

SPRAYER COMPARISON - CITRUS SUMOS

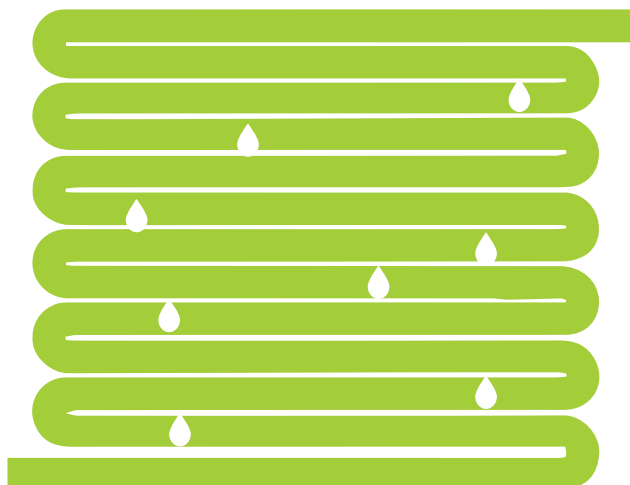
On Target Conventional Sprayers

 **1 TRACTORS**
 **1 WORKERS**
 **1 SPRAYERS**

VS

    **4 TRACTORS**
    **4 WORKERS**
    **4 SPRAYERS**

 = 10



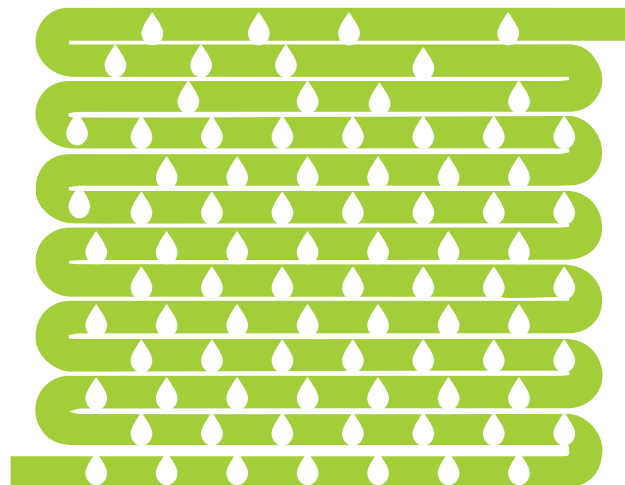
ON TARGET GPA

84 TANK REFILLS (rounded)

1,000 acres x 50 GPA = 50,000 gallons of water
50,000 gallons of water/600 gallon tank = 83.33333 tank refills

TANK SIZE	MPH	# OF ROWS	ROW WIDTH
600 gal.	2.5	1	16 ft

 = 10



CONVENTIONAL GPA

417 TANK REFILLS (rounded)

1,000 acres x 250 GPA = 250,000 gallons of water
250,000 gallons of water/600 gallon tank = 416.66667 tank refills

TANK SIZE	MPH	# OF ROWS	ROW WIDTH
600 gal.	2	1	16 ft

On Target vs Conventional Sprayers

		TANK SIZE	MPH	ROWS	WIDTH	ACRES	APPLICATIONS	WATER GPA	
MODEL		On Target	600 gal.	2.5	1	16 ft	1,000	14	50
		Conventional	600 gal.	2	1	16 ft	1,000	14	250

WATER		GALLONS	TANK FILLS	ON TARGET TOTAL SAVINGS:	
		On Target	700,000	84	
		Conventional	3,500,000	417	
				One Season 2,800,000 gallons 333 fewer refills	Five Seasons 14,000,000 gallons 1,665 fewer refills

LABOR		HOURS (Rate)	COST	ON TARGET TOTAL SAVINGS:	
		On Target	4,088 (\$20)	\$81,760	
		Conventional	9,499 (\$20)	\$189,980	
				One Season \$108,220	Five Seasons \$541,100

DIESEL		GALLONS	COST	ON TARGET TOTAL SAVINGS:	
		On Target	10,430	\$31,290	
		Conventional	34,272	\$102,816	
				One Season \$71,526 23,842 gallons	Five Seasons \$357,630 119,210 gallons

TOTAL SAVINGS:

One Season \$179,746	Five Seasons \$898,730
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Labor Savings Details	On Target	Conventional
Labor per row	6 mins.	7.5 mins.
Labor required to spray field once	206.3 hrs.	257.8 hrs.
Tank Fills required to spray field once	84	417
Labor required to fill tank once	30 mins.	30 mins.
Total fill time	42 hrs.	208.5 hrs
Acres sprayed per hour	4 acres/hr.	2.1 acres/hr.
Labor required to spray one acre	.25 hrs.	.47 hrs.
Total acrea sprayed per season	14,000 acres	14,000 acres
Total labor spent filling per season	588 hrs.	2,919 hrs.
Total labor to spray field once, including filling	248.3 hrs.	466.3 hrs.
Total labor spraying per season	3,500 hrs.	6,580 hrs.

Water Savings Details	On Target	Conventional
Sprayer tank fills required	84	417
Water required for one field pass	50,000 gal.	250,000 gal.

Diesel Savings Details	On Target	Conventional
Gallons of fuel required for field	745 gal.	2448 gal.
Cost of fuel per acre	\$2.24	\$7.34
Total cost of diesel for one field pass	\$2,235	\$7,344
Total acres sprayed per season	14,000 acres	14,000 acres
Total cost of diesel per season	\$31,290	\$102,816

Materials Savings Details	On Target	Conventional
Total acres sprayed per season	14,000 acres	14,000 acres
Average material cost per season	\$840,000	\$840,000