THE *BEST* ADJUVANT TECHNOLOGY

To The Plant
Drift Reduction with Performance-Sized Droplets

On The Plant
Droplet Retention by Adhesion & Spreading

In The Plant
Increased Penetration Without Cuticle Disruption

COMPADRE®

- Contains an antifoam/defoam system
- Low use rates make Compadre cost-effective

Franchise®

- For use with strobilurin fungicides; contributes to strobilurin performance and minimizes variability
- Proprietary formula which is particularly helpful if target plant is experiencing stress

LI 700®

- Acidification properties reducing spray solution pH, preventing pesticide degradation and maximizing performance
- A low-foaming surfactant that will not cause foaming problems in the spray tank

Liberate®

- Neutral pH - ideally used with sulfonyl urea herbicides and other pesticides that require a pH 7 (neutral) or higher
- Contains an antifoam/defoam component and will not cause foaming problems in the spray tank
- 100% active and odorless

MISSILE®

- Formulated with premium emulsifiers and water conditioners
- Increased ability to aid in tank mix compatibility
- NPE free formulation

MSO® CONCENTRATE with LECI-TECH®

- MSO Concentrate with Leci-Tech provides increased plant uptake vs. standard methylated seed oil formulations
- MSO Concentrate with Leci-Tech provides improved crop safety vs. standard methylated seed oil formulations

STRIKE FORCE®

- Specifically formulated to be used with the D-Traited (Dicamba & 2,4-D tolerant) crops.
- Water conditioning component minimizes the effects of hard water ions that interfere with herbicide performance
- Antifoam/defoam component stops foam from building or can eliminate it after the fact, for quicker and easier spray tank filling
- Bulk handling capabilities

Vader®

- Acidification properties reduce spray solution pH, preventing pesticide degradation and maximizing performance
- 90% active and low odor formulation
- Maximizes performance of neonicotinoid insecticides

WeatherGard® COMPLETE

- Water conditioning component minimizes the effects of hard water ions that interfere with herbicide performance
- Antifoam/defoam component stops foam from building or can eliminate it after the fact, for quicker and easier spray tank filling
- 100% active

LECI-TECH FAMILY OF PRODUCTS

PRODUCT	ACIDIFIER	ANTIFOAM/ DEFOAM	DEPOSITION AID/STICKER	DRIFT CONTROL	PENETRANT	SPREADER	WATER CONDITIONER	OTHER-SEE DESCRIPTION	DESCRIPTION
COMPADRE®		LECI-TECH®	LECI-TECH®	LECI-TECH®					LECI-TECH® non-ionic surfactant with improved deposition, drift reduction and defoamer
Franchise®				LECI-TECH®	LECI-TECH®	LECI-TECH®		LECI-TECH®	LECI-TECH® chemistry specifically formulated for use with strobilurin fungicides
LI 700®	LECI-TECH®		LECI-TECH®	LECI-TECH®	LECI-TECH®	LECI-TECH®			LECI-TECH® non-ionic penetrating surfactant with pH reduction
Liberate®			LECI-TECH®	LECI-TECH®	LECI-TECH®	LECI-TECH®			LECI-TECH® 100% active surfactant, neutral pH
MISSILE®			LECI-TECH®	LECI-TECH®	LECI-TECH®	LECI-TECH®	LECI-TECH®		Leci-Tech® blend of modified vegetable oil, surfactants and water conditioner
MSO® CONCENTRATE with LECI-TECH®			LECI-TECH®	LECI-TECH®	LECI-TECH®	LECI-TECH®			LECI-TECH® blend of modified vegetable oil and surfactant
STRIKE FORCE®		LECI-TECH®	LECI-TECH®	LECI-TECH®	LECI-TECH®	LECI-TECH®	LECI-TECH®	LECI-TECH®	LECI-TECH® chemistry specifically formulated to be used with the D-Traited (Dicamba & 2,4-D tolerant) crops.
Vader®	LECI-TECH®		LECI-TECH®	LECI-TECH®	LECI-TECH®	LECI-TECH®		LECI-TECH®	LECI-TECH® non-ionic penetrating surfactant with pH reduction for use with neonicotinoid insecticides
WeatherGard® COMPLETE		LECI-TECH®	LECI-TECH®	LECI-TECH®	LECI-TECH®	LECI-TECH®	LECI-TECH®		LECI-TECH® drift control, deposition aid, water conditioner, penetrant and antifoamer/defoamer

Loveland PRODUCTS

LECI-TECH® INSIDE

TO ON IN

PERFORMANCE MADE EASY.

