



Return on Investment

Valley® Irrigation Helps You Produce More
While Using Fewer Resources



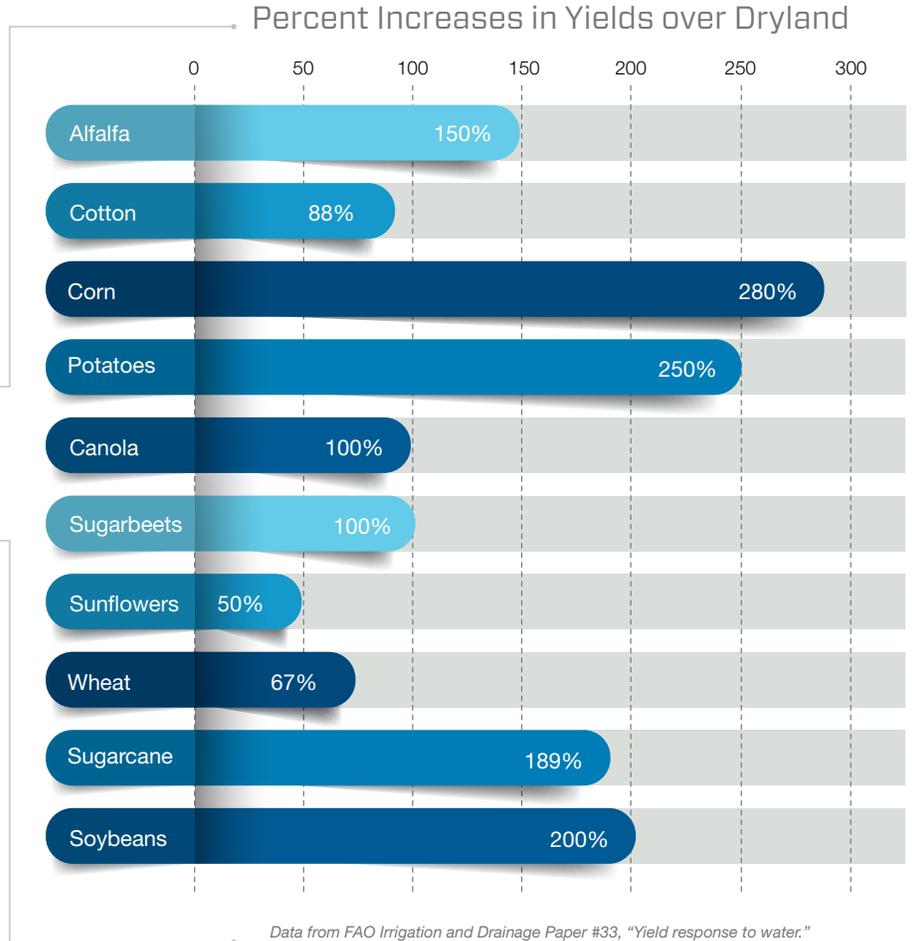
The Leader in Precision Irrigation®

Dryland. Drip irrigation. Flood irrigation. Center pivots.

Growers have many ways to get water to their crops. But different irrigation methods can result in dramatically different returns on investment.

Pivot vs. Dryland

Less than **20%** of the world's harvested land is irrigated, but that irrigated land generates **40%** of global food production



Data from FAO Irrigation and Drainage Paper #33, "Yield response to water." <http://www.fao.org/ag/AGL/aglw/cropwater/parta.stm>

Center Pivots Cost Less and Retain their Value

Initial Investment Cost

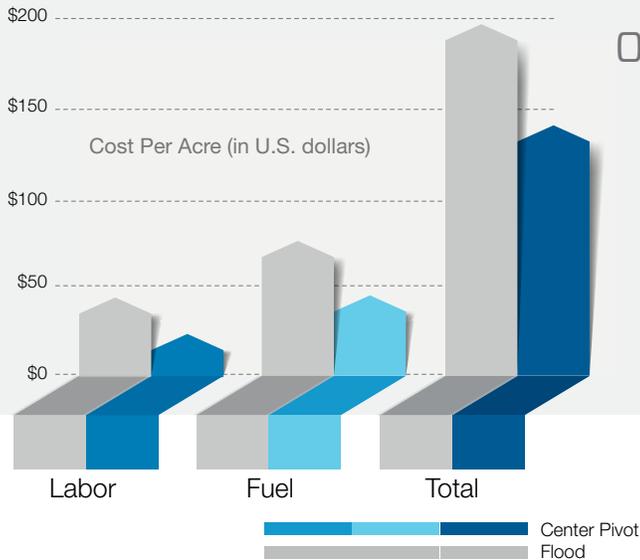
Center Pivot
\$89,010
 Cost per acre (hectare)
 \$712 (\$1,758)

Drip Irrigation
\$206,300
 Cost per acre (hectare)
 \$1,331 (\$3,287)

Total Savings
\$117,290
 Savings per acre (hectare)
\$619 (\$1,529)

It all adds up to greater ROI – Center pivot or linear/lateral irrigation machines can last more than 25-35 years with proper use and maintenance, and they retain their value. Plus, with savings on inputs like water and electricity, labor and time, along with an increase in yields and crop quality, the return on investment can happen in just a few growing seasons.

