

Container Label

GROUP	9	HERBICIDE
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STONEWALL® 540

[Non-Selective] Herbicide
Solution

COMMERCIAL + RESTRICTED USE - AGRICULTURAL and INDUSTRIAL



POISON

WARNING - EYE AND SKIN IRRITANT

REGISTRATION NO. 33379 PEST CONTROL PRODUCTS ACT

ACTIVE INGREDIENT: Glyphosate, 540 grams per litre, present as potassium salt.

Water Soluble Herbicide for non-selective weed control

READ THE LABEL AND ATTACHED BROCHURE BEFORE USING.

NET CONTENTS: 4 -1050 Litres, Bulk

WinField United Canda, ULC
101-302 Wellman Lane
Saskatoon, Saskatchewan
Canada S7T 0J1
(888) 975-4769

For 24-hour chemical spill, leak, fire, exposure, or accident response information, call
CHEMTREC toll free at 1-800-424-9300.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

HARMFUL IF SWALLOWED.

HARMFUL IF INHALED.

CAUSES EYE AND SKIN IRRITATION.

Avoid contact with eyes, skin or clothing.

Avoid inhaling spray mist.

Wear a long-sleeved shirt and long pants during mixing, loading, application, clean-up and repair. In addition, wear goggles or a face shield and chemical-resistant gloves during mixing and loading, clean-up and repair.

Glyphosate is not to be applied using hand-wicking or hand-daubing methods.

The restricted entry interval is 12 hours after application for all agricultural uses.

FIRST AID

IF SWALLOWED: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION

Treat symptomatically.

ENVIRONMENTAL PRECAUTIONS

- TOXIC to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.
- To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil or clay.
- Avoid application when heavy rain is forecast.
- Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body. Additional guidance can be found on the Runoff Mitigation portion of the Canada.ca website.

PHYSICAL OR CHEMICAL HAZARDS

Spray solutions of this product should be mixed, stored and applied only in stainless steel, aluminum, fiberglass, plastic and plastic-lined steel containers.

DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS.

This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

STORAGE

Store this product away from food or feed. Avoid contamination of seed, feed, and foodstuffs. Soak up small amounts of spill with absorbent clays.

DISPOSAL

RECYCLABLE CONTAINERS:

Disposal of container: DO NOT reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

- 1) Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
- 2) Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial or territorial requirements.

RETURNABLE CONTAINERS:

Disposal of container: DO NOT reuse container for any other purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

REFILLABLE CONTAINERS:

Disposal of container: For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. DO NOT reuse this container for any other purpose.

Disposal of unused, unwanted product: For information on the disposal of unused, unwanted product, contact the registrant or the provincial or territorial regulatory agency. Contact the registrant and the provincial or territorial regulatory agency in case of a spill, and for the cleanup of spills.

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

PMRA Approved Label – AO
2025-3894, 2025-10-23

Primary panel, booklet

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STONEWALL 540

1.0 PRODUCT DESCRIPTION

Water soluble herbicide for non-selective weed control in CROPLAND SYSTEMS AND IN NON-CROPLAND AREAS.

CROPLAND USES INCLUDE:

In cropping systems before planting of all crops; in minimum tillage systems; postemergent in **Roundup Ready canola and second generation glyphosate tolerant canola, soybean, corn, sugar beets and alfalfa**; preharvest applications in wheat, barley, oats, canola (rapeseed), flax (including low linolenic acid varieties), peas, lentils, dry beans, soybeans, chickpeas, dried lupins, dried fava beans and forages; in pasture renovation; in forage, legume and grass establishments; in tree crops including apple, pear, cherry, plum, peach, apricot, filbert, hazelnut, walnut, chestnut, Japanese heartnut; in grapes, cranberries, blueberries and strawberry; in asparagus; in North American ginseng; in tree plantings; and grasses for seed production.

NON-CROPLAND USES INCLUDE:

Industrial; recreational, rights-of-way, and public areas; turf grass renovation.

Not for relabelling or repackaging.

2.0 EMERGENCY NUMBERS

For 24-hour chemical spill, leak, fire, exposure, or accident response information, call CHEMTREC toll free at 1-800-424-9300.

3.0 PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

HARMFUL IF SWALLOWED. HARMFUL IF INHALED.

CAUSES EYE AND SKIN IRRITATION. Avoid contact with eyes, skin or clothing. Avoid inhaling spray mist.

Wear a long-sleeved shirt and long pants during mixing, loading, application, clean-up and repair. In addition, wear goggles or a face shield and chemical-resistant gloves during mixing and loading, clean-up and repair.

Glyphosate is not to be applied using hand-wicking or hand-daubing methods.

The restricted entry interval is 12 hours after application for all agricultural uses.

Apply only when the potential for drift to areas of human habitation and areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature in versions, application equipment and sprayer settings.

3.1 FIRST AID

IF SWALLOWED: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

3.2 TOXICOLOGICAL INFORMATION

Treat symptomatically.

3.3 ENVIRONMENTAL PRECAUTIONS

- TOXIC to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.
- To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil or clay.
- Avoid application when heavy rain is forecast.
- Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body. Additional guidance can be found on the Runoff Mitigation portion of the Canada.ca website.

3.4 PHYSICAL OR CHEMICAL HAZARDS

Spray solutions of this product should be mixed, stored and applied only in stainless steel, aluminum, fiberglass, plastic and plastic-lined steel containers.

DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS.

This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

3.5 STORAGE

Store this product away from food or feed. Avoid contamination of seed, feed, and foodstuffs. Soak up small amounts of spill with absorbent clays.

3.6 DISPOSAL

RECYCLABLE CONTAINERS:

Disposal of container: DO NOT reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

- 1) Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
- 2) Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial or territorial requirements.

RETURNABLE CONTAINERS:

Disposal of container: DO NOT reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

REFILLABLE CONTAINERS:

Disposal of container: For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. DO NOT reuse this container for any other purpose.

Disposal of unused, unwanted product: For information on the disposal of unused, unwanted product, contact the registrant or the provincial or territorial regulatory agency. Contact the registrant and the provincial or territorial regulatory agency in case of a spill, and for the cleanup of spills.

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

DIRECTIONS FOR USE

4.0 GENERAL INFORMATION

Do not apply this product using aerial spray equipment except under conditions as specified within this booklet.

Glyphosate is not to be applied using hand-wicking or hand-daubing methods.

Observe spray buffer zones specified in section 5.3.

STONEWALL 540, a water soluble liquid, mixes readily with water for application as a foliage spray for the control or destruction of most herbaceous plants. It may be applied through most

standard industrial or field type sprayers after dilution and thorough mixing with water in accordance with the booklet instructions.

This herbicide moves through the plant from the point of foliage contact to and into the root system. Visible effects on most annual weeds occur within 2 to 4 days but on most perennial weeds may not occur until 7 to 10 days. Extremely cool or cloudy weather at treatment time may slow down activity of this product and delay visual effects of control. Visible effects are a gradual wilting and yellowing of the plant which advances to complete browning of above ground growth and deterioration of underground plant parts.

Delay application until vegetation has emerged to the stages described for control of such vegetation under the "Annual and Perennial Weed Control" (section 7.0 and 8.0) to provide adequate leaf surface to receive the spray. Unemerged plants arising from underground rhizomes or root stocks of perennials will not be affected by the spray and will continue to grow. For this reason best control of most perennial weeds is obtained when treatment is made at late growth stages approaching maturity.

Always use the higher rate of this product per hectare within the recommended range when weed growth is heavy or dense, or weeds are growing in an undisturbed (non-cultivated) area.

Do not treat weeds under poor growing conditions such as drought stress, disease or insect damage, as reduced weed control may result. Reduced results may also occur when treating weeds heavily covered with dust.

This product does not provide residual weed control. For subsequent residual weed control follow a label approved herbicide program.

Rainfall occurring within 60 minutes of treatment may result in reduced weed control. Heavy rainfall immediately after application may wash the chemical off the foliage and a repeat treatment may be required. Do not apply if rainfall is forecast for the time of application.

For best results, spray coverage should be uniform and complete. Do not spray weed foliage to the point of run-off.

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, STONEWALL 540 is a Group 9 herbicide. Any weed population may contain or develop plants naturally resistant to STONEWALL 540 and other Group 9 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance:

- Where possible, rotate the use of STONEWALL 540 or other Group 9 herbicides within a growing season (sequence) or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner.
- Herbicide use should be based on an integrated weed management program that includes scouting, historical information related to herbicide use and crop rotation, and

considers tillage (or other mechanical control methods), cultural (for example, higher crop seeding rates; precision fertilizer application method and timing to favour the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.

- Monitor weed populations after herbicide application for signs of resistance development (for example, only one weed species on the herbicide label not controlled). If resistance is suspected, prevent weed seed production in the affected area if possible by an alternative herbicide from a different group. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact WinField United Canada, ULC at 1-888-975-4769.

5.0 MIXING AND APPLICATION

5.1 PRECAUTIONS

ATTENTION: AVOID CONTACT WITH FOLIAGE, GREEN STEMS, OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES SINCE SEVERE INJURY OR DESTRUCTION MAY RESULT.

APPLY THESE SPRAY SOLUTIONS IN PROPERLY MAINTAINED AND CALIBRATED EQUIPMENT CAPABLE OF DELIVERING DESIRED VOLUMES.

DO NOT USE IN GREENHOUSES. REDUCED RESULTS MAY OCCUR IF WATER CONTAINING SOIL IS USED, SUCH AS WATER FROM PONDS AND UNLINED DITCHES.

- As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.
- DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

Clean sprayers and parts immediately after using this product by thoroughly flushing with water.

DO NOT use human flaggers.

Apply only when the potential for drift to areas of human habitation and areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

NOTE: Use of this product in any manner not consistent with this booklet may result in injury to persons, animals or crops, or other unintended consequences. Keep container closed to prevent spills and contamination.

5.2 MIXING AND APPLICATION EQUIPMENT

MIXING WITH WATER

For ground or industrial type sprayers, fill the spray tank with one-half the required amount of water. Add the proper amount of herbicide, see "Weed Control" (sections 7.1 and 8.1) and mix well before adding the remaining portion of water. Placing the filling hose below the surface of the liquid solution will prevent excessive foaming. Removing hose from tank immediately will avoid back siphoning into water source. Use of mechanical agitators may cause excessive foaming. Bypass lines should terminate at the bottom of the tank.

For use in knapsack sprayers, it is suggested that the proper amount of this herbicide be mixed with water in a larger container. Fill sprayer with the mixed solution.

TANK MIXING

This product may be tank mixed with a fertilizer, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact WinField United Canada, ULC at 1-888-975-4769 for information before applying any tank mix that is not specifically recommended on this label.

The following steps should be followed when adding tank mix partners, using a herbicide loading system or adding product directly into the tank:

1. Fill spray tank 3/4 full of water.
2. Start agitation and run for entire mixing and spraying operation.
3. Add required amount of the tank mix partner.
4. Flush herbicide loading tank and herbicide containers with water.
5. If using a herbicide loading system - ensure that the loading tank and lines to the pump are empty and flushed out with water before adding tank mix partner.
6. Add required amount of STONEWALL 540.
7. Flush herbicide loading tank and herbicide containers with water.
8. If using a herbicide loading system - ensure that the loading tank and lines to the pump are flushed with water and empty before starting spray operation.

Always start and end the mixing and spraying operation with a clean system.

APPLICATION EQUIPMENT

BOOM EQUIPMENT

For control of perennial weeds and woody brush and trees listed on this booklet using conventional boom equipment - apply this product in 50 to 300 litres of clean water per hectare as a broadcast spray using no more than 275 kPa pressure. See "Weed Control" (sections 7.1 and 8.1) for rates to control specific weeds.

For control of annual weeds listed on this booklet using conventional boom equipment - Apply this product in 50 to 100 litres of clean water per hectare as a broadcast spray, except as otherwise stated on this label using no more than 275 kPa pressure. See "Weed Control" (sections 7.1 and 8.1) for rates to control specific weeds.

HAND HELD AND HIGH VOLUME EQUIPMENT (use coarse sprays only)

For control of weeds and woody brush and trees listed in the "Weed Control" section (6.0) of this label using knapsack sprayers or high volume spraying equipment utilizing handguns or other suitable nozzle arrangements - Unless otherwise specified, make a 0.67 percent solution of this product in water (0.67 litres of this product in 100 litres of water) and apply to foliage of vegetation to be controlled. For best results, use a 1.34 percent solution (1.34 litres of this product in 100 litres of water) on harder to control perennials such as field bindweed, hemp dogbane, milkweed and Canada thistle.

Applications should be made on a spray-to-wet basis. Spray coverage should be uniform and complete. Do not spray to point of run-off. Handgun applications should be properly directed to avoid spraying desirable plants.

