SPRAYER COMPARISON - HOPS



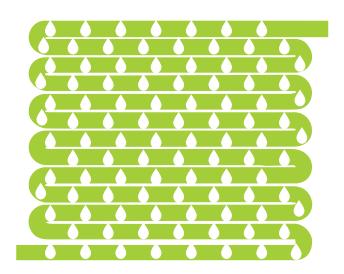
On Target vs Conventional Sprayers

1 TRACTORS

1 workers

1 SPRAYERS

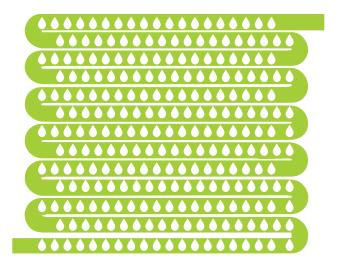




ON TARGET GPA **100 TANK REFILLS** (rounded)

1,000 acres x 40 GPA = 40,000 gallons of water 40,000 gallons of water/400 gallon tank = 100 tank refills

TANK SIZE MPH # OF ROWS **ROW WIDTH** 400 gal. 12 ft



CONVENTIONAL GPA **250 TANK REFILLS** (rounded)

1,000 acres x 100 GPA = 100,000 gallons of water 100,000 gallons of water/400 gallon tank = 250 tank refills

TANK SIZE MPH # OF ROWS **ROW WIDTH** 12 ft 400 gal. 2.5



SPRAYER COMPARISON SHEET



On Target vs Conventional Sprayers

TANK SIZE MPH ROWS WIDTH ACRES APPLICATIONS WATER GPA



On Target	400 gal.	3	1	12 ft	1,000	12	40
Conventional	400 gal.	2.5	1	12 ft	1,000	12	100

TANK FILLS

WATER

	GALLONS	TAIRTIELS
On Target	480,000	100
Conventional	1,200,000	250

GALLONS

ON TARGET TOTAL SAVINGS:

One Season **Five Seasons** 720,000 gallons 150 fewer refills

3,600,000 gallons 750 fewer refills

LABOR

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On Target	3,960 (\$20)	\$79,200
Conventional	6,300 (\$20)	\$126,000

HOURS (Rate) COST

ON TARGET TOTAL SAVINGS:

One Season Five Seasons \$46,800 \$234,000

DIESEL



	GALLONS	COST
On Target	10,056	\$35,196
Conventional	25,200	\$88,200

ON TARGET TOTAL SAVINGS:

One Season Five Seasons \$53,004 \$265,020 15,144 gallons 75,720 gallons

TOTAL SAVINGS:

One Season \$99,804

Five Seasons \$499,020

Labor Savings Details	On Target	Conventional
Labor per row	5 mins.	6mins.
Labor required to spray field once	229.2 hrs.	275 hrs.
Tank Fills required to spray field once	100	250
Labor required to fill tank once	30 mins.	30 mins.
Total fill time	50 hrs.	125 hrs.
Acres sprayed per hour	3.6 scres/hr	2.5 acres/hr
Labor required to spray one acre	.28 hrs.	.4 hrs.
Total acrea sprayed per season	12,000 acres	12,000 acres
Total labor spent filling per season	600 hrs.	1,500 hrs.
Total labor to spray field once, including filling	279.2 hrs.	400 hrs.
Total labor spraying per season	3,360 hrs.	4,800 hrs.

Water Savings Details	On Target	Conventional
Sprayer tank fills required	100	250
Water required for one field pass	40,000 gal.	100,000 gal.

Diesel Savings Details	On Target	Conventional
Gallons of fuel required for field	838 gal.	2,100 gal.
Cost of fuel per acre	\$2.93	\$7.35
Total cost of diesel for one field pass	\$2,933	\$7,350
Total acres sprayed per season	12,000 acres	12,000 acres
Total cost of diesel per season	\$35,196	\$88,200

Materials Savings Details	On Target	Conventional
Total acres sprayed per season	12,000 acres	12,000 acres
Average material cost per season	\$720,000	\$720,000

