

Country Name: Fiji

TABLE 1: Monthly Rainfall

| Station (include data period)  |                    |                     | MARCH 2017 |                       |                       |                      |         |
|--------------------------------|--------------------|---------------------|------------|-----------------------|-----------------------|----------------------|---------|
|                                | January 2017 Total | February 2017 Total | Total      | 33%tile Rainfall (mm) | 67%tile Rainfall (mm) | Median Rainfall (mm) | Ranking |
| <b>Western Division</b>        |                    |                     |            |                       |                       |                      |         |
| Penang Mill (1910-2017)        | 170.9              | 512.7               | 440.0      | 265                   | 441                   | 362                  | 70/108  |
| Lautoka Mill (1900-2017)       | 182.4              | 697.0               | 369.8      | 209                   | 382                   | 284                  | 75/117  |
| Nadi Airport (1942-2017)       | 314.1              | 786.6               | 509.8      | 238                   | 396                   | 317                  | 63/74   |
| Viwa (1978 -2017)              | 208.8              | 410.1               | 285.5      | 167                   | 288                   | 222                  | 23/35   |
| <b>Central Division</b>        |                    |                     |            |                       |                       |                      |         |
| Laucala Bay (Suva) (1942-2017) | 305.1              | 351.3               | 383.0      | 297                   | 434                   | 343                  | 45/76   |
| Nausori Airport (1957-2017)    | 296.4              | 433.8               | 312.8      | 297                   | 443                   | 363                  | 22/61   |
| Tokotoko (Navua) (1945-2017)   | 343.7              | 562.8               | 623.9      | 317                   | 439                   | 380                  | 64/73   |
| <b>Eastern Division</b>        |                    |                     |            |                       |                       |                      |         |
| Lakeba (1950-2017)             | 228.8              | 525.1               | 175.1      | 212                   | 332                   | 260                  | 10/67   |
| Vunisea (Kadavu) (1931-2017)   | 392.8              | 474.0               | 302.6      | 213                   | 303                   | 270                  | 54/81   |
| Ono-i-Lau (1943-2017)          | 148.9              | 590.9               | 143.4      | 166                   | 294                   | 206                  | 19/70   |
| <b>Northern Division</b>       |                    |                     |            |                       |                       |                      |         |
| Udu Point (1946-2017)          | 217.9              | 494.0               | 296.0      | 252                   | 368                   | 301                  | 35/70   |
| Nabouwalu (1918-2017)          | 292.2              | 626.4               | 590.6      | 243                   | 370                   | 296                  | 95/100  |
|                                |                    |                     |            |                       |                       |                      |         |
| Rotuma (1912-2017)             | Missing            | Missing             | 327.8      | 251                   | 421                   | 327                  | 54/104  |