SELECTIVE EQUIPMENT

Selective equipment such as WIPER and ROLLER applicators can be used for weed control in soy and dry beans, orchards, vineyards, cranberries, strawberries and non-crop areas. For information regarding use of this product with selective equipment, refer to "Selective Equipment" (section 9.12).

Glyphosate is not to be applied using hand-wicking or hand-daubing methods.

AERIAL EQUIPMENT

Aerial application can only be used for weed control in preharvest situations. Refer to sections 5.3 and 9.9.2 for application information.

Directions for use

Apply only by fixed-wing or rotary aircraft equipment, which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label. Ensure that the maximum boom width does not exceed 65% of the wing span. Nozzle type, size and orientation must be configured to deliver a droplet size VMD in the coarse (400-600 microns) or very coarse (600-1000) range.

Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rates recommended for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.

Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices, or equivalent electronic positioning systems (GPS). The use of spotter planes is recommended.

Thoroughly wash aircraft, especially landing gear, after each day of spraying to remove residues of this product accumulated during spraying or from spills.

PROLONGED EXPOSURE OF THIS PRODUCT TO UNCOATED STEEL SURFACES MAY RESULT IN CORROSION AND POSSIBLE FAILURE OF THE PART. LANDING GEAR ARE MOST SUSCEPTIBLE.

The maintenance of an organic coating (paint) which meets aerospace specification MIL-C-38412 may prevent corrosion.

Use Precautions

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the *National Aerial Pesticide Application Manual*, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides.

Do not angle nozzles forward into the airstream and do not increase spray volume by increasing nozzle pressure.

Operator Precautions

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.

It is desirable that the pilot have communication capabilities at each treatment site at the time of application.

The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed generic label recommendations on the existing ground boom label.

All personnel on the job site must wash hands and face thoroughly before eating and drinking.

Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

Product Specific Precautions

Read and understand the entire label before opening this product. If you have questions, call the registrant at 1-888-975-4769 or obtain technical advice from the distributor or your provincial or territorial agricultural representative.

Application of this specific product must meet and/or conform to the following:

Volume: Apply the specified rate in a minimum spray volume of 30-100 litres per hectare.

5.3 SPRAY BUFFER ZONES

Field sprayer application: DO NOT apply when wind speed is less than 1 km/h. Avoid application of this product when winds are gusty. DO NOT apply with sprays finer than the American Society of Agricultural and Biological Engineers (ASABE) S572 (572.1 to 572.3) coarse classification. Boom height must be 60 cm or less above the crop or ground.

Airblast or mist blower application: DO NOT apply when wind speed is less than 1 km/h. Avoid application of this product when winds are gusty. DO NOT direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. DO NOT apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.

Conventionally piloted aircraft application: DO NOT apply when wind speed is less than 1 km/h. Avoid application of this product when winds are gusty. DO NOT apply when wind speed is greater than 16 km/h at flying height at the site of application. DO NOT apply with sprays finer than the American Society of Agricultural and Biological Engineers (ASABE) S572 (572.1 to 572.3) coarse classification. Reduce drift caused by turbulent wingtip vortices. Nozzle distribution along the spray boom length MUST NOT exceed 65% of the wing-or rotorspan.

A spray buffer zone is NOT required for:

- uses with hand-held application equipment permitted on this label,
- low-clearance hooded or shielded sprayers that prevent spray contact with crop, fruit or foliage,
- soil drench or soil incorporation.

For application to rights-of-way, spray buffer zones for protection of sensitive terrestrial habitats are not required; however, the best available application strategies which minimize off-site drift, including meteorological conditions (e.g., wind direction, low wind speed) and spray equipment (e.g., coarse droplet sizes, minimizing height above canopy), should be used. Applicators must, however, observe the specified spray buffer zones for protection of sensitive aquatic habitats.

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Agricultural and non-cropland systems	Maximum number of applications	Spray Buffer Zones (metres) Required for the Protection of:	
		Aquatic habitat	Terrestrial habitat
<u>Agricultural crop system and ground boom application method</u>			
Pre-seeding applications for rye, cranberry, filberts, hazelnut and all other crops. Established pasture and summer fallow. Ginseng new garden	1	1	1
Ginseng – existing established garden, Canola – Roundup Ready hybrid for seed production	2	1	1
Filberts or hazelnut, sugar beets (glyphosate tolerant varieties)	4	1	1
Corn (glyphosate non-tolerant varieties including grain, silage and ornamental types), sugar beets (glyphosate non-tolerant varieties), strawberry,	2	1	2

Agricultural and non-cropland systems		Maximum number of applications	Spray Buffer Zones (metres) Required for the Protection of:	
			Aquatic habitat	Terrestrial habitat
blueberry highbush and lowbush, walnut, chestnut, Japanese heartnut, Turf grass (prior to establishment or renovation)				
Wheat, barley, oats, soybean (glyphosate non-tolerant varieties), canola (glyphosate tolerant varieties), peas, dry beans, flax (including low linolenic acid varieties), lentils, chickpea, lupin (dried), fava bean (dried), asparagus, corn (glyphosate tolerant varieties), forage grasses and legume including seed production		3	1	2
Canola (glyphosate tolerant varieties), soybean (glyphosate tolerant varieties)		4	1	2
Apple, apricot, cherry (sweet/sour), peaches, pears, plums, grapes		3	1	3
Agricultural crop system and mist blower				
Pasture		1	20	30
Agricultural and non-crop systems				
Turfgrass (prior to establishment or renovation)		2	25	35
Non-cropland system and ground boom application method				
Non-crop land and industrial uses: Industrial and rights of way areas, recreational and public areas		3	1	3*
Non-cropland system and mist blower				
Non-crop land and industrial uses: Industrial and rights of way areas, recreational and public areas		3	1	30*
Agricultural crop system and aerial application method	Wing Type			
Rye, corn (glyphosate tolerant varieties), chickpea, lupin (dried), fava bean (dried), all other crops for pre-seeding treatments only	Fixed and rotary wing	1	15	20
Canola (glyphosate tolerant varieties)	Fixed and rotary wing	3	20	40

Agricultural and non-cropland systems		Maximum number of applications	Spray Buffer Zones (metres) Required for the Protection of:	
			Aquatic habitat	Terrestrial habitat
Wheat, barley, oats, soybean (glyphosate tolerant varieties), canola (glyphosate tolerant varieties), peas, dry beans, flax (including low linolenic acid varieties), lentils	Fixed wing	2	20	35
	Rotary wing	2	20	30
Forage grasses and legume including seed production	Fixed and rotary wing	1	20	40
Soybean (glyphosate tolerant varieties)	Fixed Wing	3	20	45
	Rotary Wing	3	20	40
Summer fallow	Fixed Wing	1	20	45
	Rotary Wing	1	20	40
Corn (glyphosate tolerant varieties)	Fixed Wing	2	20	50
	Rotary Wing	2	20	45
Pasture	Fixed Wing	1	30	70
	Rotary Wing	1	30	55
Non-cropland system and aerial application method				
Non-crop land and industrial uses: rights-of-way areas only	Fixed Wing	3	100	NR
	Rotary Wing	3	60	NR

*Spray buffer zones for the protection of terrestrial habitats are not required for use on rights-of-way including railroad ballast, rail and hydro rights-of-way, utility easements and roads.

NR = Not Required.

When tank mixes are permitted, consult the labels of the tank mix partners and observe the largest (most restrictive) spray buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASABE) category indicated on the labels for those tank mix partners.

The spray buffer zones for this product for conventional application equipment can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Drift Mitigation portion of the Canada.ca website.

6.0 WEEDS CONTROLLED

This product controls many annual and perennial grasses, broadleaf weeds, and woody brush and trees when applied as recommended and under conditions described. For information on how to control specific weeds including herbicide rate, refer to "Annual Weed Control" and "Perennial Weed Control" (sections 7.1 and 8.1). The following is a partial list of weeds controlled:

6.1 ANNUAL WEEDS

ANNUAL GRASSES

Barnyard Grass

Echinochloa crusgalli

Blue Grass (annual)

Poa annua

Crab Grass (large)

Digitaria sanguinalis

Crab Grass (smooth)

Digitaria ischaemum

Downy Brome-grass

Bromus tectorum

Fall Panicum

Panicum dichotomiflorum

Giant Foxtail

Setaria faberii

Green Foxtail

Setaria viridis

Persian Darnel

Lolium persicum

Volunteer Barley

Hordeum spp.

Volunteer Corn

Zea mays

Volunteer Wheat

Triticum spp.

Wild Oats

Avena fatua

Wild Proso Millet

Panicum miliaceum

Yellow Foxtail

Setaria glauca

OTHER

Dodder

Cuscuta spp.

ANNUAL BROADLEAF WEEDS

Chickweed

Stellaria media

Cleavers

Galium aparine

Cocklebur

Xanthium strumarium

Corn Spurry

Spergula arvensis

Cow Cockle

Saponaria vaccaria

Eastern Black Nightshade

Solanum ptycanthum

Fleabane (Canada)

Erigeron canadensis

Flixweed

Descurainia sophia

Green Smartweed

Polygonum scabrum

Hempnettle

Galeopsis tetrahit

Kochia

Kochia scoparia

Lady's-Thumb

Polygonum persicaria

Lamb's-quarters (common)

Chenopodium album

Narrow-leaved Hawk's Beard

Crepis tectorum

Narrow-leaved Vetch

Vicia angustifolia

Night-flowering Catchfly

Silene noctiflora

Pennsylvania Smartweed

Polygonum pennsylvanicum

Prickly Lettuce

Lactuca scariola

Ragweed (common)

Ambrosia artemisiifolia

Redroot Pigweed

Amaranthus retroflexus

Round-Leaved Mallow

Malva pusilla

Russian Thistle

Salsola pestifer

Shepherd's Purse

Capsella bursa-pastoris

Smooth Pigweed

Amaranthus hybridus

Sowthistle (annual)

Sonchus oleraceus

Stinkweed

Thlaspi arvense

Storksbill

Erodium cicutarium

Velvetleaf

Abutilon theophrasti

Volunteer Canola (rapeseed)

Brassica spp.

Volunteer Flax

Linum spp.

Wild Buckwheat

Polygonum convolvulus

Wild Mustard

Sinapis arvensis

Wild Tomato

Solanum triflorum

6.2 PERENNIAL WEEDS

PERENNIAL GRASSES/SEDGES

Blue Grass (Canada)

Poa compressa

Blue Grass (Kentucky)

Poa pratensis

Brome Grass (smooth)

Bromus inermis

Cattail (common)

Typha latifolia

Cottongrass

Eriophorum chamissonis

Foxtail Barley

Hordeum jubatum

Quackgrass

Elytrigia repens

Wire-Stemmed Muhly

Muhlenbergia frondosa

Yellow Nutsedge

Cyperus esculentus

PERENNIAL BROADLEAVED WEEDS

Alfalfa

Medicago spp.

Curled Dock

Rumex crispus

Dandelion

Taraxacum officinale

Field Bindweed

Convolvulus arvensis

Hemp Dogbane

Apocynum cannabinum

Hoary Cress

Cardaria draba

Knotweed (Japanese)

Polygonum cuspidatum

Purple Loosestrife

Lythrum salicaria

Sow Thistle (perennial)

Sonchus arvensis

Thistle (Canada)

Cirsium arvense

Toad Flax

Linaria vulgaris

Wormwood (Absinth)

Artemisia absinthium

Milkweed (common)

Asclepias syriaca

Poison Ivy

Rhus radicans

6.3 WOODY BRUSH AND TREES

Alder

Alnus spp

Birch

Betula spp.

Broad-leaved meadowsweet

Spiraea latifolia

Cedar

Thuja spp.

Cherry

Prunus spp.

Douglas Fir

Pseudotsuga spp.

Hemlock

Tsuga spp.

Maple

Acer spp.

Mountain-fly honeysuckle

Lonicera villosa

Pine

Pinus spp.

Poplar

Populus spp.

Raspberry/Salmonberry

Rubus spp.

Rhododendron (Canadian)

Rhododendron canadense

Sheep laurel

Kalmia angustifolia

Snowberry (Western)

Symphoricarpos occidentalis

Sweet fern

Comptonia peregrina

Willow

Salix spp.

Withrod

Viburnum cassinoides

CROPLAND USES

ALWAYS READ PRECAUTIONS, GENERAL INFORMATION AND MIXING AND APPLICATION SECTIONS (3.0, 4.0 AND 5.0) PRIOR TO SPECIFIC APPLICATION INFORMATION IN ANY LABEL SECTION. DO NOT APPLY BY AIR.

7.0 ANNUAL WEED CONTROL

The following tables provide rates and specific application instructions for control of the annual weeds listed.

