

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 88

Country Name: Samoa

TABLE 1: Monthly Rainfall

Station (include data period)	December 2015						
	October 2014 Total	November 2014 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Afiamalu	189.7	612.6	426.4	397.7	634.8	519.3	21/58
Nafanua	175.4	321.9	171.0	293.2	442.8	385.8	10/44
Apia	169.0	387.5	190.1	270.2	400.3	349.2	22/92
Faleolo	143.5	324.8	378.5	191.9	294.2	231.8	38/43

**TABLE 2: Three-monthly Rainfall
October to December 2014**

[Please note that the data used in this verification should be sourced from table 3 of OCOF #84]

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?)
Afiamalu	1228.7	1098.1	1386.8	1249.3	27/57	38/38/24 (5.2)	Near consistent
Nafanua	668.3	762.7	965.8	899.4	11/43	39/40/21 (7.9)	Near consistent
Apia	746.6	684.2	892.0	811.1	40/92	38/34/28 (5.4)	Near consistent
Faleolo	846.8	542.9	654.9	576.6	38/43	39/39/22 (4.7)	Near consistent

Period: *below normal/normal/above normal

**Predictors and Period used for October to December 2014 Outlooks (refer to OCOF #84):
Nino3.4 value from June to August 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 February to April 2015

Predictors and Period used: Nino3.4 value from October to December 2014.

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Afiamalu	49	1419.2	51		-3.2%	59.4%
Nafanua	51	983.6	49		-3.5%	39.3%
Apia	57	865.1	43		2.1%	62.5%
Faleolo	40	633.9	60		5.1%	67.9%

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Afiamalu	37	1231.8	30	1549.2	33	-3.4%	31.3%
Nafanua	40	922.3	25	1082.2	35	0.2%	42.9%
Apia	40	776.1	34	958.2	26	2.8%	37.5%
Faleolo	28	578.4	30	719.3	42	4.1%	39.3%

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)		
Apia	30	795	43	1108	27		

Summary Statements

Rainfall for December 2014: “**Below normal**” was recorded at Nafanua and Apia. “**Normal**” rainfall recorded at Afiamalu whereas “**above normal**” rainfall received at Faleolo station.

Accumulated rainfall for October to December 2014, including outlook verification:

Afiamalu and Apia stations recorded “**normal**” rainfall. “**Below normal**” rainfall registered at Nafanua whereas “**above normal**” rainfall received at Faleolo station.

“**Near consistent**” forecast was issued for all stations.

Outlooks for February to April 2015:

1. SCOPIC:

-The outlook for Afiamalu shows the most likely outcome is “**below normal**” with “**above normal**” the next most likely.

-The outlook for Nafanua shows the most likely outcome is “**below normal**” with “**above normal**” the next most likely.

-“**Below normal**” rainfall is the most likely outcome for Apia station with “**normal**” the next most likely.

-“**Above normal**” rainfall is the most likely outcome for Faleolo station with “**normal**” the next most likely.

-The confidence of the model is “**very low**” to “**low**” for all stations.

2. POAMA:

“**Normal**” is the most likely outcome for Apia for the period February to April 2015.

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: $X \geq 35$