



MAPP Number 21206

A foliar applied translocated herbicide for the control of annual and perennial grass and broadleaved weeds before sowing or planting of all crops.

For use pre-emergence and preharvest in cereals and certain other crops, for destruction of grassland, and use in aquatic areas, stubbles and orchards.

Degraded by micro-organisms/ microbes in the soil.

A soluble concentrate containing 450 g/L glyphosate, present as 550 g/L (42.2% w/w) of the potassium salt of glyphosate.

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.

GROUP

HERBICIDE

ROUNDUP VISTA PLUS

UFI: 1WS1-P03G-1006-F4ED Contains potassium salt of glyphosate and fatty alkyl ether alkyl amine ethoxylate.



Warning

Causes serious eye irritation. Toxic to aquatic life with long lasting effects.

Wash hands thoroughly after handling. Wear protective gloves/eye protection/ face protection.

Keep only in original container.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention. Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

To avoid risks to human health and the environment, comply with the instructions for uses.



PROTECT FROM FROST

GB30461784a rA3

Crop specific information

CROPS OR SITUATIONS	MAXIMUM INDIVIDUAL DOSE (litres of product per hectare)	MAXIMUM TOTAL DOSE (litres of product / hectare / crop)	LATEST TIME OF APPLICATION
Winter wheat, winter barley, winter oats, spring wheat, spring barley, spring oats, durum wheat, combining peas, field beans	3.2	3.2	7 days before harvest
Post planting and pre-emergence of listed cereals, oilseed rape, combining peas, vining peas, field bean, potatoes, mustard, linseed, sugar beet, swede, turnip, bulb onion and leek	1.2	1.2	Pre-emergence (ensure spraying precedes ANY crop emergence)
Oilseed rape and linseed	3.2	3.2	14 days before harvest
Mustard	3.2	3.2	8 days before harvest.
All edible crops (stubble), all non-edible crops (stubble)	4.0 or	4.0	5 days before drilling or planting the following crop
	1.2	3.2	2 days before the drilling or planting of the following crop or 24 hours before cultivating
All edible and non-edible crops (destruction, before sowing/planting).	4.0	-	-
Grassland	4.8	4.8	5 days before harvest, grazing or drilling
Apple and pear orchards	4.0	4.0	After harvest but before green cluster stage
Cherry, plum and damson orchards	4.0	4.0	After harvest (post leaf fall) but before white bud stage
Green cover on land not being used for crop production	4.8	4.8	24 hours before cultivating

OTHER SPECIFIC RESTRICTIONS

When applying through rotary atomisers, the spray droplet spectra produced must be of a minimum Volume Median Diameter (VMD) of 200 microns. Weed wipers may be used in any recommended crop where the wiper or chemical does not touch the growing crop.

For weed wiper applications, the maximum concentrations must not exceed the following:

(a) Weed wiper mini - 1:2.75 dilution with water - 1:1.5 dilution with water (b) Other wipers

DIRECTIONS FOR USE

IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product.

EXTREME CARE SHOULD BE TAKEN TO AVOID SPRAY DRIFT AS THIS CAN SEVERELY DAMAGE NEIGHBOURING CROPS OR PLANTS. DO NOT MIX STORE OR APPLY BOUNDUP VISTA PLUS IN GALVANISED OR UNLINED STEEL CONTAINERS OR SPRAY TANKS. DO NOT leave spray mixtures in tank for long periods and make sure tanks are WELL VENTED.

Restrictions

A period without rain of at least 6 hours, and preferably 24 hours, must follow application of ROUNDUP VISTA PLUS herbicide.

Do not spray on to weeds suffering from drought, water-logging, heat or frost, otherwise poor control may result.

Do not spray in windy conditions as drift onto desired plants or crops could severely damage or destrov them.

For the pre-crop emergence uses, ensure that spraying precedes ANY crop emergence.

Do not tank mix ROUNDUP VISTA PLUS with adjuvants, pesticides or fertilisers except as specified under Directions for Use - Compatibility.

Applications of lime, fertiliser, farmvard manure and pesticides should be delayed until 5 days after application of ROUNDUP VISTA PLUS.