7.1 ANNUAL WEED CONTROL WITH STONEWALL 540

DO NOT APPLY BY AIR

RATE (L/ha)	GROWTH STAGE	WEEDS CONTROLLED	COMMENTS (Apply in 50-100 L/ha water)
0.5	Weeds up to 8 cm in height	Wild oats, green foxtail, volunteer barley, volunteer wheat Non-Roundup Ready volunteer canola (rapeseed), wild mustard, lady's-thumb, stinkweed	For wild oats apply at 1-3 leaf stage. Add 350 mL of a surfactant registered for use such as Class Act® NG, Agral® 90 [◇] , or Ag Surf® ^{◇◇} For heavy wild oat infestations use 0.67 L/ha rate.
0.67	Weeds 8 cm to 15 cm in height	All annual grasses listed above. All annual broadleaved weeds listed above plus flixweed* and kochia*	Add 350 mL of surfactant registered for use as listed above. *Suppression only. Refer to higher rates of this table or tank mix table (section 7.2) for control options.
0.83 - 1.27	Weeds up to 15 cm in height	All annual grasses listed above plus downy brome, giant foxtail, and Persian darnel. All annual broadleaved weeds listed above plus cleavers, lamb's-quarters, redroot pigweed, hempnettle, flixweed, Russian thistle, volunteer flax, common ragweed*, Canada fleabane*, wild buckwheat**, narrow-leaved hawk's beard***	No surfactant required. For tank mix weed control options see section 7.2. *DO NOT use these rates on plants greater than 8 cm in height. ** For 3-4 leaf stage use 1.27 L/ha rate. *** For weeds 8 cm to 15 cm in height use 1.27 L/ha rate.
1.5	Weeds up to 15 cm in height	All annual grasses listed above plus crab grass and annual blue grass All annual broadleaved weeds listed above plus kochia, prickly lettuce, shepherd's purse, annual	For additional annual broadleaved weed control options, refer to tank mix table (section 7.2).

		sowthistle, and narrow-leaved vetch	
2.33	Weeds over 15 cm in height	All annual grasses and broadleaved weeds listed above	• For additional annual broadleaved weed control options, refer to tank mix table (section 7.2).

NOTE: For spot treatment, 0.5 - 2.33 litres per hectare is approximately equivalent to 5 - 23 mL/100m², respectively.

◊ Choose one of Agral 90 Non-Ionic Wetting & Spreading Agent Liquid or Agral 90 Non-Ionic Liquid Wetting & Spreading Agent.

◊◊ Choose one of IPCO Ag-Surf Original, IPCO Ag-Surf II, Weedaway Ag-Surf Liquid Spray Adjuvant or Weedaway Ag-Surf II.

Class Act is a registered trademark of WinField United Canada, ULC

Agral is a registered trademark of Syngenta Group Company.

Ag-Surf is a registered trademark of Interprovincial Cooperative Ltd.

7.2 ANNUAL WEED CONTROL WITH STONEWALL 540 TANK MIXTURES

FOR SUMMERFALLOW & MINIMUM TILLAGE SYSTEMS

TANK MIXTURES	RATE (L/ha)	WEEDS CONTROLLED	COMMENTS (Apply in 50-100 L/ha water)
STONEWALL 540 + Banvel® II Herbicide	0.5 - 0.67 + 0.29	Volunteer cereals, wild oats, green foxtail Non-Roundup Ready® volunteer canola (rapeseed), wild mustard, flixweed*, lamb's-quarters, lady's-thumb, stinkweed, kochia, Russian thistle, cow cockle, redroot pigweed**, wild buckwheat**	This tank mix is registered for summerfallow use only. Weeds should be less than 15 cm tall and actively growing for best results. Use higher rate if weeds are beyond 8 cm in height. * STONEWALL 540 applied at 0.67 L/ha rate only. ** Suppression only. See other tank mixtures for control options. Add 350 mL/ha of surfactant -see list in section 7.3.
STONEWALL 540 + Banvel® II Herbicide	0.61 - 1.27 + 0.31	Volunteer cereals, wild oats, green foxtail, downy brome, Persian dandel, Non-Roundup Ready® volunteer canola (rapeseed), wild mustard, flixweed, lamb's-quarters, lady's-thumb, stinkweed, kochia, Russian thistle, cow cockle, redroot pigweed, wild buckwheat*, smartweed	Use this tank mix prior to seeding in wheat, barley, rye, oats, field corn only (do not apply to sweet corn). Certain broadleaved crops such as lentils, peas, canola and flax can be injured by a pre-seeding application and so should not be planted to a field receiving this treatment. Annual grasses - apply any time between emergence and heading. Weeds should be less than 15 cm tall and actively growing for best results. The higher rate should be applied when

TANK MIXTURES	RATE (L/ha)	WEEDS CONTROLLED	COMMENTS (Apply in 50-100 L/ha water)
			weeds are under poor growing conditions such as drought. *1- to 4- leaf stage.
STONEWALL 540 + Pardner Herbicide ® Or Brox™ 240 EC	0.5 - 0.67 + 1.25 Or 1.46	Volunteer cereals, green foxtail, volunteer canola (rapeseed), wild mustard, lady's-thumb, stinkweed, wild buckwheat* Redroot pigweed**, kochia**, wild oats**	This tank mix is registered only for use in summerfallow, and prior to wheat, oats and barley in minimum tillage systems. Weeds should be less than 15 cm tall and actively growing for best results. Use higher rate if weeds are beyond 8 cm in height. * Use STONEWALL 540 at 0.67 L/ha rate only for wild buckwheat control. ** 0.67 L/ha rate, suppression only. See other tank mixtures for control options. Add 350 mL/ha of surfactant -see list in section 7.3.
STONEWALL 540 + 2,4-D ^A	0.83 – 1.27 + 0.6 - 0.9 ⁴ or 1.2 - 1.5 ⁵	Volunteer cereals, wild oats, green foxtail, downy brome, giant foxtail, Persian dandel Volunteer canola, (rapeseed) (non-Roundup Ready), wild mustard, flaxweed, redroot pigweed, lady's-thumb, stinkweed, kochia, lamb's-quarters, hempnettle, Russian thistle, volunteer flax, common ragweed*, Canada fleabane, wild buckwheat**, narrow-leaved hawk's beard*** Volunteer Roundup Ready canola (1-4 leaf stage) ⁴ , bluebur ⁴ , burdock ⁴ , cocklebur ⁴ , common	Weeds should be less than 15 cm tall and actively growing for best results. Use higher rate if weeds are beyond 8 cm in height. * DO NOT use these rates on plants greater than 8 cm in height. ** For 3- to 4-leaf stage use 1.27 L/ha rate. *** For weeds 8 cm to 15 cm in height use 1.27 L/ha rate. ⁴ 2,4-D at 0.6 - 0.9 L/ha (280 - 420 g ai/ha). ⁵ 2,4-D at 1.2 - 1.5 L/ha (560 -700 g ai/ha). Use a minimum of 80 L/ha water

TANK MIXTURES	RATE (L/ha)	WEEDS CONTROLLED	COMMENTS (Apply in 50-100 L/ha water)
		<p>plantain⁴, daisy fleabane⁴, false flax⁴, false ragweed⁴, goat's beard⁴, mustards⁴ (except dog and tansy), prickly lettuce⁴, ragweeds⁴, Russian pigweed⁴, shepherd's purse⁴, stinging nettle⁴, sweet clover⁴, thyme-leaved spurge⁴, wild radish⁴, wild sunflower⁴</p> <p>Volunteer Roundup Ready canola (rapeseed) (4-6 leaf stage)⁵, annual sowthistle⁵, common chickweed⁵, common purslane⁵, dog and tansy mustard⁵, oak-leaved goosefoot⁵, common groundsel⁵, hairy galinsoga⁵, hawkweed⁵, heal-all⁵, knotweed⁵, peppergrass⁵, pineapple weed⁵, prostrate pigweed⁵, purslane⁵, sheep sorrel⁵, green smartweed⁵, tumble pigweed⁵, velvetleaf⁵, volunteer canola (rapeseed)⁵</p>	<p>when using 2,4-D amine formulations at these rates.</p> <p>Use this tank mix prior to seeding or after seeding but before crop emergence in wheat, winter wheat, barley and rye.</p>
<p>STONEWALL 540</p> <p>+</p> <p>2,4-D^B</p>	<p>0.5 – 0.67</p> <p>+</p> <p>1.2</p>	<p>Volunteer cereals, wild oats*, green foxtail*</p> <p>Volunteer canola (rapeseed), wild mustard, flixweed, redroot pigweed, lady's-thumb, stinkweed, kochia</p> <p>Lamb's-quarters**, Russian thistle**</p>	<p>This tank mix is registered for summerfallow use only. Weeds should be less than 15 cm tall and actively growing for best results.</p> <p>Use higher rate if weeds are beyond 8 cm in height.</p> <p>* Use STONEWALL 540 at 0.67 L/ha rate only for wild oat and green foxtail control.</p> <p>** Suppression only. See other tank mixtures for control options.</p> <p>Add 350 mL/ha of surfactant -see list in section 7.3.</p>
<p>STONEWALL 540</p> <p>+</p> <p>MCPA^C 500 g/L formulation; if another formulation is used, adjust rate accordingly.</p>	<p>0.83 - 1.27</p> <p>+</p> <p>0.5 - 0.7¹</p> <p>OR</p> <p>0.5 - 1.0²</p>	<p>Volunteer cereals, wild oats, green foxtail, downy brome, giant foxtail, Persian dandelion</p> <p>Volunteer canola (rapeseed) (non-Roundup Ready), wild mustard, flixweed, redroot pigweed, lady's thumb, stinkweed, kochia, lamb's quarters, hempnettle, Russian thistle, volunteer flax, common ragweed*,</p>	<p>Weeds should be less than 15 cm tall and actively growing for best results.</p> <p>Use higher rate if weeds are beyond 8 cm in height.</p> <p>No surfactant required.</p> <p>* DO NOT use these rates on plants greater than 8 cm in height.</p> <p>** For 3- to 4-leaf stage use 1.27 L/ha</p>

TANK MIXTURES	RATE (L/ha)	WEEDS CONTROLLED	COMMENTS (Apply in 50-100 L/ha water)
		<p>Canada fleabane, wild buckwheat**, narrow-leaved hawk's beard***</p> <p>Volunteer Roundup Ready canola (1-4 leaf stage)^{1,2}, bluebur³, burdock³ (before 4 leaf stage), false flax³, flixweed³, lamb's quarters³, mustards³ (except dog and tansy), prickly lettuce³, ragweeds³, redroot pigweed³, Russian pigweed³, shepherd's purse³, stinkweed (field pennycress)³, vetch³, wild radish³, wild sunflower³</p>	<p>rate.</p> <p>*** For weeds 8 cm to 15 cm in height use 1.27 L/ha rate.</p> <p>¹ MCPA amine at 0.5 - 0.7 L/ha (250 - 350 g ai/ha) prior to peas.</p> <p>² MCPA at 0.5 - 1.0 L/ha (250 -500 g ai/ha) prior to wheat, barley, oats, corn (field and sweet)^C, rye and flax.</p> <p>³ MCPA at 0.7 - 1.0 L/ha (350 -500 g ai/ha) only.</p> <p>Use this tank mix prior to seeding in wheat, barley, rye, oats, corn (field and sweet)^C, flax and field peas</p>
<p>STONEWALL 540</p> <p>+</p> <p>Buctril® M</p> <p>or</p> <p>Brox M</p>	<p>0.83 - 1.27</p> <p>+</p> <p>0.5 - 1.0¹</p> <p>or</p> <p>0.62 - 1.24¹</p>	<p>Volunteer cereals, wild oats, green foxtail, downy brome, giant foxtail, Persian dandel.</p> <p>Volunteer canola (rapeseed) (non-Roundup Ready), wild mustard, flixweed, redroot pigweed, lady's thumb, stinkweed, kochia, lamb's-quarters, hempnettle, Russian thistle, volunteer flax, common ragweed*, Canada fleabane, wild buckwheat**, narrow-leaved hawk's beard***</p> <p>Volunteer Roundup Ready Canola (1-4 leaf stage)^{1,2}</p> <p>Seedlings up to the 4-leaf stage²: green smartweed, pale smartweed, lady's thumb, cow cockle, redroot pigweed, flixweed, bluebur, shepherd's purse, kochia³, Russian thistle³, scentless chamomile⁴, volunteer sunflower, night flowering catchfly, cocklebur, velvetleaf⁵, ball mustard, American nightshade</p> <p>Seedlings up to the 6-leaf stage²: wild tomato</p> <p>Seedlings up to the 8-leaf</p>	<p>Weeds should be less than 15 cm tall and actively growing for best results.</p> <p>Use higher rate if weeds are beyond 8 cm in height.</p> <p>* No surfactant required.</p> <p>DO NOT use these rates on plants greater than 8 cm in height.</p> <p>** For 3- to 4-leaf stage use 1.27 L/ha rate.</p> <p>*** For weeds 8 cm to 15 cm in height use 1.27 L/ha rate.</p> <p>¹ Buctril M at 0.5 - 1.0 L/ha or Brox M at 0.62 - 1.24 L/ha (280 - 560 g ai/ha) for all crops listed.</p> <p>² Buctril M at 1.0 L/ha or Brox M at 1.2 L/ha (560 g ai/ha only).</p> <p>³ Spray before plants are 5 cm high.</p> <p>⁴ Spring annuals only.</p> <p>⁵ Spray before plants are 8 cm high.</p> <p>Use this tank mix prior to seeding in wheat, barley, rye, oats, corn, flax, canary seed and seedling grasses (including brome grass, crested wheatgrass, intermediate wheat grass,</p>

