

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 134

Country: Samoa

TABLE 1: Monthly Rainfall

Station (include data period)	Aug-2018	Sep-2018	Oct-2018				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Apia (1890-2018)	74.0	113.7	199.9	144.6	233.4	181.0	74/129
Afiamalu (1903-2018)	259.3	109.3	464.1	245.5	415.2	336.5	50/67
Nafanua (1965-2018)	155.0	84.1	276.6	175.4	344.4	237.9	29/47
Faleolo (1956-2018)	39.5	22.1	99.9	128.2	192.4	157.8	13/57

TABLE 2: Three-month Rainfall for August to October 2018

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities* based on Nino3.4 May-June 2018				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Apia (1890-2018)	387.6	Normal	366.0	529.4	439.2	47/129	34	32	34	4	Near-consistent
Afiamalu (1903-2018)	832.7	Above normal	596.2	831.8	720.7	44/64	34	34	32	0	Near-consistent
Nafanua (1965-2018)	515.7	Normal	464.8	603.1	549.1	22/46	34	34	32	-2	Near-Consistent
Faleolo (1956-2018)	161.5	Below normal	282.1	422.1	363.5	8/55	34	34	32	6	Near-Consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for December 2018 to February 2019
Predictor and Period used: Nino3.4 for September to October 2018

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Apia (1890-2018)	68	1140.5	32		12	58
Afiamalu (1903-2018)	66	1929.4	34		9	63
Nafanua (1965-2018)	73	1328.8	27		23	66
Faleolo (1956-2018)	62	865.6	38		3	60

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)	LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Apia (1890-2018)	52	1019.3	30	1321.3	18	13	48
Afiamalu (1903-2018)	45	1622.2	40	2255.4	15	14	51
Nafanua (1965-2018)	65	1183.8	17	1677.0	18	28	51
Faleolo (1956-2018)	42	764.5	31	926.2	27	2	38

TABLE 4: Seasonal Climate Outlooks using POAMA2 for December 2018 to February 2019

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Apia	33	935.0	24	1213.0	43

Summary Statements

Rainfall for October 2018:

Apia and Nafanua observed *'normal'* rainfall. Afiamalu received *'above normal'* whereas Faleolo registered *'below normal'* rainfall.

Accumulated rainfall for August to October 2018, including outlook verification:

Rainfall over the last three months was *'normal'* at Apia and Nafanua, while Afiamalu registered *'above normal'* with *'below normal'* at Faleolo station. The outlook was verified to be *'near consistent'* for all stations.

Outlooks for December 2018 to February 2019:

1. SCOPIC:

The outlook for Apia and Nafanua favours **'below normal'** rainfall. At Afiamalu and Faleolo the outlook shows **'below normal'** as the most likely outcome with **'normal'** the next most likely. **'Above normal'** is the least most likely.

The confidence of the models prediction is **'good'** at Apia and Afiamalu, **'very high'** for Nafanua and **'low'** at Faleolo station.

2. POAMA:

'Above normal' rainfall is favoured for Apia station for the upcoming season.

Stakeholder Engagement- Evaluations of how effective NMS engage with stakeholders

Country	Date: October 2018	Stakeholder	Total Number of Participants	Number of male	Number of female
Samoa	26 th October	Disaster Advisory Committee (DAC) includes all stakeholders – Agriculture, Tourism, Works & Infrastructure, Forestry,	30	20	10
	31st October	Health, Tourism, Works, Maritime, Fisheries, Forestry, Agriculture, Farmers Association, Media	150	X	X

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: $X \geq 35$