

## Pacific Islands - Online Climate Outlook Forum (OCOF) No. 86

**Country Name: SAMOA**

### TABLE 1: Monthly Rainfall

| Station (include data period) | October 2014      |                      |       |                       |                       |                      |         |
|-------------------------------|-------------------|----------------------|-------|-----------------------|-----------------------|----------------------|---------|
|                               | August 2014 Total | September 2014 Total | Total | 33%tile Rainfall (mm) | 67%tile Rainfall (mm) | Median Rainfall (mm) | Ranking |
| <b>Afiamalu</b>               | 188.2             | 107.6                | 189.7 | 230.6                 | 393.9                 | 318.9                | 17/58   |
| <b>Nafanua</b>                | 62.7              | 69.8                 | 175.4 | 171.1                 | 317.3                 | 243.7                | 16/45   |
| <b>Apia</b>                   | 48.5              | 54.5                 | 169.9 | 141.2                 | 248.6                 | 175.5                | 40/92   |
| <b>Faleolo</b>                | 100.3             | 50.4                 | 143.5 | 123.0                 | 203.8                 | 155.2                | 21/45   |

### TABLE 2: Three-monthly Rainfall August to October 2014

[Please note that the data used in this verification should be sourced from table 3 of OCOF #82]

| Station         | Three-month Total | 33%tile Rainfall (mm) | 67%tile Rainfall (mm) | Median Rainfall (mm) | Ranking | Forecast probs.* (include LEPS) | Verification* (Consistent, Near-consistent, Inconsistent?) |
|-----------------|-------------------|-----------------------|-----------------------|----------------------|---------|---------------------------------|--|
| <b>Afiamalu</b> | 485.5             | 550.7                 | 820.5                 | 691.0                | 16/55   | 31/31/38 (1.0)                  | <b>Inconsistent</b>  |
| <b>Nafanua</b>  | 307.9             | 480.7                 | 641.1                 | 572.6                | 11/44   | 34/33/33 (-2.5)                 | <b>Near Consistent</b>                                     |
| <b>Apia</b>     | 272.9             | 369.3                 | 529.6                 | 440.3                | 20/91   | 25/38/37 (4.4)                  | <b>Near Consistent</b>                                     |
| <b>Faleolo</b>  | 294.2             | 281.9                 | 422.4                 | 363.6                | 18/44   | 26/38/36 (1.8)                  | <b>Consistent</b>  |

Period: \*below normal/normal/above normal

**Predictors and Period used for August to October 2014 Outlooks (refer to OCOF #82):  
SOI Values from April to June 2014**

\* 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  
December 2014 to February 2015**

**Predictors and Period used: Nino 3.4 Values of August to October 2014**

| Station         | <b>Below<br/>Median<br/>(prob)</b> | Median<br>Rainfall<br>(mm) | <b>Above<br/>Median<br/>(prob)</b> |  | <b>LEPS</b> | <b>Hit-rate</b> |
|-----------------|------------------------------------|----------------------------|------------------------------------|--|-------------|-----------------|
| <b>Afiamalu</b> | 60                                 | 1924.8                     | 40                                 |  | 16.4        | 68.8            |
| <b>Nafanua</b>  | 60                                 | 1257.3                     | 40                                 |  | 19.6        | 74.1            |
| <b>Apia</b>     | 57                                 | 1069.6                     | 43                                 |  | 6.8         | 59.4            |
| <b>Faleolo</b>  | 57                                 | 869.0                      | 43                                 |  | 4.3         | 59.3            |

| Station         | <b>Below<br/>Normal<br/>(prob)</b> | 33%ile<br>rainfall<br>(mm) | <b>Normal<br/>(prob)</b> | 66%ile<br>rainfall<br>(mm) | <b>Above<br/>Normal<br/>(prob)</b> | <b>LEPS</b> | <b>Hit-rate</b> |
|-----------------|------------------------------------|----------------------------|--------------------------|----------------------------|------------------------------------|-------------|-----------------|
| <b>Afiamalu</b> | 40                                 | 1621.3                     | 40                       | 2195.6                     | 20                                 | 11.5        | 40.6            |
| <b>Nafanua</b>  | <b>40</b>                          | 1078.3                     | 39                       | 1535.8                     | 21                                 | 17.5        | 44.4            |
| <b>Apia</b>     | <b>39</b>                          | 898.9                      | 32                       | 1240.3                     | 29                                 | 10.4        | 43.8            |
| <b>Faleolo</b>  | <b>36</b>                          | 713.9                      | 35                       | 960.6                      | 29                                 | -1.4        | 33.3            |

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for  
December 2014 to February 2015**

| Station | Lower Tercile (prob) | 33%ile rainfall (mm) | Middle Tercile (prob) | 66%ile rainfall (mm) | Upper Tercile (prob) |  |  |
|---------|----------------------|----------------------|-----------------------|----------------------|----------------------|--|--|
| Apia    | 33                   | 892                  | 44                    | 1361                 | 24                   |  |  |

### Summary Statements

#### **Rainfall for October 2014:**

'Normal' rainfall registered for Nafanua, Apia and Faleolo while Afiamalu station recorded '**below normal**' rainfall.

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

Afiamalu, Nafanua and Apia stations registered '**below normal**' rainfall while Faleolo station received '**normal**' in August to October 2014 period.

Nafanua and Apia three-month rainfall was '**near consistent**' with the August to October outlook. Faleolo was '**consistent**' and Afiamalu recorded '**inconsistent**'.

#### **Outlooks for December 2014 to February 2015:**

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

- For Nafanua and Afiamalu stations there is a near equal likelihood of '**below normal**' or '**normal**' rainfall with '**above normal**' the least likely.
- The outlook for Apia and Faleolo stations show similar chances of '**below normal**', '**normal**' and '**above normal**' rainfall.
- The confidence of the model outlook is '**good**' for Afiamalu and Apia stations. '**high**' at Nafanua and '**very low**' at Faleolo station.

##### **2. POAMA: 'Normal' rainfall is favoured for Apia for December 2014 to February 2015 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:  $X \geq 35$