TANK MIXTURES	RATE (L/ha)	WEEDS CONTROLLED	COMMENTS (Apply in 50-100 L/ha water)
		stage ² : wild buckwheat, tartary buckwheat, common buckwheat, stinkweed, wild mustard, wormseed mustard, lamb's-quarters, common ragweed, common groundsel Perennials (top growth) ² : Canada thistle, perennial sow thistle	slender wheatgrass, tall wheatgrass, Russian wild rye, timothy, orchard grass, creeping red fescue, meadow fescue, meadow foxtail, seedling tall fescue, seedling meadow brome, seedling streambank wheatgrass and reed canary grass.
STONEWALL 540 + MCPA amine (500 g/L formulation; if another formulation is used, adjust rate accordingly).	0.83 - 1.27 + 0.5 – 0.7	Volunteer cereals, wild oats, green foxtail, downy brome, giant foxtail, Persian dandel. Volunteer canola, (rapeseed) (non-Roundup Ready), wild mustard, flaxweed, redroot pigweed, lady's thumb, stinkweed, kochia, lamb's-quarters, hempnettle, Russian thistle, volunteer flax, common ragweed*, Canada fleabane, wild buckwheat**, narrow-leaved hawk's beard*** Volunteer Roundup Ready canola (1-4 leaf stage) ³ , bluebur ⁴ , burdock ⁴ (before 4 leaf stage), false flax ⁴ , flaxweed ⁴ , lamb's-quarters ⁴ , mustards ⁴ (except dog and tansy), prickly lettuce ⁴ , ragweeds ⁴ , redroot pigweed ⁴ , Russian pigweed ⁴ , shepherd's purse ⁴ , stinkweed ⁴ (field pennycress), vetch ⁴ , wild radish ⁴ , wild sunflower ⁴	Weeds should be less than 15 cm tall and actively growing for best results. Use higher rate if weeds are beyond 8 cm in height. No surfactant required. * DO NOT use these rates on plants greater than 8 cm in height. ** For 3- to 4-leaf stage use 1.27 L/ha rate. *** For weeds 8 cm to 15 cm in height use 1.27 L/ha rate. ³ MCPA amine at 0.5 - 0.7 L/ha (250 - 350 g ai/ha) prior to lentils and chickpeas. ⁴ MCPA amine at 0.7 L/ha (350 g ai/ha) only. Use this tank mix prior to seeding in lentil and chickpea. Under drought conditions, deep seeding and/or brief rain showers after seeding may cause injury to emerging seedlings in sprayer overlaps.
STONEWALL 540 + Cleat®	0.83 – 1.27 + 10 g/ha (7.5 g ai/ha)	Volunteer cereals, Canada thistle (suppression), cow cockle, wild buckwheat, Canada fleabane, common ragweed, narrow-leaved hawk's beard, dandelion, downy brome, flaxweed, giant foxtail, green foxtail, hempnettle, kochia, lady's thumb, lamb's-quarters, persian dandel, redroot pigweed, Russian thistle, stinkweed, volunteer canola, volunteer flax, wild mustard,	Use this tank mix in summer fallow or prior to seeding wheat and barley. Add 350 mL/ha of surfactant -see list in section 7.3.

TANK MIXTURES	RATE (L/ha)	WEEDS CONTROLLED	COMMENTS (Apply in 50-100 L/ha water)
		wild oats	

♦ For foxtail barley, refer to "Perennial Weed Control" table (section 8.1).

^B 0.56 kg ai/ha of 2,4-D. ^B, ^A Adjust rates accordingly for other 2,4-D formulations. Use only low volatile ester or amine formulations of 2,4-D.

^C Use only amine formulations of MCPA prior to seeding in corn and field peas.

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Pardner and Buctril M are registered trademarks of Bayer CropScience Inc.

7.3 SURFACTANT INFORMATION

NOTE: Addition of Surfactant - STONEWALL 540 tank mixtures for annual weed control may require the addition of a surfactant registered for use such as Class Act NG, Agral 90[◇], or Ag-Surf^{◇◇}. Refer to Section 7.2 for recommendations. Surfactant should be added at a rate of 350 millilitres per hectare, in 50 - 100 litres of clean water.

◇ Choose one of Agral 90 Non-Ionic Wetting & Spreading Agent Liquid or Agral 90 Non-Ionic Liquid Wetting & Spreading Agent.

◇◇ Choose one of IPCO Ag-Surf Original, IPCO Ag-Surf II, Weedaway Ag-Surf Liquid Spray Adjuvant or Weedaway Ag-Surf II.

7.4 ADDITIONAL IMPORTANT INFORMATION FOR ANNUAL WEED CONTROL

STONEWALL 540 applied alone will not control volunteers from crops containing the Roundup Ready[®] gene.

Allow at least 1 day after treatment before tillage.

Annual weeds generally will continue to germinate from seed throughout the growing season. Repeat treatments may be necessary to control later germinating weeds, in some situations.

For additional information and precautions, refer to "General Information" and "Mixing and Application" (Sections 4.0 and 5.0, respectively).

7.5 WEED CONTROL IN TRUFLEX[™] ROUNDUP READY[®] CANOLA VARIETIES

WARNING: APPLY STONEWALL 540 TO TRUFLEX ROUNDUP READY CANOLA VARIETIES ONLY.

NOTE: ALWAYS USE PEDIGREED (I.E., CERTIFIED) TRUFLEX ROUNDUP READY CANOLA SEED. CANOLA NOT DESIGNATED AS TRUFLEX ROUNDUP READY WILL BE DAMAGED OR DESTROYED BY THIS TREATMENT.

- For additional information and precautions refer to "General Information" and "Mixing and Application" (sections 4.0 and 5.0, respectively).
- Apply to TruFlex Roundup Ready canola only as directed.

DO NOT APPLY BY AIR.

The following table describes the rate and specific application instructions for weed control in TruFlex Roundup Ready canola varieties.

WEED CONTROL IN TRUFLEX ROUNDUP READY CANOLA VARIETIES

RATE (L/ha)	GROWTH STAGE OF CROP	WEEDS CONTROLLED	COMMENTS (Apply in 50 -100 L/ha water)
0.55-0.83 Single application	Emergence to first flower*	<p>Annual Grasses Wild oats, green foxtail, volunteer barley, volunteer wheat, barnyard grass</p> <p>Annual Broadleaves Stinkweed, redroot pigweed, wild mustard, Russian thistle, lamb's-quarters, non-Roundup Ready volunteer canola (rapeseed), hempnettle, lady's-thumb, kochia, chickweed, corn spurry, wild tomato, cleavers, wild buckwheat, shepherd's purse¹, cow cockle¹, nightflowering catchfly¹, smartweed¹, stork's-bill, flixweed, narrow-leaved hawk's beard</p> <p>Perennials: (Suppression) Canada thistle, perennial sow thistle and Dandelion</p> <p>Perennials: (Season-long control) Quackgrass,</p>	<p>¹The 0.55 l/ha rate can be used for control of shepherd's purse, cow cockle and night-flowering catchfly at the 1– 3 leaf stage of the crop or for control of smartweed at the 4 –6 leaf stage.</p> <p>Repeat applications may be required if a second flush of weeds germinates prior to canopy closure.</p>
1.27 Single application	Emergence to first flower *	<p>All the above weeds plus: Perennials (season-long control) Canada thistle, and perennial sow thistle</p>	
0.83 Sequential applications	Emergence to first flower *	<p>All the above weeds plus: Annual Broadleaves round-leaved mallow</p> <p>Perennials (season-long control) foxtail barley, Canada thistle, and perennial sow thistle</p>	For sequential applications, ensure the crop has not advanced beyond the recommended growth stage
1.67	Emergence to first	All the above weeds	² Biennial wormwood should

Single application	flower *	plus: Foxtail barley, smooth pigweed, common ragweed, cocklebur, eastern black nightshade, pennsylvannia smartweed, foxtail (yellow and giant), fall panicum, wild proso millet, crabgrass (smooth and large), velvet leaf, biennial wormwood ² wire-stemmed muhly, volunteer adzuki beans ³ (Suppression only) Common Milkweed, Yellow nutsedge	be at 2-8 leaf stage and actively growing. ³ For control of volunteer adzuki beans (unifoliolate to the 4th trifoliolate leaf stage) apply 1.67 L/ha. A second 1.67 L/ha application may be used for late flushes emerging after the initial treatment. Adzuki beans should be at unifoliolate to fourth trifoliolate leaf stage and actively growing.
1.67 Sequential applications	Emergence to first flower*	All the above weeds plus: Perennials (season-long control) Dandelion Common Milkweed Field Bindweed Yellow nutsedge Horsenettle, Tall waterhemp Bur cucumber	A sequential application may be made at least 2 weeks after the first application. A second 1.67 L/ha application may be used for late weed flushes emerging after the initial treatment. Common milkweed should be 15-60 cm in height and actively growing. Yellow nutsedge should be 5-15 cm in height and actively growing. Horse-nettle (2-to 12-leaf stage) Tall waterhemp up to and including the 18-leaf stage) Bur Cucumber from the 1- to 18-leaf stage.
3.33 Single application	Emergence to 6-leaf	All the above weeds	One application allowed in crop per season

* First flower is when 50% of the plants in the field have no more than one flower.

Ensure the crop has not advanced beyond the recommended growth stage for all applications.

Guidelines:

Repeat applications may be required if a second flush of weeds germinates prior to canopy closure.

Maximum 3.33L/ha is allowed for the postemergence use.

7.5.1 TRUFLEX ROUNDUP READY HYBRID CANOLA SEED PRODUCTION

For Use only in TruFlex Roundup Ready Canola Seed Production Systems

Apply using ground boom spray equipment.

STONEWALL 540 may be applied for the control of non-glyphosate tolerant canola pollen parental line(s) in hybrid canola seed production fields containing both TruFlex Roundup Ready canola line(s) and non- TruFlex Roundup Ready canola line(s).

When pollination is complete or near completion, non- TruFlex Roundup Ready canola pollen parental line(s) may be controlled with an application of 0.83 to 1.67 litres per hectare of STONEWALL 540 applied in 50 to 200 litres per hectare water.

Sequential applications (**maximum 2 applications**) may be used for the control of pollen parental line(s) but the total maximum rate applied must not exceed 1.67 litres per hectare. Allow at least 5 days between sequential applications.

7.6 WEED CONTROL IN ROUNDUP READY® CANOLA VARIETIES

WARNING: APPLY STONEWALL 540 ON ROUNDUP READY CANOLA VARIETIES ONLY.

NOTE: ALWAYS USE PEDIGREED (I.E., CERTIFIED) ROUNDUP READY CANOLA SEED. CANOLA WHICH IS NOT DESIGNATED AS ROUNDUP READY WILL BE DAMAGED OR DESTROYED BY THIS TREATMENT.

- For additional information and precautions refer to "General Information" and "Mixing and Application" (sections 4.0 and 5.0, respectively).
- Apply STONEWALL 540 in Roundup Ready canola only as directed in the following weed control table.
- Some short-term, visual yellowing may occur when STONEWALL 540 is applied at the late application (4 to 6 leaf stage) of the crop. This effect is temporary and will not influence crop growth, maturity or yield.

DO NOT APPLY BY AIR.

The following table describes the rate and specific application instructions for control of annual and perennial weeds in Roundup Ready canola varieties.

