

Country Name: Fiji

TABLE 1: Monthly Rainfall

Station (include data period)			OCTOBER 2015				
	AUGUST 2015 Total	SEPTEMBER 2015 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
<b>Western Division</b>							
Penang Mill (1910-2015)	53.0	81.2	<b>34.7</b>	45.8	112.0	74.0	25/106
Lautoka Mill (1900-2015)	50.3	43.4	<b>18.5</b>	38.0	107.1	64.3	18/116
Nadi Airport (1942-2015)	49.9	63.0	<b>24.5</b>	39.9	104.5	61.9	13/74
Yasawa-i-rara (1950-2015)	44.5	34.5	<b>34.6</b>	49.1	110.0	76.8	18/65
<b>Central Division</b>							
Laucala Bay (Suva) (1942-2015)	132.5	127.9	<b>98.3</b>	127.0	217.4	167.8	16/74
Nausori Airport (1957-2015)	138.3	172.8	<b>122.9</b>	129.2	224.2	149.7	19/59
Tokotoko (Navua) (1945-2015)	165.9	188.7	<b>128.8</b>	195.0	324.0	250.3	7/71
<b>Eastern Division</b>							
Lakeba (1950-2015)	95.7	52.9	<b>12.5</b>	63.9	141.3	84.9	4/67
Vunisea (Kadavu) (1931-2015)	135.0	M	<b>128.5</b>	69.6	145.8	116.7	45/79
Ono-i-lau (1943-2015)	103.9	110.8	<b>9.0</b>	41.1	103.6	73.0	4/70
<b>Northern Division</b>							
Labasa Airport (1956-2015)	49.4	27.8	<b>69.2</b>	71.3	132.4	96.7	20/58
Nabouwalu (1918-2015)	112.8	M	<b>M</b>	88.4	186.8	129.7	
Rotuma (1912-2015)	269.0	108.6	<b>156.4</b>	244.6	342.6	285.7	12/101

Period: \*below normal/normal/above normal

M - Missing

**TABLE 2: Three-monthly Rainfall  
August to October 2015  
Predictors and Period used: NIÑO 3.4 (April to June 2015)**

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)
<i>Western Division</i>							
Penang Mill (1910-2015)	<b>168.9</b>	245.2	362.9	293.7	31/105	66:30:4 (15.7)	<b>Consistent</b>
Lautoka Mill (1900-2015)	<b>112.2</b>	184.5	324.8	264.7	18/116	67:29:4 (17)	<b>Consistent</b>
Nadi Airport (1942-2015)	<b>137.4</b>	239.7	343.5	296.8	18/74	85:14:1 (28.3)	<b>Consistent</b>
Yasawa-i-rara (1950-2015)	<b>113.6</b>	195.8	352.2	268.7	14/62	56:41:3 (12.6)	<b>Consistent</b>
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2015)	<b>358.7</b>	461.9	754.6	626.9	22/74	73:18:9 (8.1)	<b>Consistent</b>
Nausori Airport (1957-2015)	<b>434.0</b>	438.0	713.6	597.3	21/59	64:28:8 (9.7)	<b>Consistent</b>
Tokotoko (Navua) (1945-2015)	<b>483.4</b>	648.5	936.8	779.1	14/70	74:24:2 (22.6)	<b>Consistent</b>
<i>Eastern Division</i>							
Lakeba, Lau (1950-2015)	<b>161.1</b>	289.7	399.2	331.2	10/67	71:21:8 (11.3)	<b>Consistent</b>
Vunisea (Kadavu) (1931-2015)	<b>M</b>	310.2	440.4	388.2	-	78:15:7 (14.8)	-
Ono-i-lau (1943-2015)	<b>223.7</b>	207.9	358.9	293.1	20/68	75:20:5 (13.5)	<b>Near-Consistent</b>
<i>Northern Division</i>							
Labasa Airport (1956-2015)	<b>146.4</b>	263.0	386.8	311.7	13/57	69:28:3 (17.4)	<b>Consistent</b>
Nabouwalu (1918-2015)	<b>M</b>	352.3	541.0	424.0	-	88:9:3 (22.2)	-
Rotuma (1912-2015)	<b>534</b>	724.7	936.6	845.5	17/100	35:15:50 (-1.1)	<b>Inconsistent</b>

\* 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  
December 2015 to February 2016 – Tercile Method**

