



**MAZZEI  
AIRJECTION®  
IRRIGATION**

*Plow  
without a  
Plow*

*World Leader  
in Mixing and  
Contacting  
Technologies*



**AirJection®**

**Aeration in Subsurface  
Drip Irrigation Review:  
Eight Years of Consistent  
Crop Yield Increases**

Crop yield and soil health continue to be major agricultural concerns as regional drought and rationed water delivery continue. Most growers know that plant roots need air to breathe. Without it, soil can become anaerobic, inhibiting plant growth and yield. The solution, Mazzei AirJection® Irrigation technology. AirJection promotes a healthy soil environment benefiting plants and soil microbes. Crops show increases in yield, root mass and better water use efficiency.



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**Testing at Stamoules Produce Company**

Seven years of operational data using Mazzei AirJection Irrigation technology has been collected at Stamoules Farms. The improvement in water use efficiency, fertilizer inputs and the addition of air (21% oxygen) at correct levels to the root zone to support plant and soil conditions, resulted in field yield increases of up to 22% for cantaloupes, honeydew melons, corn and peppers.



**Data Collected during the 7-year Stamoules Produce Company Study:**

Stamoules Produce Company installed 1,497 acres of cantaloupe, honeydew melons, corn and peppers using AirJection. Approximately 8,650 (A24) injectors were individually installed on two subsurface drip irrigation lines per planting row.

Crop	Total AirJection Acreage	Total of AirJection Field Boxes	"Total Boxes" for Equivalent AirJection Acreage*	Average Per Acre Increase in Boxes	Total Box Increase Over Farm Average
Cantaloupes	6,480	6,891,383	5,590,794	201	1,300,590
Corn	3,416	1,513,770	1,446,499	20	67,271
Honeydews	1,320	2,063,656	1,855,783	157	207,873
Bell Peppers	460	936,365	768,581	365	167,784

**Benefits of AirJection**

► **Significant Increases In:**

- Root Mass
- Crop Yield
- Fruit Density
- Sugar Content
- Germination Rate

► **Improves Water Use Efficiency**

- **Early Maturation**
- **Increases Plant's Salinity Tolerance**
- **Improves Late Season Production**

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

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