WEED CONTROL IN ROUNDUP READY CANOLA VARIETIES

RATE (L/ha)	GROWTH STAGE OF CROP	WEEDS CONTROLLED	COMMENTS (Apply in 50 -100 L/ha water)
0.55 – 1.27	0 to 6 leaf	<u>Annual Grasses</u> Wild oats, green foxtail, volunteer barley, volunteer wheat, barnyard grass <u>Annual Broadleaves</u> Stinkweed, redroot pigweed, wild mustard, Russian thistle, lamb's-quarters, non-Roundup Ready	Repeat applications may be required if a second flush of weeds germinates prior to canopy closure. Ensure the crop has not advanced beyond the recommended growth stage. * Use the 0.83 L/ha rate for control of these weeds at all crop growth stages.

		<p>volunteer canola (rapeseed), hempnettle, lady's-thumb, kochia, chickweed, corn spurry, wild tomato, cleavers*, wild buckwheat*, shepherd's purse*, cow cockle*, night-flowering catchfly*, smartweed*, stork's-bill*, flixweed*, narrow-leaved hawk's beard*, round-leaved mallow***</p> <p><u>Perennials (suppression)**</u> Canada thistle, perennial sow thistle, dandelion</p> <p><u>Perennials (season-long control)</u> Quackgrass**, foxtail barley***, Canada thistle****, and perennial sow thistle****</p>	<p>The lower rate can be used for control of shepherd's purse, cow cockle and night-flowering catchfly at the 1-to 3-leaf stage of the crop or for control of smartweed at the 4- to 6-leaf stage.</p> <p>** A single application of 0.83 L/ha is required.</p> <p>*** Sequential applications of 0.83 L/ha are required.</p> <p>**** Sequential applications of 0.83 L/ha are required or a single application of 1.27 L/ha are required.</p> <p>For sequential applications, ensure the crop has not advanced beyond the recommended growth stage.</p> <p>Maximum 1.66 L/ha is allowed for the postemergence use.</p>
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7.6.1 TANK MIXTURES

For season long control of top growth of Canada thistle and control of wild buckwheat in Roundup Ready canola varieties, apply a tank mixture of 0.28 L/ha of Lontrel® 360 Herbicide with 0.83 L/ha of STONEWALL 540, in 100 litres of water per hectare. Apply when canola is in the 2- to 6-leaf stage.

Lontrel is a registered trademark of Corteva Agriscience Canada Company.

7.6.2 ROUNDUP READY® HYBRID CANOLA SEED PRODUCTION

For Use only in Roundup Ready® Hybrid Canola Seed Production Systems

Apply using ground boom spray equipment.

STONEWALL 540 may be applied for the control of non-Roundup Ready canola pollen parental line(s) in hybrid canola seed production fields containing both Roundup Ready line(s) and non-Roundup Ready line(s).

When pollination is complete or near completion, non-Roundup Ready pollen parental line(s) may be controlled with an application of 0.83 to 1.67 litres per hectare of STONEWALL 540 applied in 50 to 200 litres per hectare water.

Sequential applications (maximum 2 applications) may be used for the control of pollen parental line(s) but the total maximum rate applied must not exceed 1.67 litres per hectare. Allow at least 5 days between sequential applications.

7.7 WEED CONTROL IN ROUNDUP READY OR ROUNDUP READY 2 YIELD® SOYBEAN VARIETIES

7.7.1 WEED CONTROL IN ROUNDUP READY 2 YIELD SOYBEAN VARIETIES

WARNING: APPLY STONEWALL 540 ON ROUNDUP READY 2 YIELD SOYBEAN VARIETIES ONLY.

NOTE: ROUNDUP READY 2 YIELD SOYBEAN VARIETIES ARE TOLERANT OF GLYPHOSATE, THE ACTIVE INGREDIENT IN STONEWALL 540. ALWAYS USE PEDIGREED (I.E., CERTIFIED) SOYBEAN SEED DESIGNATED AS ROUNDUP READY 2 YIELD. SOYBEANS WHICH ARE NOT DESIGNATED AS ROUNDUP READY 2 YIELD WILL BE DAMAGED OR DESTROYED BY THIS TREATMENT.

DO NOT APPLY BY AIR.

RATE (L/ha)	GROWTH STAGE OF CROP	WEEDS CONTROLLED*	COMMENTS (Use 100 -200 L/ha water volumes)
1.67	First trifoliolate leaf stage through flowering	<p>Velvetleaf, common ragweed, common lamb's quarters, redroot pigweed, smooth pigweed, cocklebur, green smartweed, lady's-thumb, Pennsylvania smartweed, Eastern black nightshade, wild mustard, wild buckwheat, foxtail (green, yellow, giant), barnyard grass, crabgrass (smooth, large), quackgrass, fall panicum, wild proso millet, wild oats, volunteer barley, volunteer wheat, stinkweed, Russian thistle, non-roundup ready canola (rapeseed), hemp-nettle, kochia, chickweed, corn spurry, wild tomato, cleavers, shepherd's purse, cow cockle, night flowering catchfly, stork's bill, flaxweed, narrow leaved hawk's-beard</p> <p>common milkweed^{1,2}, yellow nutsedge^{1,2}, field bindweed², perennial sow thistle, Canada thistle. wire-stemmed muhly.</p> <p>Bur cucumber (<i>Sicyos angulatus</i>)³</p> <p>Volunteer adzuki beans (<i>Vigna angularis</i>)⁴</p> <p>Biennial Wormwood</p>	<p>¹ A single application of 1.67 L/ha will provide suppression only.</p> <p>² For control of common milkweed, yellow nutsedge, round-leaved mallow and field bindweed, a second sequential application may be applied at least 2 weeks after the first application.</p> <ul style="list-style-type: none"> • A second 1.67 L/ha application may be used for late weed flushes emerging after the initial treatment. • Any second application made must be applied no later than the flowering stage of the soybean. • Common milkweed should be 15-60 cm in height and actively growing. • Yellow nutsedge should be 5-15 cm in height and actively growing. • Perennial sow thistle and Canada thistle should be from the rosette stage to 50 cm in height and actively growing. • Wire-stemmed muhly should be 10-20 cm in height and actively growing.

		<i>(Artemisia biennis)</i> ⁵	<ul style="list-style-type: none"> • Plants not fully emerged at the time of application will escape treatment. • ³Sequential applications of 1.67 L/ha followed by 1.67 L/ha at the 1-18 leaf stage. • Applications should be at least 2 weeks apart for best results. • ⁴For control of volunteer adzuki beans (unifoliolate to the 4th trifoliolate leaf stage) apply 1.67 L/ha. A second 1.67 L/ha application may be used for late flushes emerging after the initial treatment. Adzuki beans should be at unifoliolate to fourth trifoliolate leaf stage and actively growing • ⁵ Only one application per season at 1.67L/ha. Biennial wormwood should be at 2-8 leaf stage and actively growing.
3.33	First trifoliolate leaf stage through flowering	All weeds listed above plus horse-nettle ⁶ and tall waterhemp ⁷	<ul style="list-style-type: none"> • Only one application per season at 3.33 L/ha. • Common milkweed should be 15-60 cm in height and actively growing. • Yellow nutsedge should be 5-15 cm in height and actively growing. • Plants not fully emerged at the time of application will escape treatment. • ⁶ For season-long control of horse-nettle (<i>Solanum carolinense</i>) (2- to 12-leaf stage) or, for control of tall Waterhemp (<i>Amaranthus tuberculatos</i>) (up to and including the 18-leaf stage) apply 3.33 L/ha. Alternatively, sequential applications of 1.67 L/ha followed by 1.67 L/ha may

			<p>be applied. Applications should be at least 2 weeks apart for best results.</p> <ul style="list-style-type: none"> • ⁷For the control of Tall Waterhemp use the higher rate if weeds are beyond the 6-leaf stage.
4.67	First trifoliate leaf stage through flowering	All weeds listed above plus control of volunteer alfalfa and brome grass	<p>Only one application per season at 4.67 L/ha.</p> <p>Alfalfa should have 9 or more leaves and be at least 10-15 cm tall.</p> <p>Brome grass should have at least 3-5 leaves and be at least 10-15 cm tall.</p> <p>Short term yellowing may occur in sprayer overlap areas with the 4.67 L/ha application rate. This effect is temporary and will not influence crop growth or yield.</p>

*Weeds will be more easily controlled and early crop competition avoided with applications made when the weeds are small. Control of annual weeds greater than 25 cm in height will be inconsistent, although some weeds may be controlled.

7.8 WEED CONTROL IN ROUNDUP READY SOYBEAN VARIETIES

WARNING: APPLY STONEWALL 540 ON ROUNDUP READY SOYBEAN VARIETIES ONLY.

NOTE: ALWAYS USE PEDIGREED (I.E., CERTIFIED) SOYBEAN SEED DESIGNATED AS ROUNDUP READY. SOYBEANS WHICH ARE NOT DESIGNATED AS ROUNDUP READY WILL BE DAMAGED OR DESTROYED BY THIS TREATMENT.

DO NOT APPLY BY AIR.

Apply 1.67 – 3.33 L/ha of STONEWALL 540 to Roundup Ready soybean varieties.

See Section 7.6.1 for use directions.

Do not apply the 4.67 L/ha rate to non-Roundup Ready² Yield soybean varieties.

7.8.1 TANK MIXTURES

STONEWALL 540 plus Pursuit Herbicide

Tank mixtures may be applied to both Roundup Ready 2 Yield and Roundup Ready soybean varieties.

For added residual control of late germinating eastern black nightshade, common lamb's-quarters, redroot pigweed, velvetleaf, fall panicum and wild proso millet, Pursuit Herbicide may be tank mixed with STONEWALL 540 at a rate of 1.67 liters per hectare. Use 0.16 to 0.21 liters per hectare of Pursuit Herbicide and apply up to and including the 3rd trifoliate leaf stage of the Roundup Ready soybeans in 100-200 liters per hectare of clean water. The higher rate is recommended for heavier infestations. This tank mix is recommended primarily for soybean systems with row spacings of 50 centimeters (20 inches) or more where a single application timing is desired.

Mixing: Add and mix Pursuit Herbicide as per instructions on the Pursuit Herbicide label and then add STONEWALL 540 as per instructions on this label.

A PHI of 100 days is required for the tank mix of STONEWALL 540 and Pursuit Herbicide on Roundup Ready soybeans.

Only one application per season of STONEWALL 540 at 1.67 liters per hectare tank mixed with Pursuit Herbicide at 0.16 to 0.21 liters per hectare is permitted.

**STONEWALL 540 plus FirstRate™ Herbicide Water Dispersible Granule
(For Use in Eastern Canada Only)**

For added residual control of common ragweed, velvetleaf, cocklebur, jimsonweed and giant ragweed, FirstRate Herbicide may be tank mixed with STONEWALL 540 at a rate of 0.83 - 1.67 liters per hectare. Use 20.8 grams per hectare of FirstRate Herbicide.

Do not harvest soybean plants for forage or hay. Do not harvest soybeans for 65 days after application.

Only one application per season of STONEWALL 540 tank mixed with FirstRate Herbicide is permitted.

STONEWALL 540 plus Sencor® 75 DF for Control of Spreading Atriplex (Eastern Canada only)

For the control of spreading atriplex, apply a preplant application of Sencor 75 DF at 0.75-1.11 kg product per hectare on medium textured soils or 1.11-1.5 kg product per hectare on fine textured soils plus STONEWALL 540 at 1.67 litres per hectare. Do not apply on coarse textured soils. Apply when spreading atriplex is up to the 10-leaf stage of growth. Only one application per year is permitted.

STONEWALL 540 plus Assure® II Herbicide

RATE	GROWTH STAGE OF CROP	WEEDS CONTROLLED*	COMMENTS
1.67 – 3.33 L/ha STONEWALL 540 + 0.25 - 0.38 L/ha Assure II Herbicide	First trifoliate leaf stage through flowering.	Volunteer Roundup Ready corn. Apply at the 2- to 6- leaf stage of the weed.	See additional information following this table.

*Sure Mix may or may not be added to this tank mix

*Weeds will be more easily controlled and early crop competition avoided with applications made when the weeds are small. Control of annual weeds greater than 25 centimetres in height will be inconsistent, although some weeds may be controlled.

Volunteer Roundup Ready Corn Control

For control of volunteer Roundup Ready corn, Assure II Herbicide may be tank mixed with STONEWALL 540. Use 1.67 to 3.33 litres per hectare STONEWALL 540 and 0.25 - 0.38 litre per hectare of Assure II Herbicide.

The higher rate of Assure II Herbicide may be required when there are high populations of volunteer Roundup Ready corn, other grass weeds are present or when conditions at application are not favorable for weed growth.

Apply in 100 to 300 litres per hectare of clean water.

Mixing: Add and mix Assure II Herbicide as per instructions on the Assure II Herbicide label and then add STONEWALL 540 as per instructions on this label.

This tank mix is to be applied when the crop is from the first trifoliate leaf stage through flowering and when the volunteer Roundup Ready corn is at the 2- to 6-leaf stage.

