

Manhattan[®] is a post-emergence 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:	52.1 g/kg of halauxifen-methyl, 37.5 g/kg of florasulam, 187.5 g/kg of pyroxulam and 266 g/kg of cloquintocet acid (safener) (HRAC Group 4 & 2 Herbicides)
Pack Size:	500 gms (treats 5 ha)
Formulation:	Water Dispersible Granule (WDG)
Crops:	Winter wheat, winter rye, winter triticale and winter spelt
Maximum Individual Dose:	100 g/ha & adjuvant
Maximum Number of Applications:	1 per crop
Application Timing:	Autumn or spring from GS12–32
Water Volumes:	100-400 l/ha. Higher volumes recommended when the crop is dense.
Spray Quality:	Medium as defined by BCPC
Nozzles:	Standard and low drift nozzles
Buffer Zone:	Respect an unsprayed 10 m buffer zone to surface water bodies. Buffer zone can be reduced to 3 m if 75% drift reducing nozzles are used according to STRIPE.
Rainfastness:	1 hour

Key benefits

- Excellent broad-spectrum grass weed control, including brome, ryegrass and wild oats.
- 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.

Best use advice

- Apply Manhattan at 100 g/ha with a supported adjuvant:
 - 95% w/w oil, rapeseed fatty acid: Phase II, Super Rapeeze or Toil
 - Non-ionic adjuvant
- Brome control is best achieved from GS11-GS24 (optimum being GS11-13).
- Ryegrass and Wild Oat control is best achieved from GS11-GS29 (optimum being GS11-13).
- Ensure Manhattan is applied during periods of active growth and don't apply to crops or weeds under stress.
- Manhattan can sometimes induce slight transient crop yellowing, this will grow away and 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.

Following crops/Crop failure

- No following crop restrictions.
- In the event of crop failure, the following crops can be drilled after a minimum interval of 4 weeks: spring cereals and maize. 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	100 g/ha + adjuvant	Weeds	100 g/ha + adjuvant	Weeds	100 g/ha + adjuvant
Brome spp.	S up to GS24	Fool's parsley	S up to 4TL	Red dead nettle	S up to full flowering (up to 18 cm)
Bindweed, black	MS up to 4TL	Fumitory	S to B4 flowering	Redshank	S up to 4TL
Black nightshade	S up to 4TL	Groundsel	S up to flowering	Ryegrass	S up to GS29
Bur chervil	S up to 8TL	Hedge mustard	S up to 4TL	Shepherd's purse	S up to 6TL
Charlock	S up to 6TL	Hemp nettle	S up to 4TL	Shepherd's needle	S up to 8TL
Chickweed (common)	S up to 10 cm	Knotgrass	S up to 2TL	Speedwell (common field)	S to B4 flowering
Cleavers	S up to 15 cm	Loose silky bent	S up to GS29	Speedwell (ivy-leaved)	S to B4 flowering
Cranesbill/ Geranium	S up to 8TL	Mayweed	S up to 12 cm	Small nettle	S up to 4TL
Docks (seedling)	S up to 15 cm	Oats (wild)	S up to GS29	Volunteer beans	S up to BFBV
Fat hen	S up to 10 cm	Pale persicaria	S up to 4TL	Volunteer sugar beet	S up to 4TL
Field pansy	S up to 4TL	Parsley piert	S up to 4TL	Wild radish (runch)	S up to 6TL
Forget-me-not	S up to 6TL	Poppy	S up to 8TL (10 cm)		

Key:

Label weeds in **bold**. TL – True leaves, B4 – before flowering, BFBV – before flower buds visible

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.

	Susceptible		Moderately susceptible
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