

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 149

Country: Samoa

TABLE 1: Monthly Rainfall

Station (include data period)	Nov-2019	Dec-2019	Jan-2020				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Apia (1890-2020)	174.8	489.1	544.7	340.3	481.1	378.8	103/131
Afiamalu (1903-2020)	402.3	808.5	969.9	567.6	815.8	693.6	52/67
Nafanua (1965-2020)	247.8	529.5	703.8	352.0	704.4	437.5	31/46
Faleolo (1956-2020)	151.2	265.3	476.7	213.8	357.5	280.4	50/60

TABLE 2: Three-month Rainfall for November 2019 to January 2020

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 August-September 2019				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Apia (1890-2020)	1208.6	Above normal	955.7	1205.0	1055.7	86/129	38	33	29	3	Inconsistent
Afiamalu (1903-2020)	2180.7	Above normal	1484.2	1993.1	1774.2	48/65	39	38	23	9	Inconsistent
Nafanua (1965-2020)	1481.1	Normal	1083.4	1490.6	1294.9	29/43	42	33	25	18	Near-consistent
Faleolo (1956-2020)	893.2	Normal	697.0	897.6	793.9	39/58	37	31	32	-1	Near-consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for March to May 2020**Predictor and Period used: NINO3.4 for December 2019 to January 2020**

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Apia (1890-2020)	49	777.1	51		-1	49
Afiamalu (1903-2020)	45	1218.4	55		1	59
Nafanua (1965-2020)	49	875.1	51		-2	32
Faleolo (1956-2020)	49	546.9	51		-2	39

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 (1890-2020)	38	668.2	27	883.9	35	-1	36
Afiamalu (1903-2020)	32	1077.2	33	1299.8	35	-1	33
Nafanua (1965-2020)	37	801.9	25	1021.2	38	-2	26
Faleolo (1956-2020)	32	487.7	34	624.7	34	-2	4

TABLE 4: Seasonal Climate Outlooks using POAMA2 for March to May 2020

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Apia	55	620.0	15	899.0	30

Summary Statements

Rainfall for January 2020:

Apia, Afiamalu and Faleolo stations registered *above normal* rainfall, whereas Nafanua received *normal* rainfall.

Accumulated rainfall for November 2019 to January 2020, including outlook verification:

Above normal rainfall was recorded at Apia and Afiamalu stations, with Nafanua and Faleolo recording *normal* rainfall. The outlook for this period was therefore verified to be Inconsistent at Apia and Afiamalu, and Near Consistent at Nafanua and Faleolo stations.

Outlooks for March to May 2020:

1. SCOPIC:

The outlook for Apia and Nafanua is mixed, with similar chances for *below normal* and *above normal* totals; *near normal* is the least likely outcome. For Afiamalu and Faleolo, the outlook offers little guidance as the chances of *below normal*, *normal* and *above normal* are similar.

2. POAMA:

The outlook favours *below normal* 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: January 2020	Stakeholder	Total Number of Participants	Number of male	Number of female
Climate Summary	13 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	30 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
Ocean Bulletin	13 th	RED Cross, Water Authority (SWA), Media, Health, Works & Infrastructure,	65	27	38

		Land & Transport Authority, Agriculture & Fisheries, Fire Services, Ministry of Women, National University of Samoa, Tourism, Foreign Affairs, Communication and Information Technology, Disaster Managers, Marines			
Seasonal Rainfall Outlook	13 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
Agro-Met Briefing	17 th	Ministry of Agriculture and Fisheries (MAF), University of the South Pacific (USP), Food and Agriculture Organization (FAO), Ministry of Natural Resources and Environment (MNRE-Met Division)	8	6	2
Total			73	33	40

