



Water Conditioner



Get the most out of each pass – add ModipHy™ to your tank.

ModipHy is a water conditioner that is formulated to maximize the efficacy of both your pesticides and foliar fertilizers.

- Improves herbicide efficiency along with promoting weed control.
- Flexible use rate from 50-200 ml/ac based on water quality.
- Compatible with most herbicides as well as a wide range of ATP's innovative plant nutrition products.

Water Conditioning = Delivers the Genetic Potential

Whether it's a preseed burndown, in-crop or pre-harvest, attention should be paid to spray water quality because hard water (cations) can bind to pesticides - decreasing efficacy. By softening the spray water in the tank, ModipHy helps ensure that growers get the most out of each pass over the field.

- Adding ModipHy to your tank mix can maximize chemistry efficacy by balancing your pH and softening hard water.
- ModipHy's surfactant package ensures that more herbicide gets into the leaf reducing the effect of these plant-borne cations.
- ModipHy neutralizes the free ions present in hard water, preventing pesticides from reacting with hard water cations like magnesium, iron and calcium.
- At harvest, ModipHy helps glyphosate penetrate dusty or dirt-covered weeds.

Increase Pre-Harvest Efficiency



Glyphosate alone (left) vs Glyphosate and ModipHy (right)

ModipHy Addresses Hard Water



21 DAT (Michigan State University) 475 ppm hard water

Importance of Soft Water

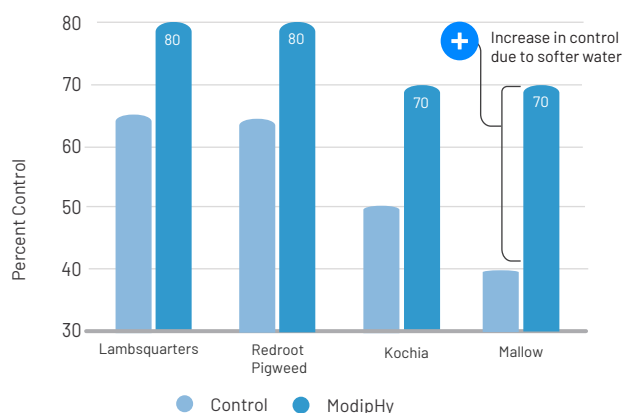


Glyphosate and distilled water (left) vs. Glyphosate only (Ca + Mg at 1000 ppm)

Proven Agronomic Performance

- When ModipHy and Glyphosate are combined, tough to kill weeds like Lambsquarters and Redroot Pigweed are more effectively controlled, maintaining the yield potential of the crop.
- Increased weed control occurs due to ModipHy neutralizing the free ions present in hard water. It prevents your pesticides from reacting with hard water cations like magnesium, iron and calcium. ModipHy's surfactants ensure that more herbicide gets into the leaf, reducing the effect of these plant-borne cations.
- When water quality is not an issue, ModipHy still enhances herbicide efficacy by increasing the solubility of the herbicide, and lowering the spray tank pH thereby improving herbicide uptake by the plant.
- ATP has created a calculator to determine your water hardness called **Total Inactivation Potential** (refer to well water example in table below). Please visit www.atpag.com to input your Spray Water Analysis information to retrieve your Water Hardness report.

Weed Control



ModipHy Rate Calculator Example: Well Water

Ion	Activity Index	Spray Water Analysis ppm (mg/L)	Water Hardness (Inactivation Potential)
Potassium, K+	0.2	11.86	2.372
Sodium, Na+	0.6	436.81	262.09
Calcium, Ca++	1.0	191.52	191.52
Magnesium, Mg++	1.7	64.91	110.35
Iron, Fe+++	2.5	0.00	0.00
Total		705.10	
Total Inactivation Potential			566.325



*Is your water quality an issue?
Contact ATP to conduct a free water hardness test to determine if ModipHy is required. Call toll free at 1-877-538-5511.*

Product Recommendations

- Apply ModipHy as a foliar spray with a recommended volume that's flexible from 0.125% to 1.0% v/v providing a range of options to take on the toughest weeds and to meet your weed control objectives.
- Please contact your ATP Technical Account Manager for rate recommendations.
- To view the ModipHy SDS, Product Label and to use the ModipHy Water Hardness Calculator, please visit www.atpag.com

Classification	Water Hardness	ModipHy Use Rate
Soft	100 - 300 ppm	0.25 % v/v 50ml/5 gpa
Moderately Hard	300-750 ppm	0.5% v/v 100ml/5 gpa
Hard	750 - 1000 ppm	0.75% v/v 150ml/5 gpa
Extremely Hard	1000+ ppm	1.00% v/v 200ml/5 gpa



At ATP, we believe a proactive, science-based approach to restore the balance between plant and soil health is the single most effective way to deliver the genetic potential of the crop. We challenge the status quo by utilizing agtech to monitor and drive productivity.

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