

# Pacific Islands - Online Climate Outlook Forum (OCOF) No. 137

Country: Samoa

**TABLE 1: Monthly Rainfall**

Station (include data period)	Nov-2018	Dec-2018	Jan-2019				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Apia (1890-2019)	112.3	507.6	238.7	352.7	488.2	399.6	13/130
Afiamalu (1903-2019)	286.9	810.2	821.1	547.3	773.2	645.4	47/66
Nafanua (1965-2019)	184.5	521.7	359.0	351.5	709.3	442.5	17/45
Faleolo (1956-2019)	233.1	381.9	188.7	214.6	358.1	284.4	16/59

**TABLE 2: Three-month Rainfall for November 2018 to January 2019**

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities* based on NINO3.4 August-September 2018				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Apia (1890-2019)	858.6	Below normal	958.0	1209.2	1056.0	34/128	44	30	26	5	Consistent
Afiamalu (1903-2019)	1918.2	Normal	1471.4	2016.5	1767.2	41/64	45	39	16	11	Near- consistent
Nafanua (1965-2019)	1065.2	Below normal	1091.3	1509.3	1337.2	13/42	56	26	18	20	Consistent
Faleolo (1956-2019)	803.7	Normal	696.9	902.2	792.8	31/57	44	28	28	2	Near- consistent

**TABLE 3: Seasonal Climate Outlooks using SCOPIC for March to May 2019****Predictor and Period used: NINO3.4 for December 2018 to January 2019**

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Apia (1890-2019)	49	763.9	51		-1	49
Afiamalu (1903-2019)	42	1188.6	58		2	58
Nafanua (1965-2019)	48	884.2	52		-2	50
Faleolo (1956-2019)	48	548.6	52		-2	34

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)	41	665.1	22	845.6	37	-1	40
Afiamalu (1903-2019)	31	1022.2	32	1299.8	37	-2	32
Nafanua (1965-2019)	36	819.9	24	1023.9	40	-2	41
Faleolo (1956-2019)	32	491.8	34	626.6	34	-2	4

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

Station	<b>Below Normal (prob)</b>	<b>33%ile Rainfall (mm)</b>	<b>Normal (prob)</b>	<b>67%ile Rainfall (mm)</b>	<b>Above Normal (prob)</b>
Apia	<b>54</b>	620.0	15	899.0	30

## **Summary Statements**

### **Rainfall for January 2019:**

Above normal rainfall was recorded at Afiamalu station, with normal rainfall at Nafanua station. Both Apia and Faleolo station recorded below normal rainfall. Apia recorded the 13<sup>th</sup> driest January on record.

### **Accumulated rainfall for November 2018 to January 2019, including outlook verification:**

Afiamalu and Faleolo recorded normal rainfall while Apia and Nafanua stations recorded below normal rainfall.

The verification for Nafanua and Apia station was Consistent, while Afimalu and Faleolo station was Near consistent.

The confidence of the model was low to high

### **Outlooks for March to May 2019:**

#### **1. SCOPIC:**

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

For Nafanua, the outlook shows above normal as the most likely with below normal the next most likely.

For Afiamalu and Faleolo stations, the outlook offers little guidance as the chances of above normal, normal and below normal are similar

#### **2. POAMA:**

The outlook for March to May is mixed, with similar chances for below normal and above normal totals; near normal is the least likely.

**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**

<b>Country</b>	<b>Date: January 2019</b>	<b>Stakeholder</b>	<b>Total Number of Participants</b>	<b>Number of male</b>	<b>Number of female</b>
Samoa	23rd	Water Authority(SWA), Tourism Authority (STA), Fire & Emergency Services Authority (FESA), RED Cross, University & College Students	14	11	3