

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 143

Country: Samoa

TABLE 1: Monthly Rainfall

Station (include data period)	May-2019	Jun-2019	Jul-2019				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Apia (1890-2019)	218.7	259.7	370.6	87.7	136.7	103.0	<b>130/130</b>
Afiamalu (1903-2019)	373.5	319.5	497.1	146.2	257.4	208.5	<b>63/68</b>
Nafanua (1965-2019)	258.2	284.3	404.7	86.1	160.3	121.0	<b>47/48</b>
Faleolo (1956-2019)	227.6	219.6	205.0	51.8	103.3	75.0	<b>58/59</b>

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

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIIC forecast probabilities based on NINO3.4 February-March 2019				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Apia (1890-2019)	849.0	Above normal	333.3	485.4	410.2	129/130	40	31	29	-1	Inconsistent
Afiamalu (1903-2019)	1190.1	Above normal	621.7	833.7	732.4	60/66	49	26	25	3	Inconsistent
Nafanua (1965-2019)	947.2	Above normal	451.1	601.6	523.6	46/47	37	31	32	-3	Inconsistent
Faleolo (1956-2019)	652.2	Above normal	274.5	382.6	311.3	57/57	36	45	19	2	Near-consistent

**TABLE 3: Seasonal Climate Outlooks using SCOPIC for September to November 2019**  
 Predictor and Period used: NINO3.4 for June to July 2019

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Apia (1890-2019)	65	605.3	35		7	65
Afiamalu (1903-2019)	62	936.0	38		5	62
Nafanua (1965-2019)	59	675.1	41		2	57
Faleolo (1956-2019)	53	468.3	47		-1	58

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)	44	501.4	32	685.0	24	3	39
Afiamalu (1903-2019)	41	796.7	37	1093.5	22	3	41
Nafanua (1965-2019)	44	597.5	29	761.7	27	3	35
Faleolo (1956-2019)	44	400.8	28	518.7	28	0	26

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

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Apia	30	497.0	15	679.0	55

## **Summary Statements**

### **Rainfall for July 2019:**

*Above normal* rainfall experienced at all stations. It was a very wet July: Apia recorded its wettest July since establishment and it was the second wettest at Nafanua and Faleolo.

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

*Above normal* rainfall registered at all stations with an inconsistent outlook verification, except at Faleolo where the verification was near-consistent. Faleolo recorded its wettest 3-monthly rainfall for the May to July period, with Nafanua & Apia registering their second wettest.

### **Outlooks for September to November 2019:**

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

The outlook shows that ***below normal*** is the most likely outcome with ***normal*** the next most likely for the upcoming season for all stations. The confidence of the model is low.

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

***Above normal*** is favoured for Apia 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**

<b>Product</b>	<b>Date: July 2019</b>	<b>Stakeholder</b>	<b>Total Number of Participants</b>	<b>Number of male</b>	<b>Number of female</b>
Climate Bulletin	31 <sup>st</sup>	Ministry of Health	6	4	2
Climate Daily Observations (Website)	1st – 31st	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
<b>Total</b>					