Keep stock out of treated areas for at least 5 days. TREATED POISONOUS PLANT SPECIES MUST BE REMOVED BEFORE REGRAZING OR CONSERVING. Where Ragwort is present users should consult the Code of Practice on How to Prevent the Spread of Ragwort. Ragwort plants sprayed with this herbicide are more palatable and contain higher levels of toxins. Animals should be excluded from treated areas until any Ragwort has completely recovered or died and there is no visible sign of the dead weed. Do not include treated Ragwort in hay or silage crops

Weeds controlled

ROUNDUP VISTA PLUS herbicide controls most emerged grasses and broad-leaved weeds. It is important that all weeds are at the correct growth stage when treated, otherwise some re-growth may occur and this will need re-treatment.

Apply ROUNDUP VISTA PLUS herbicide where there is full emergence of grasses and broad-leaved weeds and they have ACTIVELY GROWING green leaves.

- PERENNIAL GRASSES must have full emergence of healthy, green leaf, (Common Couch, for example, becomes susceptible at the onset of tillering and new rhizome growth, which usually occurs when plants have 4-5 leaves, each with 10-15 cm of new growth).
- PERENNIAL BROAD-LEAVED WEEDS are most susceptible around the flowering stage.
- ANNUAL GRASSES AND BROAD-LEAVED WEEDS should have at least 5 cm of leaf, or 2 expanded true leaves, respectively. In setaside, annual grasses are best treated at full ear emergence, or before stem elongation. Application during stem extension phase of annual grasses e.g. Black-grass and Brome species on set-aside between the end of April and end of May, may
- result in poor control and require re-treatment. OTHER SPECIES – recommendations for specific areas of use are given in the Recommendation
- Tables, pages 2-6 This product will not give an acceptable level of control of Horsetails (Equisetum arvense) - repeat treatment will be necessary.

Following crops

Upon soil adsorption the herbicidal properties of ROUNDUP VISTA PLUS are lost permitting the drilling of crops 48 hrs after application.

Mixing and spraying

Correctly calibrate all sprayers under field or use conditions prior to application.

a) Tractor mounted and powered hydraulic sprayers These should be capable of applying accurately

80-400 L/ha within a pressure range of 1.5-2.5 bars (20-35 psi).

Half fill the spray tank with clean water, start gentle agitation, and then add the correct amount of ROUNDUP VISTA PLUS. Top up the tank with water to the required level. To avoid foaming do not use top tank agitation. Use of a de-foamer may be necessary.

Medium Volume application (150-300 L/ha) Avoid high water volumes (> 300 L/ha) which may lead to run-off from the treated vegetation, resulting in reduced control. Low drift nozzles such as air induction and pre-orifice types producing a medium or coarse spray (BCPC definition) should be used to minimise the risk of drift.

Low Volume Application (minimum 80 L/ha) Low volume application can be achieved by reducing pressure and appropriate nozzle selection. Low drift nozzles which produce a medium spray (BCPC definition) should be used to minimise the risk of drift.

b) Knapsack Sprayers

Recommended delivery range is 80-300 L/ha. Half fill the spray tank with clean water, add the correct amount of ROUNDUP VISTA PLUS and top up with water, close the top and shake gently to ensure good mixing.

When used at a walking speed of 1 metre/second to apply a swath of 1 metre width, most knapsack sprayers fitted with a HYPRO AN 2.0 or similar nozzle deliver approximately 200 L/ha spray volume (or 10 L per 500 m²). To apply 3.2 L/ha of ROUNDUP VISTA PLUS, therefore, use a 1.6% solution, i.e. 160ml ROUNDUP VISTA PLUS made up to 10 litres. Similarly, knapsack sprayers fitted with low volume nozzles such as HYPROAN 1.0 typically deliver approximately 100 L/ha spray volume. To apply 3.2 L/ha ROUNDUP VISTA PLUS in this case use 3.2% solution.

c) Rotary Atomisers

When rotary atomisers are used to apply ROUNDUP VISTA PLUS ensure that the droplet diameter falls within the range 200-300 microns for all uses. The water volume must be 40 litres/ha.

d) Hand-held Wipers

ROUNDUP VISTA PLUS may be applied through the weed wiper mini. Use a concentration of 1 part ROUNDUP VISTA PLUS to 2.75 parts of water and add a scarlet dve if required. Care should be taken to avoid dripping onto wanted vegetation.

e) Spot Gun Applicators - for treatment of individual

Apply 4 ml of spray to target weed, using a narrow cone TG-3 or TG-5 nozzle.

