

H₂Flo[®]

Trial

Tomatoes (*Solanum lycopersicum*) on Central Florida Sands

Save water and time with H₂Flo's signature liquid surfactant. This special blend of soil surfactants helps irrigation water go further.





When

Spring 2014



Where

Commercial field west
central Florida, USA



Crop

Tomato, variety
"Charger", 12 weeks
growing season



Soil type

Central Florida Sands



Measurements

Soil volumetric water
content (VWC)
readings at 6 inches
deep in the center
of the bed and 6
inches from the west
edge of the bed
(50 observations
during the season).
Marketable yields
(pounds/acre).



ICL Growing Solutions
622 Emerson Dr., STE 500
St. Louis, MO 63141
Premium.Fertilizers@icl-group.com
(800) 484-0886

Follow us on

[linkedin.com/company/
icl-growing-solutions-americas](https://www.linkedin.com/company/icl-growing-solutions-americas)

[facebook.com/
ICLGrowingSolutionsAmericas](https://www.facebook.com/ICLGrowingSolutionsAmericas)

[youtube.com/
@ICLgrowingsolutionsamericas](https://www.youtube.com/@ICLgrowingsolutionsamericas)

For more information visit
www.icl-growingsolutions.us
or contact our agronomy experts at:
NA.AgronomyServices@icl-group.com



Objective

Demonstrate that applying H₂Flo® will result in a reduction of irrigation volume while maintaining or increasing yield

Treatments

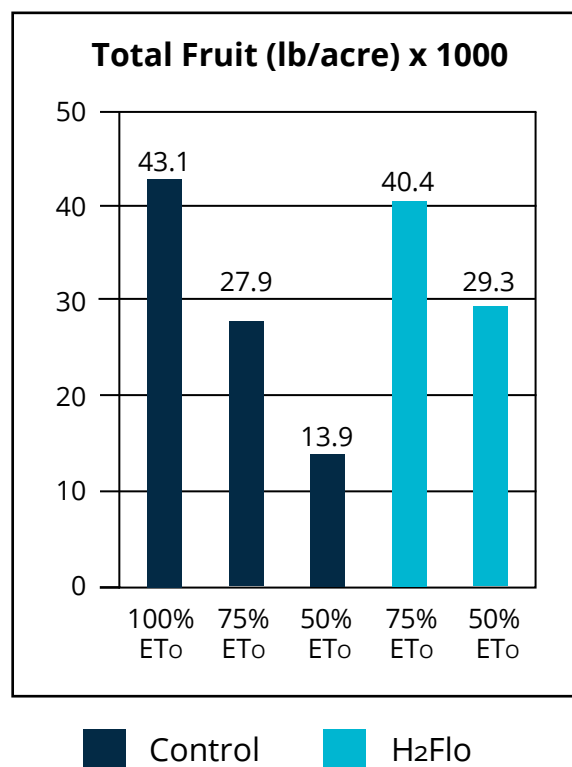
H₂Flo treated and irrigation at 75% and 50% ETo, H₂Flo untreated and irrigation applied at 100%, 75%, and 50% ETo. H₂Flo was applied at 16 fl. oz./acre at trial initiation and 9 fl. oz./acre at 1, 3, 5, and 7 weeks after trial initiation.

Application Method

Tomato plants in single rows. One drip tape per plot. RCBD, 4 replications, 80 ft long rows with 40 plants/plot.

Results

- Return of investment of 10x per acre in energy savings from 25% less irrigation
- With H₂Flo yield was maintained with a 25% reduction in irrigation volume, saving 117,063 gallons of water
- Plots treated with H₂Flo and irrigation maintained at 50% ETo produced 110% yield improvement compared to the treatment of 50% ETo and no H₂Flo








About H2Flo®

- H2Flo is a unique blend of surfactants designed to move water and fertilizers quickly and efficiently through soil.
- H2Flo leads the way in water conservation products with the highest concentration of active ingredients (88%) of the most advanced wetting agents available.
- H2Flo allows growers and farmers to move less water and save more water.

H2Flo is a wetting and water conservation agent with highly concentrated active ingredients. It is the ultimate helping hand for sustainable irrigation practices.

H2Flo®

 ICL Growing Solutions Americas
 @ICLgrowingsolutionsamericas
 @ICLGrowingSolutionsAmericas

www.icl-growing-solutions.us

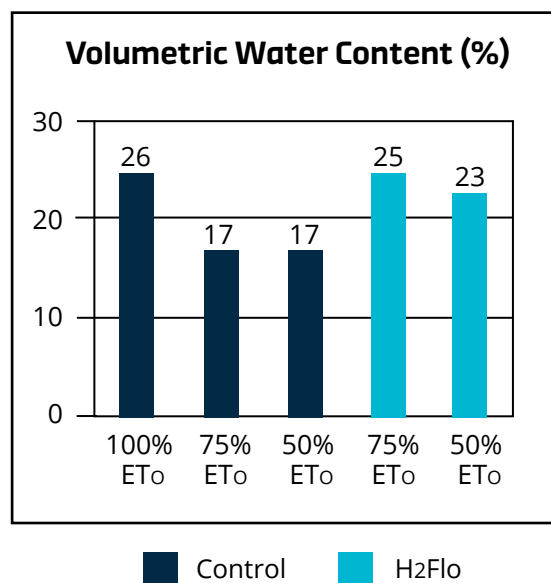
H2Flo is a registered trademark of ICL



For more information visit
www.icl-growing-solutions.us
 or contact our agronomy experts at:
NA.AgronomyServices@icl-group.com



Economic Evaluation	Grower Practice	ICL H2Flo Program (60% ETo)
Water volume gallons/acre/season	468,251	351,188
Cost of irrigation per acre (including, energy, labor, water; \$0.0022/gallon)	\$1,042	\$782
Extra cost of H2Flo treatment per season \$	—	26
Return on Investment (per acre)	7X	



Why H2Flo performs better:

- H2Flo enhanced both lateral and vertical movement of water into the soil, stimulating the root system to use the nutrients more efficiently.
- Tomato crops require large volumes of water, especially, during critical stages of crop development, which can lead to significant losses or water in the form of surface run-off. H2Flo lowers the surface tension of water improving penetration of the soil surface.
- The use of H2Flo allows for more efficient use of both water and nutrients.

Attention: Recommendations in this trial info sheet are based on local soil and/or water analyses. Please contact your local ICL Specialty Fertilizers adviser for your personalized fertilizer recommendation.

SA5051
052324