



SOWING DATE DELAY FOR WEED CONTROL IN WHEAT

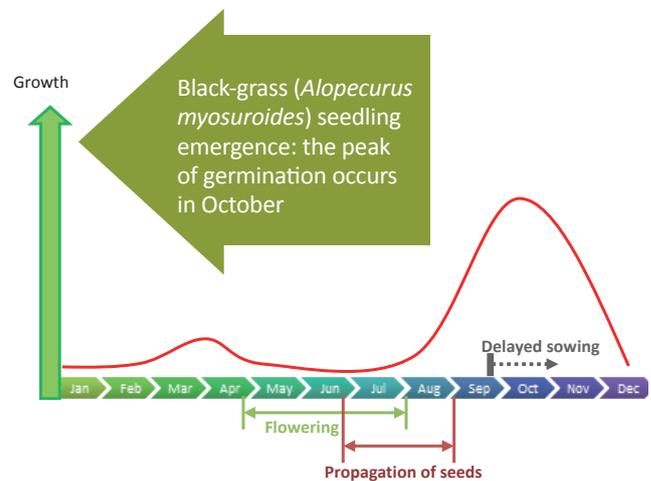
During sowing, the preparation of the soil which allows the good growth of the crop is also favorable to the emergence of weeds. Considering that some weeds preferentially germinate in autumn, especially in October (black-grass for example), by shifting the sowing date of wheat to a period less favorable to the germination of weeds will reduce the amount of weed emergence in the crop. The delay can range from 10 days to 1 month.

DID YOU KNOW?

The sowing date delay implemented at a good timing can reduce significantly the weed emergence.

WHAT EFFICIENCY?

- Reduction of weed seedling emergences: compared to a late September sowing, a shift of 15 days can increase by 70% the efficacy of black-grass management. The effect is even greater by delaying sowing by 20 to 25 days (close to 90% efficiency). This effect is also visible on ryegrass.
- Making a longer intercropping which allows introducing an additional false seed bed, also in favor of weed control.
- Delayed drilling, by limiting the potential for weed emergence in the crop, limits the use of herbicides. Trials have also shown that the economic return is better, due to less weed competition on the crop (better yield) and fewer herbicide load.



WHAT ARE THE LIMITS OF THIS AGRONOMIC LEVER?

- Although delayed drilling is very suitable for autumn weeds and more particularly for grassweeds (black-grass, ryegrass), this agronomic method will be inefficient on autumn late germinating species (Ivy-leaved Speedwell, for example) or undifferentiated germinations (Mayweed, annual meadow grass, etc.).
- It increases the risk of encountering unfavorable conditions for crop development, especially in hydromorphic soils.
- It can impact the potential yield (especially when the lagging on the sowing date is important).

To get the maximum return of this technique, Arvalis, within the IWMPRAISE project, is testing different weeding programs applied to different sowing date delays to identify the most cost-effective solution.

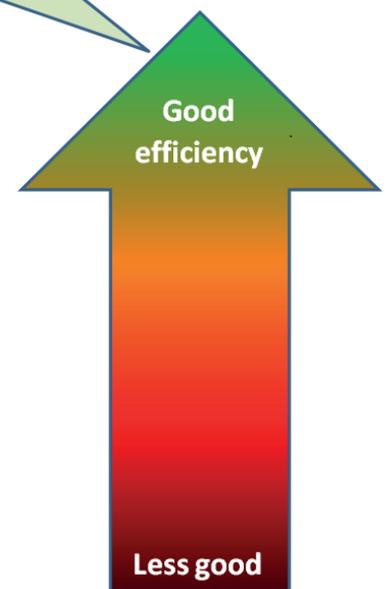
Sowing date delay efficiency

Barren brome

Black-grass
Ryegrass

Field poppy
Chickweed
Cleavers

Field pansy
Chamomile
Field speedwell



CONTACTS



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