

# Diligent™

## HERBICIDE

### Waterhemp not welcome.

Diligent herbicide is your solution for glyphosate resistant waterhemp and other annual broadleaf weeds in soybeans. Diligent provides a multi-mode defense against group 2, 5 and 9 resistant broadleaf weeds. With an early pre-plant to pre-emergence window of application, Diligent provides a pro-active approach to weed resistance management.

- Early season residual weed control
- Control of herbicide resistant weeds such as Waterhemp, Eastern black nightshade and pigweed."
- Fits any soybean production system – conventional or glyphosate tolerant including Roundup Ready 2 Xtend™ and Enlist E3™ soybeans

### WATERHEMP – AN EMERGING WEED CONTROL CHALLENGE

Waterhemp is a new, aggressive, glyphosate resistant weed that has swept across the Midwest and made its way into Ontario and Quebec:

- Waterhemp is a prolific seed producer. One plant is capable of producing over ¼ million seeds
- Waterhemp grows rapidly, up to 2-3 cm per day
- Waterhemp emerges over a wider window and can emerge later than most common annual broadleaf weeds
- Several of the waterhemp biotypes identified in Ontario and Quebec have resistance to multiple herbicide groups.
- Waterhemp is differentiated from other pigweed species by its hairless stems. Because waterhemp plants have male and female flowers on separate plants, they must outcross, resulting in tremendous genetic diversity.



Photo credit: Benoit, 2018

HOW TO USE	
<b>Glyphosate Tolerant Soybeans</b> (Including Roundup Ready 2 Xtend and Enlist E3™ soybeans)	<b>Non-GM Soybeans</b>
<b>Early Preplant or Pre-emergence:</b> <ul style="list-style-type: none"> <li>• Apply as early as 30 days before and up to 3 days after planting soybeans</li> <li>• 40 acres per jug (70.4 g/ac)</li> <li>• Removes early season weed pressure</li> <li>• For burndown applications tank-mix with glyphosate</li> <li>• Follow up early post-emergence with glyphosate and other effective herbicide groups</li> </ul>	<b>Early Preplant or Pre-emergence:</b> <ul style="list-style-type: none"> <li>• Apply as early as 30 days before and up to 3 days after planting soybeans</li> <li>• 40 acres per jug (70.4 g/ac)</li> <li>• Tank-mix with compatible annual grass herbicides to provide a broader spectrum of annual weed control</li> <li>• Compatible annual grass herbicides for tank-mixing with Diligent                             <ul style="list-style-type: none"> <li>• Prowl® H2O</li> <li>• Focus® or Zidua™</li> </ul> </li> </ul>
<b>Packaging:</b> 2 x 2.816 kg jugs – 80 acre case 1 jug treats 40 acres at 70.4 g/ac	

WEEDS CONTROLLED
<b>Broadleaf Weeds:</b> <ul style="list-style-type: none"> <li>• Common chickweed</li> <li>• Common ragweed</li> <li>• Dandelion*</li> <li>• Eastern black nightshade</li> <li>• Fall panicum**</li> <li>• Green foxtail**</li> <li>• Green pigweed</li> <li>• Hairy nightshade</li> <li>• Lamb's-quarters</li> <li>• Redroot pigweed</li> <li>• Palmer amaranth***†</li> <li>• Waterhemp***†</li> </ul>

\* Early season control only on medium textured soils. \*\* Suppression only. \*\*\*Including biotypes resistant to herbicide groups 2,5, and 9. † Submitted for registration.

CROP ROTATION: REPLANTING INTERVAL (MONTHS)					
Soil PH	Field Corn	Winter Wheat	White Beans	Soybeans	Alfalfa
≤7.0	10	4	10	10	11
>7.0 ≤7.4					
>7.4 ≤7.8	10	4	Do Not Plant	10	Do Not Plant
>7.8 ≤8.0	Do Not Plant	4	Do Not Plant		
>8.0	Do Not Plant				

\*Warning: Sweet corn varieties may vary in their sensitivity to Diligent residues