ALWAYS READ AND FOLLOW LABEL DIRECTIONS.

LOVELAND PRODUCTS, INC.® | P.O. BOX 1286 | GREELEY, CO 80632 | www.LovelandProducts.com

Loveland PRODUCTS | Nutrien Ag Solutions®

THE BEST ADJUVANT TECHNOLOGY: TO THE PLANT, ON THE PLANT & IN THE PLANT

LECI-TECH INSIDE

TO ON IN

TO

To the plant:
Drift Reduction with
Performance Sized Droplets

ON

On the plant:
Droplet Retention by
Adhesion and Spreading

IN

In the plant:
Increased Penetration
without Cuticle Disruption

Now that's performance made easy.

WHAT IS LECI-TECH®?

Lecithin is a natural-based product derived from soybean seeds and is the workhorse of the ***Leci-Tech®*** product line. Loveland Products has worked with lecithin for over 35 years and has developed numerous applications that provide benefits above any current technology. Products containing ***Leci-Tech*** technology provide a unique chemistry that works in a variety of row crop, vegetable, small grain, turf and ornamental and non-crop applications. While supporting the American soybean grower, ***Leci-Tech*** allows for lower use rates and crop safety, is biodegradable and is the best adjuvant technology.

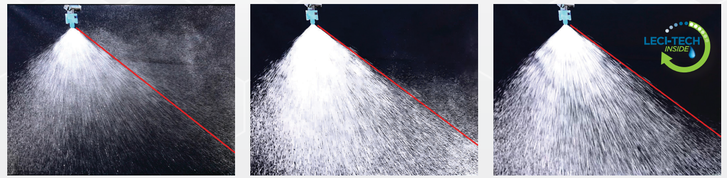
KEY PERFORMANCE FACTORS:

TO THE PLANT —

DRIFT REDUCTION WITH PERFORMANCE SIZED DROPLETS

One of the many unique features of ***Leci-Tech*** is its ability to reduce drift. Over the years, ***Leci-Tech*** has consistently been able to show a significant reduction of driftable fines (under 150um) when using both older XR nozzle technology, and also when using newer drift reduction technology like Air Induction nozzles. ***Leci-Tech*** also decreases extra large droplets (over 500um), which are susceptible to shattering, bouncing, & ineffective droplet retention resulting in highly variable & ineffective performance. Most importantly, ***Leci-Tech*** increases the percent of ideal or ***"performance sized" droplets.***

TO



Demonstrates in simulated wind, coarse droplets of; water alone (left), water with glyphosate (middle), and water with glyphosate and Leci-Tech (right).

