

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 76

Country Name: Samoa

TABLE 1: Monthly Rainfall

Station (include data period)			December 2013				
	October 2013 Total	November 2013 Total	Total	33%tile Rainfall (mm)	67%tile Rainfall (mm)	Median Rainfall (mm)	Ranking
Afiamalu (1967-2013)	244.4	400.2	631.4	422.7	670.0	523.6	37/60
Nafanua (1965-2013)	152.1	215.7	536.0	320.1	451.9	329.8	33/40
Apia (1890-2013)	159.1	162.9	497.8	276.9	425.6	364.0	94/124
Faleolo (1957-2013)	100.9	241.8	374.8	202.3	301.0	249.7	44/52

**TABLE 2: Three-monthly Rainfall
October to December 2013**

[Please note that the data used in this verification should be sourced from table 3 of OCOF #72]

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	1276	1111.4	1505.1	1244.6	32/57	22/35/43 (5.1)	Near Consistent
Nafanua	903.8	776.6	1036.9	903.3	20/39	18/30/52 (13.6)	Near Consistent
Apia	819.8	711.9	905.2	817.7	64/124	24/32/44 (6.7)	Near Consistent
Faleolo	717.5	528.9	674.7	602.5	37/51	24/28/48 (5.3)	Consistent

Period: *below normal/normal/above normal

Predictors and Period used for October to December 2013 Outlooks (refer to OCOF #72):
SOI Values from June to August 2013

* 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 2014**

Predictors and Period used: SOI values from Oct – Dec 2013

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS	Hit-rate
Afiamalu	50	1416.2	50		-1.8%	30.4%
Nafanua	48	1056.2	52		2.6%	53.7%
Apia	48	924.8	52		1.5%	53.2%
Faleolo	51	625.4	49		-1.6%	51.9%

Station	Below Normal (prob)	33%ile rainfall (mm)	Normal (prob)	66%ile rainfall (mm)	Above Normal (prob)	LEPS	Hit-rate
Afiamalu	31	1155.3	35	1549.2	34	-0.6%	33.9%
Nafanua	31	928.9	35	1127.4	34	-0.3%	26.8%
Apia	31	802.3	34	1017.0	35	1.0%	33.9%
Faleolo	34	587.3	33	687.1	33	-2.2%	40.4%

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

Station	Lower Tercile (prob)	33%ile rainfall (mm)	Middle Tercile (prob)	66%ile rainfall (mm)	Upper Tercile (prob)		
Apia	45	795	30	1108	25		

Summary Statements

Rainfall for December 2013: 'Above normal' rainfall was recorded at Apia, Faleolo and Nafanua. "Normal" rainfall was recorded at Afiamalu climate station.

Accumulated rainfall for October–December 2013, including outlook verification:

The 3-monthly total rainfall was 'Normal' for 3/4 stations namely Apia, Afiamalu and Nafanua. Faleolo station registered "Above normal" rainfall for the above mentioned period.

"Consistent" forecast was issued for Faleolo station. The prediction issued for Apia, Afiamalu and Nafanua stations was "Near Consistent".

Outlooks for February-April 2014:

- 1. SCOPIC:** For the above period,
'Above-normal' rainfall is forecast for Apia station.
'Normal' rainfall is forecast for Afiamalu and Nafanua Station
'Climatology' is forecast for Faleolo station.

- 2. POAMA:** 'Below-normal' is forecast for February - April 2014 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: $X \geq 35$