Period: \*below normal/normal/above normal

M - Missing

**TABLE 2: Three-monthly Rainfall  
January to March 2017**

**Predictors and Period used: NINO3.4 SST Anomalies: September to November 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) |
|--------------------------------|-------------------|-----------------------|-----------------------|----------------------|---------|---------------------------------|---|
| <b>Western Division</b>        |                   |                       |                       |                      |         |                                 |   |
| Penang Mill (1910-2017)        | <b>1123.6</b>     | 925                   | 1186                  | 1067                 | 62/108  | 7:40: <b>53</b> (31.1)          | Near-consistent   |
| Lautoka Mill (1900-2017)       | <b>1249.2</b>     | 794                   | 1064                  | 946                  | 96/117  | 15:35: <b>50</b> (23.0)         | Consistent  |
| Nadi Airport (1942-2017)       | <b>1610.5</b>     | 809                   | 1087                  | 937                  | 70/74   | 19:34: <b>47</b> (19.3)         | Consistent  |
| Yasawa-i-rara (1950-2016)      | -                 | 619                   | 898                   | 741                  | -       | 9:42: <b>49</b> (30.6)          | -   |
| <b>Central Division</b>        |                   |                       |                       |                      |         |                                 |   |
| Laucala Bay (Suva) (1942-2017) | <b>1039.4</b>     | 840                   | 1086                  | 1008                 | 42/76   | 31:32: <b>37</b> (-0.1)         | Near-consistent   |
| Nausori Airport (1957-2017)    | <b>1043.0</b>     | 877                   | 1077                  | 956                  | 38/61   | 31: <b>35:34</b> (-1.4)         | Consistent  |
| Tokotoko (Navua) (1945-2017)   | <b>1530.4</b>     | 922                   | 1246                  | 1084                 | 68/73   | 30: <b>39:31</b> (-0.9)         | Near-consistent   |
| <b>Eastern Division</b>        |                   |                       |                       |                      |         |                                 |   |
| Lakeba, Lau (1950-2017)        | <b>929.0</b>      | 639                   | 880                   | 753                  | 49/67   | 19:32: <b>49</b> (19.6)         | Consistent  |
| Vunisea (Kadavu) (1931-2017)   | <b>1169.4</b>     | 615                   | 834                   | 738                  | 78/81   | 26: <b>37:37</b> (0.6)          | Near-consistent   |
| Ono-i-lau (1943-2017)          | <b>883.2</b>      | 490                   | 684                   | 595                  | 59/69   | 27:34: <b>39</b> (1.5)          | Consistent  |
| <b>Northern Division</b>       |                   |                       |                       |                      |         |                                 |   |
| Labasa Airport (1956-2016)     | <b>1609.4</b>     | 973                   | 1296                  | 1117                 | 55/61   | 16:41: <b>43</b> (14.8)         | Consistent  |
| Rotuma (1912-2017)             | -                 | 930                   | 1161                  | 1044                 | -       | 18:38: <b>44</b> (16.7)         | -   |

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  
May to July 2017 – Tercile Method**

**Predictors and Period used: NINO3.4 SST Anomalies: February to March 2017**

| 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 (1910-2017)        | 31                  | 179                  | 36            | 297                  | 33                  | 11.6     | 52.2         |
| Lautoka Mill (1900-2017)       | 30                  | 152                  | 37            | 235                  | 33                  | 18.0     | 62.1         |
| Nadi Airport (1942-2017)       | 31                  | 141                  | 36            | 245                  | 33                  | 11.3     | 58.3         |
| Viwa (1978 -2017)              | 23                  | 174                  | <b>39</b>     | 255                  | <b>38</b>           | 17.9     | 63.6         |
| <i>Central Division</i>        |                     |                      |               |                      |                     |          |              |
| Laucala Bay (Suva) (1942-2017) | 30                  | 437                  | 37            | 612                  | 33                  | 14.6     | 50.0         |
| Nausori Airport (1957-2017)    | 26                  | 427                  | <b>40</b>     | 583                  | 34                  | 21.4     | 58.3         |
| Tokotoko (Navua) (1945-2017)   | 31                  | 557                  | 39            | 753                  | 30                  | 18.3     | 56.0         |
| <i>Eastern Division</i>        |                     |                      |               |                      |                     |          |              |
| Lakeba (1950-2017)             | 25                  | 252                  | <b>39</b>     | 364                  | <b>36</b>           | 21.0     | 59.3         |
| Vunisea (Kadavu) (1931-2017)   | 33                  | 322                  | 34            | 429                  | 33                  | 4.7      | 42.9         |
| Ono-i-Lau (1943-2017)          | 28                  | 223                  | 38            | 371                  | 34                  | 17.3     | 62.5         |
| <i>Northern Division</i>       |                     |                      |               |                      |                     |          |              |
| Udu Point (1946-2017)          | 31                  | 302                  | 35            | 468                  | 34                  | 5.9      | 43.3         |
| Nabouwalu (1918-2017)          | 28                  | 320                  | 38            | 444                  | 34                  | 21.7     | 59.3         |
| <i>Rotuma</i>                  |                     |                      |               |                      |                     |          |              |
| Rotuma (1912 -2017)            | 33                  | 689                  | 34            | 872                  | 33                  | -1.6     | 38.7         |

