

Pacific Islands - Online Climate Outlook Forum (OCOF) No.78

Country Name: Fiji

TABLE 1: Monthly Rainfall

Station (include data period)			February 2014				
	December 2013 Total	January 2014 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Western Division							
Penang Mill (1910-2014)	253.4	363.0	482.6	274.7	397.1	341.7	88/105
Lautoka Mill (1900-2014)	429.6	311.3	154.6	218.9	369.6	273.1	21/114
Nadi Airport (1942-2014)	257.6	401.7	231.4	217.8	340.7	277.3	28/72
Yasawa-I-Rara (1950-2014)	247.6	327.0	206.7	175.6	294.7	226.6	28/64
Central Division							
Laucala Bay (Suva) (1942-2014)	451.9	405.0	680.8	240.5	330.6	288.6	72/73
Nausori Airport (1957-2014)	312.9	281.9	453.1	209.8	314.4	280.1	55/58
Tokotoko (Navua) (1945-2014)	382.1	449.2	678.2	266.3	364.8	299.1	68/70
Eastern Division							
Lakeba (1950-2014)	221.8	102.6	317.7	150.1	274.8	198.4	49/65
Vunisea (Kadavu) (1931-2014)	323.9	298.0	337.8	153.1	259.5	216.9	72/79
Ono-I-Lau (1943-2014)	393.9	117.9	255.9	124.4	209.6	173.2	53/68
Northern Division							
Labasa Airfield (1956-2014)	211.0	385.0	451.8	239.3	458.2	358.8	38/59
Nabouwalu (1918-2014)	347.6	309.0	265.9	252.5	338.9	303.0	38/97
Rotuma (1912-2014)	403.2	386.5	433.4	287.8	379.7	321.8	78/102

Period: *below normal/normal/above normal

**TABLE 2: Three-monthly Rainfall
December 2013 to February 2014
Predictors and Period used: SOI (August to October)**

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 (1910-2014)	1099.0	771.0	1068.2	869.8	71/101	31:39:30 (22.6)	Near-consistent
Lautoka Mill (1900-2014)	895.5	606.2	927.0	773.9	71/114	29:40:31 (23.0)	Consistent
Nadi Airport (1942-2014)	890.7	607.2	909.4	834.3	45/71	29:38:33 (17.2)	Consistent
Yasawa-I-Rara (1950-2014)	781.3	486.2	783.7	654.8	41/61	29:45:26 (36.9)	Consistent
Central Division							
Laucala Bay (Suva) (1942-2014)	1537.7	777.9	1000.8	856.3	72/72	33:34:33 (-0.1)	Near-consistent
Nausori Airport (1957-204)	1047.9	774.8	984.7	812.0	44/58	33:33:34 (-1.8)	Near-consistent
Tokotoko (Navua) (1945-2014)	1509.5	883.2	1113.2	991.1	66/68	33:33:34 (-1.7)	Near-consistent
Eastern Division							
Lakeba, Lau (1950-2014)	642.1	580.5	744.6	655.6	32/65	30:42:28 (27.7)	Consistent
Vunisea (Kadavu) (1931-2014)	959.7	498.0	712.6	606.9	68/77	31:35:34 (7.3)	Near-consistent
Ono-I-Lau (1943-2014)	767.7	439.1	586.3	505.9	61/66	28:36:36 (8.7)	Near-consistent
Northern Division							
Labasa Airfield (1956-2014)	1047.8	811.2	1131.2	918.3	36/57	31:40:29 (27.5)	Consistent
Nabouwalu (1918-2014)	922.5	756.0	1017.1	872.5	51/95	30:38:32 (19.9)	Consistent
Rotuma (1912-2014)	1223.1	900.7	1098.9	994.5	82/99	32:35:33 (9.6)	Near-consistent

* 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
April to June 2014**

Predictors and Period used: SST 1 & 9 (December 2013 to February 2014)

