Net Returns for 1999 and 2000

Research Results

Prices & Costs Used in Estimating Net Returns

Crop	Crop Price ($/lb)*	1999 Herbicide and Application Costs ($/ac)	2000 Herbicide and Application Costs ($/ac)	Seed Costs ($/ac)	Fertilizer, Planting, and Harvest Costs ($/ac)	Base Loss Cost ($/ac)**
Canola	$0.095	$22.01	$32.43	$13.75	$48.45	$0.00
Crambe	$0.090	$22.01	$22.58	$5.40	$48.45	$0.00
Dry Bean	$0.140	$43.32	$48.52	$25.00	$48.45	$43.05
Field Pea	$0.049	$22.01	$25.11	$24.00	$48.45	$0.00
Flax	$0.093	$30.49	$29.46	$5.25	$48.45	$0.00
Safflower	$0.122	$27.49	$28.37	$8.75	$48.45	$0.00
Soybean	$0.078	$48.80	$66.19	$16.80	$48.45	$0.00
Sunflower	$0.092	$39.82	$40.34	$13.20	$48.45	$0.00
Wheat	$0.049	$24.81	$30.95	$7.80	$48.45	$0.00
Barley	$0.035	$24.81	$30.95	$5.63	$48.45	$0.00

* Higher of average 1998-2000 season-average price for North Dakota and the 2001 commodity loan rate.

** Government payments that would have been lost in 2000 if an acre planted to dry beans resulted in a loss of one acre of wheat base with a proven yield of 35 bu/ac.

1999 Net Returns ($/ac)

1998 Crop Residue \ 1999 Crop	Canola	Crambe	Dry Bean	Field Pea	Flax	Safflower	Soybean	Sunflower	Wheat	Barley
Canola	$44.42	$68.49	$33.64	$16.72	$60.60	$33.47	$35.87	$38.11	$84.77	$77.02
Crambe	$33.95	$75.01	($26.87)	$8.44	$57.77	$18.05	$36.35	$49.70	$68.37	$86.51
Dry Bean	$43.31	$58.10	$78.77	$26.18	$50.78	$20.12	$50.15	$39.10	$72.32	$61.54
Field Pea	$54.29	$122.78	$107.28	$27.55	$43.12	$36.84	$41.44	$52.16	$63.86	$76.83
Flax	$55.48	$76.70	$90.65	$31.03	($18.38)	$17.95	$33.29	$52.24	$87.40	$75.03
Safflower	$28.00	$54.79	$82.65	$25.39	$39.63	($26.58)	$15.18	$5.17	$60.22	$73.83
Soybean	$29.61	$65.34	$95.65	$15.18	$70.00	$19.90	$68.53	$29.98	$79.29	$67.06
Sunflower	$40.25	$74.53	$110.53	$28.82	$59.43	$6.22	$30.22	$14.29	$75.87	$82.44
Wheat	$35.83	$83.87	$94.78	$47.98	$54.86	$35.10	$22.77	$30.06	$77.63	$78.53
Barley	$46.63	$95.63	$71.65	$26.14	$60.77	$43.79	$39.91	$51.34	$75.74	$70.78

Net returns for each crop sequence calculated using 1999 observed yields, and the prices and costs previously identified.

2000 Net Return ($/ac)

1999 Crop Residue \ 2000 Crop	Canola	Crambe	Dry Bean	Field Pea	Flax	Safflower	Soybean	Sunflower	Wheat	Barley
Canola	$9.49	($48.56)	$18.68	$40.03	$15.94	($13.34)	$31.99	($1.60)	$66.71	$26.81
Crambe	$34.43	$18.30	($28.64)	$62.35	$25.51	$18.59	($15.86)	($22.13)	$78.68	$44.71
Dry Bean	$55.02	$6.78	$37.12	$59.84	$46.57	$14.78	$0.23	$33.32	$74.86	$38.82
Field Pea	$39.79	$10.81	$53.93	$35.63	$33.25	$50.08	$20.29	$32.66	$68.81	$37.72
Flax	$35.53	$36.90	$40.24	$53.42	($31.42)	$71.25	$36.87	$16.15	$68.02	$45.63
Safflower	$47.87	$6.22	$16.61	$63.41	$62.96	$4.69	$0.51	($11.13)	$82.23	$35.82
Soybean	$24.89	$22.89	$40.74	$75.65	$59.55	$21.95	$53.09	$3.42	$52.68	$31.03
Sunflower	$34.77	$55.99	$41.37	$37.96	$55.55	$47.14	$70.51	($21.07)	$62.01	$23.97
Wheat	$39.36	$24.58	$19.05	$56.50	$45.07	$50.29	$24.75	$13.69	$46.01	$41.50
Barley	$48.64	$36.42	$43.37	$55.09	$52.56	$51.27	$43.69	$5.06	$64.43	$14.92

