



SPRAYER COMPARISON - BLUEBERRIES

On Target **vs** Conventional Sprayers

 **1 TRACTORS**

 **1 WORKERS**

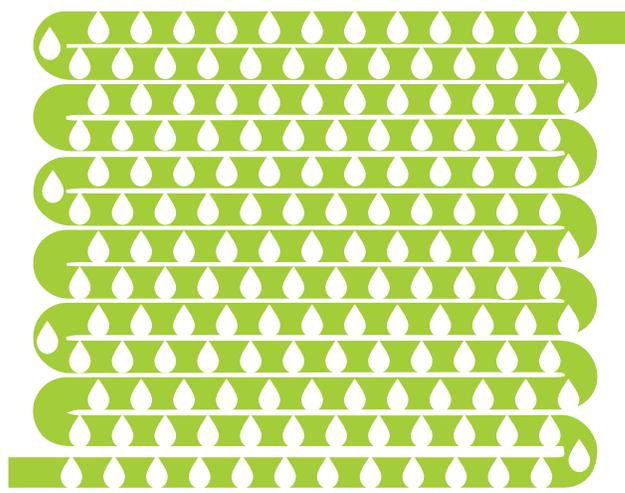
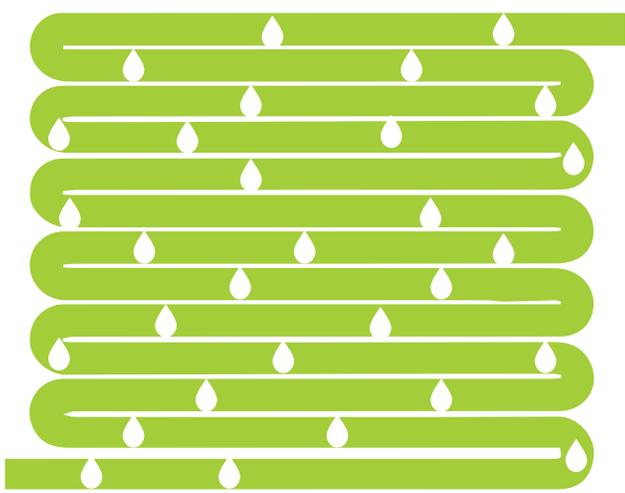
 **1 SPRAYERS**

VS

    **4 TRACTORS**

    **4 WORKERS**

    **4 SPRAYERS**



ON TARGET GPA

30 TANK REFILLS (rounded)

200 acres x 15 GPA = 3,000 gallons of water
3,000 gallons of water/100 gallon tank = 30 tank refills

TANK SIZE	MPH	# OF ROWS	ROW WIDTH
100 gal.	3.5	2	10 ft

CONVENTIONAL GPA

160 TANK REFILLS (rounded)

200 acres x 80 GPA = 16,000 gallons of water
16,000 gallons of water/100 gallon tank = 160 tank refills

TANK SIZE	MPH	# OF ROWS	ROW WIDTH
100 gal.	3	1	10 ft



On Target vs Conventional Sprayers

MODEL		TANK SIZE	MPH	ROWS	WIDTH	ACRES	APPLICATIONS	WATER GPA
	On Target	100 gal.	3.5	2	10 ft	200	14	15
	Conventional	100 gal.	3	1	10 ft	200	14	80

WATER		GALLONS	TANK FILLS	ON TARGET TOTAL SAVINGS:	
	On Target	42,000	30	One Season 182,000 gallons 130 fewer refills	Five Seasons 910,000 gallons 650 fewer refills
	Conventional	224,000	160		

LABOR		HOURS (Rate)	COST	ON TARGET TOTAL SAVINGS:	
	On Target	742 (\$20)	\$14,840	One Season \$45,640	Five Seasons \$228,200
	Conventional	3,024 (\$20)	\$60,480		

DIESEL		GALLONS	COST	ON TARGET TOTAL SAVINGS:	
	On Target	1,218	\$4,270	One Season \$10,626 3,038 gallons	Five Seasons \$53,130 15,190 gallons
	Conventional	4,256	\$14,896		

TOTAL SAVINGS:	One Season	Five Seasons
	\$56,266	\$281,330

Labor Savings Details	On Target	Conventional
Labor per row	4.3 mins.	5 mins.
Labor required to spray field once	23.7 hrs.	55 hrs.
Tank Fills required to spray field once	30	160
Labor required to fill tank once	30 mins.	30 mins.
Total fill time	15 hrs.	80 hrs.
Acres sprayed per hour	5.2 acres/hr	1.5 acres/hr
Labor required to spray one acre	0.19 hrs.	0.68 hrs.
Total acra sprayed per season	2,800 acres	2,800 acres
Total labor spent filling per season	210 hrs.	1,120 hrs.
Total labor to spray field once, including filling	38.7 hrs.	135 hrs.
Total labor spraying per season	532 hrs.	1,904 hrs.

Water Savings Details	On Target	Conventional
Sprayer tank fills required	30	160
Water required for one field pass	3,000 gal.	16,000 gal.

Diesel Savings Details	On Target	Conventional
Gallons of fuel required for field	87 gal.	304 gal.
Cost of fuel per acre	\$1.53	\$5.32
Total cost of diesel for one field pass	\$305	\$1,064
Total acres sprayed per season	2,800 acres	2,800 acres
Total cost of diesel per season	\$4,270	\$14,896

Materials Savings Details	On Target	Conventional
Total acres sprayed per season	2,800 acres	2,800 acres
Average material cost per season	\$168,000	\$168,000