R_3Plant™ Recovery

For use on soybeans

What is R_3Plant Recovery and what does it do?

R_3Plant Recovery is a selected mix of microbials used following an early hail event to stimulate regrowth from the point of breakage rather than a lateral bud. This mix of microbials is found in Soy_{fx} seed applied and is offered for those who didn't use it in their seed treatment program. Soy_{fx} contains microbials that enhance regrowth following a hail event, so the point of stem breakage grows rather than growth from an axillary bud. Therefore, if there is a hailstorm early enough that replanting is an option, Soy_{fx} reduces the need to replant.

Mechanisms of actions:

- Stimulates growth from the stem breakage point so recovery happens faster

What to watch for:

Better recovery of the soybean following a hail event from the point of stem breakage and from axillary buds. Depending on the level of hail damage, the soybeans will regenerate, though where R_3Plant Recovery was applied, regeneration should be faster and more complete.

Morphological response:

- Soybeans will reach canopy faster after a hail event
- Plants may produce and retain pods lower on the stem
- Increased number of pods and size of beans in the pods
- Shorter internodes may develop to support more pods
- May increase branching in a semi- bush variety

How to apply

Foliar: 32 fl. oz. per acre with 10 to 20 gallons water. Applying R_3Plant Recovery can be both a preemptive application and a rescue treatment to soybeans. If preemptive, apply to small plants (V2-V4) with water alone or it may be tank mixed with other products (perform a jar test to verify compatibility). If using as a rescue treatment apply within three days to a week of the hail event to maximize benefit. As a rescue treatment applying with water alone would be the normal treatment.

Tank mixtures:

No surfactant is needed for the microbes to enter the plant, though a surfactant may be acceptable if tank mixing with other products. Perform a jar test to verify compatibility of product mixture. Do not use with antimicrobial water conditioners, or water containing levels not approved under EPA human drinking water standards. This includes copper, bleach, fluoride, chloramines, chloride, bactericides, phosphoric or sulfuric acid. Do not use with propiconazole (Slant™, Tilt®, Quilt®…). Mixing with glyphosate may result in microbial mortality.

Cautions:

Should not use hormone-based plant growth regulators (PGRs) with this product because the combination may result in stunted plant growth. Conduct a jar test to verify tank mix compatibility.

Spray tip selection

TEEJET™ XR, XRC OR TEEJET TURBO		
	Line Pressure	Application Speed
Red Tip	20 psi	8 mph
Red Tip	30 psi	10 mph
Red Tip	Max 40 psi	12 mph
Brown Tip	20 psi	8 mph
Brown Tip	30 psi	10 mph
Brown Tip	Max 40 psi	12 mph

Application Standards:
Follow good sprayer (and line and nozzles) cleanout before using these biologicals. Don't mix concentrated microbials with concentrated pesticides or fertilizers.
For foliar application use a minimum of 10 gpa total solution
Screen size recommendation: Not smaller than 50 mesh. No tip screen required.
Residence time on the plant before rain (rainfast): 3 hrs.
Application temperature range: 40° to 85° F (4° to 29° C)

Storage and use:
Store between 50° and 90° F in a place out of the sun. Use contents within 72 hrs. of opening the seal on the container. Shake container well before using. Keep jugs upright and don't "burp." This is a combination of living organisms in the jug so be mindful that it may swell or contract. The jug has a pressure sensitive seal and will self-regulate as designed.
Guaranteed Analysis:
Soluble Potash (K_20) 1.00% From potassium carbonate

Nonplant food:

Pseudomonas fluorescence	1.0 x 10^5 CFU/ml
Bacillus megaterium	1.0 x 10^2 CFU/ml
Arthrobacterium sp	1.0 x 10^2 CFU/ml
Microbacterium testacium	1.0 x 10^2 CFU/ml

Microorganisms exempt from CFR requirements – 40 CFR 725.

Packaging: 2 x 2.5g jugs, 275 gal. bulk shuttles