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 (1910-2014)	24	352	31	532.3	45	1.1	31.7
Lautoka Mill (1900-2014)	23	263.5	39	389.8	38	12.5	43.8
Nadi Airport (1942-2014)	12	260.9	35	376.2	53	17.2	46.9
Yasawa-I-Rara (1950-2014)	16	287.4	36	431.3	48	14.9	49.2
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2014)	25	678.1	31	846.7	44	7.4	39.1
Nausori Airport (1957-2014)	17	646.8	39	796.8	44	14.1	47.4
Tokotoko (Navua) (1945-2014)	28	771.6	34	1000.3	38	6.3	43.8
<i>Eastern Division</i>							
Lakeba (1950-2014)	9	353.4	36	509	55	14.6	47.6
Vunisea (Kadavu) (1931- 2014)	22	464	41	614.4	37	5.7	41.3
Ono-I-Lau (1943-2014)	32	316.8	27	465.8	41	8.4	40.7
<i>Northern Division</i>							
Labasa Airfield (1956- 2014)	21	341.2	32	448	47	3.1	36.8
Nabouwalu (1918-2014)	18	484.4	41	660.5	41	15.4	45.3
Rotuma (1912 -2014)	28	744.4	43	924.8	29	-2.0	36.5

Seasonal Climate Outlook:

April to June 2014 - Median Table:

Predictors and Period used: SST 1 & 9 (December 2013 to February 2014)

Station	Below Median (prob)	Median rainfall (mm)	Above Median (prob)	LEPS	Hit-rate
<i>Western Division</i>					
Penang Mill (1910-2014)	49	424	51	-2.5	42.9
Lautoka Mill (1900-2014)	37	322.7	63	9.3	64.1
Nadi Airport (1942-2014)	28	315.7	72	12	68.8
Yasawa-I-Rara (1950-2014)	22	359.9	78	15.7	65.6
<i>Central Division</i>					
Laucala Bay (Suva) (1942-2014)	29	736.6	71	10.5	62.5
Nausori Airport(1957-2014)	32	710.1	68	9.9	57.9
Tokotoko (Navua) (1945-2014)	50	879.3	50	6.3	59.4
<i>Eastern Division</i>					
Lakeba (1950-2014)	30	426.4	70	8.6	61.9
Vunisea (Kadavu) (1931-2014)	39	547.8	61	4.3	68.3
Ono-I-Lau (1943-2014)	48	413.6	52	1.6	59.3
<i>Northern Division</i>					
Labasa Airfield (1956-2014)	39	410	61	1.6	56.1
Nabouwalu (1918-2014)	39	547.6	61	14.6	64.1
Rotuma (1912 -2014)	48	830.9	52	-3	38.1

TABLE 4: Seasonal Climate Outlooks using POAMA2 for April to June 2014

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)
Nadi Airport	36	496	58	647	6
Suva	36	807	58	971	6
Udu Point	36	590	59	807	5
Rotuma	18	836	77	1043	5

Summary Statements

Rainfall for February 2014:

Rainfall during the past month was generally *normal* to *above normal* over the Fiji Group. It was particularly wet in the Central and Eastern Divisions with *above normal* rainfall recorded throughout these Divisions.

Rainfall across the Central Division ranked in the top 5 of the historical record.

Accumulated rainfall for December 2013 to February 2014, including outlook verification:

Normal to *above normal* rainfall was recorded over the country through the December 2013 to February 2014 period. *Above normal* rainfall was recorded across the Central Division, with rainfall at Laucala Bay ranking highest in the historical record and 3rd highest at Tokotoko.

The SCOPIC forecasts for the past 3 months (December 2013 to February 2014) were consistent at 6 out of the 12 stations and near-consistent at 7.

Outlooks for April to June 2014:

1. SCOPIC:

The seasonal rainfall outlook for April to June 2014 shows:

- Above-normal is the most likely outcome for most stations (including Penang Mill, Nadi Airport, Yasawa-i-Rara, Laucala Bay, Nausori Airport, Tokotoko, Lakeba, Ono-i-Lau and Labasa Airfield), with normal the next most likely;
- Normal is the most likely outcome for Lautoka Mill, Vunisea and Rotuma, with above-normal the next most likely; and
- There is equal chance of normal and above-normal for Nabouwalu.

The least likely category for all stations is below-normal.

2. POAMA:

Normal rainfall is favoured for all stations.

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: $X \geq 35$