**Predictors and Period used: NINO 3.4 (August \_October 2015)**

<b>Station</b>	<b>Below Normal (prob)</b>	<b>33%ile rainfall (mm)</b>	<b>Normal (prob)</b>	<b>66%ile rainfall (mm)</b>	<b>Above Normal (prob)</b>	<b>LEPS (%)</b>	<b>Hit-rate (%)</b>
<b><i>Western Division</i></b>							
Penang Mill (1910-2015)	<b>66</b>	778.3	32	1069.5	2	17.3	49.2
Lautoka Mill (1900-2015)	<b>85</b>	609.5	14	923.5	1	28.0	50.8
Nadi Airport (1942-2015)	<b>88</b>	633.6	11	907.3	1	24.0	49.2
Yasawa-i-rara (1950-2015)	<b>90</b>	497.7	10	781.1	0	40.2	58.1
<b><i>Central Division</i></b>							
Laucala Bay (Suva) (1942-2015)	<b>59</b>	781.7	25	1024.7	16	2.4	41.5
Nausori Airport (1957-2015)	<b>42</b>	781.8	26	1000.6	32	-1.6	20.3
Tokotoko (Navua) (1945- 2015)	28	883.6	<b>40</b>	1135.4	32	-1.7	31.3
<b><i>Eastern Division</i></b>							
Lakeba (1950-2015)	<b>84</b>	575.8	15	750.9	1	26.3	55.4
Vunisea (Kadavu) (1931- 2015)	<b>74</b>	498.2	16	716.4	10	7.9	46.2
Ono-i-lau (1943-2015)	<b>64</b>	439.1	24	589	12	4.7	45.2
<b><i>Northern Division</i></b>							
Labasa Airport (1956- 2015)	<b>81</b>	810.0	18	1122.9	1	28.1	51.7
Nabouwalu (1918-2015)	<b>87</b>	774.7	12	1023.7	1	22.0	50.8
Rotuma (1912 -2015)	<b>69</b>	903.0	29	1099.1	2	16.1	36.9

## Seasonal Climate Outlook:

### December 2015 to February 2016 - Median Table:

Predictors and Period used: NINO 3.4 (August to October 2015)

Station	Below Median (prob)	Median rainfall (mm)	Above Median (prob)	LEPS	Hit-rate
<b><i>Western Division</i></b>					
Penang Mill (1910-2015)	<b>90</b>	881.0	10	14.7	69.8
Lautoka Mill (1900-2015)	<b>89</b>	773.9	11	14.9	69.2
Nadi Airport (1942-2015)	<b>97</b>	834.3	3	28.3	75.4
Yasawa-i-rara (1950-2015)	<b>99</b>	682.4	1	41.1	82.3
<b><i>Central Division<sup>59</sup></i></b>					
Laucala Bay (Suva) (1942-2015)	<b>59</b>	873.6	41	-1.0	50.8
Nausori Airport(1957-2015)	<b>63</b>	829.2	37	-0.6	54.2
Tokotoko (Navua) (1945-2015)	<b>56</b>	994.0	44	-1.2	48.4
<b><i>Eastern Division</i></b>					
Lakeba (1950-2015)	<b>94</b>	655.6	6	21.1	67.7
Vunisea (Kadavu) (1931-2015)	<b>87</b>	614.5	13	12.8	69.2
Ono-i-lau (1943-2015)	<b>85</b>	505.9	15	8.9	61.3
<b><i>Northern Division</i></b>					
Labasa Airport (1956-2015)	<b>98</b>	918.3	2	32.0	74.1
Nabouwalu (1918-2015)	<b>95</b>	887.5	5	22.0	69.2
Rotuma (1912 -2015)	<b>95</b>	998.0	5	20.9	66.2

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for  
December 2015 to February 2016**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)
Lakeba	91	508	5	701	4
Nadi	94	597	5	860	0
Nabouwalu	94	679	5	885	1
Udu Point	95	680	5	927	0
Vunisea	94	496	5	669	1
Suva	94	739	5	956	1
Rotuma	95	817	5	1018	0

### **Summary Statements**

#### **Rainfall for September 2015:**

Rainfall during September 2015 was *below normal* at majority of the stations. The exception to this was at Vunisea, with *normal* rainfall.

#### **Accumulated rainfall for August to October 2015 and outlook verification:**

Rainfall over the above period was *below normal* at most of the stations except Ono-i-Lau in the Eastern Division that recorded *normal* rainfall.

SCOPIC forecasts for the August to October 2015 period were consistent at nine out of 13 sites, 1 near consistent, 1 inconsistent and forecast could not be verified for two sites due to missing observation.

#### **Outlooks for November 2015 to January 2016:**

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

The seasonal rainfall outlook for December 2015 to February 2016 favours *below normal* rainfall across the Western, Eastern, Northern Division and at Rotuma, while *normal to below normal* rainfall is favoured for Central Divisions. Confidence is very low for the Central Division and generally *moderate to high* confidence for the rest of the divisions with Rotuma.

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

POAMA model favors *below normal* rainfall favoured across the country.

**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:  $X \geq 35$