

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

Station (include data period)	December 2014						
	October 2014 Total	November 2014 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
<b>Western Division</b>							
Penang Mill (1910-2014)	98.5	64.8	455.9	141.1	268.7	212	90/102
Lautoka Mill (1900-2014)	29.6	88.4	136.2	108.1	212.4	151.6	51/115
Nadi Airport (1942-2014)	36.8	90.3	123.9	118.8	234.3	181.3	29/73
Yasawa-i-rara (1950-2014)	101.5	25.7	81.1	100.7	184.3	145.2	17/62
<b>Central Division</b>							
Laucala Bay (Suva) (1942-2014)	219.4	63.5	579.8	205.0	309.1	251.9	73/73
Nausori Airport (1957-2014)	225.9	96.9	732.6	213.8	307.2	242.3	59/59
Tokotoko (Navua) (1945-2014)	505.0	292.3	418.0	213.2	381.2	272.9	49/69
<b>Eastern Division</b>							
Lakeba (1950-2014)	70.6	159.8	88.9	136.2	209.5	168.5	15/66
Vunisea (Kadavu) (1931-2014)	345.0	85.6	222.1	104.0	176.3	139.6	57/79
Ono-i-lau (1943-2014)	51.9	108.2	1.7	84.7	172.9	117.1	1/69
<b>Northern Division</b>							
Labasa Airport (1956-2014)	135.8	60.2	94.8	151.0	281.2	213.3	10/59
Nabouwalu (1918-2014)	Missing	79.5	280.4	177.1	308.9	242.4	57/96
Rotuma (1912-2014)	244.6	248.1	330.3	242.6	376.2	307.8	58/101

Period: \*below normal/normal/above normal

**TABLE 2: Three-monthly Rainfall  
October to December 2014  
Predictors and Period used: NINO 3.4 (June to August 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)
<b>Western Division</b>							
Penang Mill (1910-2014)	<b>619.2</b>	350.6	569.7	461.0	74/100	<b>41:34:25</b> (13.9)	Inconsistent
Lautoka Mill (1900-2014)	<b>254.2</b>	277.9	448.1	358.3	31/115	<b>42:37:21</b> (19.1)	Consistent
Nadi Airport (1942-2014)	<b>251.0</b>	326.6	487.3	381.3	17/172	<b>42:36:22</b> (18.6)	Consistent
Yasawa-i-rara (1950-2014)	<b>208.3</b>	267.8	434.0	361.0	13/62	<b>42:38:20</b> (19.3)	Consistent
<b>Central Division</b>							
Laucala Bay (Suva) (1942-2014)	<b>862.7</b>	539.3	831.6	698.5	52/73	<b>38:33:29</b> (2.1)	Inconsistent
Nausori Airport (1957-2014)	<b>1055.4</b>	544.4	807.2	680.1	48/58	<b>38:33:29</b> (4.7)	Inconsistent
Tokotoko (Navua) (1945-2014)	<b>1215.3</b>	754.9	1018.7	872.7	60/69	<b>38:37:25</b> (6.5)	Inconsistent
<b>Eastern Division</b>							
Lakeba, Lau (1950-2014)	<b>319.3</b>	334.7	532.0	415.4	21/66	<b>40:33:27</b> (8.6)	Consistent
Vunisea (Kadavu) (1931-2014)	<b>652.7</b>	306.9	502.8	409.0	68/78	<b>39:38:23</b> (9.9)	Inconsistent
Ono-i-lau (1943-2014)	<b>161.8</b>	226.7	411.7	357.3	14/69	<b>43:36:21</b> (22.6)	Consistent
<b>Northern Division</b>							
Labasa Airport (1956-2014)	<b>290.8</b>	365.1	628.7	486.9	11/56	<b>40:40:20</b> (21.9)	Near-consistent
Nabouwalu (1918-2014)	<b>M</b>	446.3	719.9	546.9	50/96	<b>41:38:21</b> (16.7)	M
Rotuma (1912-2014)	<b>823.0</b>	837.4	1057.0	946.7	34/100	<b>35:32:33</b> (-1.1)	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  
February to April 2015**

