

REF :

TSETSE & TRYPANOSOMIASIS CONTROL BRANCH,  
DEPARTMENT OF VETERINARY SERVICES,  
P.O. BOX 8283,  
CAUSEWAY.

CWHE /MLW

2nd February, 1968

The Office of the Assistant Director,  
Dept. of Veterinary Services,  
Tsetse & Trypanosomiasis Control Branch.  
P.O. Box 8283,  
CAUSEWAY.

SIPOLILO SPRAYING OPERATIONS 1967

On the 3rd August, 1967, spraying operations commenced in the Sipolilo farming area adjacent to the Dande river drainage system and the Nyakapupu T.T.L. area. Apart from the extension of application sites within the farming complex, the area treated with insecticide during 1967 followed a similar pattern to the 1965 campaign.

The entire labour force engaged in this operation was drawn from the Sipolilo area and placed in charge of two new field officers, Messrs. Fulton and Snodgrass, operating under a two-team system.

Both teams were equipped with "Favori-Colibri" pressure retaining knapsack sprayers fitted with the Cooper Pegler pressure regulating valves.

During the entire operation an emulsion containing 3.1% dieldrin was used.

The area treated with insecticide included the Hunyani river between the farm Royal Bucks to the south and a point west of Chitsanza hill to the north, with a block application of insecticide at both the start and termination points. Insecticide was also applied to portions of the Maguti, Mbare, Nyamasaka, Mesitkwe, Msate rivers and eleven un-named tributaries. A comprehensive application of insecticide was undertaken along the Mpinge river from its source to the Dande river. Spraying was also carried out along the Dande river between the eastern boundary of the farm Nyalugwe, north to the escarpment area in the region of old hunting camp 13, where a further block application of insecticide was carried out. Included in the Dande drainage systems were the Mondora and Gwakwe river systems, including the extensive dam systems and many un-named tributaries and drainage lines.

The Maguti, Nyamcherera, Maseka, Chiwendura and Nyamanji dips were also treated during the operation.

The total area covered by this campaign was 514 square miles.

Within the above area 490.7 miles of river bank, 36.6 miles of vleil edge, 29.4 miles of contact and 19.7 miles of road were treated with insecticide. A total of 19,616 gallons of emulsion was used over a distance of 1716.9 machine miles giving a coverage of 11.4 gallons per machine mile.

Costs of spraying this area, including staff wages, rations, transport, insecticide and spares was 5.9 pence per acre.

Tables I and II as attached, tabulate information extracted from Field Forms.

TABLE I

SIFOLILO SPRAYING CAMPAIGN 1967  
(Also showing comparable figures for the 1965 period)

PERFORMANCE19671965

Spraying Period	3rd August to 20th October	19th August to 10th October
Number of "Spraying Team Days"	121	56
Type of Spraying Machines used	"Favori-Colibri", hand-operated	"Favori-Colibri", hand-operated
Total consumption of insecticide :		
(a) "Dieldrex "15T" concentrate, diluted to make up :	3,000 gallons	1,970 gallons
(b) 3.1% wt/vol spray emulsion	19,616 gallons	11,380 gallons
Total extent of sprayed area	514 sq. miles	397 sq. miles
Total machine/miles of spraying	1,716.9	933.8
Total lengths of drainage lines sprayed :		
(a) Kivers with banks	490.7 miles	403.5 miles
(b) Vleis	36.6 miles	50.8 miles
Total length of "Contacts" sprayed	29.4 miles	.0 miles
Total length of roads sprayed	19.7 miles	.0 miles
Spray emulsion consumed :		
(a) per machine/mile	11.4 gallons	12.1 gallons
(b) per mile of drainage or road	34.0 gallons	24.8 gallons
(c) per square mile of overall spraying area	38.1 gallons	28.6 gallons

*C. W. Howard Beard*  
C. W. Howard Beard

S.F., Salisbury.

TABLE II

SIPOLLO SPRAYING CAMPAIGN  
(including comparable data for 1965 period)

