

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 136

Country: Samoa

TABLE 1: Monthly Rainfall

Station (include data period)	Oct-2018	Nov-2018	Dec-2018				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Apia (1890-2018)	199.9	112.3	507.6	280.4	432.0	372.0	97/128
Afiamalu (1903-2018)	464.1	286.9	810.2	441.5	669.1	534.0	51/66
Nafanua (1965-2018)	276.6	184.5	521.7	339.8	496.3	406.0	33/44
Faleolo (1956-2018)	99.9	233.1	381.9	211.8	315.0	268.0	45/57

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

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities* based on NINO3.4 July-August 2018				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Apia (1890-2018)	819.8	Normal	718.2	914.2	819.3	65/128	38	34	28	4	Near- consistent
Afiamalu (1903-2018)	1561.2	Above normal	1161.7	1463.6	1271.6	45/65	38	31	31	6	Near- consistent
Nafanua (1965-2018)	982.8	Normal	786.5	1060.5	926.6	24/43	37	36	27	10	Near- consistent
Faleolo (1956-2018)	714.9	Normal	553.2	717.5	634.3	37/56	35	36	29	1	Consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for February to April 2019

Predictor and Period used: NINO3.4 for November to December 2018

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Apia (1890-2018)	60	933.0	40		2	59
Afiamalu (1903-2018)	44	1427.0	56		-1	56
Nafanua (1965-2018)	60	1062.8	40		3	63
Faleolo (1956-2018)	43	631.2	57		0	54

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)	43	814.1	27	1022.6	30	1	52
Afiamalu (1903-2018)	35	1268.6	32	1561.9	33	-2	23
Nafanua (1965-2018)	45	917.6	24	1142.5	31	3	39
Faleolo (1956-2018)	30	591.3	36	694.2	34	-2	39

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

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Apia	42	795.0	18	1108.0	40

Summary Statements

Rainfall for December 2018:

Above normal rainfall was recorded for all stations in December.

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

All stations recorded normal rainfall except for Afiamalu which recorded above normal Rainfall

The verification for Apia, Afiamalu and Nafanua was Near-Consistent, whereas Nafanua recorded Consistent.

The Confidence of the model was Low to Moderate.

Outlooks for February to April 2019:

1. SCOPIC:

The Outlook for Apia and Nafanua shows below normal as the most likely outcome, with normal the next most likely. Below normal is the least likely.

For Afiamalu and Faleolo, the outlook offers little guidance as the chances of above normal, normal and below normal are similar.

2. POAMA:

The outlook for February to April is mixed, with similar chances for below normal and above normal totals; near normal is the least likely.

Table: 5 Stakeholder Engagement- Evaluations of how effective NMS engage with stakeholders

Country	Date: December 2018	Stakeholder	Total Number of Participants	Number of male	Number of female
Samoa	19 th	Water Authority(SWA), Tourism Authority (STA), Fire & Emergency Services Authority (FESA), RED Cross, University & College Students	14	11	3

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: $X \geq 35$