

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 144

Country: Samoa

TABLE 1: Monthly Rainfall

Station (include data period)	Jun-2019	Jul-2019	Aug-2019				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Apia (1890-2019)	259.7	370.6	46.9	68.4	158.9	101.4	32/130
Afiamalu (1903-2019)	319.5	497.1	160.4	136.1	225.9	184.0	31/66
Nafanua (1965-2019)	284.3	404.7	27.8	70.5	137.5	92.2	4/48
Faleolo (1956-2019)	219.6	205.0	35.5	57.6	116.1	92.8	13/58

TABLE 2: Three-month Rainfall for June to August 2019

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIIC forecast probabilities based on NINO3.4 March-April 2019				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Apia (1890-2019)	677.2	Above normal	252.8	410.0	344.0	128/130	33	36	31	-1	Near-consistent
Afiamalu (1903-2019)	977.0	Above normal	507.8	669.1	574.8	60/64	48	30	22	2	Inconsistent
Nafanua (1965-2019)	716.8	Above normal	296.6	498.2	403.6	46/48	40	29	31	-2	Inconsistent
Faleolo (1956-2019)	460.1	Above normal	207.8	348.0	287.3	48/56	38	32	30	0	Inconsistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for October to December 2019

Predictor and Period used: NINO3.4 for July to August 2019

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Apia (1890-2019)	56	819.6	44		3	63
Afiamalu (1903-2019)	58	1318.0	42		6	66
Nafanua (1965-2019)	59	944.4	41		17	72
Faleolo (1956-2019)	55	639.4	45		2	68

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 (1890-2019)	38	735.0	36	914.8	26	3	53
Afiamalu (1903-2019)	41	1209.8	29	1498.2	30	6	36
Nafanua (1965-2019)	39	789.1	36	1044.1	25	10	49
Faleolo (1956-2019)	37	563.5	36	716.6	27	1	36

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

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Apia	9	713.0	12	865.0	79

Summary Statements

Rainfall for August 2019:

Below normal rainfall was recorded at most sites, with normal rainfall at Afiamalu the exception.

Accumulated rainfall for June to August 2019, including outlook verification:

Above normal rainfall was received across the island. Nafanua and Apia had their third wettest June to August on record. The outlook was inconsistent at most stations, with a near-consistent at rating at Apia the exception.

Outlooks for October to December 2019:

1. SCOPIC:

The outlook for October to December 2019 for Afiamalu shows below normal as the most likely outcome, with above normal the next most likely.

The outlook for Faleolo and Nafanua shows a near-equal likelihood of below normal and normal rainfall. Above normal is the least most likely.

The outlook for Apia offers little guidance as the chances of above normal, normal and below-normal are similar.

The model confidence is low to good.

2. POAMA:

Above normal rainfall is favoured for Apia in the upcoming season

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: $X \geq 35$

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

Product	Date: August 2019	Stakeholder	Total Number of Participants	Number of male	Number of female
H-CLEWS Workshop	28 th and the 29 th	MOH MNRE	29		
Total			29		