

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

| Station (include data period) | | | September 2014 | | | | |
|--------------------------------|-----------------|-------------------|----------------|-----------------------|-----------------------|----------------------|---------|
| | July 2014 Total | August 2014 Total | Total | 33%tile Rainfall (mm) | 67%tile Rainfall (mm) | Median Rainfall (mm) | Ranking |
| Western Division | | | | | | | |
| Penang Mill (1910-2014) | 26.7 | 16.2 | 0.4 | 42.0 | 105.6 | 68.8 | 1/104 |
| Lautoka Mill (1900-2014) | 0.8 | 0.0 | 22.6 | 33.4 | 83.2 | 52.9 | 30/115 |
| Nadi Airport (1942-2014) | 13.3 | 0.0 | 7.6 | 36.6 | 95.1 | 63.1 | 6/73 |
| Yasawa-i-rara (1950-2014) | 9.7 | 3.8 | 7.7 | 38.0 | 95.0 | 62.0 | 5/62 |
| Central Division | | | | | | | |
| Laucala Bay (Suva) (1942-2014) | 105.9 | 39.0 | 39.3 | 123.5 | 225.9 | 161.8 | 4/73 |
| Nausori Airport (1957-2014) | 118.5 | 47.5 | 92.4 | 110.2 | 210.1 | 149.6 | 15/58 |
| Tokotoko (Navua) (1945-2014) | 136.4 | 88.6 | 38.4 | 159.0 | 294.3 | 218.8 | 3/70 |
| Eastern Division | | | | | | | |
| Lakeba (1950-2014) | 80.1 | 9.2 | 58.0 | 69.8 | 124.1 | 93.4 | 18/66 |
| Vunisea (Kadavu) (1931-2014) | 73.9 | 34.0 | 85.8 | 78.7 | 152.4 | 111.5 | 30/79 |
| Ono-i-lau (1943-2014) | 82.5 | 43.1 | 20.8 | 71.1 | 122.9 | 95.7 | 6/67 |
| Northern Division | | | | | | | |
| Labasa Airport (1956-2014) | 4.1 | 1.0 | 8.7 | 38.1 | 85.6 | 64.3 | 7/58 |
| Nabouwalu (1918-2014) | 49.4 | 42.7 | Missing | 82.5 | 155.6 | 106.2 | Missing |
| Rotuma (1912-2014) | 144.7 | 193.0 | 93.5 | 180.5 | 242.3 | 210.9 | 7/100 |

Period: *below normal/normal/above normal

**TABLE 2: Three-monthly Rainfall
July to September 2014
Predictors and Period used: SST 1 & 9 (March to May 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 or Inconsistent) |
|--------------------------------|-------------------|-----------------------|-----------------------|----------------------|--------------|---------------------------------|---|
| Western Division | | | | | | | |
| Penang Mill (1910-2014) | 43.3 | 153.0 | 233.5 | 198.0 | 2/104 | 28:33:39 (-1.3) | In-consistent |
| Lautoka Mill (1900-2014) | 23.4 | 126.7 | 221.4 | 172.9 | 2/115 | 25:18:57 (3.4) | Inconsistent |
| Nadi Airport (1942-2014) | 20.9 | 132.3 | 214.0 | 175.5 | 2/73 | 20:23:57 (4.2) | Inconsistent |
| Yasawa-i-rara (1950-2014) | 21.2 | 125.1 | 227.0 | 153.6 | 1/61 | 21:26:53 (3.4) | Inconsistent |
| Central Division | | | | | | | |
| Laucala Bay (Suva) (1942-2014) | 184.2 | 394.8 | 566.7 | 472.6 | 3/73 | 34:24:42 (-3.1) | Inconsistent |
| Nausori Airport (1957-2014) | 258.4 | 369.6 | 532.1 | 445.9 | 6/58 | 27::18:55 (-1.3) | Inconsistent |
| Tokotoko (Navua) (1945-2014) | 263.4 | 534.5 | 694.7 | 629.3 | 4/69 | 32:26:42 (-2.3) | Inconsistent |
| Eastern Division | | | | | | | |
| Lakeba, Lau (1950-2014) | 147.3 | 209.4 | 326.3 | 249.4 | 13/64 | 22:30:48 (2.8) | Inconsistent |
| Vunisea (Kadavu) (1931-2014) | 193.7 | 273.0 | 381.8 | 338.9 | 14/78 | 16:61:23 (-1.7) | Near-consistent |
| Ono-i-lau (1943-2014) | 146.4 | 251.9 | 347.3 | 293.7 | 8/67 | 27:38:35 (-2.3) | Near-consistent |
| Northern Division | | | | | | | |
| Labasa Airport (1956-2014) | 13.8 | 116.1 | 203.5 | 160.3 | 1/58 | 15:40:45 (3.4) | Inconsistent |
| Nabouwalu (1918-2014) | Missing | 212.0 | 367.0 | 279.8 | Missing | 22:42:36 (3.9) | Missing |
| Rotuma (1912-2014) | 431.2 | 576.5 | 775.2 | 656.9 | 19/100 | 34:44:22 (-2.1) | 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
November 2014 to January 2015**

