



SPRAYER COMPARISON - LEAFY GREENS

On Target Conventional Sprayers


 **1 TRACTORS**


 **1 WORKERS**

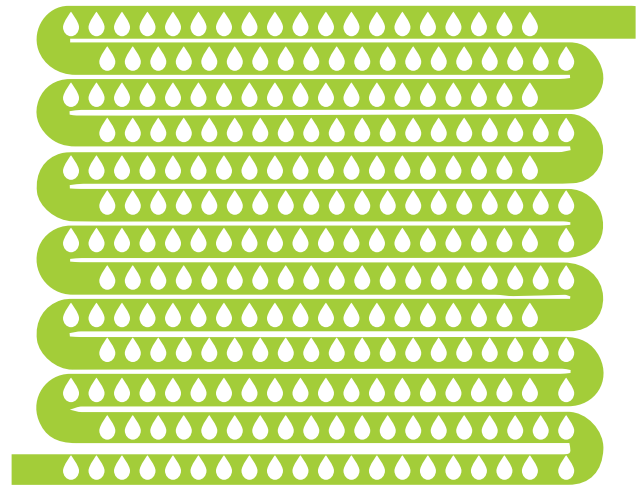
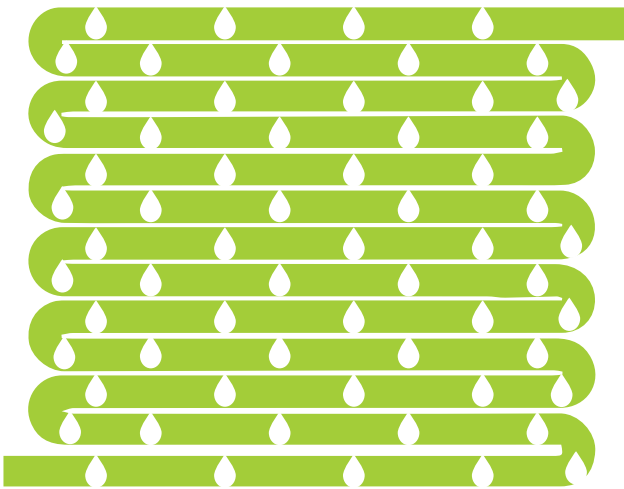
 **1 SPRAYERS**

VS

    **4 TRACTORS**

    **4 WORKERS**

    **4 SPRAYERS**



ON TARGET GPA

63 TANK REFILLS (rounded)

1,000 acres x 12.5 GPA = 12,500 gallons of water
12,500 gallons of water/200 gallon tank = 62.5 tank refills

TANK SIZE	MPH	# OF ROWS	ROW WIDTH
200 gal.	4.5	5	33 ft


CONVENTIONAL GPA


250 TANK REFILLS (rounded)


1,000 acres x 50 GPA = 50,000 gallons of water
50,000 gallons of water/200 gallon tank = 250 tank refills


TANK SIZE	MPH	# OF ROWS	ROW WIDTH
200 gal.	4.5	5	33 ft

On Target Conventional Sprayers

MODEL		TANK SIZE	MPH	ROWS	WIDTH	ACRES	APPLICATIONS	WATER GPA
	On Target	200 gal.	4.5	5	33 ft	1,000	20	12.5
	Conventional	200 gal.	4.5	5	33 ft	1,000	20	50

WATER		GALLONS	TANK FILLS	ON TARGET TOTAL SAVINGS:	
	On Target	250,000	63	One Season 750,000 gallons 187 fewer refills	Five Seasons 3,750,000 gallons 935 fewer refills
	Conventional	1,000,000	250		

LABOR		HOURS (Rate)	COST	ON TARGET TOTAL SAVINGS:	
	On Target	2,430 (\$20)	\$48,600	One Season \$73,400	Five Seasons \$367,000
	Conventional	6,100 (\$20)	\$122,000		

DIESEL		GALLONS	COST	ON TARGET TOTAL SAVINGS:	
	On Target	1,260	\$18,200	One Season \$19,600 3,740 gallons	Five Seasons \$212,520 18,700 gallons
	Conventional	5,000	\$37,800		

TOTAL SAVINGS:	One Season	Five Seasons
	\$93,000	\$465,000

Labor Savings Details	On Target	Conventional
Labor per row	3.3 mins.	3.3 mins.
Labor required to spray field once	55 hrs.	55 hrs.
Tank Fills required to spray field once	63	250
Labor required to fill tank once	30 mins.	30 mins.
Total fill time	31.5 hrs.	125 hrs.
Acres sprayed per hour	11.6 acres/hr	5.6 acres/hr
Labor required to spray one acre	.09 hrs.	.18 hrs.
Total acra sprayed per season	20,000 acres	20,000 acres
Total labor spent filling per season	630 hrs.	2,500 hrs.
Total labor to spray field once, including filling	86.5 hrs.	180 hrs.
Total labor spraying per season	1,800 hrs.	3,600 hrs.

Water Savings Details	On Target	Conventional
Sprayer tank fills required	63	250
Water required for one field pass	12,500 gal.	50,000 gal.

Diesel Savings Details	On Target	Conventional
Gallons of fuel required for field	260 gal.	540 gal.
Cost of fuel per acre	\$.91	\$1.89
Total cost of diesel for one field pass	\$910	\$1,890
Total acres sprayed per season	20,000 acres	20,000 acres
Total cost of diesel per season	\$18,200	\$37,800

Materials Savings Details	On Target	Conventional
Total acres sprayed per season	20,000 acres	20,000 acres
Average material cost per season	\$720,000	\$1,200,000