

1st September, 1958.

The Director,
Department of Tsetse & Trypanosomiasis
Control and Reclamation.

Monthly Report for the Urungwe
Area. August 1958.

1. Sanyati East Section.

a) Kapondo area.

The first cycle of application of residual insecticide in the Kapondo area was commenced on August 6th and completed the eight working days by August 14th. A total of 689 gallons of 1.8% dieldrin as dioldrex was used. One "Motoblo" machine and 3 "Four Oaks" sprayers were employed to apply the insecticide.

The insecticide was applied mainly to evergreen riverine and termite mound vegetation.

It is unfortunate that the comparatively cold overcast weather at the beginning of August resulted in a low availability of tsetse in the area before the commencement of the spraying and has probably delayed the normal hot season defoliation of the vegetation. The apparent densities on the main Kapondo flyrounds during August were as follows:-

Date	Urengi 1	Urengi 2	Urengi 3	Urengi 4.
28.7.58	16	nil	nil	16
31.7.58	8	nil	16	8
4.8.58	nil	nil	-	-
6.8.58	-	-	nil	nil
11.8.58	8	nil	-	-
13.8.58	-	-	nil	nil
18.8.58	nil	nil	nil	nil
21.8.58	8	nil	32	8

Date	Kapondo	Nyagena 1	Nyagena 2
30.7.58	36	-	-
2.8.58	-	nil	nil
5.8.58	28	-	-
9.8.58	-	8	nil
12.8.58	nil	-	-
13.8.58	nil	-	-
16.8.58	-	nil	nil
22.8.58	20	-	-
23.8.58	-	nil	8

Total catches on these fly rounds were as follows:-

Date	Wengi 1	Wengi 2	Wengi 3	Wengi 4.
28.7.58	2	1	1	2
31.7.58	2	1	4	3
4.8.58	nil	nil	-	-
6.8.58	-	-	1	1
11.8.58	1	nil	-	-
13.8.58	-	-	nil	nil
18.8.58	1	nil	nil	nil
21.8.58	2	nil	5	1

Date	Kapondo	Nyagena 1	Nyagena 2.
30.7.58	13	-	-
2.8.58	-	nil	nil
5.8.58	8	-	-
9.8.58	-	1	1
12.8.58	nil	-	-
13.8.58	1	-	-
16.8.58	-	nil	nil
22.8.58	8	-	-
23.8.58	-	nil	1

It is as yet too early to assess the results of the spraying but the catch of 8 tsetse on the Kapondo fly round within the sprayed area on 22.8.58 (5 non teneral males, 2 non teneral females and 1 teneral male) seems to indicate that a second spray application will be necessary. The hotter weather towards the end of August has probably greatly accelerated the rate of emergence from the pupae. It is recommended that the second spray cycle should be commenced in the 3rd week of September so as to leave sufficient time before the onset of the rains for the results to become apparent.

Few practical difficulties were encountered during the campaign. Leather washers should be used in the "4 Oaks" pumps in preference to rubber, the latter being attacked by the insecticide. In a few instances it was found that an "agglutination" of the spray mixture took place resulting in a very thick concentration of insecticide in the top of the cans which clogged the machines. It did not prove possible to find the reason for this phenomenon. It may have been due to impurities in the water but in that case one would have expected it to have occurred more frequently.

b) West and Southwest Urungwe.

The movement of natives into the Kenyong and Pulechi River regions of the Special Native area in the S.W. Urungwe commenced at the beginning of the month and is now almost complete. This settlement should be of considerable help in consolidating the area against a re-invasion by tsetse.

One G. morsitans was caught on the Kadzomba-Tsuwiri fly round in the area between the lower part of the Rengwe Valley and the Sanyati River. This area has been settled this month.

2. Zambesi Valley.

Kariba Area.

Survey Hands were stationed at Kariba towards the end of the month to assist Miss Leggate in her work to assess the local

infection rate in tsetse. The tsetse are being collected from the vicinity of the Chavan fly round where the apparent density of non teneral male G. morsitans was found to be 92.

The new fence, which has been completed on the section between the Cache-Cache and Charara Rivers was visited and found to be very satisfactory. The work on its construction is progressing rapidly under the supervision of Mr. Grainger. Labour for the next two months is being supplied by the local Native Commissioner. It is hoped to complete the fencing programme by the end of October this year. (i.e. from the Cache-Cache via Makuti to the Msingwisi River.)

3. General.

The first local trypanosomiasis Committee meeting was held on Wednesday 27th August under the chairmanship of Mr. Dawson the local Native Commissioner. It was attended by the entomologist, local farmers representative and two Land Development Officers. Because of the short notice given the District Veterinary Officer was unable to attend. The scope of the work to be undertaken by the Committee were discussed and a brief outline of the work and requirements of the Department of Tsetse control was given by the entomologist. It was decided that in the absence of a local entomologist future meetings would be arranged to coincide with the visits to the area of the Senior Entomologist and Director.

The entomologist left the district at the end of the month to work in the head office prior to going on leave in mid September. In his absence the local administration of the Urungwe District will be the responsibility of the Senior Field Officer.

R. Goodier.
ENTOMOLOGIST.

RG/JW