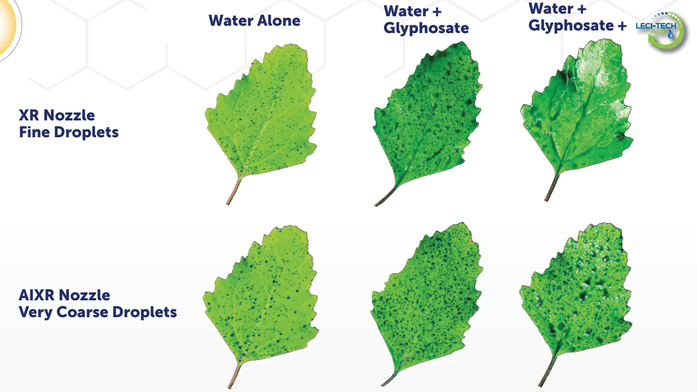
ON THE PLANT —

DROPLET RETENTION BY ADHESION AND SPREADING

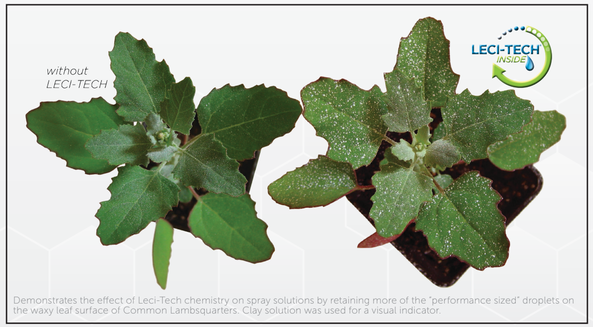
Coverage is one of the primary objectives with many pesticide applications. The ***spreading*** and ***adhesion*** properties of ***Leci-Tech*** are ideal for maximizing contact area and keeping droplets on the target. As the droplet makes contact with the target, the combination of creating ***"performance sized" droplets*** with the ***adhesion*** properties of ***Leci-Tech*** ensures that the droplet hits the target and stays there to provide ***more consistent control***.

Bigger droplets can aid in reducing driftable fines but with bigger droplets, adhesion and spreading are even more critical to maximize spray solution that stays on the target.

ON



Demonstrates the positive benefits of Leci-Tech Chemistry to aide in coverage with not only fine droplets, but with larger droplets as well on the waxy leaf surface of common lambquarters. Blue dye was used for a visual indicator.



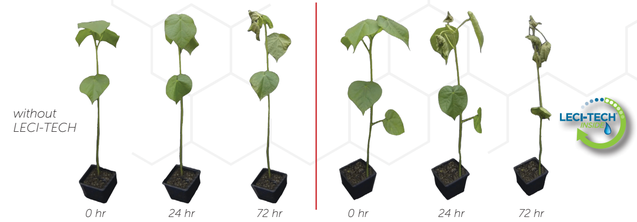
Demonstrates the effect of Leci-Tech chemistry on spray solutions by retaining more of the "performance sized" droplets on the waxy leaf surface of Common Lambsquarters. Clay solution was used for a visual indicator.

IN THE PLANT —

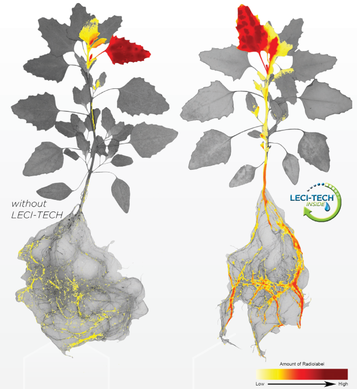
INCREASED PENETRATION WITHOUT CUTICLE DISRUPTION

To ***maximize performance*** of both systemic and contact pesticides, it is critical to ensure penetration through the leaf cuticle. This is especially important when plants are under environmental stress. Not only does ***Leci-Tech*** increase penetration, but it does so without cuticle disruption of the leaf allowing for greater uptake. ***Leci-Tech*** allows the formation of micelles to occur at lower use rates than traditional surfactants, providing quicker uptake with no impact on crop safety.

IN



Demonstrates herbicide on velvetleaf up to 72 hours after treatment (HAT). The first 3 pictures are herbicide alone. The last 3 pictures have a Leci-Tech adjuvant added.



Demonstrates the effect of Leci-Tech chemistry on penetration and translocation of glyphosate into and throughout the Common Lambsquarters plant.

ADDITIONAL LECI-TECH BENEFITS:

- With the combination of hydrophilic and lipophilic elements, ***Leci-Tech*** works well with both water-soluble and oil-soluble pesticides or active ingredients.
- ***Leci-Tech*** does **NOT** compromise ***nozzle performance*** like many other products that control drift by thickening the spray solution.
- ***Leci-Tech*** will also reduce evaporation, allowing for greater uptake.