

The background of the slide is a collage of images of red and yellow apples, some with green leaves, set against a dark, textured background. Overlaid on this are several large, semi-transparent geometric shapes in various shades of blue and green, creating a modern, abstract design.

APPLES **1,000 ACRES** CASE STUDY

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Background

In the U.S. west coast, managing pest control for 180,000 acres of apples 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)	2.25	2.75
Water Used Per Acre	(Gallons)	125	40
Row Width	(Feet)	12	12
Boom Configuration	(# of Rows)	1	1
Fuel Consumption	(Gallons Per Hour)	5.25	2.75
Percentage of Label Rate Actually Used	(% Per Acre)	100%	100%

Total savings with OnTarget Sprayers:

\$301,032

Trial Operation

Average Spray Applications Per Season	#	24
Cost of Fuel	(\$ Per Gallon)	\$4.50
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%

Time

Air Blast     14,796 Hrs

OnTarget    8,400 Hrs

6,396 Hours Saved

Water

Air Blast     3,000,000 Gallons

OnTarget   960,000 Gallons

2,040,000 Gallons Saved

Fuel

Air Blast     \$262,872

OnTarget   \$89,760

\$173,112 Saved

Material

Air Blast   \$1,800,000

OnTarget   \$1,800,000

\$0 Saved

Labor

Air Blast     \$295,920

OnTarget  \$168,000

\$127,920 Saved



Time Savings Details

	Air Blast Sprayer	OnTarget Sprayer
Time Per Row	6.7 Minutes	5.5 Minutes
Time Required to Spray Field Once	307.1 Hours	252.1 Hours
Tank Fills Required to Spray Field Once	313	100
Time Required to Fill Tank Once	30 Minutes	30 Minutes
Total Fill Time	156.5 Hours	50 Hours
Acres Sprayed Per Hour	2.2 Acres/Hr	3.3 Acres/Hr
Acres Sprayed Per Tank	2 Acres/Tank	15 Acres/Tank
Total Acres Sprayed Per Season	24,000 Acres	24,000 Acres
Total Time Spent Filling Per Season	463.6 Hours	302.1 Hours
Total Time Spraying Per Season	11,040 Hours	7,200 Hours



Water Savings Details

	Air Blast Sprayer	OnTarget Sprayer
Sprayer Tank Fills Required	313	100
Water Required for One Field Pass	125,000 Gallons	40,000 Gallons



Fuel Savings Details

	Air Blast Sprayer	OnTarget Sprayer
Gallons of Fuel Required for Field	2,434 Gallons	831 Gallons
Cost of Fuel Per Acre	\$10.95	\$3.74
Total Cost of Fuel for One Field Pass	\$10,953	\$3,740
Total Acres Sprayed Per Season	24,000 Acres	24,000 Acres
Total Cost of Fuel Per Season	\$262,872	\$89,760



Material Savings Details

	Air Blast Sprayer	OnTarget Sprayer
Total Acres Sprayed Per Season	24,000 Acres	24,000 Acres
Average Material Cost Per Season	\$1,800,000	\$1,800,000



Case study

Apples

1,000
Acres





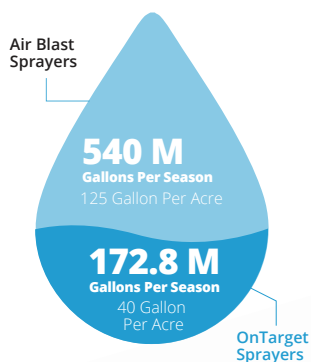
Make the Switch™

Unlock Massive Savings for the U.S. West Coast Apple Industry!

01

Water Savings

109.2 M
Gallons Saved
Per Season

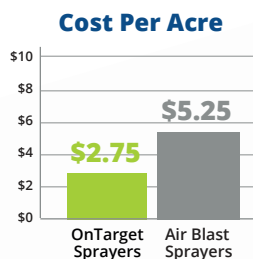


02

Fuel Efficiency

\$31.1 M
in Fuel Costs

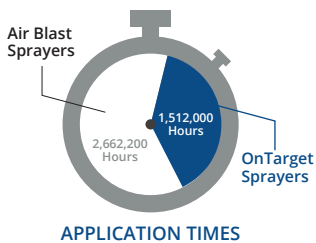
This reduction minimizes emissions and operational expenses, directly benefiting both the environment and the bottom line.



03

Labor Reduction

375,192
Hours Saved
Per Season



\$1.1 M
Savings

04

Overall Cost Savings

\$54.1 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, U.S. west coast apple 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 apple farming.

**TRY IT
FOR
FREE!**

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