A PHI (preharvest interval) of 80 days is required for the tank mix of STONEWALL 540 and Assure II Herbicide on Roundup Ready 2 Yield and Roundup Ready soybean varieties.

FirstRate is a trademark of Corteva Agriscience Canada Company.

Pursuit is a registered trademark of BASF Canada Inc.

Sencor is a registered trademark of Bayer CropScience Inc.

STONEWALL 540 plus Venture® L Herbicide

RATE	GROWTH STAGE OF CROP	WEEDS CONTROLLED*	COMMENTS
1.67 – 3.33 L/ha STONEWALL 540 + 0.45 - 0.60 L/ha Venture L Herbicide**	First trifoliate leaf stage through third trifoliate leaf stage	Roundup Ready corn. Apply at the 2- to 5-leaf stage of the weed.	See additional information following this table.

* Weeds will be more easily controlled and early crop competition avoided with applications made when the weeds are small. Control of annual weeds greater than 25 centimetres in height will be inconsistent, although some weeds may be controlled.

For control of volunteer Roundup Ready corn, Venture L Herbicide may be tank mixed with STONEWALL 540. Use 1.67 to 3.33 litres per hectare STONEWALL 540 and 0.45 - 0.60 litre per hectare of Venture L Herbicide.

The higher rate of Venture L Herbicide may be required when there are high populations of volunteer Roundup Ready corn, other grass weeds are present or when conditions at application are not favorable for weed growth.

Apply in 100 to 200 litres per hectare of clean water.

Mixing: Add and mix Venture L Herbicide as per instructions on the Venture L Herbicide label and then add STONEWALL 540 as per instructions on this label.

This tank mix is to be applied when the crop is from the first trifoliate leaf stage through third trifoliate leaf stage and when the volunteer Roundup Ready corn is at the 2- to 5-leaf stage.

A PHI (preharvest interval) of 90 days is required for the tank mix of STONEWALL 540 and Venture L Herbicide on Roundup Ready 2 Yield and Roundup Ready soybean varieties.

FirstRate is a trademark of Corteva Agriscience Canada Company.

Pursuit is a registered trademark of BASF Canada Inc.

Assure is a registered trademark of AMVAC.

Venture is a registered trademark of a Syngenta Group Company.

7.8.2 WEED CONTROL IN ROUNDUP READY 2™ XTEND SOYBEANS AND XTENDFLEX™ SOYBEANS

STONEWALL 540 and XtendiMAX with VaporGrip Technology Herbicide Use In Roundup Ready 2 Xtend Soybeans and XtendFlex™ Soybeans

WARNING: THIS TANK MIXTURE CAN ONLY BE APPLIED TO SOYBEAN VARIETIES DESIGNATED AS ROUNDUP READY 2 XTEND AND XTENDFLEX. DO NOT APPLY THIS TANK MIXTURE TO ROUNDUP READY 2 YIELD OR ROUNDUP READY SOYBEAN VARIETIES.

For control of many annual and perennial broadleaf weeds, as well as residual suppression or control of small seeded broadleaf weeds, apply Xtendimax with VaporGrip Technology at 823 mL to 1.71 L/ha plus STONEWALL 540 at 1.67 L/ha to 4.67 L/ha in a minimum spray volume of 100 L/ha.

Pre-Harvest Interval(s):

- 7-10 days for soybean forage and 13–15 days for soybean hay.

Apply XTENDIMAX WITH VAPORGRIP TECHNOLOGY HERBICIDE to weeds <10 cm.

Do not apply this tank mixture to Roundup Ready 2 Xtend soybean and XtendFlex™ Soybeans using aerial spray equipment.

7.9 WEED CONTROL IN CORN VARIETIES WITH ROUNDUP READY 2 TECHNOLOGY

WARNING: APPLY STONEWALL 540 ON ONLY CORN VARIETIES THAT ARE DESIGNATED AS CONTAINING ROUNDUP READY 2 TECHNOLOGY (I.E. CONTAINS A ROUNDUP READY GENE).

NOTE: CORN VARIETIES CONTAINING ROUNDUP READY 2 TECHNOLOGY ARE TOLERANT OF GLYPHOSATE, THE ACTIVE INGREDIENT IN STONEWALL 540. ALWAYS USE PEDIGREED (I.E. CERTIFIED) CORN SEED DESIGNATED AS CONTAINING ROUNDUP READY 2 TECHNOLOGY. CORN WHICH IS NOT DESIGNATED AS CONTAINING ROUNDUP READY 2 TECHNOLOGY MAY BE DAMAGED OR DESTROYED BY THIS TREATMENT.

DO NOT BY AIR

RATE	GROWTH	WEEDS CONTROLLED♦	COMMENTS
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(L/ha)	STAGE OF CROP		(use 100-200 L/ha water volumes)
1.67	Up to and including 8 leaf stage	<p>Velvetleaf, common ragweed, common lamb's-quarters, redroot pigweed, smooth pigweed, cocklebur, green smartweed, lady's-thumb, Pennsylvania smartweed, Eastern black nightshade, wild mustard, wild buckwheat, foxtail (green, yellow, giant), barnyard grass, crabgrass (smooth, large), quackgrass, fall panicum, wild proso millet, wild oats, volunteer barley, volunteer wheat, stinkweed, wild mustard, Russian thistle, non-Roundup Ready canola (rapeseed), hemp-nettle, kochia, chickweed, corn spurry, wild tomato, cleavers, shepherd's purse, cow cockle, night-flowering catchfly, stork's-bill, flixweed, narrow-leaved hawk's-beard</p> <p>common milkweed^{1,2}, yellow nutsedge^{1,2}, round-leaved mallow², field bindweed², perennial sow thistle, Canada thistle, wire-stemmed muhly</p>	<p>1 A single application of 1.67 L/ha will provide suppression only.</p> <p>2 For control of common milkweed, yellow nutsedge, round-leaved mallow and field bindweed, a second sequential application may be at least 2 weeks after the first application.</p> <ul style="list-style-type: none"> A second 1.67 L/ha application may be used for late weed flushes emerging after the initial treatment. Any second application must be applied no later than the 8-leaf stage of the corn. Common milkweed should be 15-60 cm in height and actively growing. Yellow nutsedge should be 5 - 15 cm in height and actively growing. Perennial sow thistle and Canada thistle should be from the rosette stage to 50 cm in height and actively growing. Wire-stemmed muhly should be 10-20 cm in height and actively growing. <ul style="list-style-type: none"> Plants not fully emerged at the time of application will escape treatment.

♦Weeds will be more easily controlled and early crop competition avoided with applications made when the weeds are small. Control of weeds greater than 25 cm in height will be inconsistent, although some weeds may be controlled.

7.9.1 TANK MIXTURES

For tank mixtures, add herbicide according to instructions on the product label, and then add STONEWALL 540 according to instructions on this label (section 5).

DO NOT APPLY BY AIR

RATE	GROWTH STAGE OF CROP	WEEDS CONTROLLED♦	COMMENTS (Use 100-200 L/ha water volumes)
1.67 L/ha STONEWALL 540 + 0.75 - 1.0 kg ai/ha atrazine*	Up to and including the 5-leaf stage.	Residual control of lamb's-quarters, redroot pigweed, common ragweed.	Tank mix should be used when only a single application timing is desired. Use the higher rate of atrazine for heavier weed infestations.
1.67 L/ha STONEWALL 540	Up to and including the 5-leaf stage.	Residual control of lamb's-quarters, redroot	Tank mix should be used when only a single

RATE	GROWTH STAGE OF CROP	WEEDS CONTROLLED♦	COMMENTS (Use 100-200 L/ha water volumes)
+ 2.5 - 3.7 L/ha Marksman Herbicide		pigweed, common ragweed, velvetleaf.	application timing is desired. Use the higher rate of Marksman Herbicide for heavier weed infestations.
One application of 1.67 L/ha STONEWALL 540 + 0.56 – 1.12 L/ha 2,4-D**	Before the corn is 15 cm tall (leaf extended) and/or before the 6-leaf stage.	Volunteer Roundup Ready canola – up to the 4-leaf stage.	Tank mix is most effective when treating small (4 leaf or less) canola plants.
Two applications: First application: 1.67 L/ha STONEWALL 540 + 0.56 L/ha 2,4-D** Second application: 1.67 L/ha STONEWALL 540 + 0.42-0.56 L/ha 2,4-D**	Before the corn is 15 cm tall (leaf extended) and/or before the 6-leaf stage.	Volunteer Roundup Ready canola – up to the 4-leaf stage.	Tank mix is most effective when treating small (4 leaf or less) canola plants.
1.67 L/ha STONEWALL 540 + 13.3 g/ha Peak 75WG Herbicide + 0.3 L/ha Banvel II Herbicide + non ionic surfactant (0.2% v/v)	Spike up to and including the 5-leaf stage.	Volunteer Roundup Ready canola – up to the 4-leaf stage.	Tank mix is most effective when treating small (4 leaf or less) canola plants.
1.67 L/ha STONEWALL 540 + 0.21 L/ha Callisto® 480SC Herbicide	3 - 8 leaf stage of corn	Eastern black nightshade, velvetleaf, redroot pigweed, common ragweed (suppression only) plus emerged annual and perennial weeds	Add Agral 90° at 0.2% v/v Apply up to the 8-leaf stage of broadleaf weeds Some perennial weeds may not be controlled with these rates
1.67 L/ha STONEWALL 540 + 0.21 L/ha Callisto 480SC Herbicide + 0.58 L/ha Aatrex Liquid 480 Herbicide	3 - 8 leaf stage of corn	Eastern black nightshade, velvetleaf, redroot pigweed, common ragweed plus emerged annual and perennial weeds	Add Agral 90° at 0.2% v/v Apply up to the 8-leaf stage of broadleaf weeds Some perennial weeds may not be controlled with these rates
1.67 L/ha STONEWALL 540 + 2.5 L/ha Primextra® II Magnum® Herbicide	Apply up to and including 6 leaf stage of corn.	Annual grasses and broadleaf weeds, emerged annual or perennial weeds	This tank mix requires the use of a surfactant. AGRAL 90° or Ag-Surf° may be used. Do NOT apply this tank mix to soils with less than

RATE	GROWTH STAGE OF CROP	WEEDS CONTROLLED♦	COMMENTS (Use 100-200 L/ha water volumes)
			1% or more than 10% organic matter
1.67 L/ha STONEWALL 540 + 0.625 L/ha Banvel II Herbicide	Spike to 5 leaf	Weeds controlled by STONEWALL 540 plus improved control of Velvetleaf and extended control of late germinating, deep rooted annuals on the Banvel II Herbicide label.	
1.67 L/ha STONEWALL 540 + 285 g/ha Distinct Herbicide + Non ionic surfactant + 28% UAN	2 to 6 leaf	Weeds controlled by STONEWALL 540 plus extended control of late emerging weeds listed on the Distinct Herbicide label.	Non-ionic surfactant applied at 0.2% v/v 28% UAN applied at 1.25%v/v
1.67 L/ha STONEWALL 540 + 1.25 L/ha Dual II Magnum Herbicide + 1.0 kg ai/ha atrazine*	Spike to 6 leaf	Weeds controlled by STONEWALL 540 plus extended control of annual grass and broadleaf weeds on the tank mix partner labels.	
1.67 L/ha STONEWALL 540 + 0.21 L/ha Callisto 480SC Herbicide + Non ionic surfactant	3 to 8 leaf stage of corn	Weeds controlled by STONEWALL 540 plus extended control of eastern black nightshade, velvetleaf, redroot pigweed, and common ragweed.	Add non ionic surfactant at 0.2%v/v
1.67 L/ha STONEWALL 540 + 2.5 - 3.0 L/ha Primextra II Magnum Herbicide	Spike to 6 leaf stage of corn	Weeds controlled by STONEWALL 540 plus extended control of annual grass and broadleaf weeds on the Primextra II Magnum Herbicide label.	

* 0.75 to 1.0 kilogram active ingredient atrazine per hectare is equivalent to 1.56 to 2.08 litres per hectare of Aatrex Liquid 480™ Herbicide.

** 500 g ai/litre of 2,4-D formulation. Adjust rates accordingly for other 2,4-D formulations. Use only low volatile ester or amine formulations of 2,4-D. Some corn hybrids may be injured by an application of 2,4-D. It is recommended that the corn seed provider be contacted regarding the tolerance of the corn hybrid to be treated, to 2,4-D prior to application of this tank mix.

♦ Weeds will be more easily controlled and early crop competition avoided with applications made when the weeds are small. Control of weeds greater than 25 centimetres in height will be inconsistent, although some weeds may be controlled.

