




# SPRAYER COMPARISON - CITRUS SUMOS

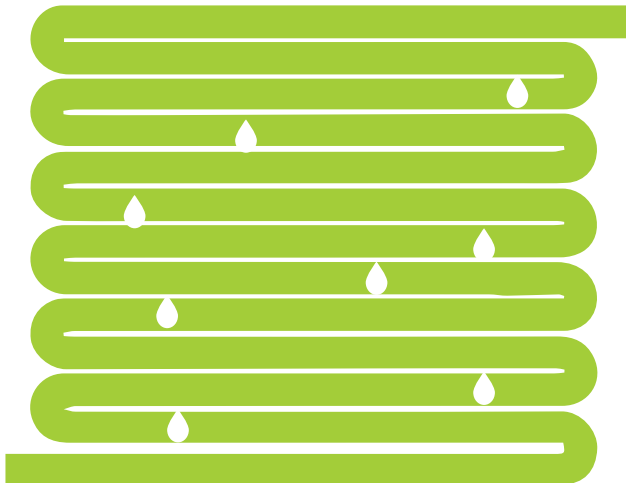
## On Target **vs** Conventional Sprayers

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

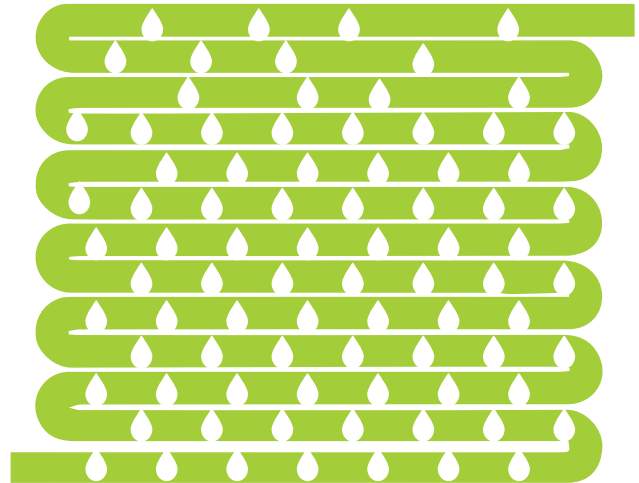
VS

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

 = 10



 = 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


### 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 = 416.666667 tank refills


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

# On Target Conventional Sprayers

MODEL		TANK SIZE	MPH	ROWS	WIDTH	ACRES	APPLICATIONS	WATER GPA
	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		<b>One Season</b> 2,800,000 gallons 333 fewer refills
Conventional	3,500,000	417				

LABOR		HOURS (Rate)		COST	ON TARGET TOTAL SAVINGS:	
		On Target	4,088 (\$20)	\$81,760		<b>One Season</b> \$108,220
Conventional	9,499 (\$20)	\$189,980				

DIESEL		GALLONS		COST	ON TARGET TOTAL SAVINGS:	
		On Target	10,430	\$31,290		<b>One Season</b> \$71,526 23,842 gallons
Conventional	34,272	\$102,816				

TOTAL SAVINGS:	ON TARGET TOTAL SAVINGS:	
		<b>One Season</b> \$179,746

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 acra 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