

Country Name: Fiji

TABLE 1: Monthly Rainfall

Station (include data period)	June 2016						
	April 2016 Total	May 2016 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Western Division							
Penang Mill (1910-2016)	552.3	52.8	56.9	40	96	58	50/107
Lautoka Mill (1900-2016)	434.4	6.6	18.9	30	77	47	30/117
Nadi Airport (1942-2016)	499.6	21.0	28.1	26	73	52	27/75
Yasawa-i-Rara (1950-2016)	250.5	7.0	80.0	38	130	69	36/64
Central Division							
Laucala Bay (Suva) (1942-2016)	351.3	171.3	50.3	105	210	141	9/75
Nausori Airport (1957-2016)	388.0	192.1	92.7	92	205	143	21/60
Tokotoko (Navua) (1945-2016)	445.9	283.3	103.6	136	252	182	11/72
Eastern Division							
Lakeba (1950-2016)	306.4	49.0	92.3	51	134	87	35/67
Vunisea (Kadavu) (1931-2016)	291.0	100.2	92.5	71	141	114	45/69
Ono-i-lau (1943-2016)	576.6	61.0	97.3	59	110	78	36/80
Northern Division							
Labasa Airport (1956-2016)	607.0	0	45.9	30	87	51	29/60
Nabouwalu (1918-2016)	553.7	43.2	M	M	M	M	M
Rotuma (1912-2016)	572.3	110.4	168.0	200	294	246	25/103

Period: *below normal/normal/above normal

M - Missing

**TABLE 2: Three-monthly Rainfall
April to June 2016**

Predictors and Period used: NINO3.4 SST Anomalies: November 2015 to January 2016

Station	Three-month Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking	Forecast probs.* (include LEPS)	Verification* (Consistent, Near-consistent or Inconsistent)
Western Division							
Penang Mill (1910-2016)	662.0	349	532	422	90/106	69/19/12 (4.2)	Inconsistent
Lautoka Mill (1900-2016)	459.9	263	389	323	91/117	76/21/3 (15.3)	Inconsistent
Nadi Airport (1942-2016)	548.7	255	374	313	67/74	81/17/2 (17.6)	Inconsistent
Yasawa-i-rara (1950-2016)	337.5	28	429	336	33/64	88/6/6 (11.7)	Consistent
Central Division							
Laucala Bay (Suva) (1942-2016)	572.9	678	833	734	15/75	56/37/7 (6.1)	Consistent
Nausori Airport (1957-2016)	672.8	646	786	706	25/60	78/18/4 (12.2)	Near-consistent
Tokotoko (Navua) (1945-2016)	832.8	754	992	874	30/72	59/36/5 (8.9)	Near-consistent
Eastern Division							
Lakeba, Lau (1950-2016)	447.7	336	501	422	37/66	71/19/10 (6.4)	Near-consistent
Vunisea (Kadavu) (1931-2016)	483.7	453	611	541	29/80	80/13/7 (11.5)	Near-consistent
Ono-i-lau (1943-2016)	734.9	315	463	397	61/66	93/4/3 (18.2)	Inconsistent
Northern Division							
Labasa Airport (1956-2016)	652.9	324	445	405	56/50	56/32/12 (3.6)	Inconsistent
Nabouwalu (1918-2016)	M	485	659	545	M	90/7/3 (17.4)	M
Rotuma (1912-2016)	850.7	744	921	831	55/103	30/28/42 (-1.9)	Near-consistent

Period:* below normal/normal/above normal

* 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).

