

## **CLEARFIELD® Wheat Seed Production Guidelines**

This document is meant to serve as a quick reference for **CLEARFIELD** wheat foundation, registered and certified seed producers and is not all inclusive of the guidelines required for foundation, registered and certified wheat seed production. Additional documentation is referenced within and its thorough review is recommended. Additional production and certification guidelines may be required by your local seed foundation or seed certification agency.

### **Field Management**

- Choose seed production fields that are free of jointed goatgrass, feral rye, downy brome, Italian ryegrass and noxious weeds.
- Choose fields that have been never used for wheat containing genetically modified (GM) or other regulated events.
- **CLEARFIELD** wheat may only be planted two consecutive years on the same field.
  - If **CLEARFIELD** wheat is planted two consecutive years, it must be the same variety.
- Fields may not be grazed until 30 days after **Beyond®** herbicide application.
- Maintain a minimum of 30-meter isolation buffer (meet or exceed state certification recommendations) to adjacent wheat crop or field.
  - Recommend planting whole fields or utilize alternative crops for buffers
- Rogue production fields for off-types and weedy relatives.

### **Equipment Management**

- Thoroughly clean equipment used to plant, harvest, transport and condition **CLEARFIELD** wheat.

### **Beyond® herbicide Application**

- Wheat must be sprayed with Beyond at labeled rate of 4 to 6 oz per acre according to label recommendation for each wheat type and **CLEARFIELD** wheat genotype. For 2-gene **CLEARFIELD** wheat varieties, MSO must be added in spray tank at the minimum suggested rate if the tank-mix partner herbicide – if used – allows MSO.
  - Follow **Beyond** label for details of application instructions.
  - Do not apply any other ALS-inhibiting herbicide to the **CLEARFIELD** wheat crop.
  - Additional, broad-spectrum herbicides, ex., **Clarity®** herbicide, may be used for weed control as needed with exception to other ALS-inhibiting herbicides
- Always read and follow product label(s).

### **Crop Rotation Restrictions**

- Read and follow **Beyond** label for crop rotation restrictions

## Protocol W-80

### State Seed Certification

- Purchase Foundation or Registered **CLEARFIELD** Wheat seed. Do NOT use “bin-run” seed.
- Seed producer must coordinate state seed certification inspections after crop heading and must submit **CLEARFIELD** CONFIRM TEST Report for Tolerance Purity to the state certification authority.
- Field must be weed-free of jointed goatgrass and noxious weeds.
- Grain from rejected fields cannot be saved for seed planting for subsequent **CLEARFIELD** wheat crop.

### Seed Conditioning

- Utilize approved seed conditioner(s) for seed screening and cleaning.
- Submit conditioned seed to approved seed testing lab for germination, purity and percent imazamox tolerance ( $\geq 92\%$ )

### **CLEARFIELD**<sup>®</sup> CONFIRM TEST for Tolerance Purity

- All **CLEARFIELD** wheat seed (sample size ~3,000 seeds) must be submitted to a BASF certified seed testing lab prior to its sale and distribution as certified seed to confirm the acceptable, minimal herbicide tolerance level of 92% to imazamox or Beyond herbicide.
- Records pertaining to **CLEARFIELD** CONFIRM TEST must be maintained for at least five (5) years.
- Certified Seed Producer must submit **CLEARFIELD** CONFIRM TEST results to the state certification authority for each seed lot.
- Irrespective of State Seed Certification, any seed lot which does not pass the **CLEARFIELD** CONFIRM TEST shall not be sold as certified seed or saved for planting for subsequent year of **CLEARFIELD** wheat crop.

### **CLEARFIELD** Care Protocol

- Follow BASF “**CLEARFIELD** Care Protocol” (CCP.CF.1) to ensure **CLEARFIELD** wheat seed is free of adventitious presence of genetically modified or regulated event(s), wherein **CLEARFIELD** wheat seed may have unintentionally or incidentally commingled with non-**CLEARFIELD** wheat seed or GM wheat seed.

### Storage and Handling

- Seed must be identified and preserved after harvest.
- Records must be maintained and clearly identify field location, production data, storage location and seed shipping records.
- **CLEARFIELD** wheat seed must be clearly identified in approved storage containers.
- Bag tag or bulk certificate must be marked with **CLEARFIELD** logo.

\* **CLEARFIELD**, **Beyond** and **Clarity** are registered trademarks of BASF Corp.

\* Always read and follow label directions.