



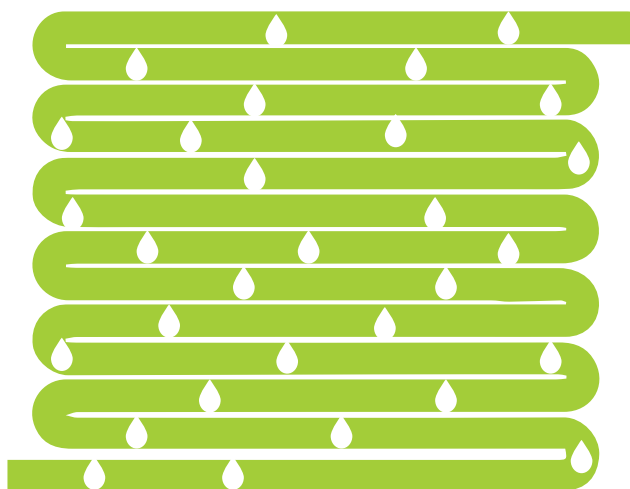
SPRAYER COMPARISON - BLUEBERRIES

On Target Conventional Sprayers

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

VS

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



ON TARGET GPA

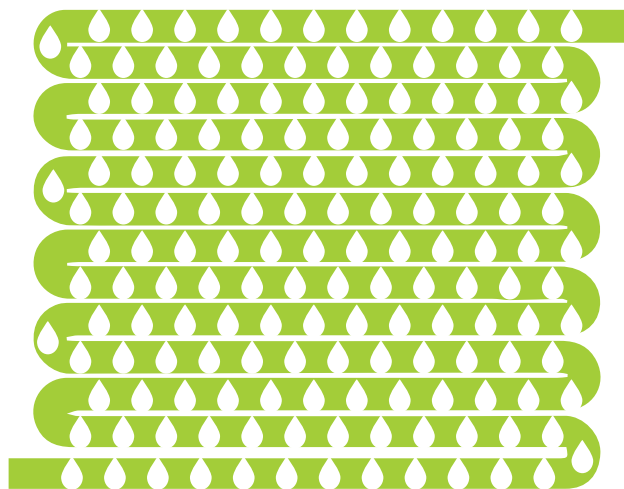
30 TANK REFILLS (rounded)

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
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100 gal.	3.5	2	10 ft
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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
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100 gal.	3	1	10 ft
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On Target vs Conventional Sprayers

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

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

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

		GALLONS	COST	ON TARGET TOTAL SAVINGS:	
DIESEL		On Target	1,218	\$4,270	
		Conventional	4,256	\$14,896	
				One Season	Five Seasons
				\$10,626	\$53130
				3,038 gallons	15.190 gallons

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 acrea 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