

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 140

Country: Samoa

TABLE 1: Monthly Rainfall

Station (include data period)	Feb-2019	Mar-2019	Apr-2019				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Apia (1890-2019)	554.0	59.1	212.9	181.3	271.2	220.9	61/130
Afiamalu (1903-2019)	896.0	137.2	352.8	276.5	395.9	331.3	36/66
Nafanua (1965-2019)	533.2	67.9	192.5	178.8	313.5	250.6	17/49
Faleolo (1956-2019)	501.6	111.8	99.5	140.5	191.1	159.0	8/58

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

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 November-December 2018				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Apia (1890-2019)	826.0	Normal	814.1	1022.6	933.0	46/130	43	27	30	1	Near-consistent
Afiamalu (1903-2019)	1386.0	Normal	1268.6	1561.9	1427.0	27/64	35	32	33	-2	Near-consistent
Nafanua (1965-2019)	793.6	Below normal	917.6	1142.5	1062.8	6/47	45	24	31	3	Consistent
Faleolo (1956-2019)	712.9	Above normal	591.3	694.2	631.2	40/58	30	36	34	-2	Near-consistent

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

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Apia (1890-2019)	49.2	344.0	50.8		-1	52
Afiamalu (1903-2019)	64.9	574.8	35.1		6	59
Nafanua (1965-2019)	56.9	403.6	43.1		0	55
Faleolo (1956-2019)	56.8	287.3	43.2		0	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)	33	252.8	36	410.0	31	-1	35
Afiamalu (1903-2019)	48	507.8	30	669.1	22	6	49
Nafanua (1965-2019)	40	296.6	29	498.2	31	-1	26
Faleolo (1956-2019)	38	207.8	32	348.0	30	-2	22

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

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Apia	36	272.0	15	395.0	49

Summary Statements

Rainfall for April 2019:

Average rainfall was received for all stations except for Faleolo, where below average rainfall was registered.

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

Below normal rainfall was recorded at Nafanua station, with Apia and Afiamalu recording normal and Faleolo station recording above normal rainfall.

The outlook was Consistent for Nafanua station, while the rest were verified to be Near-consistent with the forecast.

Outlooks for June to August 2019:

1. SCOPIC:

The outlook for Afiamalu and Nafanua shows below-normal rainfall as the most likely outcome, with normal the next most likely at Afiamalu and above-normal the next most likely at Nafanua.

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

2. POAMA:

The outlook for Apia shows above-normal as the most likely outcome, with below-normal the next most likely; near-normal is the least likely outcome for Apia.

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: April 2019	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Bulletin	25 th & 26 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	27 th	Disaster Managers, RED Cross, Water Authority	35	25	10
Monthly Climate Briefing	25 th & 26 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 & 26 th	Maritime, Shipping Corporation,	30	15	15

		Fire Emergency Services,			
Total					