

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 138

Country: Samoa

TABLE 1: Monthly Rainfall

Station (include data period)	Dec-2018	Jan-2019	Feb-2019				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Apia (1890-2019)	507.6	238.7	554.0	270.3	404.0	346.5	115/130
Afiamalu (1903-2019)	810.2	821.1	896.0	401.9	671.3	524.0	57/66
Nafanua (1965-2019)	521.7	359.0	533.2	336.7	468.5	398.5	36/47
Faleolo (1956-2019)	381.9	188.7	501.6	187.4	277.2	235.7	55/58

TABLE 2: Three-month Rainfall for December 2018 to February 2019

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities* based on NINO3.4 September-October 2018				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Apia (1890-2019)	1300.3	Normal	1019.3	1321.3	1140.5	84/128	52	30	18	13	Near-consistent
Afiamalu (1903-2019)	2527.3	Above normal	1622.2	2255.4	1929.4	49/64	45	40	15	14	Inconsistent
Nafanua (1965-2019)	1413.9	Normal	1183.8	1677.0	1328.8	24/42	65	17	18	28	Near-consistent
Faleolo (1956-2019)	1072.2	Above normal	764.9	926.2	865.6	46/56	42	31	27	2	Inconsistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for April to June 2019**Predictor and Period used: NINO3.4 for January to February 2019**

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Apia (1890-2019)	53	545.0	47		-1	59
Afiamalu (1903-2019)	52	857.8	48		-1	56
Nafanua (1965-2019)	55	676.0	45		-1	59
Faleolo (1956-2019)	56	400.1	44		1	64

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)	37	456.3	29	649.4	34	-2	29
Afiamalu (1903-2019)	40	753.7	24	983.6	36	-1	37
Nafanua (1965-2019)	41	516.3	23	766.3	36	1	46
Faleolo (1956-2019)	37	343.9	31	460.3	32	-1	44

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

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Apia	70	486.0	9	628.0	21

Summary Statements

Rainfall for February 2019:

Above normal rainfall was recorded for all stations. Faleolo recorded the 4th wettest February on record.

Accumulated rainfall for December 2018 to February 2019, including outlook verification:

Apia and Nafanua received *normal* rainfall while Afiamalu and Faleolo recorded *above normal*.

The observed rainfall for Apia and Nafanua was *near consistent* with the forecast while *inconsistent* for Afiamalu and Faleolo.

Outlooks for April to June 2019:

1. SCOPIC:

The outlook for Afiamalu and Nafanua shows *below normal* as the most likely outcome, with above normal the next most likely. The outlook for Apia and Faleolo offers little guidance as the chances of *above normal*, *normal* and *below normal* are similar.

2. POAMA:

Below 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

Country	Date: February 2019	Stakeholder	Total Number of Participants	Number of male	Number of female
	Climate Summary for January 2019 (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	35	25	10
	Seasonal Rainfall Outlook for March to May 2019 (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 for March 2019 (Email, Website)	Maritime, Shipping Corporation, Fire Emergency Services,	30	15	15