

Pacific Islands - Online Climate Outlook Forum (OCOF) No. 133

Country: Samoa

TABLE 1: Monthly Rainfall

Station (include data period)	Jul-2018	Aug-2018	Sep-2018				
			Total (mm)	33%tile	67%tile	Median	Rank
	Total (mm)	Total (mm)	Rainfall (mm)				
Apia (1890-2018)	122.1	74.0	113.7	92.2	172.6	121.4	59/129
Afiamalu (1903-2018)	139.2	259.3	109.3	117.2	218.1	152.1	21/66
Nafanua (1965-2018)	121.0	155.0	84.1	105.0	175.5	153.2	12/46
Faleolo (1956-2018)	69.3	39.5	22.1	55.1	115.6	81.6	6/56

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

Station	Three-month Total		33%tile	67%tile	Median	Rank	SCOPIC forecast probabilities* based on NINO3.4 April-May 2018				Verification: Consistent, Near- consistent, Inconsistent?
	Rainfall (mm)						B-N	N	A-N	LEPS	
Apia (1890-2018)	309.8	Normal	251.5	423.6	345.3	59/129	32	35	33	-1	Consistent
Afiamalu (1903-2018)	507.8	Normal	490.1	670.1	589.5	23/64	33	35	32	-2	Consistent
Nafanua (1965-2018)	360.1	Normal	324.2	487.6	404.0	19/46	35	37	28	0	Consistent
Faleolo (1956-2018)	130.9	Below normal	206.8	346.7	271.2	9/54	30	35	35	-1	Near- consistent

TABLE 3: Seasonal Climate Outlooks using SCOPIC for November 2018 to January 2019
Predictor and Period used: SOI Values for August to September 2018

Station	Below Median (prob)	Median Rainfall (mm)	Above Median (prob)		LEPS (%) [whole numbers]	Hit-rate (%) [whole numbers]
Apia (1890-2018)	61	1056.0	39		6	61
Afiamalu (1903-2018)	64	1767.2	36		9	64
Nafanua (1965-2018)	70	1337.2	30		20	68
Faleolo (1956-2018)	58	792.8	42		2	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 (1890-2018)	44	958.0	30	1209.2	26	5	43
Afiamalu (1903-2018)	45	1471.4	39	2016.5	16	11	38
Nafanua (1965-2018)	56	1091.3	26	1509.3	18	20	54
Faleolo (1956-2018)	44	696.9	28	902.2	28	2	46

TABLE 4: Seasonal Climate Outlooks using POAMA2 for November 2018 to January 2019

Station	Below Normal (prob)	33%ile Rainfall (mm)	Normal (prob)	67%ile Rainfall (mm)	Above Normal (prob)
Apia	34	935.0	24	1213.0	42

SUMMARY STATEMENT

Rainfall for September 2018

All stations recorded Below Normal rainfall except for Apia station, which recorded Normal.

Accumulated rainfall for July to September 2018, including outlook verification:

All stations observed normal rainfall, except Faleolo which recorded below normal.

The rainfall outlooks were consistent with the forecast for all stations except Faleolo station which was near-consistent.

Outlooks for November 2018 to January 2019:

1. SCOPIC:

The outlook for Season November 2018 to January 2019 shows Below Normal as the most likely outcome with Normal the next most likely. Above Normal is the least likely.

The confidence of the model is High to Low.

2. POAMA

Above normal rainfall is favoured for the next three monthly period for Apia station.