

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 139

Country: Samoa

TABLE 1: Monthly Rainfall

Station (include data period)	Jan-2019	Feb-2019	Mar-2019				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Apia (1890-2019)	238.7	554.0	59.1	272.3	365.9	308.8	1/130
Afiamalu (1903-2019)	821.1	896.0	137.2	385.1	581.1	487.4	6/67
Nafanua (1965-2019)	359.0	533.2	67.9	301.4	393.7	348.5	1/47
Faleolo (1956-2019)	188.7	501.6	111.8	185.2	245.3	218.2	7/58

TABLE 2: Three-month Rainfall for January to March 2019

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities* based on NINO3.4 October-November 2018				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Apia (1890-2019)	851.8	Below normal	1003.0	1253.7	1124.3	23/130	49	31	20	9	Consistent
Afiamalu (1903-2019)	1854.3	Normal	1559.7	1992.6	1767.1	38/65	38	41	21	2	Consistent
Nafanua (1965-2019)	960.1	Below normal	1094.5	1616.2	1270.2	8/45	60	17	23	15	Consistent
Faleolo (1956-2019)	802.1	Normal	687.7	887.9	780.2	31/58	42	31	27	1	Near- consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for May to July 2019

Predictor and Period used: NINO3.4 for February to March 2019

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Apia (1890-2019)	63	410.2	37		4	55
Afiamalu (1903-2019)	65	732.4	35		5	53
Nafanua (1965-2019)	54	523.6	46		-2	41
Faleolo (1956-2019)	63	311.3	37		3	61

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)	40	333.3	31	485.4	29	-1	29
Afiamalu (1903-2019)	49	621.7	26	833.7	25	3	23
Nafanua (1965-2019)	37	451.1	31	601.6	32	-3	20
Faleolo (1956-2019)	36	274.5	45	382.6	19	2	34

TABLE 4: Seasonal Climate Outlooks using POAMA2 for May to July 2019

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Apia	76	388.0	9	530.0	15

Summary Statements

Rainfall for March 2019:

All stations recorded *Below Normal* rainfall for the month of March. Apia and Nafanua recorded their lowest rainfall on record in March 2019 while Afiamalu and Faleolo recorded 6 and 7 driest March on record.

Accumulated rainfall for January to March 2019, including outlook verification:

Apia and Nafanua stations recorded Below Normal rainfall while Afiamalu and Faleolo stations recorded Normal rainfall. All stations were verified to be consistent except for Faleolo which verified to be near consistent with the forecast.

Outlooks for May to July 2019:

1. SCOPIC:

The Outlook shows Below Normal as the most likely, with Normal the next most likely for Apia and Afiamalu while Faleolo shows normal as the most likely with below the next likely. At Nafanua, the outlook offers little guidance as the chances of above normal, normal and below normal are similar.

2. POAMA:

The outlook favours below normal as the most likely outcome for Apia station 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: March 2019	Stakeholder	Total Number of Participants	Number of male	Number of female
All Bulletins (Consultation)	6 th – 7 th	Health	25	10	15
Climate Summary (Email, Website)	27 th	RED Cross, Water Authority (SWA), 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)	20 th	Disaster Managers, RED Cross, Water Authority	35	25	10
Seasonal Rainfall Outlook for April to June 2019.	28 th	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	25 th	Maritime, Shipping Corporation, Fire Emergency Services,	30	15	15
Total					