

YEAR: 1965

TITLE: Oil Crops Investigations 5028

LOCATION: Northwestern Montana Branch Station

PERSONNEL: Leader - Vern R. Stewart
Cooperator - R. F. Eslick

DURATION: Indefinite

OBJECTIVES:

To determine the agronomic adaptability of winter rape species.

EXPERIMENTAL DESIGN AND PROCEDURES:

Plot work was conducted in a manner similar to that used for cereal research.

RESULTS AND DISCUSSION:

Oil crop nursery was seeded on the station, September 3, 1964 in four row plots, replicated four times. The ten entries in the nursery were secured from lines of winter rape grown two years previous. These were the only lines surviving and were included in the yield study. Yields were variable from 499 pounds to 1362 pounds of seed. Maturity ranges were considerably different. Harvest dates were August 27 for the late date and July 28 for the early harvest date.

These materials have been submitted to the chemical research laboratory for oil analysis. The results of this will be found in the 1966 annual report, in that they are not available at this writing.

FUTURE PLANS:

No work on oil crops is planned in 1966.

SUMMARY:

There may be a potential for some of the winter rapes from these selections for use in Western Montana.

KS
VRS

Talbe 1. Yield data from winter rape nursery grown at the Northwestern Montana Branch Station in 1964-1965. Four row plots, four replications. Field No. R-6a

Date Planted: September 3, 1964 Size of Plot: 32 square feet

| Discription | Harvest Date | Grams per Plot | | | | Total Grams | Yield Lbs/A |
|--------------|--------------|----------------|-----|-----|-----|-------------|-------------|
| | | I | II | III | IV | | |
| Dwarf Essex | 8-27 | 256 | 277 | 219 | 315 | 1067 | 801 |
| 1961 - No. 1 | 8-27 | 201 | 145 | 173 | 146 | 665 | 499 |
| 1961 - No. 3 | 8-27 | 230 | 289 | 201 | 211 | 931 | 698 |
| 1961 - No. 4 | 8-27 | 286 | 162 | 350 | 339 | 1137 | 853 |
| 1961 - No. 5 | 8-27 | 164 | 157 | 102 | 148 | 571 | 428 |
| 1961 - No. 6 | 7-28 | 477 | 435 | 240 | 672 | 1824 | 1368* |
| 1961 - No. 7 | 7-28 | 406 | 316 | 244 | 363 | 1329 | 997 |
| 1961 - No. 8 | 7-28 | 494 | 420 | 151 | 675 | 1740 | 1305* |
| 1961 - No. 9 | 7-28 | 392 | 364 | 439 | 471 | 1666 | 1250* |
| 1961 - No.10 | 7-28 | 380 | 418 | 510 | 509 | 1817 | 1363** |

NOTE: Dwarf Essex used as a check in this nursery.
 *: Entries yielding significantly more than the check .05.
 **: Entries yielding significantly more than the check .01.

| Source | Analysis of Variance | | | F. | \bar{x} 956 S.E. \bar{x} 137.419 L.S.D.(.05) 398 L.S.D.(.01) 538 C.V.%..... 14.37 |
|--------------|----------------------|-------------|--------|----|---|
| | D.F. | Mean Square | | | |
| Replications | 3 | 26700.82666 | 3.18* | | |
| Varieties | 9 | 55987.39220 | 6.68** | | |
| Error | 27 | 8387.54703 | | | |
| Total | 39 | | | | |