



AIRJECTION® TRIALS

*World Leader
in Mixing and
Contacting
Technologies*

Contact us today.

Mazzei Injector Company, LLC

500 Rooster Drive

Bakersfield, California 93307-9555

TEL 661-363-6500

FAX 661-363-7500

www.mazzei.net

AirJection® Irrigation

Johnston Farms

Bell Pepper Test—Summer 2000

U.S. Patent #6,173,526

Planting: March 2000

Field Acreage: 66.96 acres
(38.11 control acres & 28.85
AirJection acres)

Bell Pepper Variety: Baron

Soil Type: Loam to Sandy
Loam

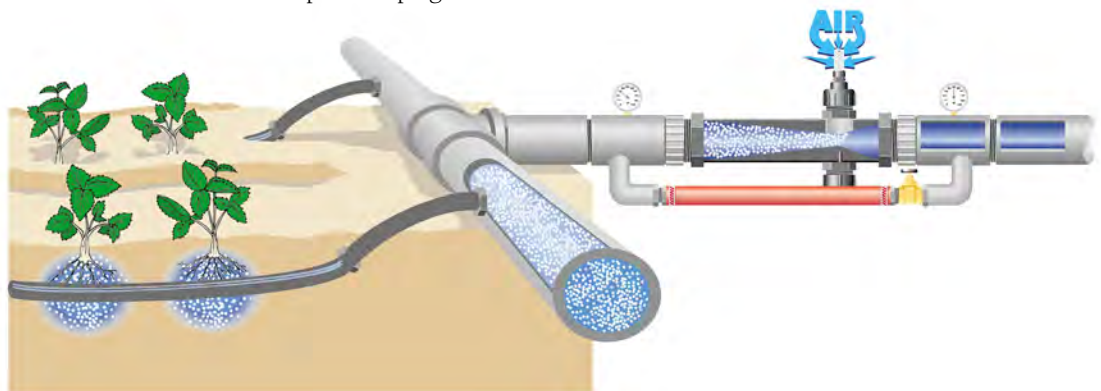


Both the **Non-Aerated Control** and **AirJection Aerated Plots** used the following irrigation layout:

- Sub-surface drip tape (3.40 gpm / 1,000 ft) buried 5 inches deep
- 98 rows x 40" spacing x 640' per block = 213 gpm total water flow per block

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

- (6) Model 3090 Mazzei AirJection Irrigation units
- 90+ percent of the water flows through the injector
- Pressure at the injector = 60 psig
- Pressure at the tape = 12 psig



Take a look at the [Mazzei AirJection animation](#) to get a better understanding on how it works

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End of Season Harvest Results - Summer 2000

Non-Aerated Control Acreage = 38.11

AirJection Aerated Acreage = 28.85

Green Premium	Red Premium	Red Processed	Total		Total	Red Processed	Red Premium	Green Premium
22.38	17.72	43.26	83.36	<i>Bins/Acre</i>	91.96	46.74	23.73	21.49
403	319	778	1,500	<i>Cartons/Acre</i>	1,655	841	427	387
11,194	8,861	21,611	41,666	<i>Lbs/Acre</i>	45,972	23,361	11,861	10,750

Premium Cartons/Acre Control = 722 AirJection = 814
 Processed Cartons/Acre Control = 778 AirJection = 841
 *** 1 bin = approximately 18 cartons = 500 lbs ***

CONCLUSIONS

- PREMIUM Production INCREASE per AirJection aerated acre = 92 Cartons = 2,556 lbs, an increase of 12.8%.
- PROCESSED Production INCREASE per AirJection aerated acre = 63 Cartons = 1,750 lbs, an increase of 8.1%.
- **TOTAL Production INCREASE per AirJection aerated acre = 155 Cartons = 4,306 lbs, an increase of 10.3%.**
- PREMIUM INCREASE in yield = 92 cartons per acre at an average price of \$5.00 per carton = \$460.00 per acre (\$5.00 per carton is after deducting harvest, packing, and carton costs.)
- PROCESS INCREASE in yield = 63 cartons per acre at an average price of \$1.25 per carton = \$78.75 per acre.
- **TOTAL INCREASE in income = \$538.75 per acre.**

