



FIELD TEST REPORT // SPAIN 2018

Optimizing Tomato Yield Under Climate Stress

Professional Performance
Results for CR-37 & LINK-SOIL

Dossier Metadata	
Date:	May 2018
Location:	Alicante, Spain
Target Crop:	Tomato (<i>Solanum lycopersicum</i>)
Tester:	Andrew Dominic

Key Field Insights



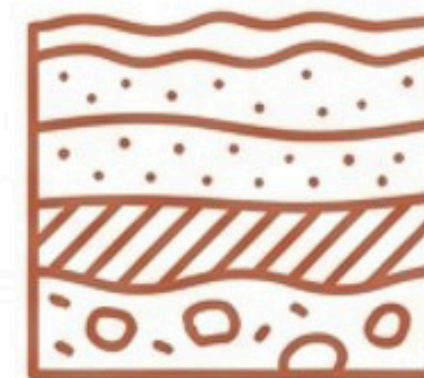
Accelerated Growth

CR-37 treated plants exhibited significantly larger frames, greater solidity, and faster growth rates despite severe cold stress.



Enhanced Resilience

Treated crops maintained high turgidity and exhibited minimal leaf roll during extreme, 37-year-record nocturnal temperature drops and severe drought.



Soil Conditioning

LINK-SOIL pre-treatment in planting holes demonstrated noticeably reduced surface crusting, with ongoing monitoring established for salt line reduction from high EC irrigation water.

Field Trial Specifications



Test ID Card

Location:

Pasage Del Pou, 16, Alcalali,
03728, Alicante, Spain.

Lead Agronomist:

Andrew Dominic (Independent)

Application Protocol:

CR-37 applied following strictly
to SOP guide at 33cc/100L.

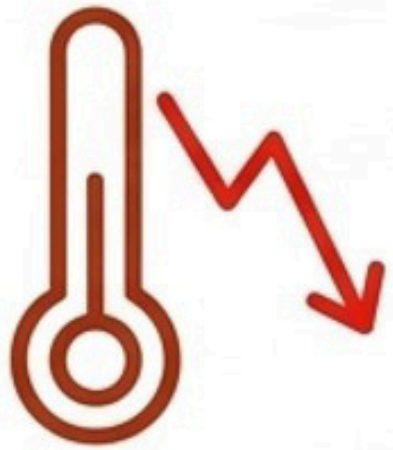
Secondary Protocol:

LINK-SOIL utilized exclusively for
initial planting hole preparation.

Sister Products Noted:

CR-37, LINK, & SuperLINK.

The Challenge: Extreme Climate & Resource Stressors



Historic Cold

**“Coolest spring
in 37 years.”**

Unusually low night temperatures causing severe stress and leaf roll in standard, untreated crops.



Severe Drought

**“No rainfall to
speak of.”**

Extremely dry conditions paired with mid-to-high 20°C daytime temperatures creating intense transpiration stress.

