

# North Dakota - Herbicide Resistance Survey

## [Collection & Submission Form]

**Survey Goal** – Report to submitters if weeds contain genetic markers associated with resistance to Groups 2, 9, and 14 herbicides. The genetic tests work only on **PIGWEEDS and KOCHIA**.

**Collection Approach** – You can: 1) test individual weed patches within one field, or 2) survey multiple fields by testing one weed patch per field. **Only collect leaves from one (1) plant per patch.**

### Collection Instructions

1. Locate pigweeds or kochia in the field. Proper ID is important before collecting leaf samples.
2. Collect two leaves near the top of the plant. Place two (2) leaves from a single plant into one (1) zipper bag or small envelope. **DO NOT mix leaves** from multiple plants.
3. With a marker, label the outside of the collection bag with a unique Sample ID. The Sample ID can be in the following format: **Year-Month-County-Personal Field ID** (Example: 24-05-Cass-SE4). Make sure to also write the Sample ID on the submission form below.
4. Sample additional weeds in fields of your choice by following Steps 1-3. **Send a max of four (4) total plants for testing.** Keep samples dry and at room temperature before shipping.

5. Mail the submission form and individually-packaged samples in a large business envelope to:

National Ag Genotyping Center  
1616 Albrecht Blvd N  
Fargo, ND 58102

Results will be sent to only the email addresses listed on the submission form below. The report will come from an automated system (noreply@nagc.limsplus.com), which might be in your spam folder. Statewide results will be summarized at the end of the season, but no personal information or exact locations will be released.

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## Submission Form

### Submitter Information

Name: \_\_\_\_\_

Phone: \_\_\_\_\_

Email(s): \_\_\_\_\_

### Collaborators



<b>Envelope</b>	<b>Sample ID</b> [Year-Month-County-Field Description] Example [24-06-Cass-SE4]	<b>Kochia or Pigweed species</b>	<b>Herbicide(s) applied to weeds/field</b>
1			
2			
3			
4			

### Sponsors



Direct any sampling questions to NAGC  
Email: research@genotypingcenter.com  
Phone: 701-239-1451