

AIRJECTION® TRIALS

World Leader in Mixing and Contacting Technologies

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AirJection® IrrigationMandalay Berry Farms (Oxnard, CA) Strawberry Test—Winter 2004

U.S. Patent #6,173,526

Planting Date: 10.12.2003

Stock Variety: Proprietary

Harvest Dates: From 01.29.2004 - 07.06.2004

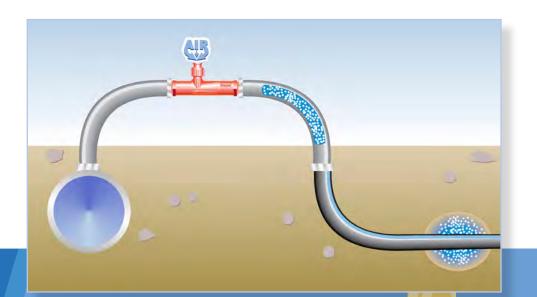


Both the **Non-Aerated Control** and **AirJection Aerated Plots** used the following irrigation layout:

- Two lines of subsurface drip tape (0.667 gpm / 100 ft) per row
- 64" bed x 15" spacing x 4 rows per bed x 315' row length (25,500 plants per acre)
- Tape was operated with approximately 10 psi of inlet pressure

AirJection Aerated Test Plot used the following configuration to supply the air/water mixture:

- Model A-14 Mazzei AirJection injectors
- 100% of the water for each row flows through an injector
- AirJection injectors were operated with approximately 25 psi of inlet pressure
- Gas to liquid ratio was approximately 11%



Test Plot Totals:

	#1 Grade (grams)	#2 Grade (grams)	Freezer Grade (grams)
Non-Aerated Control:	77,400	18,420	24,646
AirJection Aerated:	91,550	19,698	32,961

18.3% increase in #1 Grade fruit **in AirJection Aerated plot** vs the Control plot.

6.9% increase in #2 Grade fruit in AirJection Aerated plot vs the Control plot.

33.7% increase in Freezer Grade fruit in AirJection Aerated plot vs the Control plot.

Per Acre Yield Extrapolation:

	#1 Grade - Flats (10.4 pounds)	Freezer Grade - Units (18 pounds)
Non-Aerated Control:	3,500	642
AirJection Aerated:	4,139	858

Take a look at the <u>Mazzei AirJection animation</u> to get a better understanding on how it works



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