

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 142

Country: Samoa

TABLE 1: Monthly Rainfall

Station (include data period)	Apr-2019	May-2019	Jun-2019				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Apia (1890-2019)	212.9	218.7	259.7	87.4	147.2	114.8	118/130
Afiamalu (1903-2019)	352.8	373.5	319.5	135.9	236.7	166.7	54/66
Nafanua (1965-2019)	192.5	258.2	284.3	102.0	146.3	118.7	45/48
Faleolo (1956-2019)	99.5	227.6	219.6	58.3	111.2	76.8	55/58

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

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 January-February 2019				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Apia (1890-2019)	691.3	Above normal	456.3	649.4	545.0	101/130	37	29	34	-1	Inconsistent
Afiamalu (1903-2019)	1045.8	Above normal	753.7	983.6	857.8	48/65	40	24	36	-1	Inconsistent
Nafanua (1965-2019)	735.0	Normal	516.3	766.3	676.0	26/47	41	23	36	-1	Near-consistent
Faleolo (1956-2019)	546.7	Above normal	343.9	460.3	400.1	45/56	37	31	32	-1	Inconsistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for August to October 2019**Predictor and Period used: NINO3.4 for May to June 2019**

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Apia (1890-2019)	68	438.2	32		7	67
Afiamalu (1903-2019)	56	724.8	44		-1	56
Nafanua (1965-2019)	61	535.1	39		2	61
Faleolo (1956-2019)	66	351.8	34		4	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 (1890-2019)	49	367.6	26	529.1	25	4	39
Afiamalu (1903-2019)	44	603.2	30	832.5	26	2	40
Nafanua (1965-2019)	42	471.8	29	595.2	29	-1	22
Faleolo (1956-2019)	44	281.8	28	421.8	28	1	36

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

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Apia	15	430.0	9	513.0	76

Summary Statements

Rainfall for June 2019:

All stations registered 'above normal' rainfall in June 2019. Nafanua and Faleolo recorded their fourth-wettest June on record.

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

All stations received 'above normal' rainfall except Nafanua which registered 'normal' rainfall. The outlooks for Apia, Afiamalu and Faleolo were verified to be 'inconsistent', while Nafanua's outlook verified as 'near consistent'.

Outlooks for August to October 2019:

1. SCOPIC:

The outlook for all stations in the upcoming season shows 'below normal' as the most likely outcome, with 'normal' the next most likely. The confidence of the model is 'low to very low'.

2. POAMA:

'Above normal' is the most likely outcome 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: June 2019	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Summary	Email, (Website)	RED Cross, Water Authority, Media, Health, Works & Infrastructure, Land & Transport Authority, Agriculture & Fisheries, Fire Services, Ministry of Women, National University of Samoa, Tourism, Foreign Affairs, Communication and Information Technology, Disaster Managers, Marines	65	27	38
EAR Watch	Email, (Website)	Disaster Managers, RED Cross, Water Authority, Ministry of Health	35	25	10
Seasonal Rainfall Outlook	Email, (Website)	RED Cross, Water Authority, Media, Health, Works & Infrastructure, Land & Transport Authority, Agriculture & Fisheries, Fire Services, Ministry of Women, National University of Samoa, Tourism, Foreign Affairs, Communication and Information Technology, Disaster Managers, Marines	65	27	38
Ocean Bulletin	Email, (Website)	Maritime, Shipping Corporation, Fire Emergency Services,	30	15	15
Total			195	94	101