








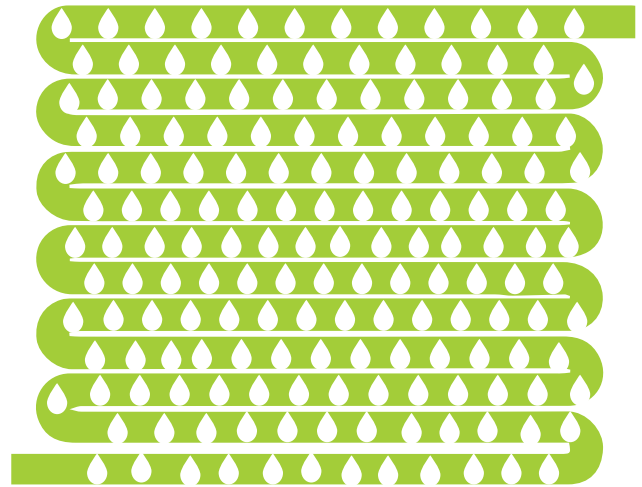
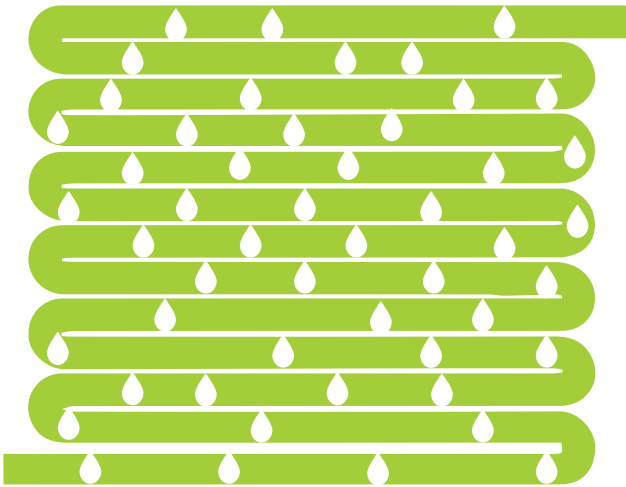
SPRAYER COMPARISON - ALMONDS

On Target Conventional Sprayers

  **2 TRACTORS**
  **2 WORKERS**
  **2 SPRAYERS**

VS

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



ON TARGET GPA

50

1,000 acres x 30 GPA = 30,000 gallons of water
 30,000 gallons of water/600 gallon tank = 50 tank refills

TANK SIZE	MPH	# OF ROWS	ROW WIDTH
600 gal.	3	1	20 ft


CONVENTIONAL GPA


167 TANK REFILLS (rounded)


1,000 acres x 100 GPA = 100,000 gallons of water
 100,000 gallons of water/600 gallon tank = 166.6666667 tank refills


TANK SIZE	MPH	# OF ROWS	ROW WIDTH
600 gal.	3	1	22 ft

On Target Conventional Sprayers

MODEL		TANK SIZE	MPH	ROWS	WIDTH	ACRES	APPLICATIONS	WATER GPA
	On Target	600 gal.	3	1	20 ft	1,000	12	30
	Conventional	600 gal.	3	1	22 ft	1,000	12	100

WATER		GALLONS	TANK FILLS	ON TARGET TOTAL SAVINGS:	
	On Target	360,000	50	One Season 1,440,000 gallons 117 fewer refills	Five Seasons 7,200,000 gallons 585 fewer refills
	Conventional	1,800,000	167		

LABOR		HOURS (Rate)	COST	ON TARGET TOTAL SAVINGS:	
	On Target	xxx(\$20)	\$44,400	One Season \$45,600	Five Seasons \$228,000
	Conventional	xxx (\$20)	\$90,000		

DIESEL		GALLONS	COST	ON TARGET TOTAL SAVINGS:	
	On Target	5,856	\$20,496	One Season \$42,504 9,156 gallons	Five Seasons \$212,520 45,780 gallons
	Conventional	15,012	\$63,000		

TOTAL SAVINGS:	One Season	Five Seasons
	\$88,104	\$440,520

Labor Savings Details	On Target	Conventional
Labor per row	5 mins.	5 mins.
Labor required to spray field once	137.5 hrs.	125 hrs.
Tank Fills required to spray field once	50	250
Labor required to fill tank once	30 mins.	30 mins.
Total fill time	25 hrs.	125 hrs.
Acres sprayed per hour	6.2 acres/hr	4 acres/hr
Labor required to spray one acre	0.16 hrs.	0.25 hrs.
Total acra sprayed per season	12,000 acres	12,000 acres
Total labor spent filling per season	300 hrs.	1,500 hrs.
Total labor to spray field once, including filling	162.5 hrs.	250 hrs.
Total labor spraying per season	1,920 hrs.	3,000 hrs.

Water Savings Details	On Target	Conventional
Sprayer tank fills required	50	250
Water required for one field pass	30,000 gal.	150,000 gal.

Diesel Savings Details	On Target	Conventional
Gallons of fuel required for field	488 gal.	1,251 gal.
Cost of fuel per acre	\$1.71	\$5.25
Total cost of diesel for one field pass	\$1,708	\$5,250
Total acres sprayed per season	12,000 acres	12,000 acres
Total cost of diesel per season	\$20,496	\$63,000

Materials Savings Details	On Target	Conventional
Total acres sprayed per season	12,000 acres	12,000 acres
Average material cost per season	\$720,000	\$720,000