4	65.3	54/114
Nadi Airport (1942-2013)	10.7	159.0	118.7	40.9	101.8	61.9	52/72
Yasawa-I-Rara (1950-2013)	119.0	57.3	177.2	44.0	107.3	71.6	54/63
Central Division							
Laucala Bay (Suva) (1942-2013)	155.4	173.7	240.3	126.1	215.3	160.7	52/72
Nausori Airport (1957-2013)	149.3	139.9	290.2	128.3	216.1	146.1	44/57
Tokotoko (Navua) (1945-2013)	288.2	394.1	362.9	193.0	317.4	248.5	54/69
Eastern Division							
Lakeba (1950-2013)	148.2	111.3	145.6	63.6	140.2	84.9	45/65
Vunisea (Kadavu) (1931-2013)	85.4	372.5	Missing	-	-	-	-
Ono-I-Lau (1943-2013)	118.1	75.6	35.8	41.6	111.5	80.1	18/68
Northern Division							
Labasa Airfield (1956-2013)	131.4	131.7	90.9	66.1	125.8	96.4	25/56
Nabouwalu (1918-2013)	Missing	65.8	197.5	87.0	184.0	129.5	66/95
Rotuma (1912-2013)	Missing	Missing	Missing	-	-	-	-

**TABLE 2: Three-monthly Rainfall
August to October 2013
Predictors and Period used: SST 1 & 9 (April to June)**

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)	199.0	184.3	277.1	224.5	39/103	18:36: 46 (4.8)	Near-consistent
Lautoka Mill (1900-2013)	154.3	168.9	259.9	224.6	34/114	16:38: 46 (6.1)	Inconsistent
Nadi Airport (1942-2013)	288.4	175.1	291.8	225.0	47/72	26:25: 49 (2.4)	Near-consistent
Yasawa-I-Rara (1950-2013)	353.5	161.0	255.4	220.8	53/60	12:42: 46 (9.7)	Consistent
Central Division							
Laucala Bay (Suva) (1942-2013)	569.4	422.5	619.5	509.7	41/72	28:27: 45 (2.7)	Near-consistent
Nausori Airport (1957-2013)	579.4	424.3	602.6	479.2	36/57	30:25: 45 (-1.1)	Near-consistent
Tokotoko (Navua) (1945-2013)	1045.2	554.6	878.5	637.6	57/68	26:36: 38 (1.0)	Consistent
Eastern Division							
Lakeba (1950-2013)	405.1	255.1	345.8	308.9	49/65	26: 38 :36 (-1.6)	Near-consistent
Vunisea (Kadavu) (1931-2013)	Missing	-	-	-	-	-	-
Ono-I-Lau (1943-2013)	229.5	236.6	349.6	311.9	20/66	35 :31:34 (-1.5)	Consistent
Northern Division							
Labasa Airfield (1956-2013)	354.0	165.9	242.2	202.7	49/55	22:29: 49 (1.2)	Consistent
Nabouwalu (1918-2013)	Missing	-	-	-	-	-	-
Rotuma (1912-2013)	Missing	-	-	-	-	-	-

* 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
December 2013 to February 2014**

Predictors and Period used: SOI (August to October 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)	31	771.0	39	1068.2	30	22.6	55
Lautoka Mill (1900-2013)	29	606.2	40	927.0	31	23	51.3
Nadi Airport (1942-2013)	29	607.2	38	909.4	33	17.2	55.7
Yasawa-I-Rara (1950-2013)	29	486.2	45	783.7	26	36.9	58.3
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2013)	33	777.9	34	1000.8	33	-0.1	39.4
Nausori Airport (1957-2013)	33	774.8	33	984.7	34	-1.8	19.3
Tokotoko (Navua) (1945-2013)	33	883.2	33	1113.2	34	-1.7	20.9
<i>Eastern Division</i>							
Lakeba (1950-2013)	30	580.5	42	744.6	28	27.7	56.3
Vunisea (Kadavu) (1931-2013)	31	498.0	35	712.6	34	7.3	42.1
Ono-I-Lau (1943-2013)	28	439.1	36	586.3	36	8.7	26.2
<i>Northern Division</i>							
Labasa Airfield (1956-2013)	31	811.2	40	1131.2	29	27.5	51.8
Nabouwalu (1918- 2013)	30	756.0	38	1017.1	32	19.9	52.1
Rotuma (1912 -2013)	32	900.7	35	1098.9	33	9.6	43.9

Seasonal Climate Outlook:

December 2013 to February 2014 - Median Table:

Station	Below Median (prob)	Median rainfall (mm)	Above Median (prob)	LEPS	Hit-rate
<i>Western Division</i>					
Penang Mill (1910-2013)	49	869.8	51	17.8	69
Lautoka Mill (1900-2013)	48	773.9	52	14.6	63.7
Nadi Airport (1942-2013)	49	834.3	51	19.4	68.6
Yasawa-I-Rara (1950-2013)	49	654.8	51	30.6	71.7
<i>Central Division</i>					
Laucala Bay (Suva) (1942-2013)	50	856.3	50	-1.1	49.3
Nausori Airport(1957-2013)	50	812	50	-1.7	38.6
Tokotoko (Navua) (1945-2013)	50	991.1	50	0.6	52.2
<i>Eastern Division</i>					
Lakeba (1950-2013)	49	655.6	51	23.7	68.8
Vunisea (Kadavu) (1931-2013)	48	606.9	52	13.8	59.2
Ono-I-Lau (1943-2013)	49	505.9	51	8.4	55.4
<i>Northern Division</i>					
Labasa Airfield (1956-2013)	48	918.3	52	25.3	69.6
Nabouwalu (1918-2013)	47	872.5	53	21.2	70.2
Rotuma (1912 -2013)	49	994.5	51	9.3	63.3

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for
December 2013 to February 2014**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)
Nadi Airport	27	597	30	860	43
Suva	27	739	30	956	43
Udu Point	26	680	37	927	37
Rotuma	23	817	50	1018	27

Summary Statements

Rainfall for October 2013:

The Central Division, most of the Western Division, Lakeba in the Eastern Division and Nabouwalu in the Northern Division recorded *above normal* rainfall, while Lautoka and Labasa recorded *normal* rainfall. Ono I Lau was the lone station with *below normal* rainfall.

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

Rainfall during August to October period varied from *below normal* to *above normal*. *Normal* rainfall was recorded over parts of the Western and Central Divisions, *above normal* rainfall at 1 station in each of the 4 Divisions and *below normal* rainfall was recorded at Lautoka Mill (Western Division) and Ono-i-Lau (Eastern Division).

The SCOPIC forecasts for the August to October 2013 period were consistent at 4 of the stations, near- consistent at 5, inconsistent at 1 and 3 station forecasts could not be verified due to missing readings.

Outlooks for November 2013 – January 2014:

1. SCOPIC:

Generally *normal* rainfall favoured.

Western & Northern Division: *Normal* rainfall, with high to very high skill

Central Division: Climatology, with very low skill

Eastern Division: *Normal to above normal* rainfall, with moderate to high skill

2. POAMA:

Normal to above normal rainfall favoured.

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: $X \geq 35$