



AIRJECTION® TRIALS

*World Leader
in Mixing and
Contacting
Technologies*

Contact us today.

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AirJection® Irrigation

Mandalay 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

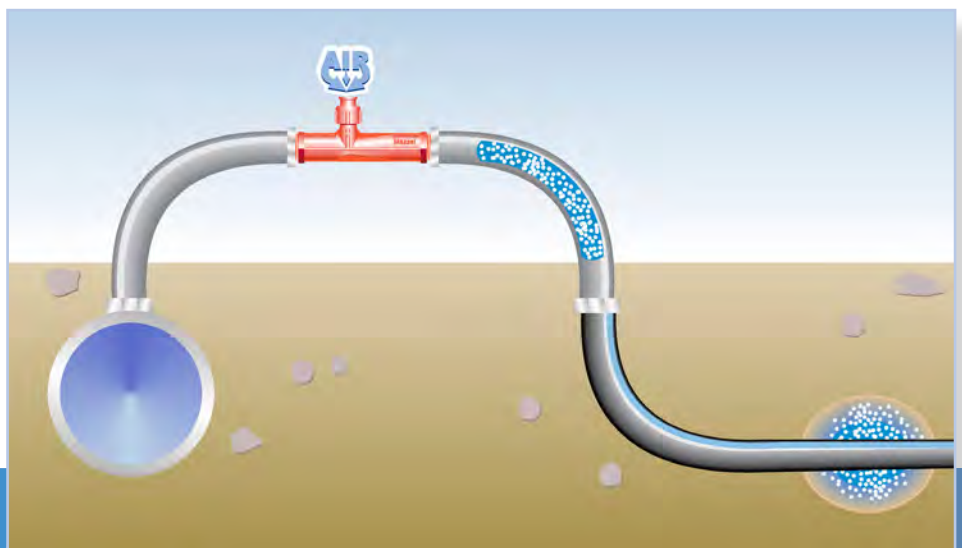


Both the **Non-Aerated Control** and **AirJection Aerated Plots** used the following irrigation layout:

- 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 [Mazzei AirJection animation](#) to get a better understanding on how it works

