

Country Name: Fiji

TABLE 1: Monthly Rainfall

Station (include data period)			January 2018				
	November 2017 Total	December 2017 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
<i>Western Division</i>							
Penang Mill (1910-2017)	187.2	134.1	393.6	228.6	388.4	296.4	73/109
Lautoka Mill (1900-2017)	131.0	187.3	268.7	172.2	364.6	258.5	79/118
Nadi Airport (1942-2017)	138.8	202.4	335.2	220.1	354.7	298.5	50/77
Viwa (1978 -2017)	-	88.6	191.0	105.6	312.7	206.2	17/37
<i>Central Division</i>							
Laucala Bay (Suva) (1942-2017)	661.5	411.3	265.2	252.6	378.5	311.2	31/77
Nausori Airport (1957-2017)	487.4	340.7	413.8	261.0	383.6	312.5	46/62
Tokotoko (Navua) (1945-2017)	871.5	347.9	355.9	273.9	412.5	342.8	38/73
<i>Eastern Division</i>							
Lakeba (1950-2017)	381.5	114.2	152.3	173.0	305.8	242.2	19/68
Vunisea (Kadavu) (1931-2017)	555.6	172.4	167.7	167.6	280.8	227.8	29/83
Ono-i-Lau (1943-2017)	174.6	124.0	272.9	124.3	223.0	180.0	57/71
<i>Northern Division</i>							
Labasa Airport (1946-2017)	267.1	213.0	166.8	242.2	464.2	382.3	12/61
Savusavu Airfield (1956-2017)	235.5	197.2	157.7	204.8	319.0	254.1	16/59
Rotuma (1912-2017)	369.3	192.0	267.0	286.3	409.2	336.9	33/106

Period: \*below normal/normal/above normal

M - Missing

**TABLE 2: Three-monthly Rainfall  
November 2017 to January 2018**

**Predictors and Period used: NINO3.4 SST Anomalies: August to September 2017**

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>714.9</b>	567.8	821.8	682.8	58/103	22/ <b>40</b> /38 (18.4)	Consistent
Lautoka Mill (1900-2017)	<b>587.0</b>	416.2	689.4	559.0	78/118	18/ <b>44</b> /38 (33.3)	Consistent
Nadi Airport (1942-2017)	<b>676.4</b>	428.9	746.8	656.2	39/75	23/ <b>42</b> /35 (31.0)	Consistent
Viwa (1978 -2017)	Missing	317.4	625.6	471.8	N/A	17/41/42 (31.8)	-
<b>Central Division</b>							
Laucala Bay (Suva) (1942-2017)	<b>1338.0</b>	683.8	1030.6	850.1	71/76	32/ <b>34</b> / <b>34</b> (3.4)	Near Consistent
Nausori Airport (1957-2017)	<b>1241.9</b>	742.5	1010.6	850.4	55/62	29/ <b>36</b> /35 (10.7)	Near Consistent
Tokotoko (Navua) (1945-2017)	<b>1575.3</b>	856.8	1124.5	928.6	67/71	30/ <b>35</b> / <b>35</b> (5.3)	Near Consistent
<b>Eastern Division</b>							
Lakeba, Lau (1950-2017)	<b>648.0</b>	461.1	671.7	575.8	43/68	30/ <b>37</b> /33 (17.3)	Consistent
Vunisea (Kadavu) (1931-2017)	<b>895.7</b>	444.0	637.8	526.2	72/80	29/ <b>36</b> /35 (11.9)	Near Consistent
Ono-i-lau (1943-2017)	<b>571.5</b>	328.1	515.4	448.6	54/68	22/ <b>43</b> /35 (31.7)	Near Consistent
<b>Northern Division</b>							
Labasa Airport (1956-2017)	<b>646.9</b>	571.0	928.6	666.6	24/56	21/ <b>40</b> /39 (30.2)	Consistent
Savusavu Airfield (1956-2017)	<b>590.4</b>	559.9	745.0	663.9	23/58	29/ <b>36</b> /35 (11.0)	Consistent
Rotuma (1912-2017)	<b>828.3</b>	898.7	1078.5	984.4	27/102	29/ <b>36</b> /35 (9.8)	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  
March to May 2018– Tercile Method**

