



Uragan®

Fence Line Weed Control

Product Overview

URAGAN® is a pre-emergent soil residual herbicide that can be used for extended control of both grass and broadleaf weeds along fence lines, including glyphosate resistant weeds.

- Contains 800 g/kg bromacil and is ideal for use where control of hard to kill and resistant weeds are present
- URAGAN® is highly compatible with non-selective knockdown herbicides allowing immediate control of existing weeds
- Once in the soil, URAGAN® acts to control germinating weeds for up to 12 months reducing the need for multiple herbicide applications
- URAGAN® is an ideal tool for managing herbicide resistance.

Mode of Action

GROUP **C** HERBICIDE

Bromacil is a member of the Uracils group of herbicides. Its mode of action is as a photosynthesis disrupter acting to inhibit photosynthesis at the photosystem II pathway.

URAGAN® is mainly absorbed through weed roots and is translocated upward to the foliage via the xylem.

Effects on existing weeds may not become apparent until URAGAN® has reached the root zone and has been absorbed and distributed within the plant.

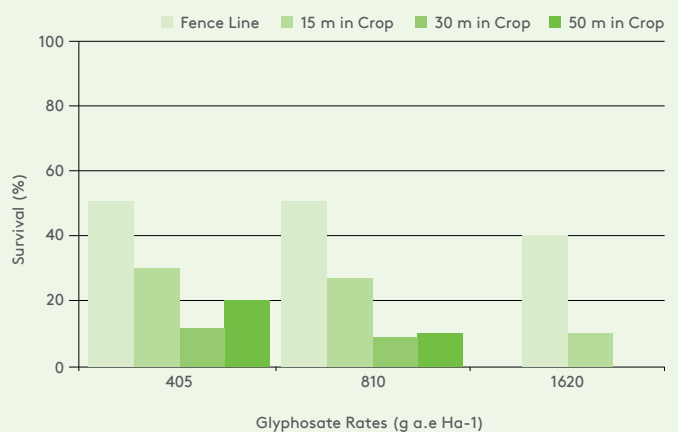
The level of control and duration of effect will depend on soil type, rainfall and the rate applied.

Resistant Weeds Spread From Fence Lines

When exposed to low, mid and high rates of glyphosate, rates of Annual Ryegrass plant survival were highest from plants collected at fence lines in a study by Adelaide University.

- This is due to the development of resistance in these plants which are often not exposed to herbicides from any other group
- Using herbicides from alternate mode of action groups along fence lines is just as important as rotating chemistry in crop.

% Annual Ryegrass Survival - Clare, SA 2012



Patricia Adu-Yeboah, Peter Boutsalis and Christopher Preston School of Agriculture, Food & Wine, University of Adelaide



How to get the best results from URAGAN®

For the maximum long term residual results, target bare soil ensuring good coverage right up to the fenceline. When weeds are already present, URAGAN® should be applied in combination with a non-selective knockdown herbicide e.g. WIPEOUT® (*glyphosate*), EXONERATE® (*glufosinate*) or SPRAYTOP® (*paraquat*) and a suitable surfactant. Apply within 10 weeks of germination of winter weeds - usually in June to August. Long term residual control may not be as effective where heavy organic matter loads prevent URAGAN® from reaching the soil and the root zone. Best results will be achieved where rain occurs within a week of application.

Use Rates

3.5 to 6.5 kg/Ha - To establish a zone along fencelines free of Annual Ryegrass, Barley Grass, Bathurst Burr, Brome Grass, Caltrop, Capeweed, Cobbler's pegs, Doublegee (Spiny Emex, Threecornered Jack), Fat-hen, Khaki Weed, Noogoora Burr, Paterson's Curse, Prairie grass, Annual Ragweed, Saffron Thistle, Summer Grass, Thornapple, Wild Mustard, Wild Oats, Wild Radish, Wild Turnip and Winter Grass

2.0 – 6.5 kg/Ha - For retreatment and maintenance of established weed free areas: All of the above weeds. Retreat as weeds begin to reappear on sites where growth has been controlled.

If weeds are already present add a non-ionic surfactant at 100 mL/100 L (0.1% v/v) of spray solution plus a non-selective knockdown herbicide.

Application Recommendations

Ground Application: Use a fixed fence line boom sprayer or handgun. To prevent nozzle blockage, strainer and nozzle screens should be 50 mesh or coarser. Always agitate in spray tank to keep material in suspension.

DO NOT APPLY URAGAN® BY AIR.

URAGAN® needs to go into the spray tank first (after water conditioners e.g. ammonium sulphate) and added steadily into the tank.

URAGAN® protection of non-target plants

- DO NOT apply or drain or flush equipment on or near desirable trees or other plants or where their roots may extend
- DO NOT spray under weather conditions or from sprayer equipment that may cause spray to drift
- Leave a 50 m buffer zone between spray and nearest trees.

Features and Benefits

Features	Benefits
Member of the group C Uracil herbicide sub-group	Ideal herbicide resistance management option. Will control glyphosate resistant annual rye grass
Long lasting residual weed control	Less need to re-treat fence lines. Saves time and labour
Highly compatible with key knockdown herbicides	Mixes readily with all non-selective herbicides for one pass control of emerged and non-emerged weeds.

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