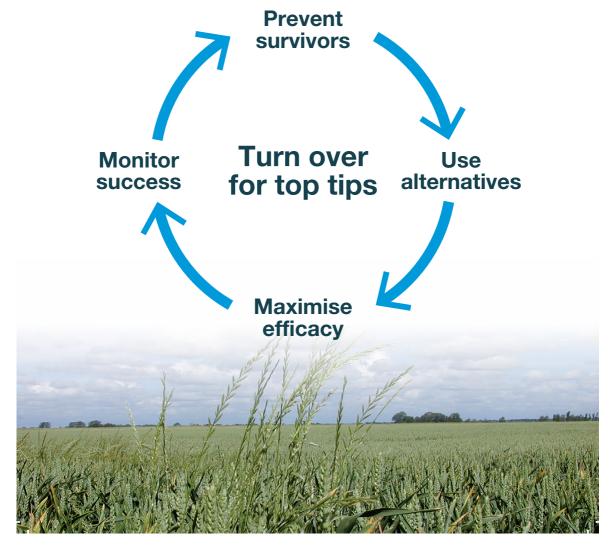


Minimise glyphosate resistance risks in weeds



Top tips to tackle resistance risks

Use alternatives/prevent survivors

To control weeds, use multiple and diverse approaches, including sufficient cultivations and other non-chemical techniques. Avoid using more than two glyphosate applications. Do not make repeat applications to the same (surviving) plants. Use other herbicides in sequence or in mixture (if recommended).

Maximise efficacy

Dose: Typically, annual grasses require a minimum of 540 g a.i./ha for seedlings up to 3 leaves, 720 g a.i./ha when tillering and 1,080 g a.i./ha when flowering. The choice of nozzles and water volume can be influential. Since hard water can reduce glyphosate effectiveness, the addition of water conditioner is recommended, where appropriate. Use a forward speed of no more than 12 km/hour.

Timing: Apply to actively growing plants in warm conditions (15–25°C), with at least 6 hours before any rainfall. Ideally, spray when plants have at least 5 cm of growth but before the start of rapid stem extension. Apply prior to 'shading' from other plants. Do not apply to plants under stress, such as waterlogging or drought.

Monitor success

Investigate any unexpected survivors and quickly remove surviving individuals (e.g. via cultivation). Report survivors to your crop protection adviser and/or the product manufacturer. As there are many reasons for poor control, send samples (whole plants or seeds) for resistance testing to help confirm the cause. Black-grass and Italian rye-grass are key species at risk of developing glyphosate resistance.

Further information

With the first case of glyphosate resistance in a UK weed (Italian rye-grass) confirmed, it is critical to follow the full AHDB/WRAG guidance to minimise the risk of resistance development and spread.