**Predictors and Period used: NINO 3.4 (October to December 2014)**

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS (%)	Hit-rate (%)
<b>Western Division</b>							
Penang Mill (1910-2014)	45	828.2	33	1099.2	22	9.8	57.1
Lautoka Mill (1900-2014)	45	681.3	32	921.2	23	8.0	43.8
Nadi Airport (1942-2014)	49	662.9	36	908.9	15	18.9	54.7
Yasawa-i-rara (1950-2014)	50	567.3	27	834.5	23	12.6	53.2
<b>Central Division</b>							
Laucala Bay (Suva) (1942-2014)	34	883.8	29	1119.2	37	-1.3	37.5
Nausori Airport (1957-2014)	31	893.8	30	1047.4	39	0.4	53.4
Tokotoko (Navua) (1945-2014)	31	1007.3	29	1217.8	40	0.8	28.1
<b>Eastern Division</b>							
Lakeba (1950-2014)	46	641.1	29	824.6	25	6.1	28.6
Vunisea (Kadavu) (1931-2014)	45	640.5	29	827.0	26	6.6	47.6
Ono-i-lau (1943-2014)	41	476.1	35	707.8	24	4.4	43.1
<b>Northern Division</b>							
Labasa Airport (1956-2014)	42	798.4	31	1120.8	27	4.2	45.8
Nabouwalu (1918-2014)	43	775.1	39	1031.7	18	10.0	50
Rotuma (1912 -2014)	38	897.9	35	1081.7	27	0.9	32.8

## Seasonal Climate Outlook:

### February to April 2015- Median Table:

Predictors and Period used: NINO 3.4(October to December2014)

Station	Below Median (prob)	Median rainfall (mm)	Above Median (prob)	LEPS	Hit-rate
<b>Western Division</b>					
Penang Mill (1910-2014)	63	992.8	37	8.4	61.9
Lautoka Mill (1900-2014)	65	809.0	35	10.9	59.4
NadiAirport (1942-2014)	63	792.5	37	9.1	62.5
Yasawa-i-rara (1950-2014)	65	662.7	35	11.9	64.5
<b>Central Division</b>					
Laucala Bay (Suva) (1942-2014)	49	947.0	51	-1.4	56.3
Nausori Airport(1957-2014)	47	966.4	53	-0.6	56.9
Tokotoko (Navua) (1945-2014)	44	1116.1	56	0.9	56.3
<b>Eastern Division</b>					
Lakeba (1950-2014)	60	698.9	40	5.6	60.3
Vunisea (Kadavu) (1931-2014)	59	735.4	41	3.9	60.3
Ono-i-lau (1943-2014)	61	589	39	6.3	63.8
<b>Northern Division</b>					
Labasa Airport (1956-2014)	62	1019.2	38	8.4	62.7
Nabouwalu (1918-2014)	62	879.2	38	6.5	60.9
Rotuma (1912 -2014)	57	1001	43	1.9	50

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for February to April 2015**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)
Nadi Airport	<b>40</b>	657	36	856	24
Suva	<b>40</b>	852	36	983	24
Udu Point	<b>40</b>	709	30	928	30
Rotuma	30	845	33	1046	<b>37</b>

### Summary Statements

#### **Rainfall for December 2014:**

Rainfall during December was *above normal* at the Central Division, Penang in the Western Division and Vunisea (Kadavu) in the Eastern Division. *Normal* rainfall were recorded at Lautoka and Nadi in the Western Division, Nabouwalu in the Northern Division and Rotuma. *Below normal* rainfall were recorded at Yasawa, Lakeba and Ono I Lau in the Eastern Division, as well as Labasa Airport in the Northern Division.

Laucala Bay (Suva) and Nausori Airport in the Central Division recorded their highest ever December rainfall, while Ono-i-Lau recorded its lowest ever December rainfall last year.

#### **Accumulated rainfall October to December 2014, including outlook verification:**

Rainfall over the last three months was *above normal* at the Central Division, Penang in the Western Division and Vunisea (Kadavu) in the Eastern Division, while the rest of the stations recorded *below normal* rainfall.

The SCOPIC forecasts for the last three months were consistent at 6 stations, 1 near-consistent, 5 inconsistent and forecast for Nabouwalu could not be verified due to missing records.

Nadi Airport, Labasa Airport, Lautoka, Yasawa and Rotuma continue to be in meteorological drought, using 3 months time scale. Apart from Penang, majority of the stations are still in meteorological drought using 6 months time scale.

#### **Outlooks for February to April 2015:**

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

The seasonal rainfall outlook for February to April 2015 shows:

- *Below normal* is the most likely outcome for the Western Division, Northern Division and Eastern Division,
- In the Central Division *above normal* rainfall is the most likely outcome for Tokotoko and Nausori Airport, there is no clear guidance for Laucala Bay.

The confidences of the forecasts were generally moderate to good. The Central Division and Rotuma had *very low* forecast confidence.

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

POAMA model favours *below normal* rainfall at Udu Point, Nadi Airport and Laucala Bay (Suva) and *normal to above normal* 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:  $X \geq 35$