Predictors and Period used: NINO 3.4 (July to September 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) | 34 | 567.8 | 36 | 821.8 | 30 | 17.2 | 55.7 |
| Lautoka Mill (1900-2014) | 32 | 416.2 | 43 | 694.9 | 25 | 32.3 | 60.9 |
| Nadi Airport (1942-2014) | 35 | 428.9 | 42 | 750.3 | 23 | 35.7 | 67.2 |
| Yasawa-i-rara (1950-2014) | 35 | 395.5 | 43 | 637.0 | 22 | 32.2 | 50.8 |
| <i>Central Division</i> | | | | | | | |
| Laucala Bay (Suva) (1942-2014) | 35 | 683.3 | 35 | 1030.6 | 30 | 1.4 | 34.4 |
| Nausori Airport (1957-2014) | 36 | 742.5 | 36 | 1001.1 | 28 | 9.4 | 41.4 |
| Tokotoko (Navua) (1945- 2014) | 35 | 865.3 | 33 | 1114.7 | 32 | 4.7 | 42.9 |
| <i>Eastern Division</i> | | | | | | | |
| Lakeba (1950-2014) | 37 | 461.1 | 37 | 671.7 | 26 | 11.4 | 50.0 |
| Vunisea (Kadavu) (1931- 2014) | 35 | 446.7 | 35 | 636.1 | 30 | 11.6 | 51.6 |
| Ono-i-lau (1943-2014) | 35 | 356.8 | 43 | 515.4 | 22 | 30.2 | 59.0 |
| <i>Northern Division</i> | | | | | | | |
| Labasa Airport (1956- 2014) | 34 | 599.2 | 42 | 948.9 | 22 | 28.2 | 51.9 |
| Nabouwalu (1918-2014) | 37 | 649.7 | 40 | 890.2 | 23 | 26.4 | 53.1 |
| | | | | | | | |
| Rotuma (1912 -2014) | 36 | 900.3 | 34 | 1080.7 | 30 | 7.8 | 40.6 |

Seasonal Climate Outlook:

November 2014 to January 2015 - Median Table:

