

PLANTING WITH PRECISION

Profit Gain with Variable Rate Planting

CORN CASE STUDY 1

Soil Type: Loam to Silty Clay Loam Complex

	Fixed Rate	Variable Rate
Plant Population	34,620	36,220
Yield BU/A	169.59	177.94
Drying \$/A	\$6.01	\$6.49
Seed Cost/A	\$108.19	\$113.19
Gross Return/A	\$879.60	\$923.07

PROFIT GAIN OF \$43.47/ACRE

CORN CASE STUDY 2

Soil Type: Loam to Silty Clay Loam

	Fixed Rate	Variable Rate
Plant Population	36,160	36,890
Yield BU/A	218.30	223.46
Drying \$/A	\$10.83	\$11.37
Seed Cost/A	\$114.98	\$117.30
Gross Return/A	\$1,153.43	\$1,180.81

PROFIT GAIN OF \$27.38/ACRE

CORN CASE STUDY 3

Soil Type: Sandy Loam to Silty Clay Loam

	Fixed Rate	Variable Rate
Plant Population	26,066	29,208
Yield BU/A	185.20	210.80
Drying \$/A	\$19.78	\$12.12
Seed Cost/A	\$80.80	\$90.54
Gross Return/A	\$755.04	\$871.23

PROFIT GAIN OF \$116.19/ACRE

CORN CASE STUDY 4

Soil Type: Sandy Loam to Silty Clay Loam

	Fixed Rate	Variable Rate
Plant Population	31,274	33,269
Yield BU/A	204.50	209.95
Drying \$/A	\$14.74	\$15.40
Seed Cost/A	\$96.95	\$103.13
Gross Return/A	\$833.10	\$851.44

PROFIT GAIN OF \$18.34/ACRE

CORN CASE STUDY 5

Soil Type: Sandy Loam to Clay Loam + Muck Soils

	Fixed Rate	Variable Rate
Plant Population	38,000	33,275
Yield BU/A	135.90	134.60
Drying \$/A	\$9.46	\$4.36
Seed Cost/A	\$133	\$116.46
Gross Return/A	\$834.66	\$846.96

PROFIT GAIN OF \$12.30/ACRE

CORN CASE STUDY 6

Soil Type: Loam to Silty Clay Loam Complex

	Fixed Rate	Variable Rate
Plant Population	33,960	31,075
Yield BU/A	155.83	155.27
Drying \$/A	\$1.31	\$1.87
Seed Cost/A	\$106.13	\$96.84
Gross Return/A	\$805.73	\$811.17

PROFIT GAIN OF \$5.44/ACRE

The case studies included here are real examples of profit gain using variable rate planting in southeast Minnesota. Variable rate planting is not guaranteed to work 100% of the time.