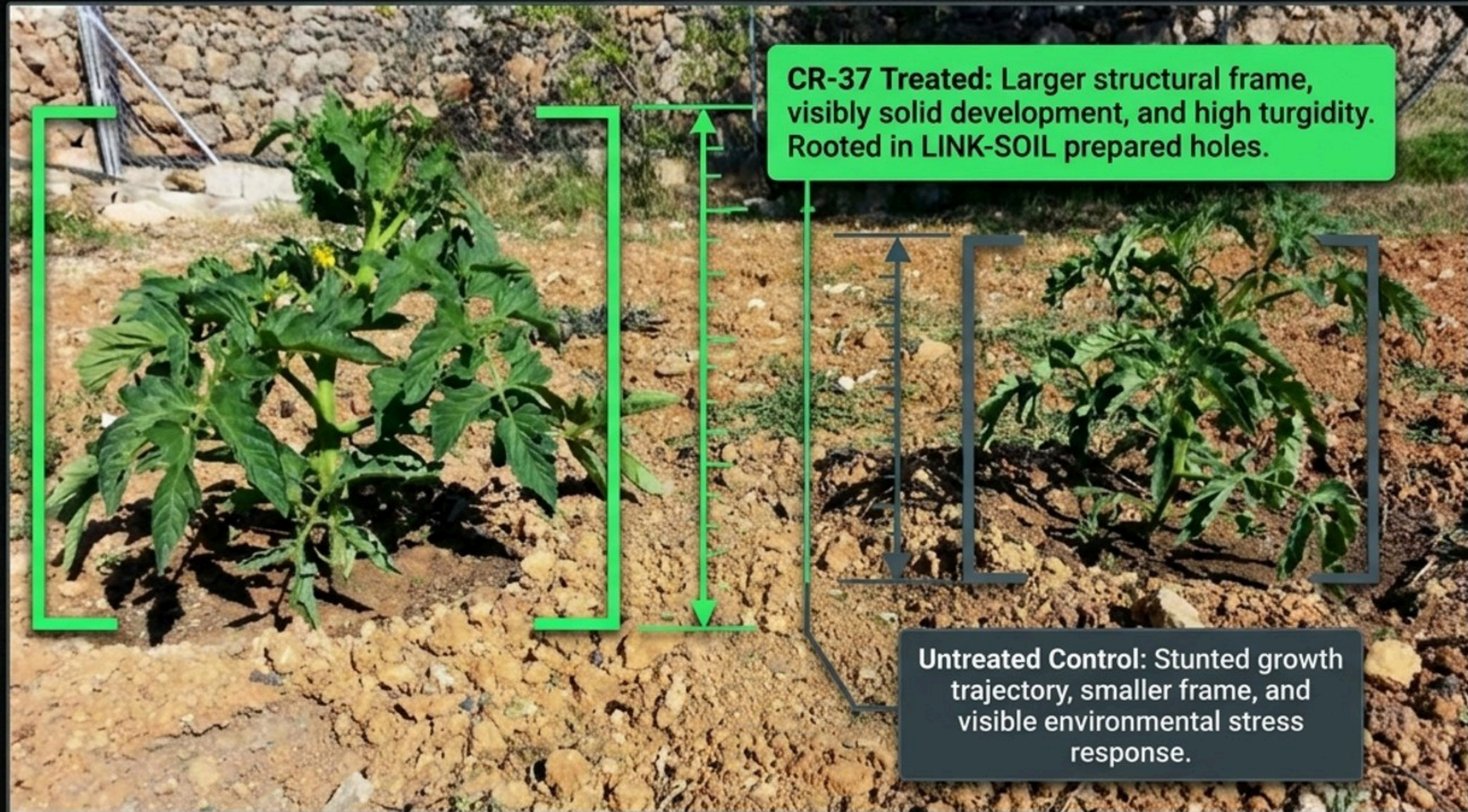


High EC Water

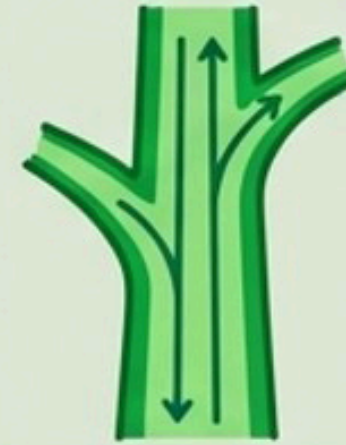
**High EC
Well Water**

Farm relies on well water characterized by high electrical conductivity (salt) and a lack of adequate filtration equipment, normally leading to toxic white salt rings.

Undeniable Morphological Advantage



MORPHOLOGICAL IMPACT: CR-37



Turgor Maintenance

Treated plants appear more solid and turgid, maintaining internal water pressure despite extreme drought conditions and zero rainfall.



Cold-Shock Resistance

While cold nights typically induce protective leaf curling, CR-37 plants exhibited significantly less leaf roll, indicating superior metabolic progression through a cold start to the season.

Comparative Crop Diagnostic

	CR-37 Treated	Untreated
Growth Rate	 Accelerated, successfully outpacing the cold start to the season.	 Sluggish and stalled by historic low temperatures.
Plant Frame	 Bigger, highly robust, and distinctly 'more solid'.	 Smaller, fragile structure.
Turgidity & Water Retention	 Highly turgid; excellent cellular water pressure despite severe drought.	 Visible flagging and moisture stress.
Cold Night Response	 Negligible leaf roll; high environmental resilience.	 Pronounced leaf roll indicative of temperature shock.



Field-Scale Consistency

The accelerated growth and enhanced resilience observed in individual plant comparisons scale consistently across all treated agricultural rows.

“This is true where we have used your product, all plants are bigger framed and appear more solid and turgid... we have been impressed with the product here.”