AMOUNT OF ROUNDUP VISTA PLUS (ML) PER 5 LITRES OF SPRAY I /HA 28

DIAMETER

(METRES)

0.3

0.6

Do not tank mix BOUNDUP VISTA PLUS with adjuvants, pesticides or fertilizers except as advised by Bayer Crop Science. For up to date information on compatible products contact Bayer Crop

3.2

L/HA

22.4

88

Do not tank-mix ROUNDUP VISTA PLUS when using rotary atomiser sprayers.

For hydraulic sprayers: maintain continuous agitation when using ROUNDUP VISTA PLUS in

SOLUTION:

L/HA

16

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For knapsack sprayers: mix thoroughly and use immediately when using ROUNDUP VISTA PLUS in tank mixture.

COMPANY ADVISORY INFORMATION

This section is not part of the Product Label under the Plant Protection Products Regulations 1995 and provides additional advice on the product

General Information

ROUNDUP VISTA PLUS is an advanced glyphosate formulation that offers a high standard of operator safety. To maximise the intrinsic safety of ROUNDUP VISTA PLUS to operator, consumer and environment, the label recommendations and the DEFRA/HSC/NAW publication "Code of Practice for Using Plant Protection Products" of January 2006. should be adhered to.

ROUNDUP VISTA PLUS herbicide is a foliar-acting herbicide with broad-spectrum activity. It is taken up by foliage and translocated to underground roots, rhizomes and stolons, providing control of both annual and perennial grasses and broadleaved weeds, ROUNDUP VISTA PLUS is rapidly

adsorbed onto particulate matter in soils and water and is quickly degraded by the micro-organisms present in soil and aquatic bottom sediments. Upon adsorption, the herbicidal properties of ROUNDUP VISTA PLUS are lost, permitting drilling of crops within 48 hours of application. When used as directed, any water subjected to spray drift of ROUNDUP VISTA PLUS may be used immediately for irrigation purposes. Until degraded, the active ingredient in ROUNDUP VISTA PLUS, glyphosate, is practically immobile in soils and is, therefore, unlikely

ROUNDUP VISTA PLUS is recommended for aquatic Using the correct nozzles to maximise coverage weed control.

Symptoms on the weeds Symptoms of treatment are generally first seen 7-

to contaminate groundwater.

unexpected results to Bayer CropScience Ltd days, or longer (if growth is slow), after spraying. **General Cautions** These take the form of leaf reddening followed by yellowing and are usually quicker to appear on Take extreme care to avoid drift, particularly when grasses than on broad-leaved weeds. Reaction of using near or alongside hedgerows. The use of low drift nozzles such as air induction and pre-orifice nettles is slow. nozzles are recommended.

For aquatic weed control, on reeds and grasses leaf symptoms usually appear within 14-21 days of spraying in the early autumn. Complete foliage desiccation usually occurs 30-40 days after spraying. At this stage, the reeds can be cut and removed. During cold conditions leaf symptoms may not appear before natural dieback but no growth will occur in the season following spraying.

Exclusion Times

People, pets and wildlife need not be kept out of treated areas. It is best not to walk in areas where the spray is still wet as transfer to other vegetation may lead to unwanted damage to other foliage. Once the spray is dry this cannot occur.

Weed resistance strategy

There is low risk for the development of weed resistance to ROUNDUP VISTA PLUS. Strains of some annual weeds (e.g. Black-grass, Wild

oats and Italian Ryegrass) have developed resistance It is essential to thoroughly clean-out spray tanks to certain herbicides which may lead to poor pumps and pipelines and nozzle or disc assemblies. control when using those herbicides. A strategy for with a recommended detergent cleaner, between preventing and managing such resistance should be applying this product and other pesticides to avoid adopted. This should include integrating herbicides contamination from pesticide residues. with a programme of cultural control measures. Guidelines have been produced by the Weed

Disposal

Resistance Action Group and copies are available

Growers are encouraged to implement a weed

resistance strategy based on (a) good agricultural

The adoption of complimentary weed control

Application only under appropriate weather

Monitoring performance and reporting any

All sprayers should always be calibrated before use

Once ROUNDUP VISTA PLUS has been diluted in the

spray tank, it should be used as soon as possible

However, if unexpected delays occur the diluted

Ensure the sprayer is in good working order and

replace damaged, worn or malfunctioning parts

instructions of the sprayer manufacturer.

before use. Carry out maintenance according to the

spray can be safely stored. Agitate well before use.

