

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 150

Country: Samoa

TABLE 1: Monthly Rainfall

Station (include data period)	Dec-2019	Jan-2020	Feb-2020				Rank
			Total (mm)	33%tile	67%tile	Median	
	Total (mm)	Total (mm)	Rainfall (mm)				
Apia (1890-2020)	489.1	544.7	922.7	270.4	376.5	330.7	<b>128/131</b>
Afiamalu (1903-2020)	808.5	969.9	1516.9	452.2	692.4	558.3	<b>64/67</b>
Nafanua (1965-2020)	529.5	703.8	1263.0	345.0	470.5	399.8	<b>46/48</b>
Faleolo (1956-2020)	265.3	476.7	648.8	187.8	277.3	236.9	<b>58/59</b>

**TABLE 2: Three-month Rainfall for December 2019 to February 2020**

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities based on NINO3.4 September-October 2019				Verification: Consistent, Near-consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Apia (1890-2020)	1956.5	Above normal	943.5	1340.2	1126.5	125/129	42	33	25	15	Inconsistent
Afiamalu (1903-2020)	3295.3	Above normal	1703.9	2257.7	1963.7	63/65	40	36	24	12	Inconsistent
Nafanua (1965-2020)	2496.3	Above normal	1188.2	1643.8	1360.0	41/43	41	31	28	27	Inconsistent
Faleolo (1956-2020)	1390.8	Above normal	766.1	948.5	868.4	54/57	37	32	31	1	Inconsistent

**TABLE 3: Seasonal Climate Outlooks using SCOPIC for April to June 2020**

Predictor and Period used: NINO3.4 for January to February 2020

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Apia (1890-2020)	54	567.2	46		0	54
Afiamalu (1903-2020)	54	885.1	46		0	59
Nafanua (1965-2020)	53	679.2	47		-1	51
Faleolo (1956-2020)	55	406.9	45		1	61

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)	37	474.5	32	665.4	31	1	39
Afiamalu (1903-2020)	40	793.8	24	1002.8	36	2	45
Nafanua (1965-2020)	40	540.0	23	756.3	37	1	45
Faleolo (1956-2020)	37	348.2	31	463.8	32	-1	41

**TABLE 4: Seasonal Climate Outlooks using POAMA2 for April to June 2020**

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Apia	76	486.0	12	628.0	12

## **Summary Statements**

### **Rainfall for February 2020:**

*Above normal* rainfall was recorded for all stations. All stations recorded rainfall that was above 90 percentile: Apia and Afiamalu recorded their fourth wettest February, Nafanua its third wettest and Faleolo its second wettest February on record.

### **Accumulated rainfall for December 2019 to February 2020, including outlook verification:**

All stations registered *above normal* rainfall for the three monthly period. The verification showed that the outlook was Inconsistent for all stations as the outlook issued in November indicated *below normal* rainfall as the most likely outcome. Afiamalu and Nafanua recorded their third, Faleolo its fourth and Apia its fifth wettest December to February period on record.

### **Outlooks for April to June 2020:**

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

For Afiamalu, the outlook shows *below normal* as the most likely outcome, with *above normal* the next most likely; *normal* is the least likely. Nafanua's outlooks is mixed as it shows near-equal chances of *below normal* and *above normal* rainfall, with *normal* the least likely. The outlook for Apia and Faleolo offers little guidance as the chances of *above normal*, *normal* and *below normal* are similar.

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

The outlook favours *below normal* for Samoa.

**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: February 2020</b>	<b>Stakeholder</b>	<b>Total Number of Participants</b>	<b>Number of male</b>	<b>Number of female</b>
Climate Bulletin	28th	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
Monthly Climate Briefing	28th	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	28th	RED Cross, Water Authority (SWA), Media, Health, Works & Infrastructure, Land &	65	27	38

		Transport Authority, Agriculture & Fisheries, Fire Services, Ministry of Women, National University of Samoa, Tourism, Foreign Affairs, Communication and Information Technology, Disaster Managers, Marines			
Agro-Met Working group Meeting	17th	Food and Agriculture Organization (FAO), Ministry of Agriculture and Fisheries (MAF)-Crop Divisions, Ministry of Natural Resource and Environment (MNRE)-Met Division, University of the South Pacific (USP)	18	4	14
Agro-Met Workshop	18th-21st	Food and Agriculture Organization (FAO), Ministry of Agriculture and Fisheries (MAF)-Crop Divisions, Ministry of Natural Resource and Environment (MNRE)-Met Division, University of the South Pacific (USP)	18	4	14
<b>Total</b>			<b>83</b>	<b>31</b>	<b>52</b>