



An Roinn Talmhaíochta,
Bia agus Mara
Department of Agriculture,
Food and the Marine

DAFM-RSF funded
EVOLVE grass-weed
project (2023-26)



Herbicide Resistance Testing Application Form

Farmer / Advisor Name			
Farmer Address			
Phone Number			
Email			
Field Name			
Field GPS Location +/- townland			
Grass weeds for testing	Spring wild oats <input type="checkbox"/> Sterile brome <input type="checkbox"/> Blackgrass <input type="checkbox"/> Italian ryegrass <input type="checkbox"/> Great brome <input type="checkbox"/> Soft brome <input type="checkbox"/> Meadow brome <input type="checkbox"/> Canary grass <input type="checkbox"/> Annual meadow-grass <input type="checkbox"/> Perennial ryegrass <input type="checkbox"/> Rat's tail fescue <input type="checkbox"/> Other:		
Broad-leaved weeds for testing	Common chickweed <input type="checkbox"/> Common poppy <input type="checkbox"/> Corn marigold <input type="checkbox"/> Speedwell <input type="checkbox"/> Willow herb <input type="checkbox"/> Red shank <input type="checkbox"/> May weed <input type="checkbox"/> Groundsel <input type="checkbox"/> Cleavers <input type="checkbox"/> Other:		
What year was the weed first noticed?			
Where is the weed located in the field?	Headlands only <input type="checkbox"/> Throughout the field <input type="checkbox"/> Headlands and in-field <input type="checkbox"/>		
Current crop (Harvest 2023)			
Herbicides used in the current crop	Pre-emerge	Post-emerge-1	Post-emerge-2
	Product name: _____ Product rate: _____ Date of application: ____	Product name: _____ Product rate: _____ Date of application: ____	Product name: _____ Product rate: _____ Date of application: ____
Previous crop (Harvest 2022)			
Herbicides used in the previous crop	Pre-emerge	Post-emerge-1	Post-emerge-2
	Product name: _____ Product rate: _____ Date of application: ____	Product name: _____ Product rate: _____ Date of application: ____	Product name: _____ Product rate: _____ Date of application: ____
Is herbicide resistance suspected?	Yes <input type="checkbox"/> No <input type="checkbox"/>		

***It is essential that you to fill out this form with as much as information as possible or the sample will not be tested.**

Seed collection instructions

- 1) Collect as follows:
 - Fields with small populations, walk and sample all or most of the affected area
 - Fields with heavy infestations, ensure you get a representative sample by systematically sampling the field using tramline number as a base.
 - Bulk the seed samples
 - Do not mix seeds from different fields or species
- 2) Collect seeds when they are ripe and easily fall-off from their seed heads, and those mature shatter seeds will germinate rapidly. Seeds sampled too early or from intact heads will be unripe/immature and will not germinate.
- 3) Identification and mapping of problem weeds should be carried out in June, ripe seeds should be collected in mid-July to early-August (mid/late-June for winter barley).
- 4) Sample as follows:
 - For grass weeds: cut-off the mature seed heads directly into a paper envelope. Gently rub the heads or shake vigorously inside the envelope (this process should be carried out in a secure area away from the field to prevent seed escape). Collect seeds on dry days, but if damp allow them dry (away from sunlight) before threshing.
 - For broad-leaved weeds: cut-off the mature heads directly into a paper envelope and keep the paper envelope open for couple of days to allow further drying of the heads.
 - If polythene bags are used, transfer the samples immediately to paper envelopes.
 - Never store or transport samples in polythene bags.
- 5) **We need large quantities of seed.**
 - For smaller seeds (eg blackgrass, Italian ryegrass), 1-2 mugs (0.5 L) of seeds
 - For larger seeds (eg Wild oats, brome), 1-2 pints (0.8 L) glass of seeds
- 6) Send paper envelope of dry seeds along with completed resistance testing form to Teagasc Oak Park Crops Research Centre, Carlow, R93 XE12 or deliver by hand to Teagasc main reception desk, Oak Park, Carlow.
- 7) We will test your weed with all labelled herbicides that have activity on that weed.

Weed	Post-emergent herbicides tested
Wild oats	Axial, Falcon, Stratos, Pacifica, Broadway
Bromes	Falcon, Stratos, Pacifica, Broadway
Blackgrass	Falcon, Stratos, Centurion, Pacifica, Glyphosate
Italian ryegrass	Axial, Falcon, Stratos, Centurion, Pacifica, Broadway, Glyphosate
Poppy, Chickweed, etc.	Ally Max, Galaxy, Boxer, Hurler, CMPP, Arylex, 2,4 D

For queries or you want us to collect your population, you can contact:

Contact information	Phone	Email
Charlotte Morgan, EVOLVE PhD	087-3254500 / 059-9183525	Charlotte.Morgan@teagasc.ie
Gerry Nolan, EVOLVE Technician	087-7598061 / 059-9183558	Gerry.Nolan@teagasc.ie
Vijaya Bhaskar, Weed Researcher	087-0609409 / 059-9170248	Vijaya.Bhaskar@teagasc.ie