**Seasonal Climate Outlook:  
May to July 2017 - Median Table:**

**Predictors and Period used: NINO3.4 SST Anomalies: February to March 2017**

| Station                         | Below<br>Median<br>(prob) | Median<br>rainfall<br>(mm) | Above<br>Median<br>(prob) | LEPS | Hit-rate |
|---------------------------------|---------------------------|----------------------------|---------------------------|------|----------|
| <b><i>Western Division</i></b>  |                           |                            |                           |      |          |
| Penang Mill (1910-2017)         | 50                        | 251                        | 50                        | 10.1 | 61.2     |
| Lautoka Mill (1900-2017)        | 51                        | 196                        | 49                        | 16.1 | 68.7     |
| Nadi Airport (1942-2017)        | 50                        | 184                        | 50                        | 18.0 | 68.7     |
| Viwa (1978 -2017)               | 45                        | 200                        | 55                        | 14.1 | 67.6     |
| <b><i>Central Division</i></b>  |                           |                            |                           |      |          |
| Laucala Bay (Suva) (1942-2017)  | 49                        | 506                        | 51                        | 17.5 | 61.2     |
| Nausori Airport (1957-2017)     | 47                        | 509                        | 53                        | 29.5 | 71.7     |
| Tokotoko (Navua) (1945-2017)    | 50                        | 649                        | 50                        | 14.2 | 62.7     |
| <b><i>Eastern Division</i></b>  |                           |                            |                           |      |          |
| Lakeba (1950-2017)              | 49                        | 319                        | 51                        | 9.1  | 54.5     |
| Vunisea (Kadavu) (1931-2017)    | 50                        | 377                        | 50                        | 0.4  | 54.5     |
| Ono-i-Lau (1943-2017)           | 49                        | 303                        | 51                        | 12.1 | 67.7     |
| <b><i>Northern Division</i></b> |                           |                            |                           |      |          |
| Udu Point (1946-2017)           | 49                        | 362                        | 51                        | 8.4  | 57.8     |
| Nabouwalu (1918-2017)           | 51                        | 366                        | 49                        | 16.2 | 69.7     |
| <b><i>Northern Division</i></b> |                           |                            |                           |      |          |
| Rotuma (1912 -2017)             | 50                        | 786                        | 50                        | -0.2 | 52.3     |

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for  
May to July 2017**

| Station   | Lower Tercile (prob) | 33%ile rainfall (mm) | Middle Tercile (prob) | 66%ile rainfall (mm) | Upper Tercile (prob) |
|-----------|----------------------|----------------------|-----------------------|----------------------|----------------------|
| Lakeba    | 52                   | 214                  | 42                    | 368                  | 6                    |
| Nadi      | 67                   | 149                  | 28                    | 206                  | 5                    |
| Nabouwalu | 67                   | 240                  | 21                    | 393                  | 12                   |
| Udu Point | 58                   | 215                  | 30                    | 355                  | 12                   |
| Vunisea   | 67                   | 358                  | 28                    | 422                  | 5                    |
| Suva      | 67                   | 415                  | 28                    | 560                  | 5                    |
| Rotuma    | 70                   | 758                  | 9                     | 863                  | 21                   |

### Summary Statements

#### **Rainfall for March 2017:**

*Below normal to normal* rainfall was recorded in the Eastern Division while the rest of the stations recorded *normal to above normal* rainfall.

#### **Accumulated rainfall for January to March 2017 & outlook verification:**

The accumulated rainfall over January to March 2017 ranged from *normal to above normal* across the country.

#### **Verification of the 3-month rainfall**

For the January to March 2017 period, the rainfall outlooks were consistent at six of the twelve sites, near-consistent at four sites, while the outlook for two stations could not be verified due to missing records.

#### **Outlooks for May to July 2017:**

##### **1. SCOPIC:**

The SCOPIC rainfall outlook for May to July 2017:

- There is no clear guidance for most parts of the country as the chances of *below normal*, *normal* and *above normal* rainfall are quite close.
- The exception to the above is Nausori Airport, where *normal* rainfall is most likely, followed by *above normal* rainfall.

##### **2. POAMA**

POAMA model favours below-normal rainfall across the country through the May to July 2017 period.

**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:  $X \geq 35$