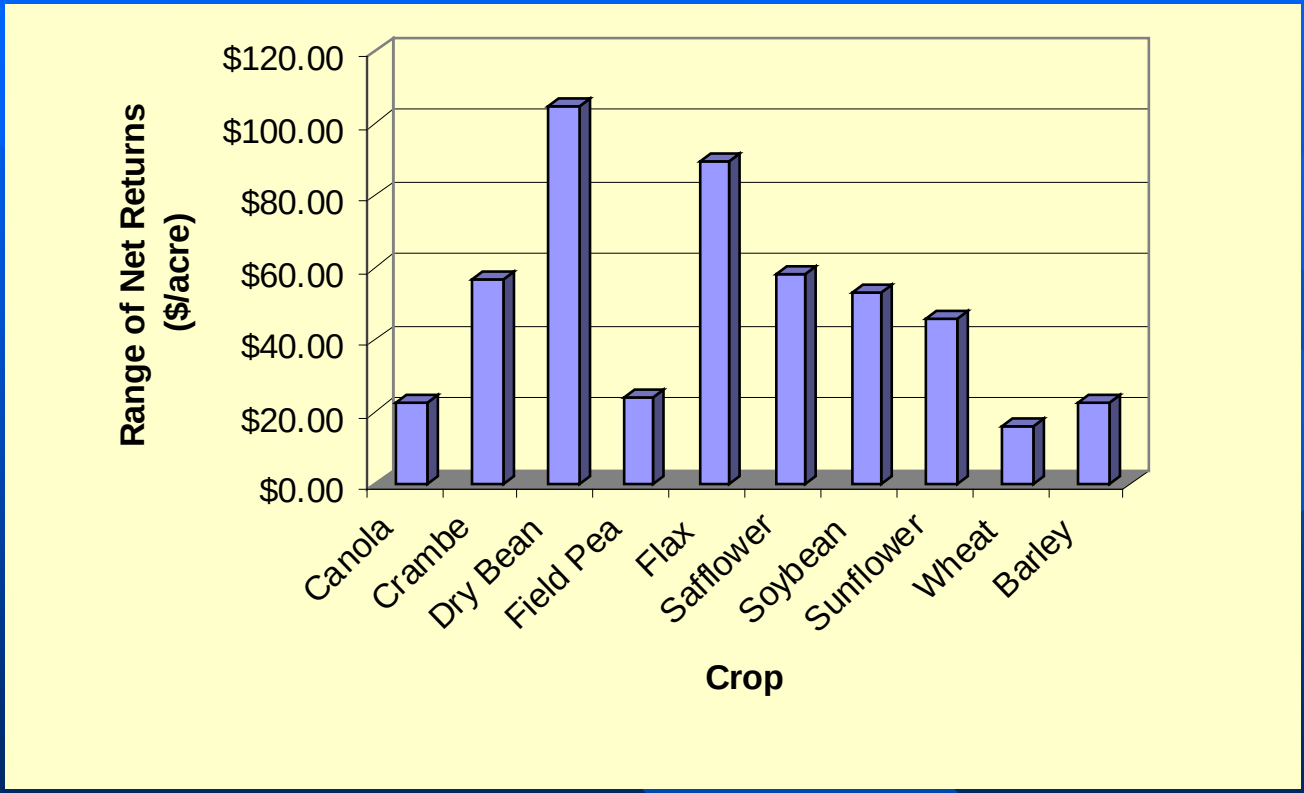
Net returns for each crop sequence calculated using 2000 observed yields, and the prices and costs previously identified.

Average of 1999 & 2000 Net Returns ($/ac)

Crop Residue \ Crop	Canola	Crambe	Dry Bean	Field Pea	Flax	Safflower	Soybean	Sunflower	Wheat	Barley
Canola	$26.96	$9.96	($21.89)	$28.38	$38.27	$10.07	$33.93	$18.26	$75.74	$51.91
Crambe	$34.19	$46.65	($40.54)	$35.40	$41.64	$18.32	$10.25	$13.78	$73.52	$65.61
Dry Bean	$49.17	$32.44	$15.86	$43.01	$48.67	$17.45	$25.19	$36.21	$73.59	$50.18
Field Pea	$47.04	$66.79	$32.39	$31.59	$38.19	$43.46	$30.86	$42.41	$66.33	$57.27
Flax	$45.51	$56.80	$28.24	$42.22	($24.90)	$44.60	$35.08	$34.20	$77.71	$60.33
Safflower	$37.93	$30.50	$50.34	$44.40	$51.29	($10.95)	$7.84	($2.98)	$71.22	$54.83
Soybean	$27.25	$44.12	$34.60	$45.41	$64.78	$20.93	$60.81	$16.70	$65.98	$49.04
Sunflower	$37.51	$65.26	$54.76	$33.39	$57.49	$26.68	$50.37	($3.39)	$68.94	$53.21
Wheat	$37.59	$54.23	$64.04	$52.24	$49.96	$42.70	$23.76	$21.87	$61.82	$60.01
Barley	$47.64	$66.03	($3.06)	$40.61	$56.66	$47.53	$41.80	$28.20	$70.08	$42.85

Net returns for each crop sequence calculated using 1999 & 2000 observed yields, and the prices and costs previously identified.

Potential Cost of Ignoring Crop Sequence Effects ($/ac)



Maximum differences in average net returns that occurred for crops grown on different residues. Net returns for dry beans varied by as much as $105 per acre depending on the previous crop.

Planning Beyond the Current Year

- **Don’t just select the crop that has the highest expected net returns on the current crop residue.**
- **Remember the crop you select this year will affect next year’s net returns as well.**