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# Weed Emergence Sequences: Knowledge to guide scouting and control

Iowa State University Extension and Outreach

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# Weed Emergence Sequences

## Knowledge to guide scouting and control

Knowing when weeds begin to emerge can improve weed management by helping to determine when to scout fields and implement control tactics. Although the initial emergence date for weeds varies from year to year, the emergence sequence of different weeds is fairly constant. Each group below includes weeds that begin to emerge at similar dates. Most weeds

emerge over a prolonged time period, so weeds from earlier groups may still be emerging when later groups begin to emerge. The GDD (base 48) information is an estimate of heat units required to reach 10% emergence. However, weed emergence is influenced by several other factors than air temperature, including cloud cover, soil type and moisture, and crop residue.

For some species, the majority of emergence occurs in a short time period (2-3 weeks), whereas other species may emerge over a prolonged period (8-10 weeks).

The duration of emergence for species is indicated by the color background where its name appears.

**Short**   **Medium**   **Long**

<p>Early</p> <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Emergence Date</p> <p>Late</p>	<p><b>Group 0</b> Emergence occurs in fall or early spring.</p> <p>Winter annuals normally complete emergence prior to planting of corn or soybeans. Examples: Horseweed (marestalk), white cockle, field pennycress, shepherd's purse.</p>				
	<p><b>Group 1</b> Emergence begins several weeks prior to corn planting. GDD &lt; 150</p>	 <p>Giant ragweed</p>	 <p>Lambsquarters</p>	 <p>Penn. smartweed</p>	 <p>Common sunflower</p>
	<p><b>Group 2</b> Emergence begins soon before or at corn planting. GDD = 150-300</p>	 <p>Woolly cupgrass</p>	 <p>Common ragweed</p>	 <p>Velvetleaf</p>	 <p>Giant foxtail</p>
	<p><b>Group 3</b> Emergence begins at end of corn planting season. GDD = 250-400</p>	 <p>Yellow foxtail</p>	 <p>Black nightshade</p>	 <p>Common cocklebur</p>	 <p>Wild proso millet</p>
<p><b>Group 4</b> Emergence begins after corn emergence. GDD &gt; 350</p>	 <p>Large crabgrass</p>	 <p>Fall panicum</p>	 <p>Waterhemp</p>	 <p>Morningglory sp.</p>	

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