

RADIO STATION.

The station has maintained, without interruption, communication with New Zealand and those island stations for whose radio traffic it is responsible.

A 70 horse-power "Allen" engine and generator to replace the German one which broke down in February, 1923—as referred to in the last report—has now been installed, and has been running for two months. It is proving quite satisfactory, and the station is now complete.

A more comprehensive scheme of weather reporting to shipping was commenced on the 1st October, 1923. Apia-Radio now collects reports from Tonga, Tahiti, Rarotonga, Fiji, Norfolk Island, New Hebrides, and, together with Apia's report, broadcasts the information twice daily during the hurricane season and once daily in the non-hurricane season.

Radio-telegraph communication with Savai'i was inaugurated on the 1st October, 1923, since which date reliable daylight communication has been maintained.

With a view to ascertaining if Samoan boys can be trained to fill positions as operators, a training class has been recently formed. Sufficient time has not yet been spent in training to be able to report on progress.

Return of Traffic handled by Apia-Radio for the Year April, 1923, to March, 1924.

Month.	Messages.	Words.	Amount earned by Apia-Radio.
1923.			£ s. d.
April	1,352	14,616	288 0 6
May	1,261	15,329	287 16 10
June	1,207	13,907	268 6 9
July	1,202	14,279	267 18 3
August	1,392	16,610	322 17 4
September	1,324	16,026	307 13 7
October	1,275	14,753	275 18 2
November	1,228	14,090	270 4 6
December	1,240	13,400	255 16 2
1924.			
January	1,182	13,517	255 6 6
February	1,250	13,931	275 2 4
March	1,485	16,720	336 7 5
Total	15,398	177,178	3,414 8 4

Details of Engine-running, Oil-consumption, &c.

Month.	Total Engine-running Time.	Monthly Consumption Crude Oil.	Consumption per hour.	High-power-Transmitting Time.
1923.	Hrs. min.	Gallons.	Gallons.	Hours.
April	120 30	300	2.5	2
May	144 45	455	2.9	2
June	138 30	350	2.6	2
July	136 45	340	2.5	2
August	137 15	361	2.6	2
September	137 45	389	2.5	2
October	142 30	360	2.5	2
November	141 15	271	1.9	2
December	140 45	374	2.6	2
1924.				
January	145 15	393	2.7	2
February*	120 00	658	5.5	2
March†	96 45	255	2.6	2

* New Allen engine installed and tested this month.

† Allen started at 24 times, Swiderski 3 times.

LANDS AND SURVEY DEPARTMENT.

During the year the plan of the business portion of Apia was completed, and the lithographs of same have now been published.

Compass surveys of Native villages, a hydro-electric scheme, and Crown Estates land for Native cultivations were undertaken.

Theodolite surveys of isolated Court grants were made and based on true meridian from stellar and solar observations, and others, as enumerated on the accompanying schedule, connected to the standard coast traverse. The standard coast traverse was extended four miles to the east of Apia, and all surveys within the scope of the work connected up.

Preliminary engineering, road surveys, and of Native water-supplies were undertaken for the Public Works Department.