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Background

In California, managing pest control for 1,560,000 acres of almonds 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	Comparison	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)	150	40
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	#	8
Cost of Fuel	(\$ Per Gallon)	\$4.25
Cost of Material	(\$ Per Acre)	\$75
Cost of Labor	(\$ Per Hour)	\$20
Field Size	(Acres)	1,000
Percentage of Label Rate Actually Used	(Acres)	100%

Total savings with OnTarget Sprayers:

\$79,704





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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	250	67
Time Required to Fill Tank Once	30 Minutes	30 Minutes
Total Fill Time	125 Hours	33.5 Hours
Acres Sprayed Per Hour	3.2 Acres/Hr	5.4 Acres/Hr
Acres Sprayed Per Tank	2 Acres/Tank	15 Acres/Tank
Total Acres Sprayed Per Season	8,000 Acres	8,000 Acres
Total Time Spent Filling Per Season	309.3 Hours	184.8 Hours
Total Time Spraying Per Season	2,480 Hours	1,440 Hours



Water Savings Details	Air Blast Sprayer	OnTarget Sprayer
Sprayer Tank Fills Required	250	67
Water Required for One Field Pass	150,000 Gallons	40,000 Gallons



Fuel Savings Details	Air Blast Sprayer	OnTarget Sprayer
Gallons of Fuel Required for Field	1,856 Gallons	554 Gallons
Cost of Fuel Per Acre	\$7.89	\$2.36
Total Cost of Fuel for One Field Pass	\$7,888	\$2,355
Total Acres Sprayed Per Season	8,000 Acres	8,000 Acres
Total Cost of Fuel Per Season	\$63,104	\$18,840



Material Savings Details	Air Blast Sprayer	OnTarget Sprayer
Total Acres Sprayed Per Season	8,000 Acres	8,000 Acres
Average Material Cost Per Season	\$600,000	\$600,000

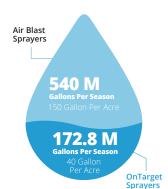






Water Savings

1.3 B Gallons Saved Per Season







Fuel Efficiency

\$69 M in Fuel Costs

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





Labor Reduction

1.6 MHours Saved Per Season



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\$2.7 M Savings



Overall Cost Savings

\$124 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 almond 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 almond farming.

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The OnTarget Sprayer calculator team for their efforts in

showcasing performance differences.