

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.

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