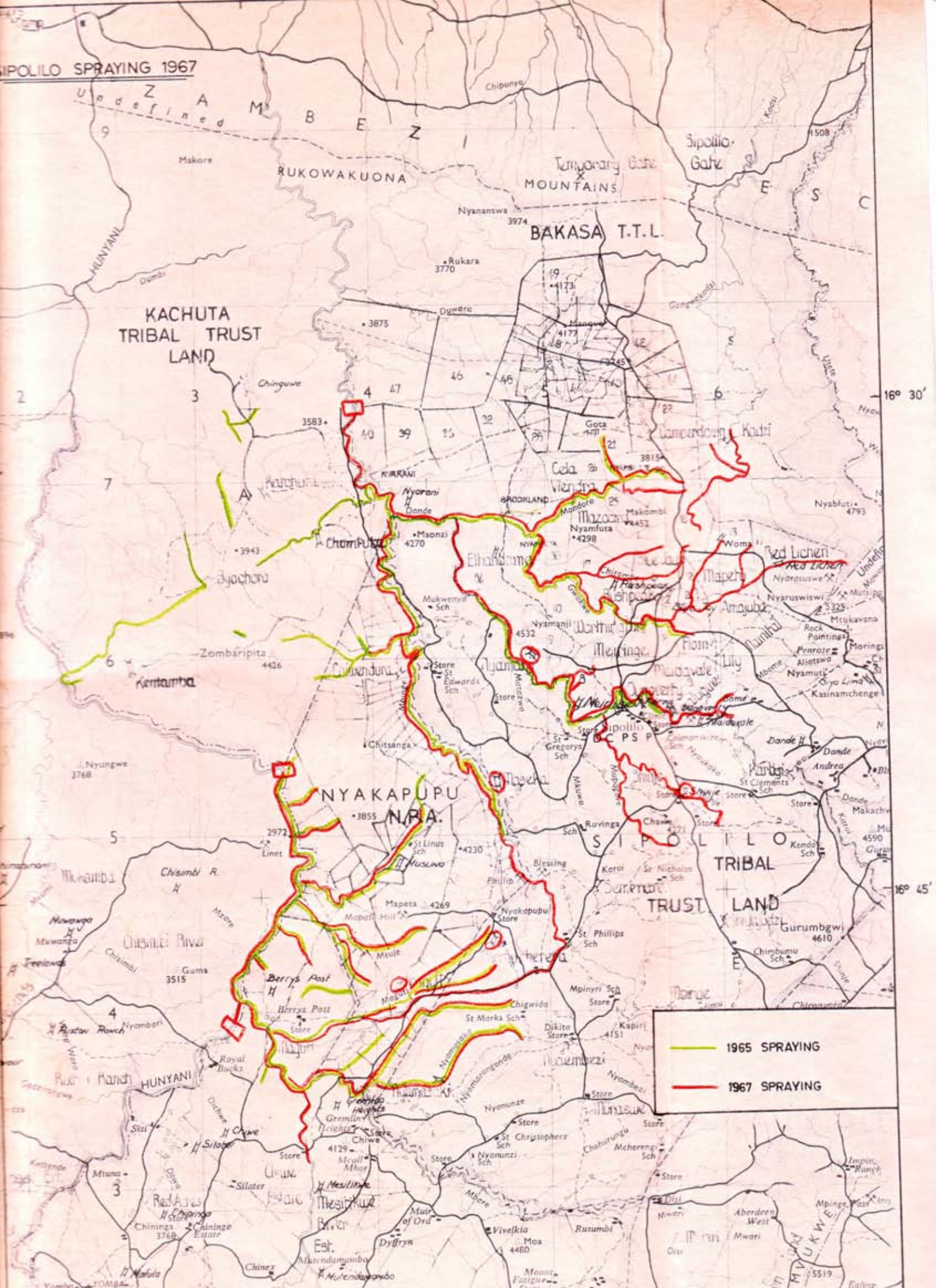
	<u>1967</u>	<u>1965</u>
Insecticide :		
(a) Quantity of "Dieldrex 15T"	(3,000 Gallons)	(1,977 Gallons)
(b) Cost @ sh. 38/9 per gallon (basic)	£5,812.10.0.	£3,940. 0.0.
Spraying machine spares and repairs	13. 7.9.	5. 0.0.
Wages and Allowances for Senior Supervisory Staff	685.11.0.	222.19.10.
Spraying Labour Costs (wages & rations)	830. 6.9.	398. 6.2.
Transport (Running & Maintenance)	706.18.8.	230. 3.2.
Miscellaneous (Protective clothing, waterbags, soap, tec.)	84. 9.9.	not calculated
<b>TOTAL COSTS</b>	<u>£8,133. 3.11.</u>	<u>£4,796. 9.2.</u>
Average cost of treating 1 mile of drainage line or road	14. 2.2.	10.11.2.
Average cost of treating 1 sq. mile of spraying area	15.16.5.	12. 1.6.
Average cost of treating 1 acre of spraying area	5.9 pence	4.64 pence

CWHB/MLW

*C. W. Howard Beard*  
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S.F.O. Salisbury.

SIPOLILO SPRAYING 1967



— 1965 SPRAYING  
— 1967 SPRAYING