



# SPRAYER COMPARISON - CANE BERRIES





## On Target Conventional Sprayers





 **1 TRACTORS**



 **1 WORKERS**

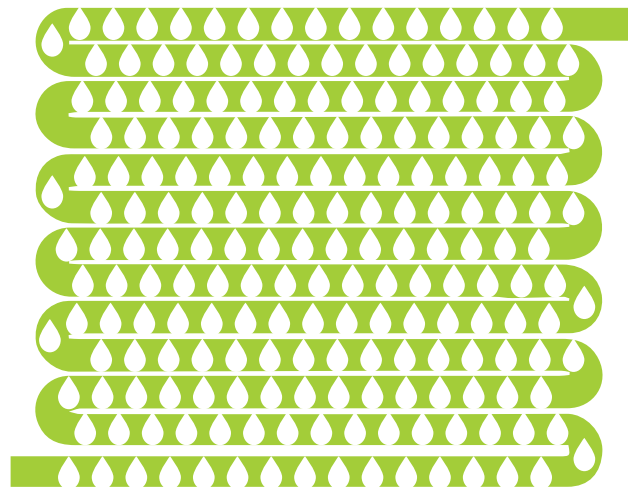
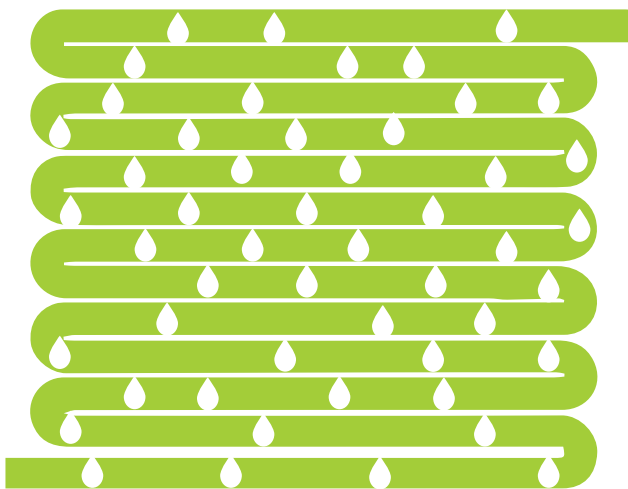
 **1 SPRAYERS**

VS

    **4 TRACTORS**

    **4 WORKERS**

    **4 SPRAYERS**



### ON TARGET GPA

**50 TANK REFILLS** (rounded)

100 acres x 17.5 GPA = 1,750 gallons of water  
1,750 gallons of water/35 gallon tank = 50 tank refills

TANK SIZE	MPH	# OF ROWS	ROW WIDTH
35 gal.	3	1	7 ft


### CONVENTIONAL GPA


**200 TANK REFILLS** (rounded)


100 acres x 100 GPA = 10,000 gallons of water  
10,000 gallons of water/50 gallon tank = 200 tank refills


TANK SIZE	MPH	# OF ROWS	ROW WIDTH
50 gal.	2.5	1	7 ft

# On Target vs Conventional Sprayers

MODEL		TANK SIZE	MPH	ROWS	WIDTH	ACRES	APPLICATIONS	WATER GPA
	On Target	35 gal.	3	1	7 ft	100	12	17.5
	Conventional	50 gal.	2.5	1	7 ft	100	12	100

WATER		GALLONS	TANK FILLS	ON TARGET TOTAL SAVINGS:	
	On Target	21,000	50	<b>One Season</b> 99,000 gallons 150 fewer refills	<b>Five Seasons</b> 495,000 gallons 750 fewer refills
	Conventional	120,000	200		

LABOR		HOURS (Rate)	COST	ON TARGET TOTAL SAVINGS:	
	On Target	1,068 (\$20)	\$21,360	<b>One Season</b> \$37,920	<b>Five Seasons</b> \$189,600
	Conventional	2,964 (\$20)	\$59,280		

DIESEL		GALLONS	COST	ON TARGET TOTAL SAVINGS:	
	On Target	1,740	\$6,096	<b>One Season</b> \$12,432 3,552 gallons	<b>Five Seasons</b> \$62,160 17,760 gallons
	Conventional	5,292	\$18,528		

TOTAL SAVINGS:	One Season	Five Seasons
	\$50,352	\$251,760

Labor Savings Details	On Target	Conventional
Labor per row	5 mins.	6 mins.
Labor required to spray field once	39.3 hrs.	47.1 hrs.
Tank Fills required to spray field once	50	200
Labor required to fill tank once	30 mins.	30 mins.
Total fill time	25 hrs.	100 hrs.
Acres sprayed per hour	1.6 acres/hr	0.7 acres/hr
Labor required to spray one acre	0.64 hrs.	1.47 hrs.
Total acra sprayed per season	1,200 acres	1,200 acres
Total labor spent filling per season	300 hrs.	1,200 hrs.
Total labor to spray field once, including filling	64.3 hrs.	147.1 hrs.
Total labor spraying per season	768 hrs.	1,764 hrs.

Water Savings Details	On Target	Conventional
Sprayer tank fills required	50	200
Water required for one field pass	1,750 gal.	10,000 gal.

Diesel Savings Details	On Target	Conventional
Gallons of fuel required for field	145 gal.	441 gal.
Cost of fuel per acre	\$5.08	\$15.44
Total cost of diesel for one field pass	\$508	\$1,544
Total acres sprayed per season	1,200 acres	1,200 acres
Total cost of diesel per season	\$6,096	\$18,528

Materials Savings Details	On Target	Conventional
Total acres sprayed per season	1,200 acres	1,200 acres
Average material cost per season	\$72,000	\$72,000