◇ Choose one of Agral 90 Non-Ionic Wetting & Spreading Agent Liquid or Agral 90 Non-Ionic

Liquid Wetting & Spreading Agent.

∞ Choose one of IPCO Ag-Surf Original, IPCO Ag-Surf II, Weedaway Ag-Surf Liquid Spray Adjuvant or Weedaway Ag-Surf II.

Aatrex is a registered trademark of a Syngenta Group Company.
Marksman is a registered trademark of BASF Canada Inc.

7.10 WEED CONTROL IN SWEET CORN VARIETIES WITH ROUNDUP READY 2 TECHNOLOGY

WARNING: APPLY STONEWALL 540 ON ONLY SWEET CORN VARIETIES THAT ARE DESIGNATED AS CONTAINING ROUNDUP READY 2 TECHNOLOGY (I.E. CONTAINS A ROUNDUP READY GENE).

NOTE: SWEET CORN VARIETIES CONTAINING ROUNDUP READY 2 TECHNOLOGY ARE TOLERANT OF GLYPHOSATE, THE ACTIVE INGREDIENT IN STONEWALL 540. ALWAYS USE PEDIGREED (I.E. CERTIFIED) SWEET CORN SEED DESIGNATED AS CONTAINING ROUNDUP READY 2 TECHNOLOGY. SWEET CORN WHICH IS NOT DESIGNATED AS CONTAINING ROUNDUP READY 2 TECHNOLOGY MAY BE DAMAGED OR DESTROYED BY THIS TREATMENT.

WEED CONTROL:

RATE	GROWTH STAGE OF CROP	WEEDS CONTROLLED♦	COMMENTS (Use 100-200 L/ha water volumes)
1.67	Up to and including 8 leaf stage	See Weeds Controlled in Section 7.7 Table	<ul style="list-style-type: none">• See Comments in Section 7.7 Table• A second 1.67 L/ha application may be used for late weed flushes emerging after the initial treatment.• Any second application must be applied no later than the 8-leaf stage of the corn.
3.33	Up to and including 6 leaf stage	See Weeds Controlled in Section 7.7 Table	<ul style="list-style-type: none">• See Comments in Section 7.7 Table• Only one application per season at 3.33 L/ha.

* Weeds will be more easily controlled and early crop competition avoided with applications made when the weeds are small. Control of weeds greater than 25 cm in height will be inconsistent, although some weeds may be controlled.

* Plants not fully emerged at the time of application will escape treatment.

TANK MIXES - Do not apply Tank Mixes to sweet corn varieties with Roundup Ready 2 Technology

Allow a minimum of 30 days between application of this product and harvest.

DO NOT APPLY BY AIR

7.11 WEED CONTROL IN ROUNDUP READY SUGAR BEETS

WARNING: APPLY STONEWALL 540 ON ROUNDUP READY SUGAR BEET VARIETIES ONLY.

NOTE: ALWAYS USE PEDIGREED (CERTIFIED) SUGAR BEET SEED DESIGNATED AS ROUNDUP READY. SUGAR BEETS WHICH ARE NOT DESIGNATED AS ROUNDUP READY WILL BE DAMAGED OR DESTROYED BY THIS TREATMENT.

DO NOT APPLY BY AIR.

For weed control in Roundup Ready sugar beets apply 0.83 – 1.67 L/ha of STONEWALL 540 to emerged weeds. Refer to “**Annual Weed Control**” and “**Perennial Weed Control**” (Sections 7.1 and 8.1, respectively) for a listing of weeds controlled.

Apply STONEWALL 540 to emerged weeds up to 15 cm in height.

Up to four applications of STONEWALL 540 may be applied to Roundup Ready sugar beets.

Allow a minimum of 10 days between applications.

Do not harvest Roundup Ready sugar beets within 30 days after the final application of STONEWALL 540.

7.12 WEED CONTROL IN ROUNDUP READY ALFALFA VARIETIES (DO NOT APPLY TO ALFALFA GROWN FOR SEED PRODUCTION)

WARNING: APPLY STONEWALL 540 TO ROUNDUP READY ALFALFA VARIETIES ONLY.

NOTE: ALWAYS USE PEDIGREED (I.E. CERTIFIED) ALFALFA SEED DESIGNATED AS ROUNDUP READY. ALFALFA SEED WHICH IS NOT DESIGNATED AS ROUNDUP READY WILL BE DAMAGED OR DESTROYED BY THIS TREATMENT.

ROUNDUP READY ALFALFA VARIETIES ARE TOLERANT OF GLYPHOSATE, THE ACTIVE INGREDIENT IN STONEWALL 540.

DO NOT APPLY BY AIR.

Applications can be made from emergence until 5 days prior to cutting.

A sequential treatment may be applied to Roundup Ready alfalfa varieties for control of late weed flushes.

Allow a minimum of 5 days between application and cutting of alfalfa.

Additional applications of this product should be at least 25 days apart.

Total number of in-crop applications not to exceed 3 per growing season.

New Stand Establishment (Seedling Year): Due to the biology and breeding constraints of alfalfa, up to 10 percent of the seedlings may not contain a Roundup Ready gene and will not survive or thrive after the first application of this product. To limit the undesirable effects of stand gaps created by the loss of alfalfa plants not containing a Roundup Ready gene, an application of this product should be applied at or before the 4 trifoliate leaf stage of alfalfa during the establishment (seedling) year.

Note: Where Roundup Ready alfalfa is grown with a companion or cover crop, or is overseeded with a second species, in-crop (over-the-top) applications of this product will eliminate the non-Roundup Ready (non-glyphosate tolerant) species.

WEED CONTROL IN ROUNDUP READY ALFALFA VARIETIES

RATE	GROWTH STAGE OF CROP	WEEDS CONTROLLED♦	COMMENTS (Apply in 50 –100 L/ha water)
1.67 single application	Emergence until 5 days prior to cutting	<p>Annual Grasses Wild oats, green foxtail, volunteer barley, volunteer wheat, barnyard grass, giant and yellow foxtail, fall Panicum, wild proso millet, smooth and large crabgrass</p> <p>Annual Broadleaves Stinkweed, redroot pigweed, wild mustard, Russian thistle, lamb's-quarters, non-Roundup Ready volunteer canola (rapeseed), hempnettle, lady's-thumb, kochia, chickweed, corn spurry, wild tomato, cleavers, wild buckwheat, shepherd's purse, cow cockle, night-flowering catchfly, smartweed, stork's-bill, flixweed, narrow-leaved hawk's beard, smooth pigweed, cocklebur, Eastern black nightshade, velvetleaf, biennial wormwood¹.</p> <p>Perennials (season-long control) Quackgrass, Canada thistle, and perennial sow thistle, foxtail barley, dandelion.</p>	<p>All weeds should be actively growing at time of application. ¹Biennial wormwood should be at 2-8 leaf stage.</p>
3.33 single application	Emergence until 5 days prior to cutting	<p>All the above weeds plus: Annual Broadleaves Round-leaved mallow</p> <p>Perennials (season-long control): Foxtail barley², dandelion², common milkweed³, field bindweed, yellow nutsedge⁴, horsenettle⁵, tall waterhemp⁶, bur cucumber⁷</p>	<p>²3.33 L/ha rate is for large, more established plants, heavy infestation or if plants are stressed.</p> <p>³Common milkweed should be 15-60 cm in height.</p> <p>⁴Yellow nutsedge should be 5-15 cm in height.</p> <p>⁵Horse-nettle from the 2 to 12 leaf stage).</p> <p>⁶Tall waterhemp up to and including the 18-leaf stage.</p> <p>⁷Bur cucumber from the 1-18 leaf stage.</p>

8.0 PERENNIAL WEED CONTROL

ALWAYS READ PRECAUTIONS, GENERAL INFORMATION AND MIXING AND APPLICATION SECTIONS (3.0, 4.0 AND 5.0) PRIOR TO SPECIFIC APPLICATION INFORMATION IN ANY LABEL SECTION. DO NOT APPLY BY AIR.

When applied as recommended under the conditions described, this product will control the perennial weeds listed in the following table.

8.1 PERENNIAL WEED CONTROL WITH STONEWALL 540

WEED	APPLICATION:			COMMENTS
	GROWTH STAGE	RATE (L/ha)	WATER VOLUME (L/ha)	
Quackgrass (control, light to moderate infestations)	3 to 4 green leaves or more	1.67	50 - 300	<p>Apply in clean water using flat fan nozzles.</p> <p>Allow 3 or more days after treatment before tillage.</p> <p>Refer to "Quackgrass" notes in section 8.2.1 for more information.</p> <p>For higher volumes (i.e., 150 - 300 L/ha) an approved surfactant must be added at 0.5 L per 100 L of clean water (0.5% v/v). Refer to list in section 8.2.2. See also below.</p>
Quackgrass (long term control, heavy infestations, high water volumes)	3 to 4 green leaves or more	1.67 - 4.67	50 - 300	<p>Allow 3 or more days after treatment before tillage.</p> <p>Rates higher than 1.67 L/ha will provide more consistent, longer term control, especially with heavier infestations and/or higher water volumes (i.e., 150 - 300 L/ha).</p> <p>Refer to "Quackgrass" notes in section 8.2.1 for more information.</p>
Canada Thistle	Rosette stage (summerfallow)	1.67	50 - 100	<p>Apply in clean water using flat fan nozzles.</p> <p>Allow 10 or more days after treatment before tillage.</p> <p>Refer to "Canada Thistle" notes in section 8.2.3 for more information.</p>
Canada Thistle	Bud stage or beyond	3.17 – 4.67	100 - 300	<p>Allow 5 or more days after treatment before tillage.</p>
Field Bindweed	Full bloom or beyond	4.67 – 8.0	100 - 300	<p>Allow 7 or more days after treatment before tillage.</p>
Common Milkweed*	Bud to full bloom (preharvest)	1.67	50 – 100	<p>See "Preharvest Treatment" (section 9.9) for more information.</p>
	Bud to full bloom	8.0	100 – 300	<p>Allow 7 or more days after treatment</p>

WEED	APPLICATION:			COMMENTS
	GROWTH STAGE	RATE (L/ha)	WATER VOLUME (L/ha)	
				<p>before tillage.</p> <p>Reduced control may occur after full bloom.</p> <p>Common milkweed may not all be in the correct stage, therefore, repeat treatments may be required.</p>
Toadflax	<p>Vegetative Stage (summer fallow)</p> <p>Bud to full bloom (preharvest)</p>	1.67	50 – 100	<p>Apply in clean water using flat fan nozzles.</p> <p>Allow 7 or more days after treatment before tillage in summerfallow.</p> <p>For more information, see "Toadflax Control" (section 8.2.4), or "Preharvest Treatment" (Section 9.9).</p>
Alfalfa	<p>Early bud to full bloom stage</p> <p>Fall applications only</p>	2.47 – 3.33	50 - 300	<p>Allow 5 or more days after treatment before tillage. Use the higher rates when alfalfa populations are high or when heavy grass infestations are also present.</p> <p>For spring applications and control in minimum tillage systems using 2,4-D tank mix, see Section 8.2.6.</p>
Dandelion	<p>< 15 cm</p> <p>> 15 cm</p> <p>Rosette to full bloom (preharvest)</p>	<p>1.67</p> <p>2.47 - 3.33</p> <p>1.67</p>	<p>50 - 100</p> <p>50 - 300</p> <p>50 - 100</p>	<p>Allow 3 or more days after treatment before tillage for all rates.</p> <p>Use the higher rate when infestations are heavy.</p> <p>Refer to "Dandelion" notes in section 8.2.5 for more information.</p> <p>Allow 7 or more days after treatment before tillage. For more information, see "Preharvest Treatment" (section 9.9).</p>
Foxtail Barley	Seedling to heading	1.67 - 3.33	50 - 100	<p>Allow a minimum of 1 day after treatment before tillage or seeding.</p> <p>Use higher rates for larger, more established plants, heavy infestations or if plants are stressed.</p>
Other Perennials (see listing section 6.2)	Early heading or early bud stage	4.67 - 8	100 - 300	<p>Allow 7 or more days after treatment before tillage.</p>

*NOTE: For spot treatment, mix 80 millilitres of product in 5 litres of clean water per 100 m² (1.67 - 8 litres per hectare is approximately equivalent to 17 - 80 mL/100m², respectively).

8.2 SPECIAL NOTES FOR PERENNIAL WEED CONTROL

8.2.1 QUACKGRASS

For **season-long control on fall tilled ground**: Apply 1.67 litres per hectare of this product in spring prior to seeding. Apply in 50 to 100 litres per hectare of clean water as described in the preceding table. Delay application until the majority of quackgrass plants have 4 to 5 green leaves. This stage usually occurs 1 to 4 weeks later on fall tilled ground than on undisturbed ground. Reduced control may result on ground tilled deeper than 15 centimetres.

