

## Safflower and Rape Varietal Nurseries

## Safflower:

A small safflower varietal nursery was seeded on the Jim Paulson farm in the Maupin area on April 22, 1963. The varieties or lines seeded were as follows:

A 5720-9  
 U. S. - 10  
 N - 4051  
 A - 5731  
 Gila

The area into which the nursery was seeded had been in pasture several years. The soil sample taken at the time of seeding indicated the following soil test values:

Soil Depth	pH	Pounds/Acre		me./100 g. soil				ppm B	% OM
		P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	K	Ca.	Mg.	CEC		
0-8	6.0	15.0	429	0.55	6.0	3.1	12.5	.53	1.55
8-16	6.4	10.5	429	0.55	6.2	4.5	13.5	.44	.80
16-24	6.6	7.5	484	0.62	6.7	5.1	13.6	.35	.64

This test indicates a rather low phosphate level and a medium potassium level. The boron level is low, but probably high enough with irrigation.

A good seedling stand emerged; the area was weeded early so that early weeds were not a factor of growth. While the plants were still in the rosette stage they were subjected to several light frosts, but no severe frosts. The greater part of the stand died while in the rosette stage. The injury appeared to be frost, but a slight distortion of the leaves indicated that 2-4D injury may have played an important part in the death of the plants.

Rape and Mustard Nursery:

A rape, mustard and crambe nursery adjoined the safflower nursery and was subjected to the same environmental conditions. Varieties included in the nurseries were as follows:

Crambe CD 6619  
Yellow Mustard  
Duro Rape  
Golden Rape  
Polish Rape  
Sweet German Rape

While this nursery was never thrifty or productive it did not appear to be damaged by the factors that destroyed the safflower. Late weeds were a problem.

Duro rape failed to bolt and consequently produced no seed. The remaining rapes were not competitive under the conditions and produced in the neighborhood of 100-300 pounds of seed per acre.

Crambe appeared to be the most competitive under these unfavorable conditions but produced only 600 pounds of seed to the acre.