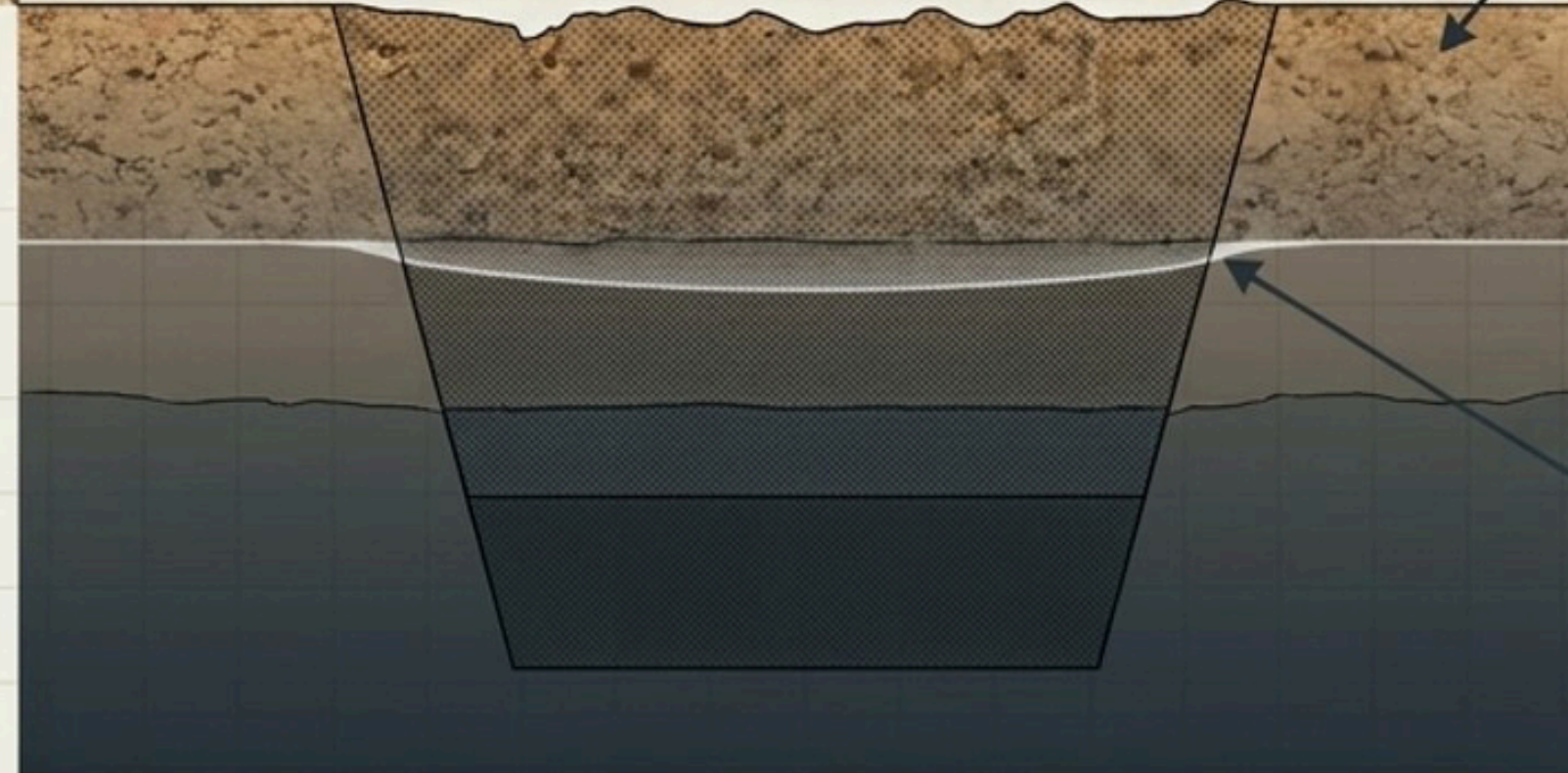
– Andrew Dominic

GROUND-LEVEL INTERFACE: LINK-SOIL



PHYSICAL STRUCTURE

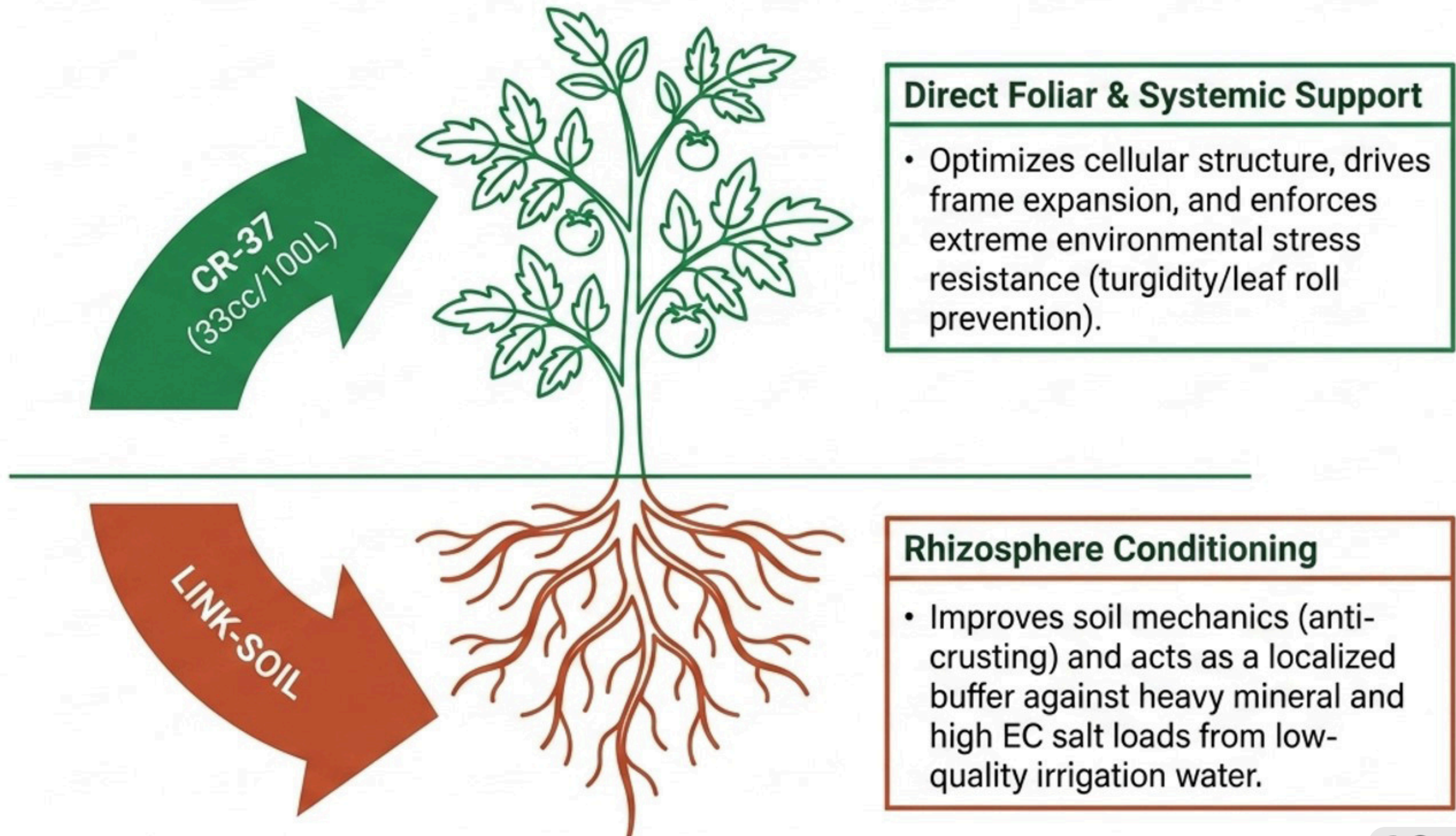
Reduced Surface Crusting: LINK-SOIL application in planting holes resulted in visually less crusting compared to untreated holes, improving soil aeration and water penetration.



