

**Manhattan<sup>®</sup> is a post-emergent herbicide for use on winter cereals (wheat, rye, triticale and spelt) for the control of grass weeds and a wide range of broad-leaved weeds**

## Key facts

Product Registration Number:	PCS No. 07170
Active Ingredient:	52.1g/kg of halauxifen-methyl, 37.5g/kg of florasulam, 187.5g/kg of pyroxsulam and 266g/kg of cloquintocet acid (safener), HRAC Group 4 & 2 Herbicides
Pack Size:	500g (treats 5ha)
Formulation:	Water Dispersible Granule
Crops:	Winter wheat, winter rye, winter triticale and winter spelt
Maximum Individual Dose:	<b>100g/ha &amp; adjuvant</b>
Maximum Number of Applications:	1 per crop
Application Timing:	Autumn or spring from GS12–32
Water Volumes:	100-400L/ha. Higher volumes recommended when the crop is dense
Spray Quality:	Medium as defined by BCPC
Nozzles:	Standard and low drift nozzles
Buffer zones:	Respect an unsprayed 10m buffer zone to surface water bodies. Buffer zone can be reduced to 3m if 75% drift reducing nozzles are used according to STRIPE

## Best use advice

- Apply Manhattan at 100g/ha with a supported adjuvant:
  - 95% w/w oil, rapeseed fatty acid: Actirob B, Phase II, Intracrop Rigger, Spraymate, Super Rapeeze & Toil OR
  - Non-ionic adjuvant
- Brome control is best achieved from GS11-GS24 (optimum being 1-3 leaves)
- Ryegrass and Wild Oat control is best achieved from GS11-GS29 (optimum being 1-3 leaves)
- Ensure to you apply Manhattan during periods of active growth and don't apply to crops or weeds under stress.
- Manhattan can sometimes induce slight and transient crop yellowing, this has no impact on yield.
- To avoid subsequent injury to crops (other than winter wheat, spelt, rye and triticale), immediately after spraying Manhattan all spraying equipment must be thoroughly cleaned both inside and out using a proprietary tank cleaner such as All Clear Extra spray cleaner at 0.5 % v/v.

## Key benefits

- Excellent broad spectrum grassweed control, including brome, ryegrass and wild oats.
- Rainfast in 1 hour.
- Controls a range of difficult broad-leaved weeds.
- Can be used in joint application with a wide range of ALS-inhibitor broad-leaved weed herbicide products.
- Physically compatible with a wide range of herbicides, insecticides and trace elements making it an excellent tank mix partner.

## Following crops / Crop failure

- No following crop restrictions.
- In the event of crop failure, the following crops: spring cereals and maize can be drilled after a minimum interval of 4 weeks. It is important to consider all herbicides used on the treated field before deciding which new crop to sow.

## Tank mixes

A full range of tank mix partners supported with Manhattan can be found on our website at <https://www.corteva.ie/tools-and-advice/tank-mixes.html> or for more information call or email the Technical hotline.

## Weed spectrum

- Always use Manhattan in combination with an approved adjuvant

Weeds	100g/ha + adjuvant	Weeds	100g/ha + adjuvant	Weeds	100g/ha + adjuvant
<b>Brome Spp.</b>	<b>S upto GS24</b>	Fools parsley	S upto 4tl	<b>Red dead nettle</b>	<b>S up to full flowering (up to 18cm)</b>
Bindweed black	MS upto 4tl	Fumitory	S upto before flowering	Redshank	S upto 4tl
Black nightshade	S upto 4tl	Groundsel	S upto flowering	<b>Ryegrass</b>	<b>S GS29</b>
Bur Chervil	S upto 8tl	Hedge Mustard	S upto 4tl	Shepherds purse	S upto 6tl
Charlock	S upto 6tl	Hemp nettle	S upto 4tl	Shepherds needle	S upto 8tl
<b>Chickweed (Common)</b>	<b>S upto 10cm</b>	Knotgrass	S upto 2tl	<b>Speedwell (Common Field)</b>	<b>S b4 flowering</b>
Cleavers	S upto 15cm	<b>Loose silky bent</b>	<b>S upto GS29</b>	<b>Speedwell (Ivy Leaved)</b>	<b>S b4 flowering</b>
Cranes-bill/ Geranium	S upto 8tl	<b>Mayweed</b>	<b>S upto 12cm</b>	Small nettle	S upto 4tl
Docks (seedling)	S upto 15cm	<b>Oats (wild)</b>	<b>S GS29</b>	Volunteer Beans	S before flower buds visible
Fat hen	S upto 10cm	Pale persicaria	S upto 4tl	Volunteer sugar beet	S upto 4tl
Field Pansy	S upto 4tl	Parsley Piert	S upto 4tl	Wild Radish (Runch)	S upto 6tl
Forget me not	S upto 6tl	<b>Poppy</b>	<b>S upto 8tl (10cm)</b>		

**Key:** S – Susceptible, MS – Moderately susceptible, MR – Moderately resistant, R - Resistant, TL – True leaves, BF – Before flowering, bold – Label weeds.

Non-label weed information based on anecdotal or limited data and is only indicative and should not be considered as a recommendation for use on the part of Corteva Agriscience. The user assumes full responsibility for use on the weeds.