

Minnesota

(over)

UNITED STATES DEPARTMENT OF AGRICULTURE
Bureau of Entomology and Plant Quarantine
Grasshopper and Mormon Cricket Control Project
820 Insurance Exchange Building
Denver, Colorado

*Rec'd
This document
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QUESTIONNAIRE
Livestock Losses Attributable
to Insecticides Used in
Grasshopper and Mormon Cricket Control

Minnesota
State

November 20, 1941
Date

Grasshopper Control

1. Animals known to have been killed by arsenicals
due to grasshopper bait or bait material

(years 1931-1938 inclusive on following additional sheet)

| 1941 | | 1940 | | 1939 | |
|----------------------|----------------|-----------------------|----------------|-----------------------|----------------|
| No. of Owners | No. of Animals | No. of Owners | No. of Animals | No. of Owners | No. of Animals |
| cattle | 3 | cattle | 1 | cattle | 11 |
| horses or | | horses or | | horses or | |
| mules | 1 | mules | 1 | mules | 1 |
| sheep | | sheep | | sheep | |
| goats | | goats | | goats | |
| hogs | | hogs | | hogs | |
| poultry | | poultry | | poultry | |
| bees | | bees | | bees | |
| other | | other | | other | |
| Total | 4 | Total | 2 | Total | 12 |
| 4,154 tons bait used | | 10,711 tons bait used | | 16,228 tons bait used | |

2. Additional animals presumed to have been killed
by grasshopper bait or bait material

| 1941 | | 1940 | | 1939 | |
|---------------|----------------|---------------|----------------|---------------|----------------|
| No. of Owners | No. of Animals | No. of Owners | No. of Animals | No. of Owners | No. of Animals |
| cattle | | cattle | | cattle | |
| horses or | | horses or | | horses or | |
| mules | | mules | | mules | |
| sheep | | sheep | | sheep | |
| goats | | goats | | goats | |
| hogs | | hogs | | hogs | |
| poultry | | poultry | | poultry | |
| bees | | bees | | bees | |
| other | | other | | other | |
| Total | | Total | | Total | |

If data are available for earlier years, please use the additional sheet attached for your convenience.

Animals known to have been killed by arsenicals due to grasshopper bait or bait material: (continued)

| | | <u>1931</u> | |
|----------------------|-----------|-----------------------|------------|
| <u>No. of Owners</u> | | <u>No. of Animals</u> | |
| Cattle | 3 | : | 21 |
| horses | 7 | : | 13 |
| Sheep | 1 | : | 4 |
| Hogs | 1 | : | 1 |
| Poultry | 22 | : | 300 |
| Total | 34 | : | 343 |
| 1492 tons bait used | | | |

| | | <u>1932</u> | |
|-----------------------|-----------|-----------------------|-------------|
| <u>No. of Owners</u> | | <u>No. of Animals</u> | |
| Cattle | 19 | : | 115 |
| horses | 14 | : | 28 |
| hogs | 2 | : | 2 |
| Poultry | 15 | : | 1123 |
| Total | 50 | : | 1268 |
| 11,524 tons bait used | | | |

| | | <u>1933</u> | |
|----------------------|----------|-----------------------|-----------|
| <u>No. of Owners</u> | | <u>No. of Animals</u> | |
| Cattle | 1 | : | 3 |
| Hogs | 1 | : | 1 |
| Poultry | 6 | : | 28 |
| Total | 8 | : | 32 |
| 1958 tons bait used | | | |

| | | <u>1934</u> | |
|----------------------|----------|-----------------------|------------|
| <u>No. of Owners</u> | | <u>No. of Animals</u> | |
| Cattle | 2 | : | 13 |
| horses | 1 | : | 1 |
| poultry | 3 | : | 160 |
| Total | 6 | : | 174 |
| 1590 tons bait used | | | |

| | | <u>1935</u> | |
|----------------------|----------|-----------------------|----------|
| <u>No. of Owners</u> | | <u>No. of Animals</u> | |
| Cattle | 1 | : | 1 |
| Total | 1 | : | 1 |
| 391 tons bait used | | | |

| | | <u>1936</u> | |
|----------------------|----------|-----------------------|----------|
| <u>No. of Owners</u> | | <u>No. of Animals</u> | |
| Cattle | 1 | : | 3 |
| Total | 1 | : | 3 |
| 124 tons bait used | | | |

| | | <u>1937</u> | |
|----------------------|----------|-----------------------|-----------|
| <u>No. of Owners</u> | | <u>No. of Animals</u> | |
| Cattle | 1 | : | 10 |
| horses | 1 | : | 2 |
| poultry | 1 | : | 40 |
| Total | 3 | : | 52 |
| 1353 tons bait used | | | |

| | | <u>1938</u> | |
|----------------------|----------|-----------------------|----------|
| <u>No. of Owners</u> | | <u>No. of Animals</u> | |
| Cattle | 2 | : | 2 |
| Total | 2 | : | 2 |
| 7945 tons bait used | | | |

{ True bean + mol. bait 31-32 + 33 -
 Very palatable to animals - accounts for
 high losses - relatively

Special statement

During the last 10 years over 50,000 tons of grasshopper bait have been used in organized campaigns and it can be said on the basis of careful investigation in all cases that all cases of livestock losses have been due entirely to carelessness and no report has been confirmed that any wild life has been lost due to use of poison bait.

Several large beekeepers have reported that losses of bees did not occur even when they spread the poison grasshopper bait in the bee yards and all surrounding fields.