

SPRAYER COMPARISON - WINE GRAPES **On Target vs Conventional Sprayers**





ON TARGET GPA 50 TANK REFILLS (rounded)

1,000 acres x 15 GPA = 15,000 gallons of water 15,000 gallons of water/300 gallon tank = 50 tank refills

TANK SIZE	MPH	# OF ROWS	ROW WIDTH
300	3.5	1	8 ft



AIRBLAST GPA

334 TANK REFILLS (rounded)

1,000 acres x 100 GPA = 100,000 gallons of water 100,000 gallons of water/300 gallon tank = 333.333333 tank refills

TANK SIZE	МРН	# OF ROWS	ROW WIDTH
300	3	1	8 ft



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							SPRAYE	R COMPARIS	SON SHEET
On Ta	rget	vs C	on	ve	nti	ona	I Spr	ayers	
		TANK SIZE	МРН		WIDTH				
	On Target	300 gal	3.5	1	8 ft	1,000	12	15 15	
MODEL	Conventional	U	3	1	8 ft	1,000	12	100	
		GALLONS TANK FILLS		;	ON TARGET TOTAL SAVINGS:			_	
	On Target	180,000	50			One Sea		Five Seasons	
WATER	Conventional	1,200,000 334					,100,000 gallons ,420 fewer refills		
		HOURS (Rate) COST			ON TARGET TOTAL SAVINGS:				
	On Target	4,140 (\$2	0) \$8	32,800		One Sea	ison	Five Seasons	7
	Conventional	8,124 (\$2	0) \$1	62,480		\$79,680		\$398,400	
		GALLONS	co	ST		ON TARGET TOTAL SAVINGS:			
DIESEL	On Target	11,544	\$4	0,404		One Season Five Seasons		Five Seasons	
	Conventional	32,184	\$1	12,644		\$72,240 20,640 g		361,200 03,200 gallons	
					L	, 0		, 0	
				TOTAL		One Sea		Five Seasons	7
				SAVING	iS:	\$151,92	0 9	\$759,600	

Labor Savings Details	On Target	Conventional
Labor per row	4.3 mins	5 mins
Labor required to spray field once	295.6 hrs	343.8 hrs
Tank Fills required to spray field once	50	334
Labor required to fill tank once	30 mins	30 mins
Total fill time	25 hrs	167 hrs
Acres sprayed per hour	3.1 acres/hr	2 acres/hrs
Labor required to spray one acre	.32 hrs	.51 hrs
Total acrea sprayed per season	12,000 acres	12,000 acres
Total labor spent filling per season	300 hrs	2,004 hrs
Total labor to spray field once, including filling	320.6 hrs	510.8 hrs
Total labor spraying per season	3,840 hrs	6,120 hrs

Water Savings Details	On Target	Conventional	
Sprayer tank fills required	50	334	
Water required for one field pass	15,000 gal	100,000	
Diesel Savings Details	On Target	Conventional	
Gallons of fuel required for field	962 gal	2,682 gal	
Cost of fuel per acre	\$3.37	\$9.39	
Total cost of diesel for one field pass	\$3,367	\$9,387	
Total acres sprayed per season	12,000 acres	12,000 acres	
Total cost of diesel per season	\$40,404	\$112,644	
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	

