



MEASURE THE IMPACT ON YOUR FARM



FIELD TRIAL GUIDE

You can see and measure the benefits of H-Start at more than just harvest. Your crop and soil benefit from H-Start throughout the growing season and many of these can be seen in the field. If this isn't your first year of application, you'll likely observe even more benefits in your field.

The following is a guideline to trial H-Start on your farm and measure the plant and soil responses that may be visible during the first year.

CHOOSE YOUR FIELD

We recommend you apply H-Start to a quarter section adjacent to a quarter section without H-Start as a control.

- Both quarter sections should have comparable field conditions and cropping history.
- Seed both quarter sections at the same time.
- Apply the same rate of fertilizer to both fields.
- Apply H-Start at 35 pounds per acre on the H-Start quarter.

HOW TO DIG AND ASSESS ROOTS

- Dig plants using a shovel in a 12" x 12" square is recommended.
- Place the plants and soil in water so you can gently massage soil away and assess differences in root development. At the end of the season, dry roots require extra care to maintain their integrity.
- Look for main root development, root branching, and root hairs.



A PICTURE IS WORTH A THOUSAND WORDS

Snap a photo of the differences you're seeing to document your experience with H-Start. Share it with us on X or Facebook [@HumaTerraRegen](https://www.facebook.com/HumaTerraRegen).



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28-42 DAYS AFTER SEEDING

DIFFERENCES TO LOOK FOR:

- **Crop stage:** leaf stage, tillering or branching, leaf width or area.
- **Visual comparison:** crop vigor, height, and stage.
- **Root development:** root length, root hair growth, root branching, disease presence and severity, root nodules in pulses.

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HARVEST

DIFFERENCES TO LOOK FOR:

- **Crop stage:** crop maturity and harvest timing.
- **Visual comparison:** head or pod size, head fill, number of pods, branching on indeterminate crops, total tillers in cereals, flag leaf health.
- **Soil texture and tith:** choose similar areas in both fields and measure the force required to push a metal rod or a spade into each field to similar depths. A penetrometer can be used if available.

ASSESS YOUR YIELD

Gathering accurate yield data is often the biggest challenge with on farm trials. After several years of working closely with growers, we have found the best method to determine yield is to harvest and weigh the entire treated and untreated fields. This reduces the impact of spatial variability often found in trying to gather data off a limited number of swaths or harvest passes. While this process takes more time and coordination, the results are more accurate and relevant.

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WHAT'S NEXT?



WE'D LIKE TO HEAR HOW YOUR H-START TRIAL WENT.

Connect with us on X or Facebook @HumaTerraRegen or send us an email at sales@humaterra.ca.

