











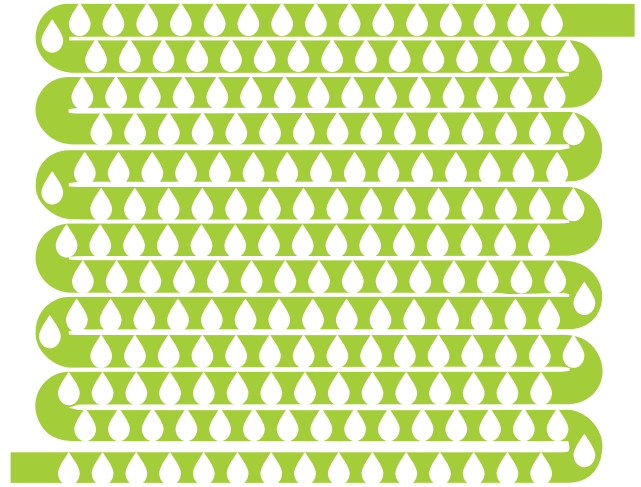
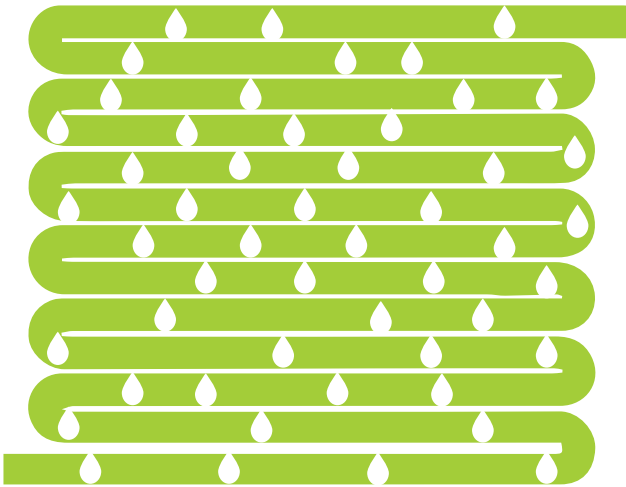
SPRAYER COMPARISON - APPLES

On Target Conventional Sprayers

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

VS

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



ON TARGET GPA

83 TANK REFILLS (rounded)

1,000 acres x 33 GPA = 33,000 gallons of water
 33,000 gallons of water/400 gallon tank = 82.5 tank refills

TANK SIZE	MPH	# OF ROWS	ROW WIDTH
400 gal.	3	1	14 ft


CONVENTIONAL GPA


250 TANK REFILLS (rounded)


1,000 acres x 100 GPA = 100,000 gallons of water
 100,000 gallons of water/400 gallon tank = 250 tank refills


TANK SIZE	MPH	# OF ROWS	ROW WIDTH
400 gal.	2.5	1	14 ft

On Target Conventional Sprayers

MODEL		TANK SIZE	MPH	ROWS	WIDTH	ACRES	APPLICATIONS	WATER GPA
	On Target	400 gal.	3	1	14 ft	1,000	24	33
	Conventional	400 gal.	2.5	1	14 ft	1,000	24	100

WATER		GALLONS		TANK FILLS	ON TARGET TOTAL SAVINGS:	
		On Target	792,000	83		One Season 1,608,000 gallons 167 fewer refills
Conventional	250	200				

LABOR		HOURS (Rate)		COST	ON TARGET TOTAL SAVINGS:	
		On Target	6,756 (\$20)	\$135,120		One Season \$97,680
Conventional	11,640 (\$20)	\$232,800				

DIESEL		GALLONS		COST	ON TARGET TOTAL SAVINGS:	
		On Target	17,136	\$59,976		One Season \$99,120 28,320 gallons
Conventional	45,456	\$159,096				

TOTAL SAVINGS:	ON TARGET TOTAL SAVINGS:	
		One Season \$196,800

Labor Savings Details	On Target	Conventional
Labor per row	5 mins.	6 mins.
Labor required to spray field once	196.4 hrs.	235.7 hrs.
Tank Fills required to spray field once	83	250
Labor required to fill tank once	30 mins.	30 mins.
Total fill time	41.5 hrs.	125 hrs.
Acres sprayed per hour	4.2 acres/hr	2.8 acres/hr
Labor required to spray one acre	0.24 hrs.	0.36 hrs.
Total acra sprayed per season	24,000 acres	24,000 acres
Total labor spent filling per season	996 hrs.	3,000 hrs.
Total labor to spray field once, including filling	237.9 hrs.	360.7 hrs.
Total labor spraying per season	5,760 hrs.	8,640 hrs.

Water Savings Details	On Target	Conventional
Sprayer tank fills required	83	250
Water required for one field pass	33,000 gal.	100,000 gal.

Diesel Savings Details	On Target	Conventional
Gallons of fuel required for field	714 gal.	1,894 gal.
Cost of fuel per acre	\$2.5	\$6.63
Total cost of diesel for one field pass	\$2,499	\$6,629
Total acres sprayed per season	24,000 acres	24,000 acres
Total cost of diesel per season	\$59,976	\$159,096

Materials Savings Details	On Target	Conventional
Total acres sprayed per season	24,000 acres	24,000 acres
Average material cost per season	\$1,440,000	\$1,440,000