Tall Crop Irrigation

VALLEY®

Raise Your Profits

Increase Tall Crop Profitability

No matter if you raise fruit, citrus, sugar cane, coffee or nuts, you've invested your life's work into growing, nurturing and harvesting your crop. So naturally, you want to earn the largest possible return.

Discover why more growers around the world choose Valley® mechanized irrigation to assure bountiful tall crops, season after season.

Precision Application

A Valley center pivot or linear irrigation unit applies water below the leaf canopy, precisely irrigating the root zone to maximize plant growth and development…and minimize algae growth and disease risk.

Lower Your Costs

The per-hectare/acre cost of irrigating with Valley mechanized irrigation equipment is significantly lower than using other irrigation methods including drip, micro-spray or overhead sprinkler. One technician can operate up to 25 Valley center pivots, saving both time and labor costs.

Compare Valley for Yourself

Eliminate These Common Problems						
	Emitter plugging and inspection	***Chemicals and water applied to plant leaves***	***Algae growth***	***Filter maintenance***	***Damage to system from animals and cultivation equipment***	***Equipment reinstallation at replant***
VALLEY®	***SOLUTION***	***SOLUTION***	***SOLUTION***	***SOLUTION***	***SOLUTION***	***SOLUTION***
Drip Irrigation	PROBLEM	SOLUTION	PROBLEM	PROBLEM	PROBLEM	PROBLEM
Micro-Spray	PROBLEM	SOLUTION	PROBLEM	PROBLEM	PROBLEM	PROBLEM
Overhead Sprinkler	SOLUTION	PROBLEM	SOLUTION	SOLUTION	PROBLEM	PROBLEM

Based on a minimum field size of 40 hectares.
* See your local dealer for more specific prices for each of these products and for specific equipment life expectancies of each individual brand.

System Characteristics			
Equipment life expectancy*	***Water use efficiency***	***Precise irrigation applications***	***Remote monitor and control capabilities***
15-25 Yrs	***75-90%***	***YES***	***YES***
Drip 5–15 Yrs	75–90%	YES	YES
5–15 Yrs	75–90%	YES	YES
Overhead 10–15 Yrs	70–80%	NO	NO

Frequently Asked Questions

What is the maximum crop clearance under a Valley® center pivot or linear unit?

You have a choice of three crop clearances: 4,6 meters (15 ft), 3,75 meters (12.3 ft) or 2,74 meters (9 ft).

Is it possible to use a Valley irrigation unit (pivot or linear) when a crop's normal height exceeds the crop clearance of the Valley ultra-high profile system?

Yes. Trees can be pruned to a height within crop clearance specifications.

Does Valley mechanized irrigation use more water than drip and micro-spray irrigation methods?

No. A Valley mechanized irrigation unit uses about the same amount of water as drip or micro-spray irrigation methods.

What is the installed per-hectare/acre cost of a Valley center pivot compared to other types of irrigation methods?

Your Valley dealer can provide accurate cost comparisons. You will learn that the overall per-hectare/acre cost of irrigating with Valley mechanized equipment is *lower* than the cost of other methods.

How much labor is required to operate and maintain a Valley center pivot?

A typical trained technician can operate and maintain 15–25 center pivot units (500–700 hectares or 1,200–1,700 acres).

Do center pivots and linear-move machines apply water to the leaves of the plant or tree?

No. Special spray drops apply water *underneath* the tree canopy and directly *above* the root zone to promote growth and minimize plant disease risk.

Can I apply fertilizer to my orchard crops with a Valley center pivot or linear unit?

Yes. Fertilizer can be injected directly into the water supply, enabling you to maintain tight control of fertilizer application and costs.

Do center pivot and linear units require an expensive water filtering system similar to the ones needed by drip and micro-spray systems?

No. A Valley center pivot will only need a screened intake. That's because sprinkler orifices range from 2 mm to 10 mm (.08" to .40") in diameter.

How much pump pressure do I need for a center pivot?

Typical pressure needed on a 40-hectare (98 acre) field pumping 60 liters per second is only 2–2,4 atmospheres (30–35 psi).

What is the normal life expectancy of a Valley center pivot?

A typical Valley center pivot will last 15–25 years if it receives normal maintenance service and the water supply is noncorrosive.

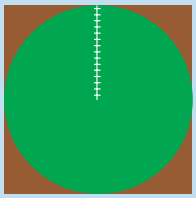
Is it difficult to plant trees in concentric circles?

No. A center pivot is like a large compass. The pivot system can be installed before planting and used to scribe row markings in the soil at the exact row spacings.

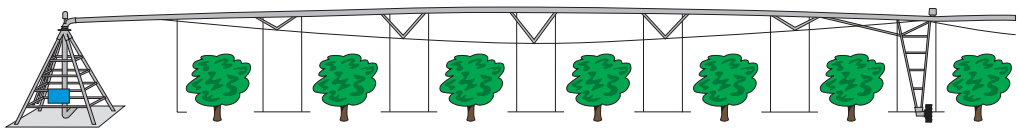
What can be done to irrigate field corners of square or rectangular fields?

You can use other, less economical irrigation methods in the corners. In this situation, the combination system still offers you a *much lower total installed cost,* since 70–80% of a square field will be irrigated by the center pivot.

Valley® Center Pivot Units

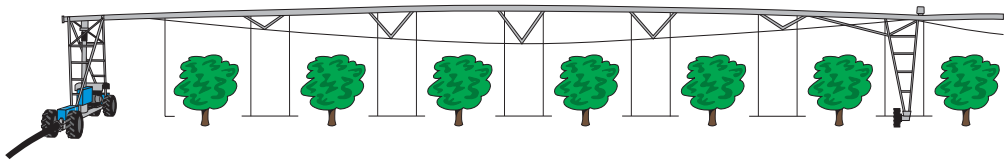


- Custom-designed to fit your field and irrigation needs
- A wide range of options and features available



Valley Linear Units

- Irrigate up to 98% of planted area in square or rectangular fields
- Irrigate 4–400 hectares (10–1,000 acres) with slopes up to 6%
- Linear units are towable between fields for maximum machine economy



Span Crop Clearances

Standard unit	2,74 meters (9 ft)
High-profile unit	3,75 meters (12.3 ft)
Ultra high-profile unit	4,6 meters (15 ft)

For a complete explanation of specifications and features, please see your local authorized Valley® equipment dealer:

valmont IRRIGATION

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