ONTARGET
SPRAY SYSTEMS

TABLE GRAPES
1,000 ACRES
CASE STUDY

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Background

In California, managing pest control for 125,000 acres of table grapes 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)	400	400
Ground Speed While Spraying	(Miles Per Hour)	2.75	3.50
Water Used Per Acre	(Gallons)	200	15
Row Width	(Feet)	12	12
Boom Configuration	(# of Rows)	1	1
Fuel Consumption	(Gallons Per Hour)	5.25	.25
Percentage of Label Rate Actually Used	(% Per Acre)	100%	100%

Total savings with OnTarget Sprayers: **$358,110**

Trial Operation

Average Spray Applications Per Season	#	18
Cost of Fuel	($ Per Gallon)	$4.50
Cost of Material	($ Per Acre)	$65
Cost of Labor	($ Per Hour)	$20
Field Size	(Acres)	1,000
Percentage of Label Rate Actually Used	(Acres)	100%

Time

Air Blast		13,500 Hrs
OnTarget		4,302 Hrs
		9,198 Hours Saved

Water

Air Blast		3,600,000 Gallons
OnTarget		270,000 Gallons
		3,330,000 Gallons Saved

Fuel

Air Blast		$213,516
OnTarget		$39,366
		$174,150 Saved

Material

Air Blast		$1,170,000
OnTarget		$1,170,000
		$0 Saved

Labor

Air Blast		$270,000
OnTarget		$86,040
		$183,960 Saved

Time Savings Details

	Air Blast Sprayer	OnTarget Sprayer
Time Per Row	5.5 Minutes	4.3 Minutes
Time Required to Spray Field Once	252.1 Hours	197.1 Hours
Tank Fills Required to Spray Field Once	500	38
Time Required to Fill Tank Once	30 Minutes	30 Minutes
Total Fill Time	250 Hours	19 Hours
Acres Sprayed Per Hour	2 Acres/Hr	4.6 Acres/Hr
Acres Sprayed Per Tank	2 Acres/Tank	15 Acres/Tank
Total Acres Sprayed Per Season	18,000 Acres	18,000 Acres
Total Time Spent Filling Per Season	4,500 Hours	342 Hours
Total Time Spraying Per Season	9,000 Hours	3,960 Hours

Water Savings Details

	Air Blast Sprayer	OnTarget Sprayer
Sprayer Tank Fills Required	500	38
Water Required for One Field Pass	200,000 Gallons	15,000 Gallons

Fuel Savings Details

	Air Blast Sprayer	OnTarget Sprayer
Gallons of Fuel Required for Field	2,636 Gallons	486 Gallons
Cost of Fuel Per Acre	$11.86	$2.19
Total Cost of Fuel for One Field Pass	$11,862	$2,187
Total Acres Sprayed Per Season	18,000 Acres	18,000 Acres
Total Cost of Fuel Per Season	$213,516	$39,366

Material Savings Details

	Air Blast Sprayer	OnTarget Sprayer
Total Acres Sprayed Per Season	18,000 Acres	18,000 Acres
Average Material Cost Per Season	$1,170,000	$1,170,000

Case study

Table Grapes

1,000 Acres

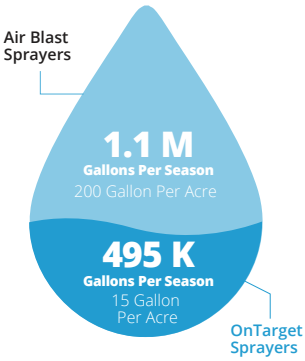
Make the Switch™

Unlock Massive Savings for the California Table Grape Industry!

01

Water Savings

416 M
Gallons Saved Per Season

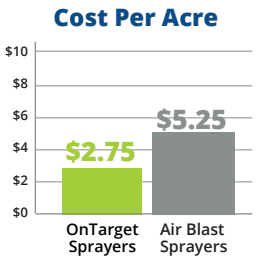


02

Fuel Efficiency

$20 M
in Fuel Costs

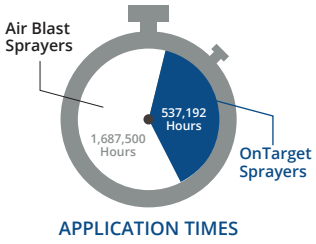
This reduction minimizes emissions and operational expenses, directly benefiting both the environment and the bottom line.



03

Labor Reduction

1.1 M
Hours Saved Per Season



APPLICATION TIMES

$23 M Savings

04

Overall Cost Savings

$43.6 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 table grape 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 table grape farming.

TRY IT FOR FREE!

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