# **SPRAYER COMPARISON** - HOPS **On Target** vs Conventional 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.	3	1	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
400 gal.	2.5	1	12 ft



#### **SPRAYER COMPARISON SHEET**

On Target vs Conventional Sprayers										
		TANK SIZE	МРН	ROWS	WIDTH	ACRES	APPLICAT	IONS	WATER GPA	
	On Target	400 gal.	3	1	12 ft	1,000	12		40	
MODEL	Conventional	400 gal.	2.5	1	12 ft	1,000	12		100	
		GALLONS TANK FILLS		_	ON TARGET TOTAL SAVINGS:					
	On Target	480,000	1	100		One Season		Five Seasons		
WATER U	Conventional	1,200,000		250		720,000 gallons 150 fewer refills			3,600,000 gallons 750 fewer refills	
					L					
		HOURS (Rate) COST		_	ON TARGET TOTAL SAVINGS:					
	On Target	3,960 (\$20	C) \$	79,200		<b>One Season</b> \$46,800		Fiv	e Seasons	
	Conventional								\$234,000	
	Conventional	6,300 (\$20	C) \$	5126,000		\$46,800		\$23	34,000	
	Conventional	6,300 (\$20	0) \$	5126,000		\$46,800		\$23	34,000	
		6,300 (\$20		соят		·	TARGET TO		·	
	On Target		(			·		DTAL S	·	
DIESEL		GALLONS	\$	COST		<b>ON</b> <b>One Sea</b> \$53,004	ason	DTAL S Fiv \$26	AVINGS: e Seasons 5,020	
DIESEL	On Target	<b>GALLONS</b> 10,056	\$	с <b>оsт</b> 535,196		ON One Sea	ason	DTAL S Fiv \$26	AVINGS: e Seasons	

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