Storage for longer than 3 days may result in reduced

This is essential when nozzles are changed or if a

different dose of product is to be applied.

Unused Spray Mixture

Sprayer Maintenance

practices and (b) good plant protection practices by:

Minimising the risk of spreading weed infestations

The implementation of good spraying practice to

product manufacturer (Bayer).

Following label recommendations

maintain effective weed control

Calibration

from the HGCA, CPA, your distributor, crop adviser or

Follow the guidance on the disposal of surplus spray solution, tank washings, concentrate and containers as given in Section 5 of the DEFRA/HSC/NAW publication "Code of Practice for Using Plant Protection Products", January 2006.

Trademark References Roundup® is a registered trademark of the Bayer group.

All other brand names referred to are trademarks of other manufacturers in which proprietary rights may

Safety Data Sheet

Following the instructions on this Product Label for the specified uses should ensure that the product is used safely and efficaciously for those uses.

A full Material Safety Data Sheet is available on Download from https://cropscience.baver.co.uk/ or

Telephone: 01223 226500.

A soluble concentrate containing 450 g/L glyphosate present as 550 g/L (42.2% w/w) of the potassium sal

(H) - Herbicide

+353 1 809 2166

IMPORTANT INFORMATION: FOR PROFESSIONAL USE ONLY AS AN AGRICULTURAL / HORTICULTURAL AQUATIC HERBICIDE Crops/situations: Wheat, (including Durum wheat), barley, oats, combining peas, vining peas, field beans; Oilseed rape, mustard, linseed:

Bayer CropScience Ltd

CB4 OWB, UK, Telephone: 01223 226500 Website: https://cropscience.bayer.co.uk

230 Cambridge Science Park, Milton Road, Cambridge.

For 24-hour emergency information contact Bayer CropScience Ltd. Tel: 0330 678 3382 (24 hr)

National Poisons Information Centre UK:

0344 892 0111 (medical professionals only)

National Poisons Information Centre Dublin:

Potatoes; Sugar beet, swedes, turnips, bulb onions, leeks; All edible crops (stubble), all non-edible crops (stubble);

All edible and non-edible crops (destruction, before sowing/planting):

Apples, pears; plums, cherries, damsons;

Enclosed waters, land immediately adjacent to aquatic areas, open waters;

Green cover on land not being used for crop production:.

Maximum individual dose: Full details are given in Maximum number of treatments: }

the attached leaflet Other specific restrictions: \ (Crop Specific Information – marked #)

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.

SAFETY PRECAUTIONS

Operator protection

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

WEAR SUITABLE PROTECTIVE GLOVES when handling the concentrate and when handling contaminated surfaces. WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) SUITABLE PROTECTIVE GLOVES AND BURBER BOOTS when using hand-held sprayers, hand-held rotary atomisers, weed wiper equipment or spot gun equipment.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection. WASH HANDS AND EXPOSED SKIN before eating and drinking and after work.

Environmental protection

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place. Do not contaminate water with the product or its container except when used as directed. Do not clean application equipment near surface water. Avoid contamination via drains from farmvards and roads. Recommendations apply to the use of this herbicide for the control of weeds growing in or by water and must be read in

conjunction with the Official Code of Practice entitled "Guidelines for the Use of Herbicides on Weeds in or near Watercourses and Lakes' obtainable from Department of Environment and Rural Affairs (DEFRA publications tel: 08459 556000), Scottish Executive. Environment and Rural Affairs Department, Department of Agriculture and Rural Development for Northern Ireland and the National Assembly for Wales Agriculture Department The Water Act, 1989, The Water Resources Act 1991, the Control of Pollution Act 1974. The Northern Ireland Water Resources Act 1992 and the Control of Pollution and Local Government (Northern Ireland) Order 1978, may apply to the act of applying ROUNDUP VISTA PLUS for the control of weeds growing in or by reservoirs and water courses, eg rivers, streams, ditches, drains and ponds/lakes discharging into such water courses.

