

CITRUS
1,000 ACRES
CASE STUDY

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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 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) | 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

Time

Air Blast  **9,520 Hrs**

OnTarget  **3,248 Hrs**

6,272 Hours Saved

Water

Air Blast  **4,200,000 Gallons**

OnTarget  **700,000 Gallons**

3,500,000 Gallons Saved

Fuel

Air Blast  **\$155,064**

OnTarget  **\$34,510**

\$120,554 Saved

Material

Air Blast  **\$1,050,000**

OnTarget  **\$1,050,000**

\$0 Saved

Labor

Air Blast  **\$ 190,400**

OnTarget  **\$64,960**

\$125,440 Saved



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 |



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 |



Case study

Citrus

1,000
Acres



Make the Switch

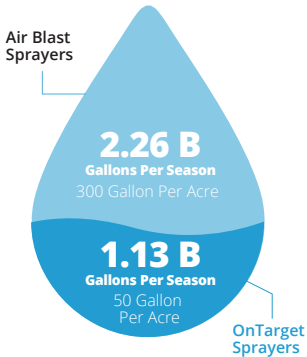
Unlock Massive Savings for the California Citrus Industry!



01

Water Savings

1.34 B
Gallons Saved
Per Season

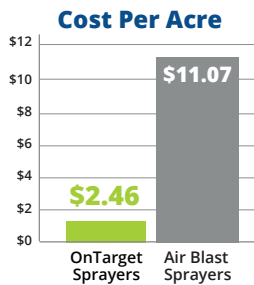


02

Fuel Efficiency

\$39 M
in Fuel Costs

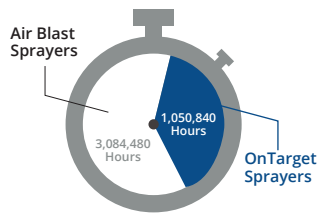
This reduction minimizes emissions and operational expenses, directly benefiting both the environment and the bottom line.



03

Labor Reduction

2 M
Hours Saved
Per Season



APPLICATION TIMES

\$40.6 M
Savings

04

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.



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FOR
FREE!**

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