

Pacific Islands - Online Climate Outlook Forum (OCOF) No.77

Country Name: Fiji

TABLE 1: Monthly Rainfall

Station (include data period)			January 2013				
	November 2013 Total	December 2013 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Western Division							
Penang Mill (1910-2013)	89.5	253.4	363.0	233.3	431	303.1	63/105
Lautoka Mill (1900-2013)	290.4	429.6	311.3	171.4	373.1	258.7	64/114
Nadi Airport (1942-2013)	239.2	257.6	401.7	218.9	359.7	288.1	52/73
Yasawa-I-Rara (1950-2013)	89.2	247.6	327.0	130.5	298.9	217.8	46/63
Central Division							
Laucala Bay (Suva) (1942-2013)	155.3	451.9	405.0	248.9	380.5	317.6	51/73
Nausori Airport (1957-2013)	112.3	312.9	281.9	257	406.9	326.8	23/58
Tokotoko (Navua) (1945-2013)	135.9	382.1	449.2	273.9	412.5	341.8	52/70
Eastern Division							
Lakeba (1950-2013)	100.9	221.8	102.6	179.5	308.4	248.8	7/65
Vunisea (Kadavu) (1931-2013)	263.5	323.9	298.0	170.1	279.6	227.8	57/78
Ono-I-Lau (1943-2013)	104.1	393.9	117.9	124.3	224.6	184.4	22/68
Northern Division							
Labasa Airfield (1956-2013)	266.8	211.0	385.0	244.1	475.5	397.8	28/58
Nabouwalu (1918-2013)	233.7	347.6	309.0	251.3	402.7	330.7	46/97
Rotuma (1912-2013)	223.5	403.2	386.5	287	410.8	336.9	60/102

Period: *below normal/normal/above normal

**TABLE 2: Three-monthly Rainfall
November 2013 to January 2014
Predictors and Period used: SOI (July to September)**

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?)
<i>Western Division</i>							
Penang Mill (1910-2013)	705.9	564.7	822.4	682.8	57/99	23:37:40 (12.6)	Near-Consistent
Lautoka Mill (1900-2013)	1031.3	415.4	691.8	561.5	101/114	21:37:42 (26.2)	Consistent
Nadi Airport (1942-2013)	898.5	427.9	750.2	656.2	57/71	16:41:43 (26.6)	Consistent
Yasawa-I-Rara (1950-2013)	663.8	392.4	631.8	503.5	43/61	18:40:42 (27.3)	Consistent
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2013)	1012.2	682.5	1036.0	849.4	47/72	31:33:36 (1.2)	Near-consistent
Nausori Airport (1957-2013)	707.1	743.6	1004.3	850.4	19/58	28:32:40 (11.7)	Inconsistent
Tokotoko (Navua) (1945-2013)	967.2	863.7	1115.9	928.6	39/68	27:37:36 (2.4)	Consistent
<i>Eastern Division</i>							
Lakeba (1950-2013)	425.3	464.2	672.3	585.4	16/65	25:35:40 (18.5)	Inconsistent
Vunisea (Kadavu) (1931-2013)	885.4	443.4	632.8	523.3	69/77	26:35:39 (10.1)	Consistent
Ono-I-Lau (1943-2013)	615.9	351.4	514.9	448.6	55/66	20:37:43 (21.5)	Consistent
<i>Northern Division</i>							
Labasa Airfield (1956-2013)	862.8	586.5	953.9	672.1	33/54	22:32:46 (25.4)	Near-consistent
Nabouwalu (1918-2013)	890.3	649.0	890.0	759.4	64/95	20:36:44 (24.0)	Consistent
Rotuma (1912-2013)	1013.2	898.7	1082.3	994.7	51/99	27:37:36 (2.5)	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
March to May 2014**

Predictors and Period used: SOI (October to December 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)	25	596.9	36	906.4	39	3.3	39.8
Lautoka Mill (1900-2013)	19	481.4	41	682	40	8.5	40.7
Nadi Airport (1942-2013)	22	509.5	35	675.8	43	10.5	44.3
Yasawa-I-Rara (1950-2013)	25	489.7	33	643.4	42	6	37.7
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2013)	31	819.9	35	1046.3	34	-1.1	31.9
Nausori Airport (1957-2013)	28	824.7	37	1047.7	35	-1.2	40.4
Tokotoko (Navua) (1945-2013)	29	943	38	1186.9	33	-0.6	40.6
<i>Eastern Division</i>							
Lakeba (1950-2013)	23	546.5	36	721.5	41	6.1	42.9
Vunisea (Kadavu) (1931-2013)	23	613.3	40	761.2	37	4.4	47.4
Ono-I-Lau (1943-2013)	21	458	36	643.8	43	7.4	42.2
<i>Northern Division</i>							
Labasa Airfield (1956- 2013)	25	568.6	37	843.7	38	3	25.9
Nabouwalu (1918-2013)	23	668.3	39	907.9	38	4.5	42.7
Rotuma (1912 -2013)	30	824.1	40	1043.2	30	-0.6	27.3

Seasonal Climate Outlook:

March to May 2014 - Median Table:

Predictors and Period used: SOI (November 2013 to January 2014)

Station	Below Median (prob)	Median rainfall (mm)	Above Median (prob)	LEPS	Hit-rate
<i>Western Division</i>					
Penang Mill (1910-2013)	43	695.6	57	3	53.4
Lautoka Mill (1900-2013)	39	575.6	61	7.1	57.5
Nadi Airport (1942-2013)	39	584.5	61	8	60
Yasawa-I-Rara (1950-2013)	46	549.4	54	0.4	52.5
<i>Central Division</i>					
Laucala Bay (Suva) (1942-2013)	52	909.5	48	-1.1	56.9
Nausori Airport(1957-2013)	48	916.8	52	-1	47.4
Tokotoko (Navua) (1945-2013)	48	1059.8	52	-0.7	50.7
<i>Eastern Division</i>					
Lakeba (1950-2013)	40	647.9	60	4.2	60.3
Vunisea (Kadavu) (1931-2013)	44	697.4	56	1.9	59.2
Ono-I-Lau (1943-2013)	39	513.2	61	7	64.1
<i>Northern Division</i>					
Labasa Airfield (1956-2013)	48	729	52	-1.4	46.4
Nabouwalu (1918-2013)	38	771.3	62	8.1	56.3
Rotuma (1912 -2013)	49	957.6	51	-1	50.5

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for
March to May 2014**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)
Nadi Airport	30	469	18	647	52
Suva	30	807	18	971	52
Udu Point	45	590	10	807	45
Rotuma	42	836	5	1043	53

Summary Statements

Rainfall for January 2013:

Generally *normal to above normal* rainfall were recorded at various parts of the country during the month except Lakeba and Ono-I-Lau that recorded *below normal* rainfall.

Accumulated rainfall for November 2013 to January 2014, including outlook verification:

Generally *normal to above normal* rainfall were recorded at various parts of the country, except Lakeba and Nausori Airport that recorded *below normal* rainfall.

Looking at the SCOPIC forecasts for the past 3months (November 2013 to January 2014), 62% (8) of the stations recorded consistent forecasts, 23% (3) near- consistent and 15% (2) inconsistent.

Outlooks for March to May 2014:

1. SCOPIC:

Generally normal to above normal rainfall is favoured across the country over the March to May period, with very low to moderate skills.

POAMA:

Generally above normal rainfall is 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: $X \geq 35$