

Camelina density study intercropped with soybean

Each plot size was 1.5m x 5m

Various densities of camelina was broadcast planted by hand on May 6th

Soybean row cropped at 12-16 seeds per foot (60lbs/acre) on June 6th in 38" width rows

Camelina buy @ \$0.58lb and sell @ \$8/bushel

Soybean buy @ \$55 per 60lb bag – 1 bag per acre and sell @ \$13/bushel

1 bushel camelina = 50 lbs seed = 10 lbs oil (39% oil, but only 20% is extracted) = 1.37 gal of biodiesel (7.3 lbs of oil/gal)

camelina density lbs/acre planted (seed cost/acre) Buy at \$0.58lb	ounces of camelina harvested	ounces of soybean harvested	lbs/acre estimation of camelina (bushels at 50lbs and sold @ \$8 a bushel)	lbs/acre estimation of soybean (bushels at 60lbs and sold @ \$13 a bushel)	cost benefit analysis for just overall seed profit	lbs/acre estimation of camelina (bushels at 50lbs- produce 1.37 gal of biodiesel)
0	0	8.805	0	297 (4.9 @ \$63.70)	\$8.70	0
3 (\$1.74)	6.025	4.135	203 (4.1bu @ \$32.80)	139 (2.3bu @ \$29.90)	\$5.96	203 (4.1bu = 5.617gal)
4 (\$2.32)	4.975	3.95	168 (3.4bu @ \$27.20)	133 (2.2bu @ \$28.60)	\$-1.52	168 (3.4bu = 4.658gal)
5 (\$2.90)	5.960	3.51	201 (4.0bu @ \$32.00)	118 (2.0bu @ \$26.00)	\$0.10	201 (4.0bu = 5.480gal)
6 (\$3.48)	6.360	2.955	214 (4.3bu @ \$34.40)	100 (1.7bu @ \$22.10)	\$-1.98	214 (4.3bu = 5.891gal)
7 (\$4.06)	6.390	3.665	216 (4.3bu @ \$34.40)	124 (2.1bu @ \$27.30)	\$2.64	216 (4.3bu = 5.891gal)
8 (\$4.64)	5.755	3.915	194 (3.9bu @ \$31.20)	132 (2.2bu @ \$28.60)	\$0.16	194 (3.9bu = 5.343gal)
9 (\$5.22)	8.965	2.735	302 (6.0bu @ \$48.00)	92 (1.5bu @ \$19.50)	\$7.28	302 (6.0bu = 8.220gal)
10 (\$5.80)	12.460	5.55	420 (8.4bu @ \$67.20)	187 (3.1bu @ \$40.30)	\$46.70	420 (8.4bu = 11.508gal)