## ONTARGET SPRAY SYSTEMS

### **CITRUS** 1,000 ACRES CASE STUDY

#### **CONTACT US**

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## Background

In California, managing pest control for 324,000 acres of citrus poses significant operational and environmental challenges.

## Growing pains currently facing air-blast sprayers.

Labor shortages
Fuel prices
Increased regulation
Tank refill time
Water use efficiency

This leads to higher costs and time-intensive applications.

In contrast, OnTarget sprayers offer a modernized approach designed to **optimize resources, improve efficiency**, and **enhance environmental stewardship**.

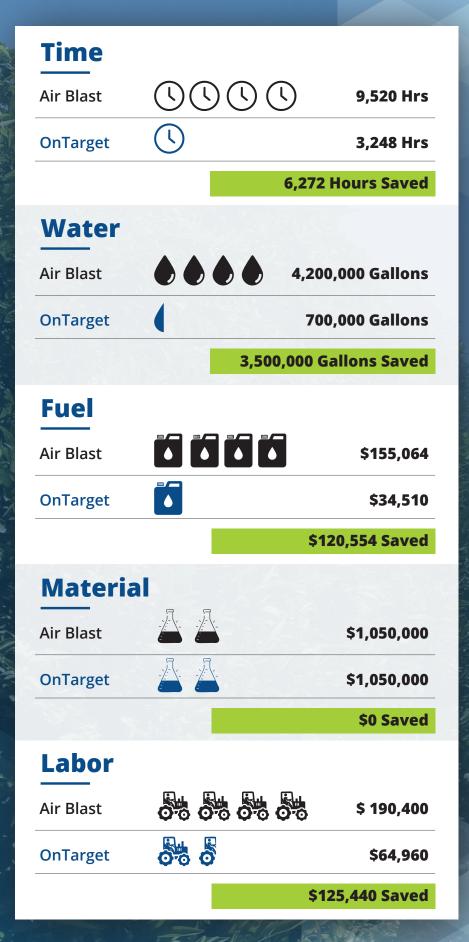
1,000 Acres- One Season	Air Blast	OnTarget Sprayer	
Sprayer Tank Size	(Gallons)	600	600
Ground Speed While Spraying	(Miles Per Hour)	2.25	2.75
Water Used Per Acre	(Gallons)	300	50
Row Width	(Feet)	20	20
Boom Configuration	(# of Rows)	1	1
Fuel Consumption	(Gallons Per Hour)	6	3
Percentage of Label Rate Actually Used	(% Per Acre)	100%	100%

**Trial Operation** 

Average Spray Applications Per Season	#	14
Cost of Fuel	(\$ Per Gallon)	\$4.25
Cost of Material	(\$ Per Acre)	\$75
Cost of Labor	(\$ Per Hour)	\$20
Field Size	(Acres)	10,000
Percentage of Label Rate Actually Used	(Acres)	100%

Total savings with OnTarget Sprayers:

\$245,994





C	Time Savings Details	Air Blast Sprayer	OnTarget Sprayer
	Time Per Row	6.7 Minutes	5.5 Minutes
	Time Required to Spray Field Once	184.3 Hours	151.3 Hours
	Tank Fills Required to Spray Field Once	500	84
	Time Required to Fill Tank Once	30 Minutes	30 Minutes
	Total Fill Time	250 Hours	42 Hours
	Acres Sprayed Per Hour	2.3 Acres/Hr	5.2 Acres/Hr
	Acres Sprayed Per Tank	2 Acres/Tank	12 Acres/Tank
	Total Acres Sprayed Per Season	14,000 Acres	14,000 Acres
	Total Time Spent Filling Per Season	3,500 Hours	588 Hours
	Total Time Spraying Per Season	6,020 Hours	2,660 Hours



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Water Savings Details	Air Blast Sprayer	OnTarget Sprayer
Sprayer Tank Fills Required	500	84
Water Required for One Field Pass	300,000 Gallons	50,000 Gallons

Fuel Savings Details	Air Blast Sprayer	OnTarget Sprayer
Gallons of Fuel Required for Field	2,606 Gallons	580 Gallons
Cost of Fuel Per Acre	\$11.08	\$2.47
Total Cost of Fuel for One Field Pass	\$11,076	\$2,465
Total Acres Sprayed Per Season	14,000 Acres	14,000 Acres
Total Cost of Fuel Per Season	\$15,5064	\$34,510

Material Savings Details	Air Blast Sprayer	OnTarget Sprayer
Total Acres Sprayed Per Season	14,000 Acres	14,000 Acres
Average Material Cost Per Season	\$1,050,000	\$1,050,000



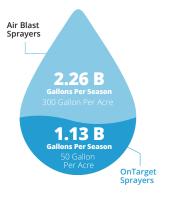
# Make the **Switch**

Unlock Massive Savings for the California Citrus Industry!



Water Savings







**Fuel Efficiency** 

#### **\$39 M** in Fuel Costs

This reduction minimizes emissions and operational expenses, directly benefiting both the environment and the bottom line.





**2 M** Hours Saved Per Season





**Overall Cost Savings** 

#### **\$79.7 M** Per Season

These savings demonstrate the financial viability and operational benefits of transitioning to OnTarget technology.



## **Conclusion:** The OnTarget Transformation

By switching to OnTarget sprayers, California citrus growers can significantly cut resource consumption, lower costs, and achieve sustainability goals. Outperforming traditional sprayers, OnTarget technology enhances scalability, maximizes financial savings, and establishes itself as an essential tool for modern citrus farming.

#### TRY IT FOR FREE!

#### **OnTarget Spray Systems**

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## We extend our sincere gratitude to the following contributors to this case study:

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