#### Table 1

Exp. No.	Plot No.	Spray material applied		Number of applications	Date of applications
NUe	740.0			CCDTTC GOTOIIS	applications
	14	Control or untreated			1
1	2	Kerosens 20	parts	2	6/4-10
2	6	0il 10	parts	3	6/4-10-17
3	10	Free nicotine 2	percent	4	6/4-10-17-23
4	3		pounds	2	6/4-10
5	7	Aresket 6.4	ounces	3	6/4-10-17
6	11	Water 50	gallons	4	6/4-10-17-23
7	4	Kerosene 20	parts	2	6/4-10
8	8	0il 10	parts	3	6/4-10-17
9	12	Pyrethrum 1	part	4	6/4-10-17-23
10	5		quart	2	6/4-10
11	9		gallon	3	6/4-10-17
12	13	Water 100	gallons	4	6/4-10-17-23

## Number of applications made and material used in control experiments at Buhl, Idaho, 1937

### VARIETAL TESTS FOR RESISTANCE TO SUGAR BEET NEMATODES

# F. V. Owen, Gerald Thorne, and C. W. McBeth - U. S. D. A.

Several attempts have been made during the past ten years to select sugar beets resistant to the sugar beet nematode. Efforts to compare these selections with standard varieties encountered considerable difficulty because the first selections were not made from curly-top resistant varieties. Experiments in 1935 and 1936 were particularly disappointing because curly top developed in the experimental trials resulting in greatly reduced yields, and the added effect due to nematodes was difficult to measure. In 1935 selections for nematode resistance were made from U. S. #1 and U. S. 34 which are known to possess curly-top resistance. The U. S. #1 selection was evaluated in 1937 in comparison with 14 other curly-top resistant strains.

No particular nematode resistance was observed with the selection from U. S. #1 and neither did any of the other 14 varieties show any marked nematode resistance. The more vigorous varieties appeared to give relatively better results under the nematode exposure, but the statistical interactions were not found to be significant.

# ALFALFA RESISTANT TO THE STEM NEMATODE

## Gerald Thorne, U. S. D. A.

An unusual illustration of nematode resistance in alfalfa was found on the Utah State Agricultural College varietal test plot near Midvale, Utah, in