

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 141

Country: Samoa

TABLE 1: Monthly Rainfall

Station (include data period)	Mar-2019	Apr-2019	May-2019				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Apia (1890-2019)	59.1	212.9	218.7	127.8	203.7	164.1	89/130
Afiamalu (1903-2019)	137.2	352.8	373.5	232.4	364.3	305.1	46/66
Nafanua (1965-2019)	67.9	192.5	258.2	187.2	262.8	201.4	29/48
Faleolo (1956-2019)	111.8	99.5	235.0	102.2	178.3	138.6	47/58

**TABLE 2: Three-month Rainfall for March to May 2019**

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities* based on NINO3.4 December 18-January 19				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Apia (1890-2019)	490.7	Below normal	665.1	845.6	763.9	15/130	41	22	37	-1	Consistent
Afiamalu (1903-2019)	863.5	Below normal	1022.2	1299.8	1188.6	14/65	31	32	37	-2	Inconsistent
Nafanua (1965-2019)	518.6	Below normal	819.9	1023.9	884.2	5/47	36	24	40	-2	Inconsistent
Faleolo (1956-2019)	446.3	Below normal	491.8	626.6	548.6	14/57	32	34	34	-2	Near-consistent

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

Predictor and Period used: NINO3.4 for April to May 2019

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Apia (1890-2019)	56	343.6	44		-1	49
Afiamalu (1903-2019)	59	587.3	41		0	47
Nafanua (1965-2019)	47	392.5	53		-2	46
Faleolo (1956-2019)	64	261.2	36		2	56

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	251.9	32	423.3	30	-1	20
Afiamalu (1903-2019)	32	504.2	43	669.2	25	-1	40
Nafanua (1965-2019)	36	334.9	32	477.5	32	-3	0
Faleolo (1956-2019)	48	202.6	32	335.3	20	3	39

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

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Apia	30	267.0	6	430.0	64

**Summary Statements****Rainfall for May 2019:**

Above normal rainfall was recorded for all stations except for Nafanua, where normal rainfall was recorded.

**Accumulated rainfall for March to May 2019, including outlook verification:**

All stations recorded below normal rainfall.

The outlook was consistent at Apia but inconsistent at Afiamalu and Nafanua station where above-normal rainfall was forecast as the most likely outcome. Faleolo station was verified to be Near-consistent.

**Outlooks for July to September 2019:****1. SCOPIC:**

The Outlook for Faleolo shows below normal as the most likely, with normal the next most likely.

The outlook for Afiamalu shows normal as the most likely, with below normal the next most likely.

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

**2. POAMA:**

For Apia station, the outlook favours above normal for 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: May 2019	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin	23 <sup>rd</sup> & 24 <sup>th</sup>	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
Monthly Climate Briefing	29 <sup>th</sup>	Ministry of Health	8	3	5
Ocean Bulletin	25 <sup>th</sup> & 26 <sup>th</sup>	Maritime, Shipping Corporation, Fire Emergency Services,	30	15	15
<b>Total</b>			103	45	58