

October 2005



## PROFILE:

Area farmed (acres)	1,000 broadacre application
Trimble systems used	AgGPS® Autopilot™ RTK network automated steering system
System cost	\$20,000
Payback	18.9 months

## GENERAL FARM COSTS:

INPUTS	COSTS
Seed cost per acre per single application (\$/acre)	\$20
Average chemical cost per application including application cost (\$/acre)	\$15
Average fertilizer cost per application including application cost (\$/acre)	\$27
Fuel cost (\$/gallon)	\$1.80
Labor rate (\$/hour)	\$7.50

## TOTAL COSTS AND SAVINGS:

INPUTS	WITHOUT GPS	AUTOPILOT	SAVINGS
Labor cost	\$1,876.45	\$1,159.78	\$716.67
Input cost	\$76,500.00	\$74,096.38	\$2,403.62
Fuel used (gallons)	2,406	1,701	704
Fuel cost	\$4,330.03	\$3,062.04	\$1,267.99

## CORN/SOYBEAN AVERAGES:

INPUTS	WITHOUT GPS	AUTOPILOT	EFFICIENCY INCREASE
Fuel use ate (gallon/hour)	9	9	
Implement width (feet)	38	38	
Overlap (inches)	18	1	4%
Speed (mph)	7	9	32%
Labor productivity (acres/hour)	35	47	38%

## ASSUMPTIONS:

Averages consist of tillage and field preparation, planting, cultivation, spraying, fertilization, and harvesting.

October 2005



## PROFILE:

Area farmed (acres)	1,000 broadacre application
Trimble systems used	AgGPS® Autopilot™ RTK automated steering system
System cost	\$40,000
Payback	37.8 months

## GENERAL FARM COSTS:

INPUTS	COSTS
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Average chemical cost per application including application cost (\$/acre)	\$15
Average fertilizer cost per application including application cost (\$/acre)	\$27
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