

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 80

Country Name: Fiji

TABLE 1: Monthly Rainfall

Station (include data period)	April 2014						
	February 2014 Total	March 2014 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Western Division							
Penang Mill (1910-2014)	482.6	242.9	123.5	175.8	277.8	206.3	18/104
Lautoka Mill (1900-2014)	154.6	101.1	145.7	114.8	201.3	147	57/115
Nadi Airport (1942-2014)	231.4	136.7	117.3	117.3	208	154.7	25/72
Yasawa-I-Rara (1950-2014)	206.7	155.0	101.4	111.1	211.3	153.4	17/63
Central Division							
Laucala Bay (Suva) (1942-2014)	680.8	497.1	186.0	278.6	390.8	327	15/73
Nausori Airport (1957-2014)	453.1	427.8	107.3	263.7	392.5	327	3/58
Tokotoko (Navua) (1945-2014)	678.2	752.5	154.6	305.8	453.7	354.7	5/70
Eastern Division							
Lakeba (1950-2014)	317.7	192.9	91.0	132.9	221	176.9	8/64
Vunisea (Kadavu) (1931-2014)	337.8	309.8	165.1	152.6	274.2	218.3	30/78
Ono-I-Lau (1943-2014)	255.9	63.2	91.0	110.7	214.7	176	17/67
Northern Division							
Labasa Airfield (1956-2014)	451.8	158.1	62.8	175	286.8	245.7	7/59
Nabouwalu (1918-2014)	265.9	251.3	106.9	204.8	329.7	245.1	12/97
Rotuma (1912-2014)	433.4	303.9	163.9	214.7	306.1	256	19/102

Period: *below normal/normal/above normal

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

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)	849	827.4	1102.7	997	38/104	28:36:36 (7.7)	Near consistent
Lautoka Mill (1900-2014)	401.4	694.5	926.3	809.4	10/114	26:37:37 (9.9)	Near consistent
Nadi Airport (1942-2014)	485.4	671	910.1	797.2	7/71	29:36:35 (11)	Near consistent
Yasawa-I-Rara (1950-2014)	463.1	584.9	837.2	663.4	12/63	26:37:37 (9.5)	Near consistent
Central Division							
Laucala Bay (Suva) (1942-2014)	1363.9	879.2	1078.7	945.9	63/73	34:34:32 (-1)	Near consistent
Nausori Airport (1957-204)	988.2	892.5	1057.8	960.5	32/58	35:34:31 (1.3)	Near consistent
Tokotoko (Navua) (1945-2014)	1585.3	1004.6	1210.9	1111.2	64/70	34:34:32 (-0.2)	Near consistent
Eastern Division							
Lakeba, Lau (1950-2014)	601.6	646.6	827.6	699.4	19/64	28:36:36 (10.5)	Near consistent
Vunisea (Kadavu) (1931-2014)	812.7	637.5	828.3	734.5	48/77	32:33:35 (3.1)	Near consistent
Ono-I-Lau (1943-2014)	410.1	474	698.4	585	15/65	27:36:37 (7.8)	Inconsistent
Northern Division							
Labasa Airfield (1956-2014)	672.7	833.3	1121.9	1022.4	14/59	30:35:35 (5.8)	Near consistent
Nabouwalu (1918-2014)	624.1	775.4	1033.5	880.1	11/97	32:33:35 (3.8)	Inconsistent
Rotuma (1912-2014)	901.2	896.2	1079	1004.8	35/101	31:34:35 (0.9)	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
June to August 2014**

Predictors and Period used: SST 1 & 9 (February to April 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)	28	161.8	25	226.3	47	0.4	38.5
Lautoka Mill (1900-2014)	16	121.7	23	223.7	61	9.7	44.6
Nadi Airport (1942-2014)	15	125.4	35	208.2	50	7.7	40
Yasawa-I-Rara (1950-2014)	22	132.6	28	243.2	50	6.8	36.7
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2014)	34	367	23	513.9	43	2.2	36.9
Nausori Airport (1957-2014)	28	355.4	25	496.8	47	6.5	47.4
Tokotoko (Navua) (1945-2014)	29	506.5	28	682.7	43	3.4	42.2
<i>Eastern Division</i>							
Lakeba (1950-2014)	18	202.2	24	304.6	58	10.5	39.7
Vunisea (Kadavu) (1931- 2014)	24	257	48	397.9	28	-1.8	35.4
Ono-I-Lau (1943-2014)	35	253.5	26	345.4	39	-0.6	34.4
<i>Northern Division</i>							
Labasa Airfield (1956- 2014)	14	116.5	17	192.9	69	13.6	38.6
Nabouwalu (1918-2014)	16	231.9	35	336.9	49	15.8	43.8
Rotuma (1912 -2014)	29	589.6	44	784.5	27	1.8	44.4

Seasonal Climate Outlook:

June to August 2014- Median Table:

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

Station	Below Median (prob)	Median rainfall (mm)	Above Median (prob)	LEPS	Hit-rate
<i>Western Division</i>					
Penang Mill (1910-2014)	38	188.1	62	0.1	56.9
Lautoka Mill (1900-2014)	32	169.7	68	5.2	63.1
Nadi Airport (1942-2014)	32	173.9	68	4.4	60
Yasawa-I-Rara (1950-2014)	35	204.4	65	8.3	60
<i>Central Division</i>					
Laucala Bay (Suva) (1942-2014)	45	436.5	55	-1.4	50.8
Nausori Airport (1957-2014)	38	431.3	62	8.7	64.9
Tokotoko (Navua) (1945-2014)	45	577.6	55	4.1	59.4
<i>Eastern Division</i>					
Lakeba (1950-2014)	28	270.8	72	8.1	63.5
Vunisea (Kadavu) (1931-2014)	46	316.4	54	0.4	52.3
Ono-I-Lau (1943-2014)	48	289.6	52	-2.4	50.8
<i>Northern Division</i>					
Labasa Airfield (1956-2014)	25	147.1	75	11.8	63.2
Nabouwalu (1918-2014)	32	283.5	68	14.2	64.1
Rotuma (1912 -2014)	38	705.8	62	4.3	55.6

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

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)
Nadi Airport	30	149	65	206	5
Suva	30	415	65	560	5
Udu Point	45	215	50	355	5
Rotuma	30	758	64	863	6

Summary Statements

Rainfall for April 2014:

Most of the stations recorded *below normal* rainfall, with the exception of Lautoka, Nadi and Vunisea that recorded *normal* rainfall during the month.

Accumulated rainfall for February to April 2014, including outlook verification:

With the exception of Suva and Navua, which recorded *above normal* rainfall, *normal* or *below normal* rainfall were recorded at the rest of the stations.

For the verification of the February to April 2014 period, 92% of the stations recorded near consistent forecasts.

Outlooks for June to August 2014:

1. SCOPIC:

The seasonal rainfall outlook for the **Western, Central & Northern Division (except Rotuma)** shows the most likely outcome is *Above normal*. Confidence in the outlook is low to moderate.

The seasonal rainfall for the **Eastern Division and Rotuma** shows the most likely outcome is *normal* to *above normal*.

2. POAMA:

Normal rainfall is favoured at all the 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: $X \geq 35$