

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 83

Country Name: Fiji

TABLE 1: Monthly Rainfall

Station (include data period)			July 2014				
	May 2014 Total	June 2014 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Western Division							
Penang Mill (1910-2014)	207.1	42.2	26.7	25.7	57.8	38.4	38/105
Lautoka Mill (1900-2014)	140.6	13.8	0.8	21.6	60	40.9	8/115
Nadi Airport (1942-2014)	133.9	1.3	13.3	18.1	63.8	35	23/73
Yasawa-i-Rara (1950-2014)	132.6	3.4	9.7	21.8	51.4	34.2	13/61
Central Division							
Laucala Bay (Suva) (1942-2014)	447.1	56.4	105.9	90.4	158.9	124	33/73
Nausori Airport (1957-2014)	226.5	81.4	118.5	97.6	136.1	123.1	27/58
Tokotoko (Navua) (1945-2014)	224.2	138.8	136.4	148.5	217.6	185.9	21/70
Eastern Division							
Lakeba (1950-2014)	155.3	23.2	80.1	48.4	96.1	57.6	41/64
Vunisea (Kadavu) (1931-2014)	249.9	49.9	73.9	81	123.9	95.1	21/78
Ono-I-Lau (1943-2014)	243.5	58.3	82.5	56.8	116.7	69.9	38/68
Northern Division							
Labasa Airport (1956-2014)	107.8	27.9	4.1	23.4	57.1	33.6	9/59
Nabouwalu (1918-2014)	315.6	77.4	49.4	52.2	103.6	80	32/96
Rotuma (1912-2014)	426.7	328.5	144.7	179	255	215.5	32/101

Period: *below normal/normal/above normal

TABLE 2: Three-monthly Rainfall
May to July 2014
Predictors and Period used: SST (December 2013 to February 2014)

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)	276	179.3	300.0	252.5	60/105	26:22:52 (10.4)	Near-Consistent
Lautoka Mill (1900-2014)	155.2	153.2	235.7	201.5	43/115	23:37:40 (15.2)	Near-Consistent
Nadi Airport (1942-2014)	149.2	143.2	247.5	185.3	26/72	23:35:42 (9.1)	Near-Consistent
Yasawa-i-Rara (1950-2014)	145.7	172.5	275.0	230.9	14/61	20:27:53 (18.4)	Inconsistent
Central Division							
Laucala Bay (Suva) (1942-2014)	609.4	440.0	611.9	507.8	48/73	41:34:25 (13.7)	Near-Consistent
Nausori Airport (1957-2014)	426.4	433.8	586.8	517.0	19/58	20:43:37 (14.7)	Near-Consistent
Tokotoko (Navua) (1945-2014)	499.4	586.5	771.1	671.9	15/70	43:30:27 (14.0)	Consistent
Eastern Division							
Lakeba, Lau (1950-2014)	258.6	262.9	367.0	322.9	22/64	13:31:56 (19.3)	Inconsistent
Vunisea (Kadavu) (1931-2014)	373.7	327.9	450.2	383.5	36/77	20:63:17 (2.0)	Consistent
Ono-i-Lau (1943-2014)	384.3	232.3	370.9	311.2	45/64	36:28:36 (5.8)	Near-Consistent
Northern Division							
Labasa Airport (1956-2014)	139.8	174.6	272.5	213.1	16/58	18:27:55 (19.8)	Inconsistent
Nabouwalu (1918-2014)	442.4	321.4	442.9	366.0	64/96	17:36:47 (18.3)	Near-Consistent
Rotuma (1912-2014)	899.9	690.9	871.6	786.0	74/100	23:42:35 (1.1)	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
September to November 2014**

Predictors and Period used: NINO 3.4 (May to July 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)	44	249	38	365.9	18	16	54.8
Lautoka Mill (1900-2014)	45	186.1	38	324.9	17	16.4	43.8
Nadi Airport (1942-2014)	50	242.4	37	344.1	13	25.7	43.8
Yasawa-i-Rara (1950-2014)	43	195.9	41	353.8	16	11.7	41.7
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2014)	43	468.4	33	754.6	24	6.7	48.4
Nausori Airport (1957-2014)	42	453.5	35	721.5	23	8.7	45.6
Tokotoko (Navua) (1945- 2014)	48	648.4	39	937.2	13	22.1	57.1
<i>Eastern Division</i>							
Lakeba (1950-2014)	45	298.4	33	404.4	22	11.2	53.1
Vunisea (Kadavu) (1931- 2014)	46	309.3	32	433.7	21	15.3	54
Ono-i-Lau (1943-2014)	46	213	33	370.9	21	12.6	43.3
<i>Northern Division</i>							
Labasa Airport (1956- 2014)	45	263.1	38	386.8	17	18.3	51.9
Nabouwalu (1918-2014)	51	352.3	31	541	18	20.6	46.9
Rotuma (1912 -2014)	35	726	26	945.8	39	-0.6	41.3

Seasonal Climate Outlook:

September to November 2014- Median Table:

Predictors and Period used: NINO 3.4 (May to July 2014)

Station	Below Median (prob)	Median rainfall (mm)	Above Median (prob)	LEPS	Hit-rate
Western Division					
Penang Mill (1910-2014)	66	294.6	34	17.4	69.4
Lautoka Mill (1900-2014)	65	265.4	35	15.3	65.6
Nadi Airport (1942-2014)	70	297.5	30	21	70.3
Yasawa-i-Rara (1950-2014)	63	276.9	37	10.7	63.3
Central Division					
Laucala Bay (Suva) (1942-2014)	59	637.7	41	3.9	62.5
Nausori Airport (1957-2014)	57	600.3	43	3.8	57.9
Tokotoko (Navua) (1945-2014)	70	786.3	30	22.6	76.2
Eastern Division					
Lakeba (1950-2014)	62	333.4	38	8.6	68.8
Vunisea (Kadavu) (1931-2014)	64	384.9	36	13.4	66.7
Ono-i-Lau (1943-2014)	66	293.8	34	15.6	70
Northern Division					
Labasa Airport (1956-2014)	62	314.3	38	12.6	68.5
Nabouwalu (1918-2014)	71	424	29	22.8	75
Rotuma (1912 -2014)	47	848.2	53	-0.9	60.3

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for
September to November 2014**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)
Nadi Airport	30	152	64	266	6
Suva	18	650	46	894	36
Udu Point	30	434	64	590	6
Rotuma	42	241	45	364	13

Summary Statements

Rainfall for July 2014:

Below normal rainfall was experienced majority of the stations. The only expectations were Penang Mill (Western Division), Suva and Nausori Airport (Central Division) & Lakeba and Ono-i-Lau (Eastern Division), which recorded *normal* rainfall.

Accumulated rainfall for May to July 2014, including outlook verification:

Rotuma and Ono-I-Lau recorded *above normal* rainfall, while the rest of the stations recorded *normal* to *below normal* rainfall.

For the verification of forecasts, only 3 stations recorded consistent forecast, 7 near-consistent and 2 recorded Inconsistent.

Outlooks for July to September 2014:

1. SCOPIC:

Generally *below normal* or *normal* rainfall is favoured for the Western and Central Division, while *below normal* rainfall is favoured for the Eastern and Northern Divisions, for the September to November 2014 period. The seasonal rainfall outlook for Rotuma is mixed, with similar chances for below-normal and above-normal totals; near-normal is the least likely outcome.

2. POAMA:

Normal rainfall favoured for Nadi, Suva and Udu Point, while *normal* to *below normal* rainfall is favoured at 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: $X \geq 35$