

Ministry of Natural Resources and Environment

Climate Outlook

	Season	Baseline	Actual	Comment	Trend
	Rainfall - Apia Station				
	June 2021	138 mm	121.5 mm	Drier than 2020 (262.0mm)	Near Average
	July 2021	122 mm	96.4 mm	Drier than 2020 (221.7mm)	Below Average
	Rainfall observations for the latter part of 2020 was significantly influenced by the state of the El Nino Southern Oscillation, with climate indicators reaching La Nina thresholds. Consequently, wetter conditions were observed prior to the Tropical Season 2020/2021, and observed throughout as well, coinciding with the duration of the La Nina event, which deteriorated in March 2021. During the transitioning from the wet season to the dry season in May, showery activities were evidently constricted due to the average fluctuation of the South Pacific Convergence Zone (SPCZ) north west of Samoa, where most of the island experienced below average rainfall.				
	Temperature - Apia Station				
	June 2021	23.8°C(mm)	23.8°C(mm)	Decrease (23.90C)	Near Average
	July 2021	23.1°C(mm)	24.1°C(mm)	Increase (23.50C)	Above Average
	Temperatures so far in 2021 were fairly average for most months, with May 2021 having recorded some warmer than average conditions. According to climate models, a slight warming for Samoa is anticipated in the upcoming three month period (September to November 2021).				
	Sea Level Rise (not applicable - longterm)				
		4mm/yr	4.5mm/yr	No change monthly since its a long term determination	Slightly rising
	Land Subsidence (due to tectonic land movement)				
		0.3mm/yr	8mm/yr	From 2010 (after the 2009 Earthquake and Tsunami) the land subsidence was faster and equals to 8 mm/year.	
	Tropical Cyclones (TC) (SW Pacific Region: 160°E – 120°W and 0° to 25°)				
	2020 - 2021	Tropical Cyclones Summary The recent Southwest Pacific 2020/2021 tropical cyclone season that has just come to an end was less active. Of the total 6 tropical cyclones that were developed and named, 3 reached the severe tropical cyclones category. A total of 4 tropical cyclones were originated within the Regional Specialized Meteorological Centre (RSMC) Nadi Area of Reasonability (AOR) or the Southwest Pacific, while the other 2 tropical cyclones entered the basin from the west. Samoa was spared from the passing tropical cyclones however the country experience torrential rainfall and consequent record-breaking flooding of rivers and low lying areas.			

Climate Change Mitigation

(i) Electricity/ Renewable Energy	Amount of Electricity Generation (in Kilowatt-hours) from various sources of Renewable Energy as well as Diesel for the first quarter (January to May) of the year 2021.			
	Hydro	24,206,897.00		
	Solar	8,735,611.66		
	Wind	0		
	Biomass	43,325		
	Diesel	39,011,894		
Total Generation		71,997,728		
(ii) Forestry	Baseline 2014	# trees dispatched/ distributed /planted	Total # of trees planted/ last reporting	overall total of trees planted to date
MNRE	165,048.89ha (58%) 47,736,227 c-ton	499,727	2,176,725 906.16 total area	2,215,756 trees 930.09 total area
Private Business /Communities	MNRE Record	61,322	Total # of seedlings planted within this reporting period 39,031 23.93 total area/hactare	
Samoa Farmers Federation Inc	MNRE Record	1,031,000		
MAF	MNRE Record	516,173		
STEC	MNRE Record	107,534		

Climate Change Governance

Activity	Timeframe	STATUS
1. Samoa Climate Change Policy	2020-2030	Endorsed by Cabinet - Launched in Nov 2021
2. Samoa Ocean Strategy	2019-2029	Endorsed and Launched - October 2020
3. Community Integrated Management Plans (CIM) 43 plan		Complete and implementation ongoing; both english & Samoan versions available
4. National Environment Sector Communication Strategy	2022-2026	Endorsed and Launched - November 2020
5. Draft Climate Change Bill		Legal Review
International obligation to UNFCCC		
Samoa's 3rd National Communication Report.	2020-2023	Progress ongoing
<ul style="list-style-type: none"> • National Circumstances • National GHG Inventory • Vulnerability & Adaptation Assessment • Mitigation Action • Knowledge Management 		"
Development the First Biennial Update Report (BUR) on Climate Change		"
Nationally Determined Contributions Enhancement	2020-2025	Submitted Report to UNFCC July 2021

Adaptation & Mitigation Actions

Project Profile	Utilization %	HIGHLIGHTS
GEF EWACC 2015-2021 MNRE/MOF USD 12,322,936.00	78%	<ul style="list-style-type: none"> - Procurement stage for drainage upgrade works for Vaisigano Segement 1 Site 16 - Phase 3 Deepening and Cleaning of waterways in catchment in the Greater Apia Areas . i.e Vaisigano, Loimata o Apaula, Fuluasou, Gasegase, Vaipe, Lelata - Continuous roll out of Community Disaster and Climate Risk Management Plan Program and Small Business Initiative with communities both Upolu and Savaii - Complete construction of Vaisigano Segment One Flood Protection Wall (Adaptation)
GEF 3rdNC 2020 -2024 UNDP/MNRE USD 1,002,000.00	5.8%	<ul style="list-style-type: none"> - GHG Specialist now on board for developing methodology and updating GHG Inventory for Samoa. - Ongoing consultation between GHG Team and Stakeholders on data collections. - Recruitment of Database Developer for GHG Inventory data as well as relevant information on climate adaptation and mitigation
GEF IMPRESS 2017-2022 MNRE/MOF USD 6,076,000.00	72%	<ul style="list-style-type: none"> - Trainings for Faleula Methodist Atinae Community and School Awareness – 7th June - Sustainable Energy Day – 23rd – 25th June - Official handover of Gas Analyser to SROS – 24th June - Enhanced NDC Review – 29th June - Online and Face-to-Face Capacity Building Programs, Meetings and Workshops <ul style="list-style-type: none"> • Certificate II – Sustainable Energy Training Program • Samoa's Enhanced NDC Review – 29th March • Virtual Training on Institutional Arrangement for the existing MRV including Data Management for National Greenhouse Gas Inventory – 29th June – 1st July • Greenhouse Gas Inventory Meeting – 30th June • Virtual Meeting on EU Funding for Waste to Energy Project- 2nd July
GCF 2017 - 2023 Component 2.2 MNRE/MOF USD 8.8 million	75%	<ol style="list-style-type: none"> 1. Ecosystem based Adaptation Enterprise Development progress 34 projects / 185 completed disbursements under First Call for Proposals (CfP). Implementation and monitoring continued 319 projects approved for implementation under Final CfP. Contracting phase underway 2. Payment for Ecosystem Services Program Completed Full feasibility Report for Stage 2 to inform implementation of pilot project at Malololelei sites. 3. Cash for Work: <ul style="list-style-type: none"> - Ongoing rehabilitation works for designated areas at Magiagi-Fale o le Fee, Vailima and Malololelei reserves - Completed demarcation of 138.9 acres of government land at Afiamalu for watershed protection purposes. Fencing near completion.
ECR/PPCR Project 2013-2021 IDA/World Bank USD 14,600,000.00	100%	- Project Completed in 2021
Pacific Resilience Project IDA/World Bank USD 16,293,000.00 2015-2022	54.14%	<ul style="list-style-type: none"> - Meteorology Bill in final stages of endorsement. - NEOC completed officially opened - October 23nd 2020. -The new Seismic Operation Centre design and supervision procurement being finalized -ICT and Audio Visual equipment for NEOC being procured