

Table 3.—AVERAGE PRICE PER ACRE OF NON-COUNTY SALES BY PROPORTION OF CROPLAND IN FOUR SELECTED COUNTIES, NORTH DAKOTA, 1941-1944.

| Counties | Proportion of | 1941 | 1942 | 1943 | 1944 ¹ |
|----------|---------------|---------|---------|---------|-------------------|
| | Cropland | Dollars | Dollars | Dollars | Dollars |
| Ward | Percent | 12.91 | 12.71 | 16.17 | 18.00 |
| | 80-100 | 11.58 | 12.41 | 11.93 | 16.61 |
| | 60-79 | 8.39 | 8.92 | 8.50 | 12.24 |
| | 40-59 | 5.49 | 5.15 | 6.28 | 8.38 |
| | 0-39 | | | | |
| Morton | 60-100 | 6.70 | 10.73 | 11.83 | 15.64 |
| | 40-69 | 6.66 | 9.71 | 11.79 | 14.77 |
| | 20-29 | 5.48 | 8.79 | 8.74 | 11.18 |
| | 0-19 | 3.10 | 4.30 | 6.26 | 4.95 |
| | | | | | |
| Stutsman | 80-100 | 8.83 | 11.91 | 13.68 | 14.68 |
| | 60-79 | 8.45 | 9.36 | 12.14 | 12.86 |
| | 40-59 | 4.92 | 9.10 | 10.33 | 9.65 |
| | 0-39 | 4.11 | 6.21 | 6.46 | 7.53 |
| | | | | | |
| Traill | 0-100 | 26.43 | 29.32 | 30.39 | 33.59 |

¹Preliminary.**Table 4.—PERCENT OF LAND IN FARMS SOLD IN FOUR SELECTED COUNTIES NORTH DAKOTA 1941-1944**

| Counties | 1941 | 1942 | 1943 | 1944 | Total |
|----------|---------|---------|---------|---------|---------|
| | Percent | Percent | Percent | Percent | Percent |
| Morton | 4.1 | 4.4 | 7.6 | 4.6 | 20.7 |
| Stutsman | 3.7 | 6.0 | 12.9 | 6.6 | 29.2 |
| Traill | 2.2 | 4.0 | 2.2 | 4.6 | 13.0 |
| Ward | 6.6 | 7.4 | 10.5 | 8.3 | 32.8 |

Effect of DDT on Cattle Lice

By
J. A. MUNRO¹
ROYCE KNAPP²

IN preliminary tests conducted by the North Dakota Agricultural Experiment Station, Fargo, the application of a dusting mixture composed of 10 percent DDT with pyrophyllite gave fairly satisfactory control of the short-nosed cattle louse, *Haematopinus eurysternus* and the cattle chewing louse, *Bovicola bovis*.

They are the predominating species of cattle lice in North Dakota. In these tests, three yearling steers heavily infested with the chewing lice and three two-year old heifers moderately infested with the short-nosed cattle lice were used. Examination made 24 hours after the application of the dusting mixture showed all of the chewing lice and upwards of 90 percent of the short-nosed lice destroyed. Three weeks

following the application, light infestations of recently hatched lice of both species were observed on the treated animals. However, subsequent weekly examinations of the cattle revealed no lice remaining. There was objection to this dusting mixture because of the adhesiveness of the particles which clogged the opening of the shaker-top container used to apply the dust.

DDT material supplied for testing by Merck & Co. Inc., Rahway, N. J.

¹Entomologist

²Student