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

| Station | Below Median (prob) | Median rainfall (mm) | Above Median (prob) | LEPS | Hit-rate |
|---------------------------------|---------------------------|----------------------------|---------------------------|------|----------|
| <i>Western Division</i> | | | | | |
| Penang Mill (1910-2014) | 54 | 683.5 | 46 | 22.2 | 67.2 |
| Lautoka Mill (1900-2014) | 55 | 562.1 | 45 | 34.4 | 76.6 |
| Nadi Airport (1942-2014) | 60 | 661.6 | 40 | 35.8 | 79.7 |
| Yasawa-i-rara (1950-2014) | 62 | 506.0 | 38 | 41.6 | 82.0 |
| | | | | | |
| <i>Central Division</i> | | | | | |
| Laucala Bay (Suva) (1942-2014) | 53 | 849.8 | 47 | 5.4 | 65.6 |
| Nausori Airport (1957-2014) | 53 | 846.4 | 47 | 7.0 | 62.1 |
| Tokotoko (Navua) (1945-2014) | 51 | 933.5 | 49 | 0.1 | 61.9 |
| | | | | | |
| <i>Eastern Division</i> | | | | | |
| Lakeba (1950-2014) | 55 | 584.2 | 45 | 10.1 | 62.5 |
| Vunisea (Kadavu) (1931-2014) | 54 | 526.2 | 46 | 9.7 | 68.8 |
| Ono-i-lau (1943-2014) | 53 | 448.8 | 47 | 9.1 | 67.2 |
| | | | | | |
| <i>Northern Division</i> | | | | | |
| Labasa Airport (1956-2014) | 54 | 681.3 | 46 | 37.3 | 75.9 |
| Nabouwalu (1918-2014) | 58 | 759.8 | 42 | 23.8 | 70.3 |
| | | | | | |
| Rotuma (1912 -2014) | 54 | 1005.0 | 46 | 4.7 | 56.3 |

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for
November 2014 to January 2015**

| Station | Lower Tercile (prob) | 33%ile rainfall (mm) | Middle Tercile (prob) | 66%ile rainfall (mm) | Upper Tercile (prob) |
|--------------|----------------------|----------------------|-----------------------|----------------------|----------------------|
| Nadi Airport | 49 | 305 | 30 | 410 | 21 |
| Suva | 48 | 505 | 30 | 763 | 21 |
| Udu Point | 39 | 437 | 36 | 605 | 24 |
| Rotuma | 30 | 828 | 27 | 1026 | 42 |

Summary Statements

Rainfall for September 2014:

Rainfall during September was generally *below normal* across the country. The only exception to this was Vunisea, which received *normal* rainfall.

Rainfall at Penang Mill ranked lowest in its historical record, with third lowest at Tokotoko (Navua), fourth lowest at Laucala Bay (Suva) and fifth lowest at Yasawa-i-Rara.

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

Rainfall over the last three months was *below normal* right across the country, including Rotuma.

The total three months rainfall across the Western Division ranked in the lowest 2 of the historical record, with Labasa Airport in the Northern Division having lowest on record, and Laucala Bay (Suva) and Tokotoko (Navua) in the Central Division having 3rd and 4th lowest, respectively.

The SCOPIC forecasts for the last three months were near-consistent at 5 stations and inconsistent at 7. None of the station had consistent forecast.

All the 26 stations in Fiji's National Climate Monitoring Network are currently in drought on a 3 month timescale and 23 out of the 26 stations are in drought on a 6 month timescale.

Outlooks for November 2014 to January 2015:

1. SCOPIC:

The seasonal rainfall outlook for November 2014 to January 2015 shows:

- *Normal* is the most likely outcome for Lautoka Mill, Nadi Airport, Yasawa-i-rara, Ono-i-lau and Labasa Airport, with *below normal* the next most likely;
- The outlooks for Lakeba and Nabouwalu show a near equal likelihood of *below normal* and *normal* rainfall; and
- The outlook offers little guidance for Penang Mill, Vunisea (Kadavu), Rotuma and all the stations in the Central Division as the chances of *above normal*, *normal* and *below-normal* rainfall are similar.

The historical accuracy of outlooks is generally *good* to *very high* over most of the places at this time of the year. The exception to this is Central Division and Rotuma where accuracy is *low* to *moderate*.

2. POAMA:

POAMA model favours *below normal* rainfall at Nadi Airport and Laucala Bay (Suva), while the outlook for Udu Point show a near equal likelihood of *below normal* and *normal* rainfall. POAMA favours *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: $X \geq 35$