Storage and disposal

KEEP AWAY FROM FOOD. DRINK AND ANIMAL FEEDINGSTUFFS. KEEP OUT OF REACH OF CHILDREN.

RINSE CONTAINER THOROUGHLY by using an integrated pressurerinsing device or manually rinse three times. Add washings to sprayer at time of filling and dispose of safely. Triple rinsed containers may be disposed of as non-hazardous waste.

MAPP: 21206

RECOMMENDATION TABLES

AREA OF USE	TARGET WEEDS/USAGE	CROP OR SITUATIONS	WEED INFESTATION	APPLICATION RATE L/HA	WATER VOLUME	APPLICATION TIMING AND GUIDANCE	
PRE-HARVEST ARABLE CROPS		WINTER and SPRING WHEAT, DURUM WHEAT, WINTER and SPRING BARLEY and WINTER and SPRING OATS	1-25 shoots/m² Up to 75 shoots/m² Over 75 shoots/m²	1.6 2.4 3.2	80-250 L/ha*	Grain/seed moisture must not exceed 30% at spraying. Harvest intervals: CEREALS, PEAS, BEANS 7+ days OILSEED RAPE 14-21 days	
		OILSEED RAPE MUSTARDS	Up to 75 shoots/m² Over 75 shoots/m²	2.4 3.2	100-250 L/ha#	LINSEED 14-28 days MUSTARDS 8-10 days	
		COMBINING PEAS FIELD BEANS	Up to 75 shoots/m² Over 75 shoots/m²	2.4 3.2	80-250 L/ha*	Use high clearance, narrow wheeled tractors, wide booms and crop dividers. DO NOT TREAT CROPS GROWN FOR SEED.	
		LINSEED	Up to 75 shoots/m² Over 75 shoots/m²	2.4 3.2	80-250 L/ha	Where desiccating crops, check susceptibility of any weeds present. Do not attempt to desiccate OILSEED RAPE or MUSTARD crops with significant secondary growth, uneven maturity, disease or stress.	
	Perennial broad-leaved weeds and other perennial grasses	WINTER and SPRING WHEAT, DURUM WHEAT, WINTER and SPRING BARLEY and WINTER and SPRING OATS	All levels/species	3.2	80-250 L/ha*	Desiccate LINSEED when seeds are light brown and capsules brown; stems/leaves may be yellow/green. Effects on brewing and baking have not been tested. Consult grain merchant or processor before use.	
		OILSEED RAPE MUSTARDS	All levels/species	3.2	200-250 L/ha	# Use higher volumes for dense canopies. At harvest management rates, ANNUAL NETTLE, VOLUNTEER POTATO, ROSEBAY WILLOW HERB and POLYGONUM WEEDS will not be	
		COMBINING PEAS FIELD BEANS	All levels/species	3.2	80-250 L/ha*	susceptible. WHEAT crops, WHEAT VOLUNTEERS and BROAD-LEAVED WEEDS may require up to 14 days before harvest. Treated straw must not be used as a horticultural mulch.	
		LINSEED	All levels/species	3.2	80-250 L/ha	* Rotary atomisers may be used at a water volume of 40 L/ha. Ensure droplet diameter falls within the range 200-300 microns	
	Harvest management	WINTER and SPRING WHEAT, DURUM WHEAT, WINTER and SPRING BARLEY and WINTER and SPRING OATS	Annual grasses, crop stems and leaves Annual broad-leaved weeds	0.8 1.2	80-250 L/ha*	uropiet diameter rails within the range 200-500 inicions	
	Crop desiccation and annual weeds, prior to direct combining	OILSEED RAPE MUSTARDS	All levels/species	2.4	100-250 L/ha#		
		LINSEED	All levels/species	2.4	80-250 L/ha		
STUBBLES, PRE-SOWING and PRE-PLANTING	Common Couch	BEFORE ALL CROPS EXCEPT ORCHARDS	Up to 75 shoots/m² Over 75 shoots/m²	2.4 3.2	80-250 L/ha*	Do not cultivate immediately before spraying. For PERENNIAL weed control, allow:	
Other per potatoes	Other perennial grasses; volunteer potatoes (autumn only)		All levels/species	3.2		- 21+ days growth before spraying in spring - VOLUNTEER POTATOES to make ample top growth - 5 days before cultivating or drilling	
	Perennial broad-leaved weeds		All levels/species	4.0		For ANNUAL weed control, allow:	
	Volunteer cereals and annual weeds		All levels/species	1.2		- 24 hours before cultivating - 48 hours before direct drilling	
	Perennial grasses and broad-leaved weeds	BEFORE ORCHARD PLANTING	Arable weeds Pasture weeds	3.2 4.0	80-250 L/ha*	Allow 7 days before planting trees * Rotary atomisers may be used at a water volume of 40 L/ha. Ensure droplet diameter falls within the range 200-300 microns.	