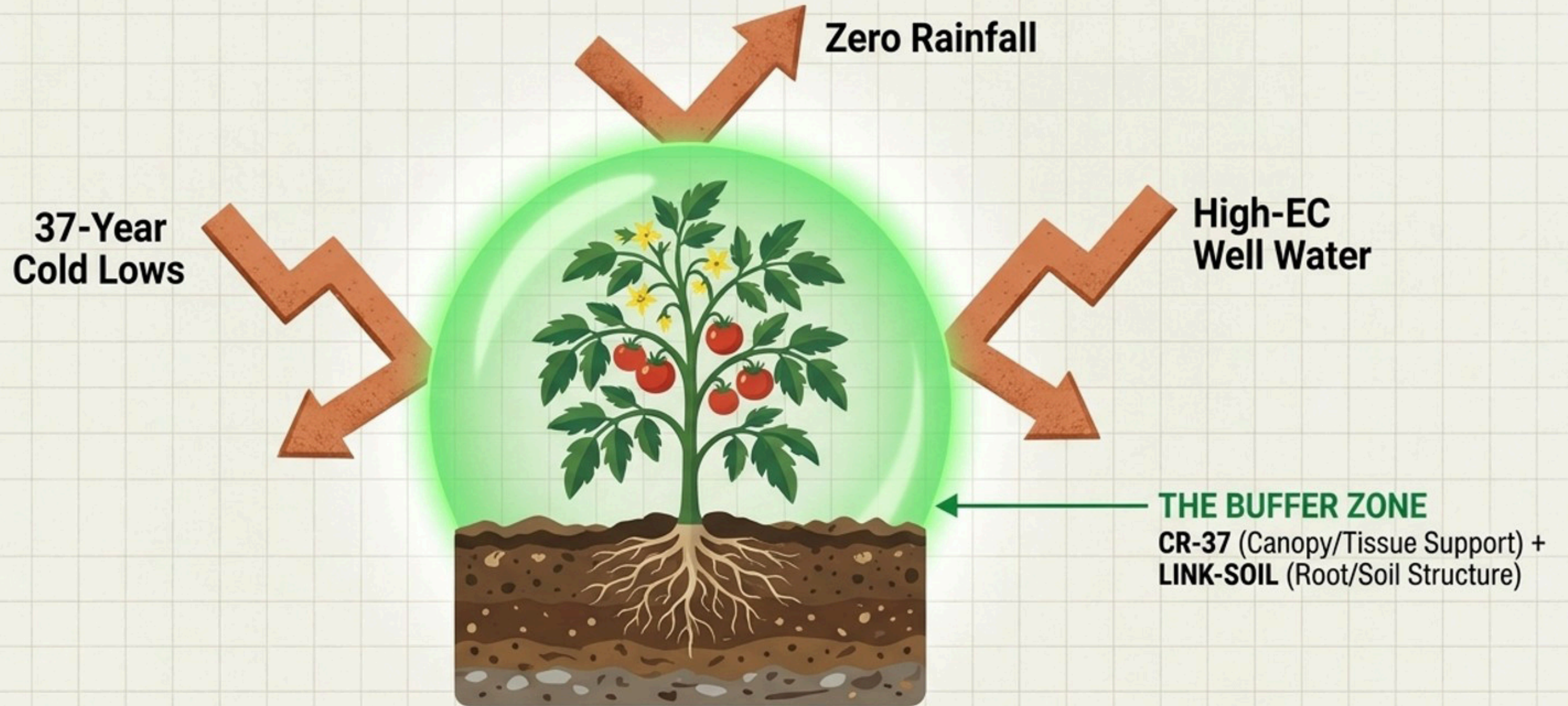
SALINITY METRIC

The 'White Ring' Effect: High-EC well water normally leaves a salt ring. Monitoring is ongoing to confirm LINK-SOIL's ability to reduce this salt build-up, similar to premium humic acid treatments.

The Complete Efficacy Model



THE STRESS-BUFFER MECHANISM



CORE INSIGHT: The data indicates that CR-37 and LINK-SOIL function symbiotically to create a resilient micro-environment. They act as an agronomic insurance policy, mitigating extreme climate volatility to allow normalized, rapid growth rates when plants would otherwise shut down.

Final Verdict & Operational Next Steps

The Verdict

CR-37 provides a decisive, highly visible growth advantage in tomato cultivation during periods of extreme temperature fluctuation and drought.

Tester is highly satisfied.

Future Pipeline

01. Ongoing

Monitor LINK-SOIL's efficacy in preventing white salt rings at the water line.

02. Scale-up Constraint

Evaluating citrus (oranges) and broader vegetable crops requires significantly larger product volume.

03. Irrigation Reality

Farm operates at 4,000L/hour, requiring a maximum of 12,000L of product to facilitate a full-scale mid-summer irrigation test.

EXECUTIVE SUMMARY: ACTIONABLE TAKEAWAYS

01

Accelerated Early Growth

CR-37 drives superior frame development and faster progression through unseasonably cold springs without relying on synthetic forcing.

02

Climate Stress Mitigation

Negates standard physiological stress responses (leaf roll, loss of turgidity) under combined drought and low-temperature conditions.

03

Soil Structure Enhancement

LINK-SOIL visibly reduces soil crusting in planting holes, with ongoing monitoring expected to confirm high-EC salt buffering capabilities.

END OF REPORT // 2018-05-21 // FIELD DOSSIER CLOSED

Play to Win. Partner with Nature.

The future of global agriculture relies on the intersection of biological science and environmental stewardship. **Growing-Up INTL Corp** provides the definitive, zero-compromise solution for sustainable crop management.

Contact & Partnership Hub

Growing-Up International Corp.
69, Minchuan Rd, Tsao Tuen, Nantou, Taiwan 54262
Tel: +886-49-2337927
Email: growing8@growing8.com
Web: www.growing8.com

