

Table 1. General plot management.

Trial Information	Borderview Research Farm Alburgh, VT
Soil Type	Benson rocky silt loam
Previous crop	Spring Wheat
Planting date	19-Apr
Harvest date	6-Sep
Seeding rate	50 lbs acre ⁻¹
Tillage methods	Mold board plow, disk, and spike toothed harrow

Table 2. Weed control techniques.

Treatment	Row spacing inches	Planter	Cultivation
Narrow row	4.5	Kverneland grain drill	none
Wide row with cultivation	9	Kverneland grain drill	Schmotzer hoe
Tine-weed	6	Great Plains grain drill	Tine-weeder
Interseed	6	Great Plains grain drill	none
Control	6	Great Plains grain drill	none

Table 3. Seasonal weather data¹ collected in Alburgh, VT, 2013.

Alburgh, VT	April	May	June	July	August	September
Average temperature (°F)	43.6	59.1	64	71.7	67.7	59.3
Departure from normal	-1.2	2.7	-1.8	1.1	-1.1	-1.3
Precipitation (inches)	2.12	4.79	9.23 †	1.89	2.41	2.2
Departure from normal	-0.7	1.34	5.54	-2.26	-1.5	-1.44
Growing Degree Days (base 32°F)	349	848	967	1235	1112	824.7
Departure from normal	-35.6	91.4	-47	36.8	-27.2	-33.4

¹Based on weather data from a Davis Instruments Vantage Pro2 with WeatherLink data logger.

Historical averages are for 30 years of NOAA data (1981-2010) from Burlington, VT.

† June 2013 precipitation data based on National Weather Service data from cooperative stations in South Hero, VT (http://www.nrcc.cornell.edu/page_summaries.html)

Table 4. Plot characteristics and harvest yield of flax grown with different weed control techniques, Alburgh, VT.

Treatment	Flax Population plants m²	Weed Population plants m²	Height in	Weed cover %	Yield lbs. ac⁻¹
Wide w/ hoe	404	567	8.1	16.6*	622*
Narrow row	409	352	8.6	14.0*	474*
Control	321	351	7.6	40.8	272
Trial Mean	378	423	8.1	23.8	456
LSD (p<0.10)	NS	NS	NS	15.6	187

*Varieties with an asterisk are not significantly different than the top performer in **bold**.

NS – No significant difference amongst varieties.



Figure 1. Flax control plot.



Figure 2. Wide row flax with Schmotzer hoe.

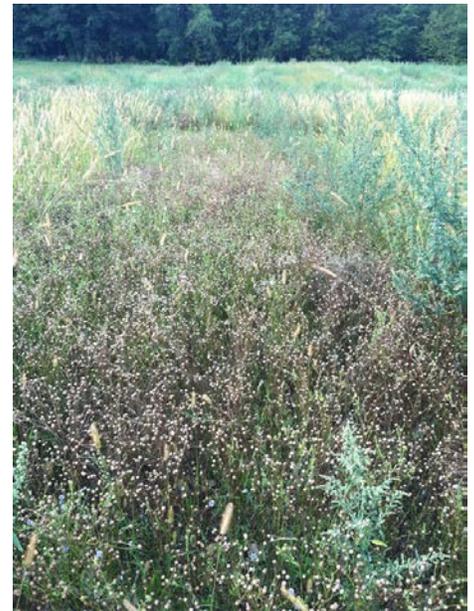


Figure 3. Narrow row flax.

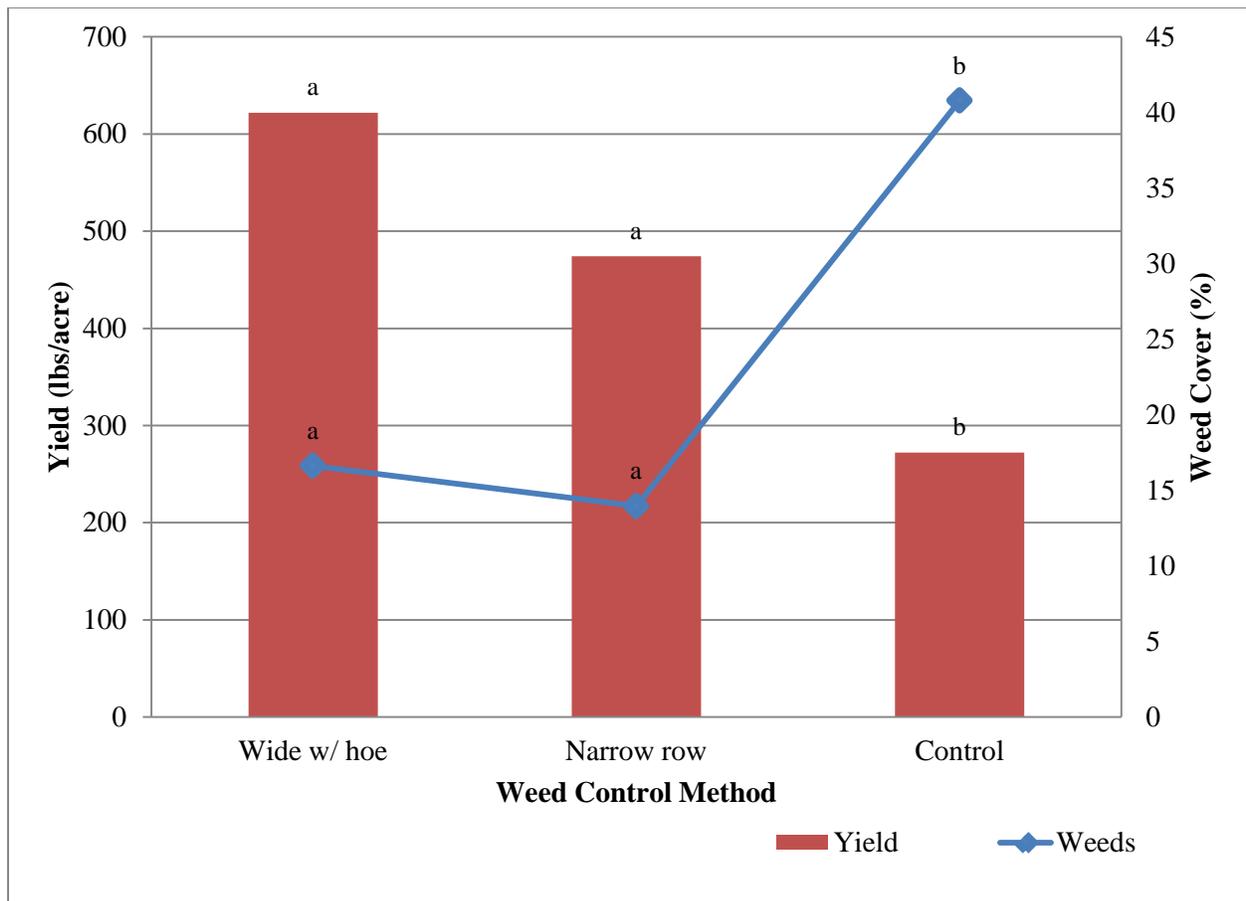


Figure 4. Yield (lbs/acre) and weed cover (%) of flax plots managed with different weed control techniques.