

PROJECT TITLE: **CAMELINA FERTILITY TRIAL**

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OBJECTIVE: Assess the effect of different fertilizer rates of phosphorus and sulfur on camelina yield and test weight in northwest Montana.

METHODS:

Three rates of P (0, 15, 30 lbs/a) and 2 rates of S (0 and 15 lbs/a) were applied in a randomized complete block design on 4/11/06 at the Cross Bow ranch near Bigfork, MT. Camelina was seeded at 3 lbs PLS/a on 4/12/06 in 100 ft<sup>2</sup> plots at the Cross Bow Ranch, Bigfork, MT. Seeding depth was ¼ inch.

On 5/20/06 plants were counted in linear foot sections of each row. The height of the mature plants, relative maturity time, and % of plot with shattered seed were recorded. The mature seed was harvested by direct combining.

There were no significant differences in stand establishment, seed yield, or test weight among the treatments. Seed yield averaged 1500 lbs/a.

## Camelina Fertility Trial

Crossbow Ranch, Bigfork

### Stand Establishment (pl/sqft)

<u>P(lbs/a)</u>	<u>S(lbs/a)</u>		mean		
	0	15			
0	13.5	13.4	13.4	LSD(0.05)	NS
15	12.6	12.7	12.6	Pr>F	0.996613
30	12.9	12.5	12.7	CV(%mean)	42.7
mean	13.0	12.9			

### Yield (lbs/a)

<u>P(lbs/a)</u>	<u>S(lbs/a)</u>		mean		
	0	15			
0	1525	1491	1508	LSD(0.05)	NS
15	1557	1504	1531	Pr>F	0.903595
30	1529	1465	1497	CV(%mean)	13.2
mean	1537	1487			

### Test Weight (lbs/bu)

<u>P(lbs/a)</u>	<u>S(lbs/a)</u>		mean		
	0	15			
0	40.4	40.2	40.3	LSD(0.05)	NS
15	40.3	40.3	40.3	Pr>F	0.62449
30	40.3	40.5	40.4	CV(%mean)	1.2
mean	40.3	40.4			