



Sledge for late post emergent weed seed-set control.

In early 2021 Sledge was registered for use in Barley and Wheat crops for the reduction of seed-set and viability of weed seeds from various problem broadleaf weeds.

Sledge can now be used from when the wheat and barley are nearly ripe up until just before harvest.

Timing

For best results Sledge should be applied when weeds are in full flower. The greatest reduction in seed-set is achieved by spraying flowering weeds. The timing of application is significantly earlier than other herbicides such as Glyphosate and Paraquat which are traditionally used for this purpose. Sledge can be safely applied at the GS71 watery ripe growth stage of the wheat and barley when seeds have reached half their normal size.

Under certain conditions some regrowth of weeds can occur and follow up applications may be required at least 14 days after the first application.

There is no WHP for wheat and barley when used as per the label.

Rate and Application

Apply at 200 mls per hectare. Good coverage is essential so a minimum of 100L/ha of water is required. The use of an MSO adjuvant oil such as Hasten® or mineral oil containing non ionic surfactant such as Uptake® will improve results. MSO should be added at 1.0% of the spray solution or mineral oil based adjuvants at 0.5%.

Sledge can be applied by air according to the product label.

Effectiveness

Timing is critical very high levels of viable seed-set reduction can be achieved by spraying weeds such as Wild Radish and Sow Thistle at full flower. Later applications once pods start to ripen are less effective.

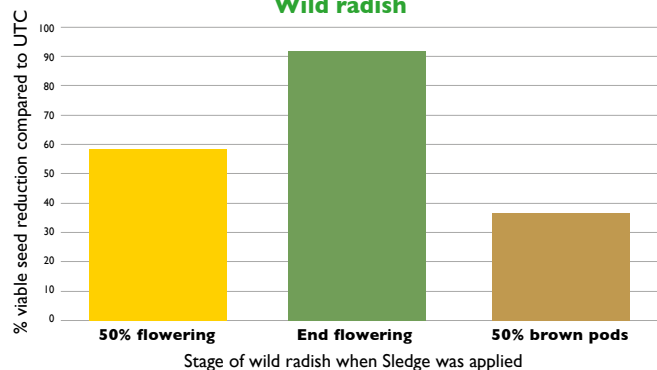
Residues

When Sledge is used as per the label instructions, even after multiple applications, residue levels are below the MRL, which is limit of quantitation.

KEY POINTS:

- Effective reduction in viable weed seed-set of several broad leaf weeds
- Timing critical
- No problem with residues
- Excellent crop safety to wheat and barley, no effect on grain quality or yield
- Can repeat applications if regrowth occurs
- Can be applied by air
- Fully registered with APVMA
- Valuable tool for managing herbicide resistant weeds.

Effect of application timing on viable seed-set reduction Wild radish



Wild Radish treated at full flower showing complete desiccation of flowers and desiccation of early seed pods. Any seed in the pods is most like unviable.

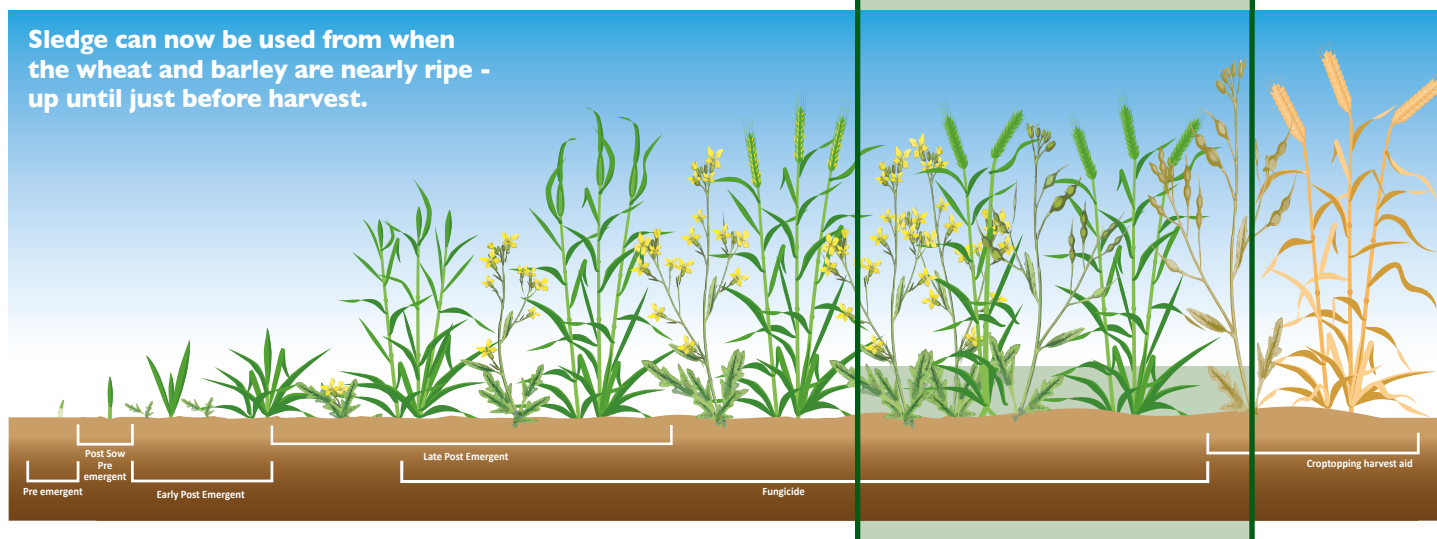


TECH BULLETIN



CROP AND WEED GROWTH STAGES

Sledge can now be used from when the wheat and barley are nearly ripe - up until just before harvest.



Herbicide Resistance

Generally the large numbers of broadleaf weeds at the late post emergence timing is the result of a failure earlier in the season. This may be because crops were unable to be sprayed in a timely manner due to weather, poor spraying conditions, later germinations or post emergent herbicide failure. In the event of post emergent herbicide failure, it is essential to reduce seed-set of weeds in the first year herbicide escapes become evident. There are significant long-term benefits in preventing suspected herbicide resistant weeds setting seed and germinating the following season. Sledge is a Group 14 herbicide (previously Group G).

DIRECTIONS FOR USE

CROP/ SITUATION	WEEDS CONTROLLED	RATE/ HA	CRITICAL COMMENTS
Pre-harvest application in Wheat and Barley	For the reduction of seed-set and viability of weed seeds including Indian hedge mustard (<i>Sisymbrium orientale</i>), Sowthistle/ Milk thistle (<i>Sonchus oleraceus</i>), Prickly lettuce (<i>Lactuca serriola</i>), Turnip weed (<i>Rapistrum rugosum</i>), Wild Radish (<i>Raphanus raphanistrum</i>).	200 mL	Aim to spray weeds at full flower but not before crop growth stage Z71 (BBCH 71) – watery ripe, when first grains have reached half their final size. If regrowth and flowering occurs a second application of 200mL/ha may be applied. This should be at least 14 days after the first application.

GREAT RESULTS WITH SLEDGE



Sledge trial, Northam WA. Untreated area showing prolific growth and flowering compared to treated area.

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.

Always read the entire label prior to use.

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