M - Missing

**TABLE 3: Seasonal Climate Outlooks using SCOPIC for
August to October 2016 – Tercile Method**

Predictors and Period used: NINO3.4 SST Anomalies: April to June 2016

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 (1910-2016)	51	178	36	275	13	7.6	43.1
Lautoka Mill (1900-2016)	58	165	25	257	17	7.0	45.5
Nadi Airport (1942-2016)	62	172	26	289	12	11	42
Yasawa-i-rara (1950-2016)	63	153	21	255	16	8.5	45.2
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2016)	55	404	34	611	11	10.1	43.9
Nausori Airport (1957-2016)	33	421	49	593	18	1.1	42.4
Tokotoko (Navua) (1945-2016)	50	555	42	879	8	10.6	43.1
<i>Eastern Division</i>							
Lakeba (1950-2016)	51	251	25	346	24	2.1	28.8
Vunisea (Kadavu) (1931-2016)	57	292	30	438	13	8.4	42.2
Ono-i-lau (1943-2016)	50	233	31	346	19	3.6	45.2
<i>Northern Division</i>							
Labasa Airport (1956-2016)	58	166	22	242	20	2.9	26.3
Nabouwalu (1918-2016)	58	263	34	448	8	11.1	50.8
<i>Rotuma</i>							
Rotuma (1912 -2016)	31	652	22	826	47	-0.5	38.5

Seasonal Climate Outlook:

August to October 2016 - Median Table:

Predictors and Period used: NINO3.4 SST Anomalies: April to June 2016

Station	Below Median (prob)	Median rainfall (mm)	Above Median (prob)	LEPS	Hit-rate
<i>Western Division</i>					
Penang Mill (1910-2016)	67	223	33	3.3	61.5
Lautoka Mill (1900-2016)	73	221	27	6.8	63.6
Nadi Airport (1942-2016)	72	221	28	6.4	65.2
Yasawa-i-rara (1950-2016)	77	216	23	9.5	64.5
<i>Central Division</i>					
Laucala Bay (Suva) (163.6942-2016)	68	506	32	3.6	60.6
Nausori Airport (1957-2016)	68	475	32	3.6	59.3
Tokotoko (Navua) (1945-2016)	75	636	25	9.0	64.6
<i>Eastern Division</i>					
Lakeba (1950-2016)	54	308	46	-0.8	53.0
Vunisea (Kadavu) (1931-2016)	67	363	33	3.9	59.4
Ono-i-lau (1943-2016)	60	303	40	-0.1	61.3
<i>Northern Division</i>					
Labasa Airport (1956-2016)	75	199	25	8.5	66.7
Nabouwalu (1918-2016)	88	351	12	21.1	69.8
Rotuma (1912 -2016)	46	718	54	-1.4	41.5

TABLE 4: Seasonal Climate Outlooks using POAMA2 for August to October 2016

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)
Lakeba	49	174	24	303	27
Nadi	43	142	27	198	30
Nabouwalu	46	183	15	297	39
Udu Point	45	151	12	295	43
Vunisea	43	298	27	413	30
Suva	43	369	27	602	30
Rotuma	15	573	12	784	73

Summary Statements

Rainfall for June 2016:

Normal to below normal rainfall was recorded across the country during June 2016.

Accumulated rainfall for March to June 2016 & outlook verification:

A tropical depression, TD14F, resulted in substantial rainfall over the Fiji Group during 1st week of April 2016, leading to floods in many parts of the country. Consequently, majority of the country registered normal to above normal rainfall through the April to June 2016 period. The exceptions to this were, Yasawa-i-rara and Laucala Bay, which received below normal rainfall.

Verification of the 3-month rainfall

The SCOPIC outlooks for April to June 2016 were consistent at two out of the 13 stations, near-consistent at 5 and inconsistent at 5. The outlook for Nabouwalu could not be verified due to missing observations.

Outlooks for August to October 2016:

1. SCOPIC:

The SCOPIC outlooks for August to October 2016 period shows:

- Below normal rainfall is most likely outcome at majority of the stations, with normal the next most likely;
- Above normal rainfall is most likely at Rotuma, with below normal the next most likely; and
- The confidences in the predictions generally range from low to moderate.

2. POAMA:

Similar to SCOPIC, POAMA also suggest below normal as the most likely outcome at majority of the stations. POAMA favours for above normal rainfall 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: $X \geq 35$