



## Enabling Agricultural Research and Innovation Interim Report

**Project Title and Number:** NB2425-0351 – Evaluating Bio-Strip Tillage in New Brunswick

**Project Lead:** Jason Wells, PAg, NBDAAF

**Project Collaborators:** Ray Carmichael, New Brunswick Soil and Crop Improvement Association; Frank and Alex Jopp, Two Streams Farm Ltd.

**Time Period:** May 2, 2024 – February 28, 2025

### Project Objectives:

To evaluate a novel production system for corn under New Brunswick growing conditions.

### Project Deliverables:

1. Compare corn emergence, growth and yield between bio-strip till and a convention till systems.
2. Compare the cost of the two practices using published information.

### Summary of Progress:

The Farmer Co-operator harvested the forage from the field to be used for the Bio-Strip Tillage trial on August 8, 2024. The field was allowed to regrow until August 15, 2024, at which time it received an application of glyphosate at 1.33L/ac. The no-till drill to be used for establishing the trial was calibrated and setup on August 22, 2024. The trial site was laid out and flagged the same day. The trial was planted on August 23, 2024.

Climate conditions for the month following planting were dry. Germination and establishment were believed to be impacted from the lack of rainfall.

The project team believes the establishment was suitable so that the trial can continue in 2025 with the planting of the corn and required data collection occurring.

Photos of the equipment setup, site layout and crop growth and development at various intervals are shown in Figures 1 to 7.

Details of the trial were shared via the NBSCIA Facebook page and during a field day on November 5, 2024 (Figure 8). Approximately 40 individuals attended the field day with over half being producers.



Figure 1. Seed Box Sectioned Off and Prepped for Seeding



**Figure 2.** Trial Site Layout



**Figure 3.** Crop Growth and Development on Sept. 9, 2024



**Figure 4.** Crop Development and Growth on Sep. 24, 2024



**Figure 5.** Crop Development and Growth on Oct. 10, 2024



**Figure 6.** Crop Development and Growth on Oct. 24, 2024

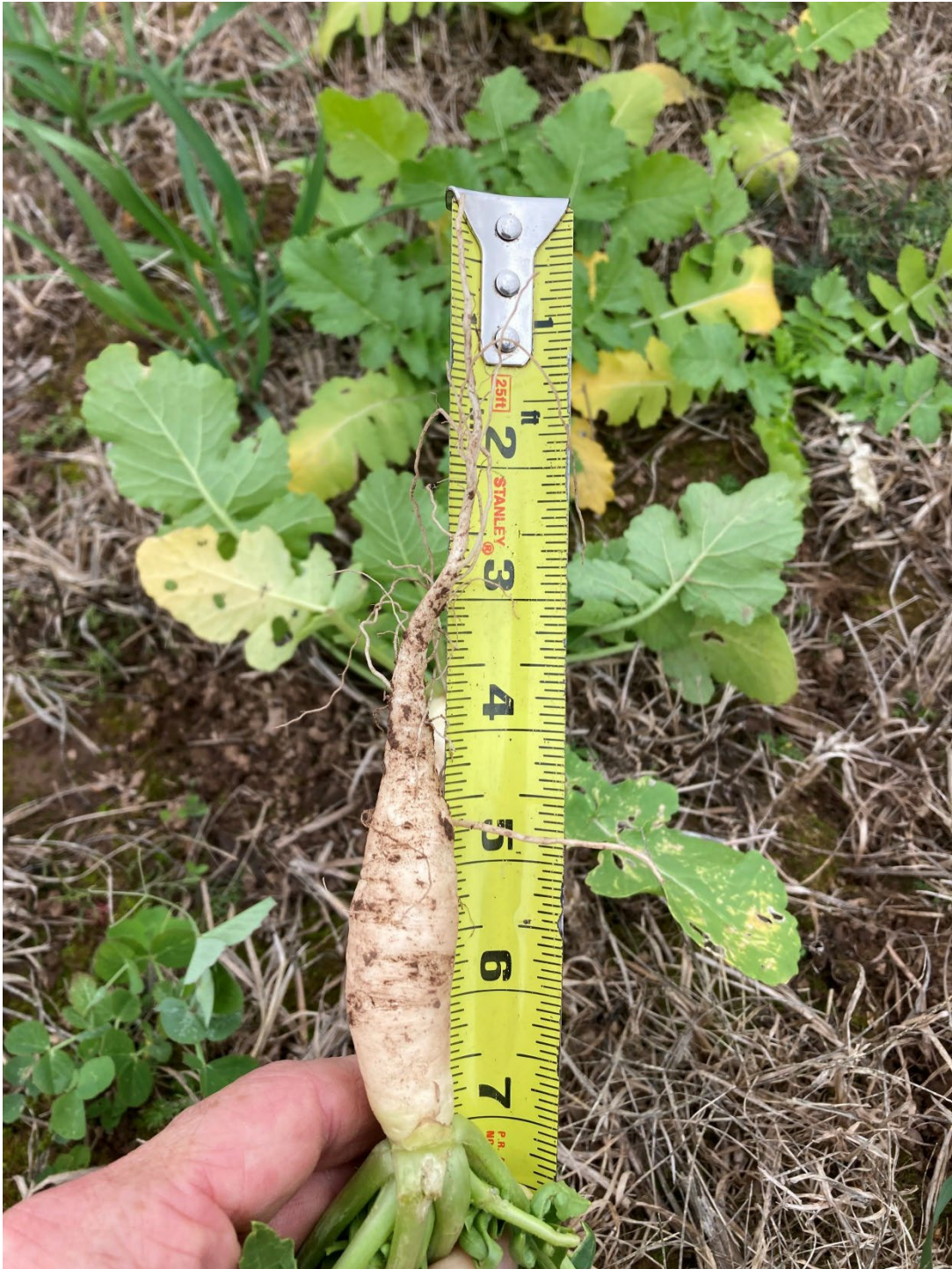


Figure 7. Tillage Radish Development and Root Length on Oct. 24, 2024



**Figure 8. Crazy Cover Crop Field Day**

**Adjustments:**

None required.