



**Plot2
Farm**

B002 - Trinexapac-ethyl (Moddus) plant growth regulator on barley (malt or feed)

Objective: Compare the standability, yield and quality of the plant growth regulator (PGR) trinexapac-ethyl (Moddus) application on barley compared to an untreated check. (malt or feed)

Research support

Research conducted by Dr. Sheri Strydhorst (formerly Alberta Agriculture and Forestry), Laurel Thompson of Lakeland College, and Dr. Linda Hall of the University of Alberta has shown that spring barley varieties treated with the PGR 'Moddus' (Syngenta Canada) varied in their responses across the variety, year and location. The use of PGRs in high yielding and high moisture areas can provide benefit by reducing lodging risk. PGR application can also impact yield, quality and protein.

This on-farm research protocol will help determine the value of trinexapac-ethyl (Moddus) application on your farm under typical management.

Field Layout and Selection

Field layout will depend on the number of treatments selected. Review the Research Guide for the best practices on treatment design, choosing your trial and how it should be laid out.

Treatments

To follow good experimental protocol, treatments should be both replicated and randomized. For example, if you are testing 2 treatments, the order of those treatments change in each replication (see trial design below). In replication 1, treatment 1 precedes treatment 2, but in the second replication, treatment 2 precedes treatment 1. This reduces the effects of field variability on results. Take detailed notes to remember the order of treatment applications.

Treatment 1: Check treatment: No Moddus application

Treatment 2: Moddus Treatment: Apply 0.42L/ac of Moddus at growth stage BBCH 31-32 with at least 10 Gal/ac of spray solution.

Replication 1	Treatment 1:
	Treatment 2:
Replication 2	Treatment 2:
	Treatment 1:
Replication 3	Treatment 1:
	Treatment 2:
Replication 4	Treatment 2:
	Treatment 1:

Additional Notes:

1. All treatments will be planted to the same cultivar and receive the same fertilizer, seed treatment, herbicide, fungicide, pre-seed and harvest treatment.
2. Always read and follow label directions.