Even after 15 years, a Valley® pivot still holds a resale value of **50%** of the initial purchase price. Drip systems can not be resold.



Operation Cost of Flood vs. Center Pivot Irrigation

Pivot vs. Flood

- Flood irrigation efficiency can be as low as **40-50%**.
- Center pivot irrigation reaches **95%** application efficiency or greater.¹

1. "Food for all." World food summit. Agricultural machinery worldwide. www.fao.org Date from "Nebraska Crop Budgets, 2010" <http://extension.unl.edu/publications>

Labor & Maintenance Timing Comparison

Pivot Irrigation			VS.	Drip Irrigation			
Monthly	Filter			Daily	Flush Filter	Monthly	Flush Lines
Annually	Check oil levels in gearboxes and center drives			Weekly	Flush Lines, Chlorinate	Annually	Filter, Check Valves, Confirm emitter performance, Chlorinate

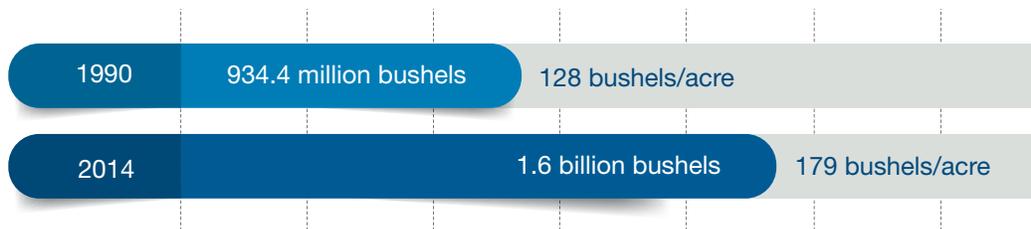
Maintenance on CENTER PIVOTS is simple and inexpensive vs. the daily and weekly addition labor involved on DRIP.



Center Pivot Irrigation Efficient Use of Water

Water usage per bushel of corn produced in Nebraska

3,800 gallons in 1990
2,300 gallons in 2014





Proven in Fields

In a 2010 field study, the use of VRI addressed field variability, and light textured soils yielded well, even in a dry year. Also, 12% less water was applied by using the VRI prescription across the field, reducing water and energy use.*

*Variable Rate Irrigation 2010 Field Results for Center Plains Conference. Jacob L. LaRue, Valmont Irrigation. <http://www.ksre.ksu.edu/Irrigate/OOW/P11/Larue11.pdf>

ROI Comparison

	FLOOD	PIVOT	DRIP
Increased Yields Over Dryland	✓	✓	✓
Precision		✓	✓
Labor/Time Savings		✓	
Simple Maintenance	✓	✓	
Versatility of Water Source		✓	
Water Efficiency		✓	✓
Germination		✓	
Fertigation		✓	
Crop Rotation	✓	✓	
Soil Protection		✓	
Reliability		✓	

Field studies during 2018-19 demonstrated the ROI possible with smarter irrigation decisions. Potato fields with Valley Scheduling™ averaged 13 cwt/acre greater yield with an estimated \$24,626 (USD) additional revenue compared to fields without. In another study, silage corn yield increased by 20% with an estimated value of 22,825 (USD) in extra revenue. Both of these examples represent an ROI of 14x!



Unsurpassed Service from the Industry-Best Dealer Network

Valley dealers are your partners – their extensive knowledge and experience lets them find new ways to irrigate those difficult acres, make an operation more efficient, discover new practices for conserving resources, deliver a return on investment and make life simpler through technology.

The bottom line: Your Valley dealer can help you achieve a higher return with top-of-the-line irrigation equipment and technology. Call your Valley Dealer today.



See your local authorized Valley dealer for complete details.

valleyirrigation.com



Valmont® Irrigation has a policy of continuous product improvement and development. As a result, certain changes in standard equipment, options, price, etc. may have occurred after the publication of this brochure. Some photographs and specifications may not be identical to current production. Your local Valley® dealer is your best source for up-to-date information. Valmont Irrigation reserves the right to change product design and specifications at any time without incurring obligations.

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