Pacific Islands - Online Climate Outlook Forum (OCOF) No. 135

Country: Samoa

TABLE 1: Monthly Rainfall

Station (include data period)	Sep-2018	Oct-2018	Nov-2018				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Apia (1890-2018)	113.7	199.9	112.3	191.0	301.1	238.9	**15/129**
Afiamalu (1903-2018)	109.3	464.1	286.9	303.1	465.2	369.7	20/66
Nafanua (1965-2018)	84.1	276.6	184.5	206.4	321.8	287.0	13/48
Faleolo (1956-2018)	22.1	99.9	233.1	155.6	216.0	174.6	43/57

TABLE 2: Three-month Rainfall for September to November 2018

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities* based on NINO3.4 June-July 2018				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Apia (1890-2018)	425.9	Below normal	494.0	680.7	596.7	28/129	37	33	30	2	Consistent
Afiamalu (1903-2018)	860.3	Normal	782.6	1093.5	912.2	30/65	38	34	28	4	Near-consistent
Nafanua (1965-2018)	545.2	Below normal	599.7	776.7	677.8	11/46	38	31	31	4	Consistent
Faleolo (1956-2018)	355.1	Below normal	402.7	521.9	470.2	15/55	36	33	31	0	Consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for January to March 2019

Predictor and Period used: NINO3.4 for October to November 2018

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Apia (1890-2018)	65	1124.3	35		6	53
Afiamalu (1903-2018)	68	1767.1	32		10	64
Nafanua (1965-2018)	69	1270.2	31		12	59
Faleolo (1956-2018)	56	780.2	44		-1	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 (1890-2018)	49	1003.0	31	1253.7	20	9	41
Afiamalu (1903-2018)	38	1559.7	41	1992.6	21	2	52
Nafanua (1965-2018)	60	1094.5	17	1616.2	23	15	46
Faleolo (1956-2018)	42	687.7	31	887.9	27	1	35

TABLE 4: Seasonal Climate Outlooks using POAMA2 for January to March 2019

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Apia	55	975.0	12	1351.0	33

Summary Statements

Rainfall for November 2018

All Stations recorded Below Normal rainfall except Faleolo station which recorded Above Normal rainfall.

Accumulated rainfall for September to November 2018, including outlook verification

All Stations observed Below Normal rainfall whereas Afiamalu observed Normal rainfall.

The Outlook verification for Apia, Nafanua and Faleolo were Consistent except for Afiamalu, which was Near-Consistent.

The Confidence of the Model varies from Very Low to Good.

Outlooks for January to March 2019:

1. **SCOPIC:**

   The Outlook for January to March favours Below Normal at Nafanua station.

   The outlook for Apia and Faleolo shows below normal the most likely, normal the next most likely, with above normal the least most likely.

   For Afiamalu, the outlook shows a near equal likelihood of Normal and Below Normal, with Above Normal the least most likelihood.

2. **POAMA:**

   Below Normal rainfall is favoured for Apia for the next three months.

Table: 5 Stakeholder Engagement- Evaluations of how effective NMS engage with stakeholders

Country	Date: November 2018	Stakeholder	Total Number of Participants	Number of male	Number of female
Samoa	29th -30th	Samoa Water Authority(SWA), Samoa Tourism Authority (STA), Fire & Emergency Services Authority (FESA), Samoa RED Cross Society, University (USP) & College Robert Louis Stevenson's Students	14	11	3
This workshop was held to collaborate the works of the stakeholders and the Samoa Meteorology office in aid of a new product, named the Early Action Rainfall Watch (EAR Watch). The 2 day event helped us (Climate Services) understand what information was deemed important by the stakeholders through their feedbacks. It was also an event to present some of the current products the Climates services issued.					

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: $X \geq 35$