

Country Name: Fiji**TABLE 1: Monthly Rainfall**

Station (include data period)	May 2016						
	March 2016 Total	April 2016 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Western Division							
Penang Mill (1910-2016)	123.0	552.3	52.8	65	165	101	30/109
Lautoka Mill (1900-2016)	286.6	434.4	6.6	45	118	79	11/117
Nadi Airport (1942-2016)	324.0	499.6	21.0	43	103	78	12/74
Yasawa-i-Rara (1950-2016)	107.0	250.5	7.0	43	112	90	2/64
Central Division							
Laucala Bay (Suva) (1942-2016)	109.8	351.3	171.3	169	259	198	26/75
Nausori Airport (1957-2016)	110.9	388.0	192.1	158	250	197	28/60
Tokotoko (Navua) (1945-2016)	151.8	445.9	283.3	185	347	254	41/72
Eastern Division							
Lakeba (1950-2016)	50.5	306.4	49.0	83	168	110	10/67
Vunisea (Kadavu) (1931-2016)	178.7	291.0	100.2	103	208	139	26/80
Ono-i-lau (1943-2016)	51.7	576.6	61.0	60	145	84	24/69
Northern Division							
Labasa Airport (1956-2016)	228.9	607.0	0	59	118	85	1/61
Nabouwalu (1918-2016)	117.7	553.7	43.2	118	207	173	10/99
Rotuma (1912-2016)	190.3	572.3	110.4	230	341	283	8/103

Period: *below normal/normal/above normal

**TABLE 2: Three-monthly Rainfall
March to May 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)	728.1	594	884	693	55/106	81/11/8 (9.0)	Near-Consistent
Lautoka Mill (1900-2016)	727.6	480	679	572	84/116	85/9/6 (11.8)	Inconsistent
Nadi Airport (1942-2016)	844.6	508	664	579	60/73	78/19/3 (14.4)	Inconsistent
Yasawa-i-rara (1950-2016)	364.5	457	643	541	12/64	72/22/6 (7.6)	Consistent
Central Division							
Laucala Bay (Suva) (1942-2016)	632.4	819	1054	910	9/75	45/37/18 (0.2)	Consistent
Nausori Airport (1957-2016)	691.0	805	1032	916	8/60	48/28/24 (-0.9)	Consistent
Tokotoko (Navua) (1945-2016)	881.0	941	1167	1060	18/72	52/18/30 (-0.5)	Near-Consistent
Eastern Division							
Lakeba, Lau (1950-2016)	405.9	541	720	626	12/66	69/16/15 (4.2)	Consistent
Vunisea (Kadavu) (1931-2016)	569.9	611	761	697	19/79	71/17/12 (5.5)	Consistent
Ono-i-lau (1943-2016)	689.3	441	643	510	50/67	58/34/8 (6.8)	Inconsistent
Northern Division							
Labasa Airport (1956-2016)	835.9	558	839	692	40/61	53/31/16 (1.9)	Near-Consistent
Nabouwalu (1918-2016)	714.6	669	907	759	43/98	72/18/10 (6.6)	Near-Consistent
Rotuma (1912-2016)	873.0	820	1041	957	41/102	35/28/37 (-1.8)	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
July to September 2016 – Tercile Method**

Predictors and Period used: NINO3.4 SST Anomalies: March to May 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)	58	149	29	233	13	4.6	43.1
Lautoka Mill (1900-2016)	67	123	17	220	16	5.7	39.4
Nadi Airport (1942-2016)	73	130	14	211	13	7.9	28.8
Yasawa-i-rara (1950-2016)	70	121	18	216	12	7.0	37.1
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2016)	64	384	18	565	18	3.5	24.2
Nausori Airport (1957-2016)	41	367	37	532	22	-0.5	40.7
Tokotoko (Navua) (1945-2016)	64	524	23	684	13	5.1	40.0
<i>Eastern Division</i>							
Lakeba (1950-2016)	44	206	39	319	17	1.0	29.2
Vunisea (Kadavu) (1931- 2016)	45	273	35	382	20	0.7	24.6
Ono-i-lau (1943-2016)	59	251	22	346	19	2.3	41.9
<i>Northern Division</i>							
Labasa Airport (1956- 2016)	55	107	34	197	11	5.0	40.7
Nabouwalu (1918-2016)	60	212	34	367	6	9.8	38.1
Rotuma (1912 -2016)	33	576	30	769	37	-2.1	21.5

Seasonal Climate Outlook:

July to September 2016 - Median Table:

Predictors and Period used: NINO3.4 SST Anomalies: March to May 2016

Station	Below Median (prob)	Median rainfall (mm)	Above Median (prob)	LEPS	Hit-rate
<i>Western Division</i>					
Penang Mill (1910-2016)	76	195	24	4.1	55.4
Lautoka Mill (1900-2016)	70	171	30	1.5	51.5
Nadi Airport (1942-2016)	79	175	21	6.1	56.1
Yasawa-i-rara (1950-2016)	81	141	19	7.9	64.5
<i>Central Division</i>					
Laucala Bay (Suva) (163.6942-2016)	72	461	28	2.7	54.5
Nausori Airport (1957-2016)	65	438	35	0.6	47.5
Tokotoko (Navua) (1945-2016)	80	622	20	7.3	60.0
<i>Eastern Division</i>					
Lakeba (1950-2016)	59	240	41	-0.6	47.7
Vunisea (Kadavu) (1931-2016)	69	332	31	1.5	52.3
Ono-i-lau (1943-2016)	67	292	33	1.0	58.1
<i>Northern Division</i>					
Labasa Airport (1956-2016)	75	155	25	4.0	57.6
Nabouwalu (1918-2016)	89	280	11	14.3	63.5
Rotuma (1912 -2016)	42	655	58	-1.5	41.5

TABLE 4: Seasonal Climate Outlooks using POAMA2 for July to September 2016

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)
Lakeba	49	174.0	30	303.0	21
Nadi	52	142	33	198	15
Nabouwalu	49	183	30	297	21
Udu Point	58	151	30	295	12
Vunisea	52	298	33	413	15
Suva	52	369	33	602	15
Rotuma	33	573	21	784	45

Summary Statements

Rainfall for May 2016:

Rainfall during May was *normal* across the Central Division and at Ono-I-Lau in the Eastern Division while the rest of the site recorded *below normal* rainfall.

It was driest May on record at Labasa Airport (61 years of record) and second driest at Yasawa-i-Rara (64 years of record).

Accumulated rainfall for March to May 2016 & outlook verification:

Rainfall over the last three months varied from *below normal* to *above normal*. *Below normal* rainfall was registered at Yasawa, Lakeba, Vunisea and all 3 sites in the Central Division. *Normal* rainfall was recorded at both the stations in the Northern Division, and as well as at Penang and Rotuma. Lautoka, Nadi and Ono-i-Lau received *above normal* rainfall.

Verification of the 3-month rainfall

The forecasts for March to May 2016 period were consistent at 5 sites, near-consistent at 5 and inconsistent at 3.

Outlooks for July to September 2016:

1. SCOPIC:

The seasonal rainfall outlook for July to September 2016 shows:

- *Below normal* rainfall is most likely across the country, with *normal* the next likely outcome;
- The outlook for Rotuma is unclear with almost equal chances of *below normal*, *normal* and *above normal* rainfall.
- The outlook confidences generally range from *very low* to *moderate*.

2. POAMA:

POAMA model favours *below normal* rainfall at all sites except for Rotuma where *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: $X \geq 35$