



# SPRAYER COMPARISON - TABLE GRAPES


## On Target vs Airblast Sprayers



 **1 TRACTORS**



 **1 WORKERS**


 **1 SPRAYERS**

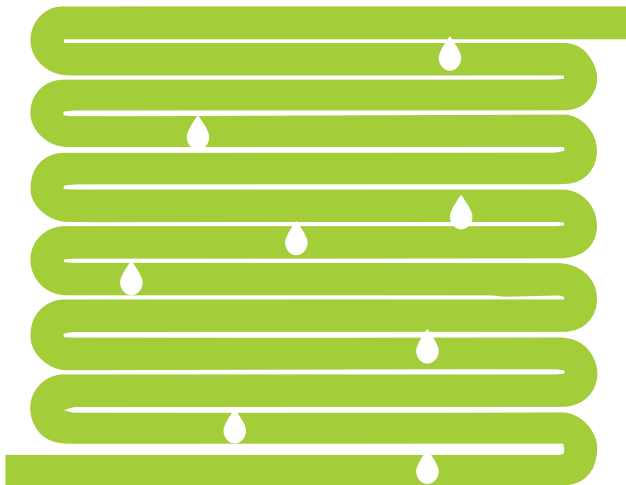
VS


    **4 TRACTORS**

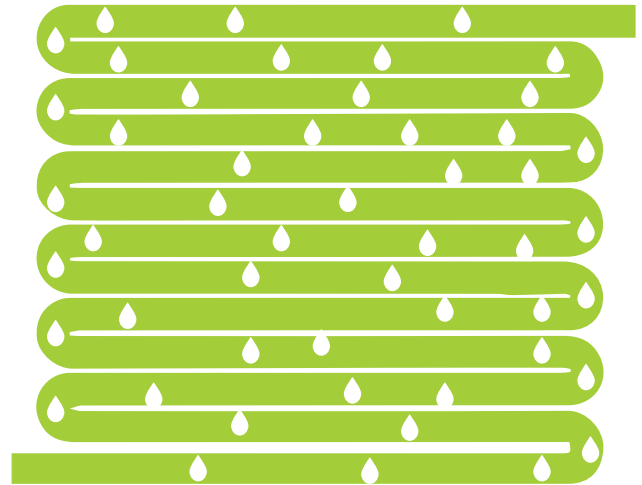
    **4 WORKERS**

    **4 SPRAYERS**

 = 100



 = 100



### ON TARGET GPA

**750 TANK REFILLS** (rounded)

20,000 acres x 15 GPA = 300,000 gallons of water  
300,000 gallons of water/400 gallon tank = 750 tank refills

TANK SIZE	MPH	# OF ROWS	ROW WIDTH
400 gal	3.5	1	12 ft


### AIRBLAST GPA


**5,000 TANK REFILLS** (rounded)


20,000 acres x 100 GPA = 2,000,000 gallons of water  
2,000,000 gallons of water/400 gallon tank = 5,000 tank refills


TANK SIZE	MPH	# OF ROWS	ROW WIDTH
400	3.5	1	12 ft

# On Target vs Airblast Sprayers

MODEL		TANK SIZE	MPH	ROWS	WIDTH	ACRES	APPLICATIONS	WATER GPA
	On Target	400 gal	3.5	1	12 ft	1,000	20	15
	Airblast	400 gal	3.5	1	12 ft	1,000	20	100

WATER		GALLONS	TANK FILLS	ON TARGET TOTAL SAVINGS:	
	On Target	300,000	750	<b>One Season</b> 1,700,000 gallons 4,250 fewer refills	<b>Five Seasons</b> 8,500,000 gallons 21,250 fewer refills
	Airblast	2,000,000	5,000		

LABOR		HOURS (Rate)	COST	ON TARGET TOTAL SAVINGS:	
	On Target	4,780 (\$20)	\$95,600	<b>One Season</b> \$82,400	<b>Five Seasons</b> \$412,000
	Airblast	8,900 (\$20)	\$178,000		

DIESEL		GALLONS	COST	ON TARGET TOTAL SAVINGS:	
	On Target	9,720	\$29,160	<b>One Season</b> \$72,300 37,220 gallons	<b>Five Seasons</b> \$361,500 186,100 gallons
	Airblast	46,940	\$101,460		

TOTAL SAVINGS:	One Season	Five Seasons
	\$154,700	\$773,500

Labor Savings Details	On Target	Airblast
Labor per row	4.3 mins.	4.3 mins.
Labor required to spray field once	197.1 hrs.	197.1 hrs.
Tank Fills required to spray field once	38	500
Labor required to fill tank once	30 mins.	30 mins.
Total fill time	19 hrs.	250 hrs.
Acres sprayed per hour	4.6 acres/hr	2.2 acres/hr
Labor required to spray one acre	.22 hrs.	.45 hrs.
Total acra sprayed per season	20,000 acres	20,000 acres
Total labor spent filling per season	380 hrs.	5,000 hrs.
Total labor to spray field once, including filling	216.1 hrs.	447.1 hrs.
Total labor spraying per season	2,160 hrs.	9,000 hrs.

Water Savings Details	On Target	Airblast
Sprayer tank fills required	38	500
Water required for one field pass	15,000 gal.	200,000 gal.

Diesel Savings Details	On Target	Airblast
Gallons of fuel required for field	486 gal.	2,347 gal.
Cost of fuel per acre	\$1.46	\$7.04
Total cost of diesel for one field pass	\$1,458	\$7,041
Total acres sprayed per season	20,000 acres	20,000 acres
Total cost of diesel per season	\$29,160	\$140,820

Materials Savings Details	On Target	Airblast
Total acres sprayed per season	20,000 acres	20,000 acres
Average material cost per season	\$960,000	\$1,200,000