AREA OF USE	TARGET WEEDS/USAGE	CROP/SITUATION	WEED INFESTATION	APPLICATION RATE L/HA	WATER VOLUME	APPLICATION TIMING AND GUIDANCE
POST SOWING/ PLANTING, PRE- EMERGENCE OF THE CROP	Volunteer cereals and annual weeds	LISTED CEREALS OILSEED RAPE, POTATOES, MUSTARD, LINSEED, PEAS, FIELD BEANS, SUGAR BEET, SWEDE, TURNIP, ONION & LEEK	All levels/species	1.2	80-250 L/ha*	CAUTION - Ensure that spraying precedes ANY crop emergence. * Rotary atomisers may be used at a water volume of 40 L/ha. Ensure droplet diameter falls within the range 200-300 microns.
ALL EDIBLE AND	Vegetation management	-	Annual weeds	1.2	80-250 L/ha*	Do not use under polythene or glass.
NON-EDIBLE CROPS (DESTRUCTION.			Perennial grasses	3.2	or hand-held equipment	Do not use in or alongside hedgerows
BEFORE SOWING/ PLANTING			Perennial broad-leaved weeds	4.0	(p. 10)	*Rotary atomisers may be used at a water volume of 40 L/ha. Ensure droplet diameter falls within the range 200-300 microns
GREEN COVER ON	Common Couch	BEFORE or DURING REMOVAL	Up to 75 shoots/m²	2.4	80-250 L/ha*	Before using on land taken out of production as part of a grant aided
LAND NOT BEING USED FOR CROP		FROM PRODUCTION	Over 75 shoots/m ²	3.2	or	scheme, ensure compliance with the management rules of that scheme.
PRODUCTION EG "SET	Perennial broad-leaved weeds		All levels/species	3.2	hand-held equipment	Do not 'top' or cultivate immediately before application.
ASIDE"	and other perennial grasses	_			Or	For PERENNIAL weed control, allow:-
	Annual weeds:		All levels/species	1.2	tractor mounted weed wiper	- 21+ days growth before spraying in spring - 5 days before cultivating or drilling.
	- early autumn/spring - late spring/ summer		All levels/species	2.4		For ANNUAL weed control, allow:
	,					- 24 hours before cultivating. Do not direct drill after set aside.
						* Rotary atomisers may be used at a water volume of 40 L/ha. Ensure droplet diameter falls within the range 200-300 microns. Avoid applications during stem elongation as reduced control and re-spray is likely.
	Natural regeneration and	AFTER SHORT ROTATION	Annual weeds only	2.4	150-250 L/ha	Best control of annual grasses is achieved between full ear emergence
	cover crop destruction	or	Perennial grasses	3.2	or	and senescence.
		LONG TERM REMOVAL FROM PRODUCTION	Perennial broad-leaved weeds	4.0	hand held equipment	+Only for weeds listed as per grassland destruction application rate table below.
		THOSOCHOR	Perennial broad-leaved weeds as listed below	4.8+	or	
			as listed below		tractor mounted weed wiper	
GRASSLAND - DESTRUCTION	Short rotation Ryegrass, longer leys and permanent	GRASS	Short rotation Ryegrass with annual weeds	2.4	150-250 L/ha	Treat EITHER before grazing/mowing in June-Oct, when growth is 30-60 cm, not dense and lacking mature seeds, OR re-growth after
	pasture		Leys 2-4 years old with perennial grass weeds	3.2		grazing/mowing. Select the application rate which controls/destroys the least susceptible weed and grass species present in the sward.
			Long leys 4-7 years old with perennial broad-leaved	4.0		Grass may be conserved or grazed by cattle, dairy cows or sheep 5+ days after spraying. REMOVE POISONOUS PLANTS BEFORE
			weeds Permanent pasture	4.8		GRAZING/MOWING.
			See Weed Table below.			If Ragwort is present, the guidance in the 'DIRECTIONS FOR USE' must be followed.
						ONLY direct drill grass and clover EITHER into 1-2 year leys without mat, 5+ days after spraying, OR long leys with some mat, in the spring following authors explication:

APPLICATION RATE FOR GR	RASSLAND DESTRUCTION						
2.4	4 L/HA		3.2 L/HA	4.0	L/HA	4.8	L/HA
Annual Meadow-grass Common Chickweed Common Mouse-ear Dock Seedlings Italian Rye-grass Mayweed species	Meadow Fescue Meadow Foxtail Rough Meadow-grass Speedwell species Timothy	Black-bent Broad-leaved Dock Cock's-foot Common Bent Common Couch Creeping Bent	Creeping Soft-grass Curled Dock Perennial Rye-grass Plantains Soft Brome Yorkshire Fog	Bracken** Common Sorrel Common Nettle Creeping Buttercup* Creeping Thistle Daisy Dwarf Thistle Perennial Sow-thistle	Red Clover Sedges Sheep's Sorrel Soft Rush Spear Thistle Tufted Hairgrass Yarrow	Common Ragwort Hard Rush Heath Rush Jointed Rush <i>Molinia</i> (Purple Moor-grass)	Nardus (Mat grass) Red Fescue White Clover* Yellow Rattle Sheep's Fescue

* White clover is best cut in June and sprayed one month later ** At full frond expansion

AREA OF USE	TARGET WEEDS/ USAGE	CROP/SITUATION	WEED INFESTATION	APPLICATION RATE L/HA	WATER VOLUME	APPLICATION TIMING AND GUIDANCE
ORCHARDS	Perennial grasses, broad-leaved weeds	APPLE, PEAR, PLUM, CHERRY, DAMSON	All levels of most species	4.0	Hydraulic sprayers including hand held 200-400 L/ha	Spray AFTER autumn leaf-fall and BEFORE: Apples, pears - green cluster stage Stone fruit - white bud stage
	Root suckers		•	4.0	Rotary atomisers at 40 L/ha	Treat root suckers in late spring only. Trees must have been established 2+ years. Avoid contact with tree 30+ cm above ground.
IN-CROP (TRACTOR-MOUNTED WEED WIPER APPLICATION)	Bolters, weed beet, other weeds	ARABLE CROPS AND GRASSLAND SET ASIDE	All levels		R	Weeds must be 10+ cm taller, and wiper 5+ cm higher, than desired vegetation. Wipe dense populations twice, in opposite directions. BOLTING BEET requires three applications, 2 weeks apart, from early July to early August. Contact Bayer or your distributor for specific recommended weed wiper applicators. POISONOUS WEEDS and grazing/mowing interval - See GRASSLAND section. If Ragwort is present, the guidance in the 'DIRECTIONS FOR USE' must be followed.

Application Rates

SITUATION	EQUIPMENT*	AREA TREATED	ROUNDUP VISTA PLUS	WATER VOLUME
Emergent weeds e.g. reeds and grasses	Boom Sprayer	1 hectare	4.0 litres/ha	200–400 litres (optimum 250 litres)
	Knapsack sprayer**	100 m²	40 ml / 100 m ²	2.0 litres
Floating weeds e.g.	Boom Sprayer	1 hectare	4.8 litres/ha	100-200 litres
water-lilies	Knapsack sprayer**	100 m²	48 ml / 100 m ²	2.0 litres

*Rotary atomisers may also be used at water volumes of 40 L/ha. The droplet diameter must fall within therange 200-300 $\mu m.$

** Knapsack sprayer calibrated to 200 litres/ha.

Use boat-mounted sprayers at slowest practical speed. Always apply against direction of any current.