**Predictors and Period used: NINO3.4 SST Anomalies: December 2017 to January 2018**

<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 (1910-2017)	16	595.5	40	872.5	<b>44</b>	9.3	50.8
Lautoka Mill (1900-2017)	18	479.2	<b>41</b>	680.6	<b>42</b>	7.4	38.8
Nadi Airport (1942-2017)	16	788.0	38	646.2	<b>46</b>	10.0	53.4
Viwa (1978 -2017)	8	462.8	33	666.9	<b>60</b>	30.5	57.1
<b><i>Central Division</i></b>							
Laucala Bay (Suva) (1942-2017)	29	814.8	33	1038.4	<b>38</b>	0.5	38.8
Nausori Airport (1957-2017)	29	802.9	34	1023.5	<b>37</b>	-1.3	19.7
Tokotoko (Navua) (1945-2017)	27	936.8	<b>39</b>	1163.8	34	0.1	37.9
<b><i>Eastern Division</i></b>							
Lakeba (1950-2017)	22	640.5	<b>39</b>	719.6	<b>39</b>	4.7	29.7
Vunisea (Kadavu) (1931-2017)	19	609.1	39	761.1	<b>42</b>	8.5	43.1
Ono-i-Lau (1943-2017)	26	432.8	33	643.3	<b>40</b>	2.5	41.0
<b><i>Northern Division</i></b>							
Labasa Airport (1956-2017)	28	561.3	34	843.7	<b>38</b>	0.5	37.7
Savusavu Airfield (1956-2017)	22	566.3	37	749.0	<b>42</b>	5.8	47.5
<b><i>Rotuma</i></b>							
Rotuma (1912 -2017)	<b>34</b>	814.9	<b>33</b>	1041.0	<b>33</b>	-1.6	9.1

## Seasonal Climate Outlook:

### March to May 2018 - Median Table:

Predictors and Period used: NINO3.4 SST Anomalies: December 2017 to January 2018

Station	Below Median (prob)	Median rainfall (mm)	Above Median (prob)	LEPS (%)	Hit-rate (%)
<i>Western Division</i>					
Penang Mill (1910-2017)	35	692.7	<b>65</b>	10.4	60.0
Lautoka Mill (1900-2017)	38	571.6	<b>62</b>	7.5	65.7
Nadi Airport (1942-2017)	41	566.3	<b>59</b>	4.4	62.1
Viwa (1978 -2017)	16	563.1	<b>84</b>	37.3	74.3
<i>Central Division</i>					
Laucala Bay (Suva) (1942-2017)	47	909.5	<b>53</b>	-0.9	50.7
Nausori Airport (1957-2017)	44	899.6	<b>56</b>	1.0	52.5
Tokotoko (Navua) (1945-2017)	45	1029.9	<b>55</b>	0.3	53.0
<i>Eastern Division</i>					
Lakeba (1950-2017)	42	625.5	<b>58</b>	2.3	59.4
Vunisea (Kadavu) (1931-2017)	41	697.4	<b>59</b>	4.4	63.1
Ono-i-Lau (1943-2017)	38	513.2	<b>62</b>	6.5	67.2
<i>Northern Division</i>					
Labasa Airport (1956-2017)	47	691.3	<b>53</b>	-1.2	52.5
Savusavu Airfield (1956-2017)	39	663.8	<b>61</b>	7.0	64.4
<i>Rotuma</i>					
Rotuma (1912 -2017)	<b>52</b>	957.0	48	-1.2	50.0

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for  
March to May 2018**

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)
Lakeba	<b>43</b>	448	24	732	33
Nadi	<b>43</b>	469	21	647	36
Nabouwalu	33	623	<b>40</b>	885	27
Udu Point	<b>43</b>	590	33	807	24
Vunisea	<b>43</b>	636	21	756	36
Suva	<b>43</b>	807	21	971	36
Rotuma	<b>46</b>	836	24	1043	30

### **Summary Statements**

#### **Rainfall for January 2018:**

*Normal to above normal* rainfall was recorded across the Western Division, Central Division and in the Eastern Division with exception of Lakeba where *below normal* rainfall was recorded. Northern Division and Rotuma recorded *below normal* rainfall.

#### **Accumulated rainfall for November 2017 to January 2018 & outlook verification:**

*Normal to above normal* rainfall was recorded across the country, except for Rotuma, which recorded *below normal* rainfall.

The rainfall outlooks were consistent at six sites, near- consistent at six of the sites and the forecast for Viwa could not be verified due to missing observations.

#### **Outlooks for March to May 2018:**

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

The SCOPIC rainfall outlook for March to May 2018 shows:

- **Western/Eastern/Northern Divisions:** the outlook shows *above normal* as the most likely outcome with *normal* the next most likely. *Below normal* is the least likely;
- **Laucala Bay, Nausori Airport, Labasa and Rotuma:** the outlook offers little guidance as the chances of *above normal*, *normal* and *below normal* are similar.

*Moderate to high confidence in the Western Division, low to moderate confidence in the Eastern, very low to low in the Central Division, low in the Northern Division and very low at Rotuma.*

##### **POAMA**

The POAMA outlook shows:

- *Below normal* rainfall is the favoured outcome across the Fiji Group except for Nabouwalu with normal rainfall.

**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:  $X \geq 35$