NOTE: This treatment will provide season-long control of quackgrass on fall tilled ground. Reduced control will be experienced versus this product on non-fall tilled ground. Repeat treatments may be necessary.

Applications on forages should be followed by tillage 3 days or later and should be made when good growing conditions exist.

If a frost has occurred, wait several days to determine if the quackgrass has recovered. Quackgrass can be treated after a mild frost provided there are 3 to 4 green leaves actively growing at the time of application. Do not apply after the first damaging frost in the fall.

8.2.2 SURFACTANT INFORMATION

The following is a list of approved surfactants for use with STONEWALL 540 for control of quackgrass:

Class Act NG

Agral 90[◇]

Ag Surf^{◇◇}

[◇] Choose one of Agral 90 Non-Ionic Wetting & Spreading Agent Liquid or Agral 90 Non-Ionic Liquid Wetting & Spreading Agent.

^{◇◇} Choose one of IPCO Ag-Surf Original, IPCO Ag-Surf II, Weedaway Ag-Surf Liquid Spray Adjuvant or Weedaway Ag-Surf II.

8.2.3 CANADA THISTLE

Control of Canada Thistle at the rosette stage: to ensure the proper timing of application the following steps must be followed:

- 1 Conduct summer fallow tillage as usual and perform the last tillage operation between July 15th and August 1st.
- 2 Allow the thistles to regrow for a minimum of 5 weeks until they are a minimum of 15 centimetres in diameter and in the rosette stage of growth.

NOTE: Canada thistle can be treated after a mild frost provided the leaves are still green and actively growing at the time of application. Do not apply after the first damaging frost in the fall.

STONEWALL 540 PLUS BANVEL II HERBICIDE TANK MIXTURES

For control of Canada thistle (and perennial sow thistle) in summerfallow or in postharvest stubble, apply 1.13 litres per hectare STONEWALL 540 plus 1.25 litres per hectare Banvel II Herbicide in 100 - 200 litres per hectare of clean water. In addition, add 350 millilitres per hectare of a non-ionic surfactant registered for use with this product, such as Class Act NG, Agral 90[◇], or Ag-Surf^{◇◇}.

◇ Choose one of Agral 90 Non-Ionic Wetting & Spreading Agent Liquid or Agral 90 Non-Ionic Liquid Wetting & Spreading Agent.

◇◇ Choose one of IPCO Ag-Surf Original, IPCO Ag-Surf II, Weedaway Ag-Surf Liquid Spray Adjuvant or Weedaway Ag-Surf II.

For best results in summerfallow, cultivate in the spring and apply when the majority of thistles are 15 centimetres to 25 centimetres tall and before the bud stage. Cultivate 3 weeks after application.

In postharvest stubble, apply this tank mixture to actively growing thistles at least 2 weeks prior to a damaging frost.

NOTE: Grow only cereals, canola (including rapeseed), soybeans, field corn, sweet corn, or white beans after application of this tank mixture.

If application is made after September 1st, or if soil moisture levels are extremely low after application, crop injury may occur in the spring following application.

8.2.4 TOADFLAX

Control of Toadflax in a Summer fallow Vegetative Stage

To ensure the proper timing of application, the following steps must be followed:

1. Conduct summerfallow tillage as usual and perform the last tillage operation between July 10th to July 21st.
2. **Allow toadflax to regrow for a minimum of 4 to 5 weeks until they are minimum of 15 centimetres tall and at a lush green vegetative stage.**

NOTE: Toadflax can be treated after a mild frost provided the leaves are still green and actively growing at the time of application. Do not apply after the first damaging frost.

8.2.5 DANDELION

Applications should be made up to and including bloom for best results. Follow-up control measures should be used to manage new dandelions germinating from seed to maintain control throughout the season.

8.2.6 ALFALFA CONTROL WITH 2,4-D TANK MIX

The addition of 2,4-D may improve alfalfa control in situations where control may be more difficult to obtain, such as in minimum tillage systems where populations are heavy, and with spring applications.

For fall control of established stands of alfalfa, apply 1.67 to 3.33 litres per hectare STONEWALL 540 and 1.2 to 2.4 litres per hectare of any 500 grams per litre 2,4-D amine or low volatile ester formulation in 100 to 200 litres of water per hectare. (Adjust product rates accordingly for other 2,4-D formulations).

For spring applications, use only the low rate of 2,4-D (i.e., 1.2 litres per hectare) and 1.67 to 3.33 litres per hectare STONEWALL 540. Only cereal crops not underseeded to legumes may be planted following spring applications of this tank mix, and a 14-day interval between application and planting is required.

Use the higher STONEWALL 540 rates when perennial grasses are prevalent.

8.2.6.1 REMOVAL OF ROUNDUP READY ALFALFA – TANK MIXES

The addition of a tank mix partner is required to remove a stand of Roundup Ready alfalfa. Herbicide applications should be made in the fall when the Roundup Ready Alfalfa is at the bud stage of growth. Tillage at 2-3 weeks following herbicide application can improve control and consistency under stressed conditions (drought, frost, cold temperatures).

Use the following products and rates to control Roundup Ready alfalfa plus annual and perennial weeds (See Sections 7.1 and 8.1).

- Mix with water to achieve a total applied volume of 100 L/ha.
- Apply to Roundup Ready alfalfa in the pre-bud to start of flowering stage.
- Best control achieved when the majority of plants are in the bud stage of development

STONEWALL 540 at 1.67-3.34 L/ha plus only one of the following Tank Mix Products:

- 2,4-D* at 1.52 L/ha or:
- Banvel II Herbicide at 1.25 L/ha or:
- Lontrel 360 Herbicide or Spur 360 at 0.56-0.83 L/ha or:
- 2,4-D* at 1.05 L/ha + Banvel II Herbicide at 1.25 L/ha or:
- 2,4-D* at 1.05 L/ha + Lontrel 360 Herbicide or Spur 360 at 0.42 L/ha or:
- Curtail M or Spur-M at 2.0 - 3.0 L/ha

*rate for a 564 g ae/L formulation of 2,4-D. Adjust rates for other formulations.
Includes both amine and ester formulations.

8.2.7 ALL PERENNIAL WEEDS

Weed Stages: Weeds must be at the proper stage for effective control. Refer to "Perennial Weed Control with STONEWALL 540" (section 8.1).

Nozzle Type: For best results with conventional boom equipment apply this product with 50 to 300 litres per hectare of clean water using flat fan nozzles and no more pressure than 275 kPa.

Rhizome Dormancy: Reduced control may result if rhizomes have become dormant. Dormancy may occur if soil fertility is low and/or the land has not been tilled for several years.

Mowing Effects: Mowing prior to application will reduce effectiveness unless weeds are allowed to regrow to the proper stage before application.

Tillage Effects: Fall or spring tillage prior to spring applications and tillage between harvesting and fall applications will reduce the effectiveness on perennial weeds. Follow-up tillage after application should be delayed 5 to 7 days for best results. See "Weed Control" tables (sections 7.1 and 8.1) for specific tillage interval for each weed.

Rainfall Effects: Heavy rainfall immediately after application may wash the chemical off the foliage and a repeat treatment may be required. Do not apply if rainfall is forecast for the time of application.

Regrowth from Germinating Seeds: This product only controls emerged plants. Repeat treatments or other weed control measures may be required to control weeds regenerating from seeds or other underground parts.

Frost Effects: Heavy frosts prior to application may reduce control. Do not apply after the first damaging frost in the fall.

9.0 CROPLAND SITUATIONS

ALWAYS READ PRECAUTIONS, GENERAL INFORMATION AND MIXING AND APPLICATION SECTIONS (3.0, 4.0 and 5.0) PRIOR TO SPECIFIC APPLICATION INFORMATION IN ANY LABEL SECTION. DO NOT APPLY BY AIR EXCEPT FOR PREHARVEST AERIAL APPLICATION (SECTION 9.9.2).

DO NOT APPLY BY AIR UNLESS SPECIFIED ON THIS LABEL

This product can be applied as a broadcast spray or spot treatment prior to planting all crops, postharvest to annual crops, preharvest in wheat, barley, oats, canola (rapeseed), flax (including low linolenic acid varieties), lentils, peas, soybeans, dry beans and forages, and in summerfallow. It may also be applied as a broadcast spray in Roundup Ready Corn 2, soybean or canola varieties (sections 7.5, 7.6 and 7.7). It may be applied as a directed spray in orchards, vineyards, blueberries and strawberries, and using selective equipment in soy and dry beans, orchards, vineyards, cranberries and strawberries (refer to specific sections below for more information). **For specific instructions on weed control in the following cropping situations, always refer to "Annual and Perennial Weed Control" (sections 7.0 and 8.0) for more information.**

9.1 PRIOR TO PLANTING - ALL CROPS

This product may be applied prior to planting all crops for control of emerged weeds listed on this label. Ensure weeds are at the desired stage at the time of application. This product does not provide preemergent weed control and newly germinating weeds may be a problem in the crop.

APPLY BEFORE SEEDING OR TRANSPLANTING.

9.1.1 PRIOR TO PLANTING - TANK MIXES* - SOYBEANS

WHERE TANK MIX PARTNER LABELS REFER ONLY TO OLDER (360 G/L) GLYPHOSATE PRODUCTS, ENSURE THAT THE LABEL RATE IS ADJUSTED TO COMPENSATE FOR THIS MORE CONCENTRATED PRODUCT.

STONEWALL 540 plus Pursuit Herbicide

STONEWALL 540 plus Pursuit Herbicide can be applied prior to or after seeding, but before crop emergence. STONEWALL 540 will control emerged weeds listed on this label when applied as directed (refer to Annual and Perennial Weed control sections in the STONEWALL 540 product label). Pursuit Herbicide will control weeds germinating from seed.

ONLY SOYBEANS, WHITE BEANS, KIDNEY BEANS, PROCESSING PEAS, FIELD CORN, SPRING BARLEY, SPRING WHEAT AND WINTER WHEAT MAY BE PLANTED THE SEASON FOLLOWING A PURSUIT HERBICIDE APPLICATION. WINTER WHEAT MAY BE PLANTED THE SAME YEAR AS A PURSUIT HERBICIDE APPLICATION TO SOYBEANS, BUT NOT EARLIER THAN 100 DAYS AFTER THE APPLICATION.

DO NOT APPLY AFTER CROP EMERGENCE

STONEWALL 540 plus metribuzin (Sencor 75 DF, Sencor 480 F, or Lexone DF Herbicide Dispersible Granules)

For burndown and residual control of selected annual weeds taller than 4 cm in soybeans, apply STONEWALL 540 in tank mix with Sencor 75 DF, Sencor 480 F or Lexone DF Herbicide Dispersible Granules as a preplant surface or pre-emergence application before crop emergence.

STONEWALL 540 plus Dual Magnum Herbicide or Dual II Magnum Herbicide

For burndown and residual control of selected annual weeds in soybeans. Apply STONEWALL 540 in tank mix with Dual Magnum Herbicide or Dual II Magnum Herbicide at 1.15- 1.75 L/ha as a preplant surface (up to 30 days before planting) or pre-emergence application before crop emergence.

Perennial weeds such as quack grass may not be controlled with lower rates of STONEWALL 540. Use higher rates of STONEWALL 540 if perennial weeds are present.

STONEWALL 540 plus Dual Magnum Herbicide or Dual II Magnum Herbicide plus metribuzin (Sencor 75 DF, Sencor 480 F or Lexone DF Herbicide Dispersible Granules)

For burndown and residual control of selected annual weeds in soybeans. Apply as a preplant surface (up to 30 days before planting) or pre-emergence application before crop emergence. Perennial weeds such as quack grass may not be controlled with lower rates of STONEWALL 540.

9.1.2 PRIOR TO PLANTING - TANK MIXES* - CORN

WHERE TANK MIX PARTNER LABELS REFER ONLY TO OLDER (360 G/L) GLYPHOSATE PRODUCTS, ENSURE THAT THE LABEL RATE IS ADJUSTED TO COMPENSATE FOR THIS MORE CONCENTRATED PRODUCT.

STONEWALL 540 plus Dual Magnum Herbicide or Dual II Magnum Herbicide

For burndown and residual control of selected annual weeds in corn. Apply STONEWALL 540 in tank mix with Dual Magnum Herbicide or Dual II Magnum Herbicide at 1.25 to 1.75 L/ha as a preplant surface (up to 30 days before planting) or pre-emergence application before crop emergence.

NOTE: The use on corn is for EASTERN CANADA ONLY.

Perennial weeds such as quack grass may not be controlled with lower rates of STONEWALL 540. Use higher rates of STONEWALL 540 if perennial weeds are present.

STONEWALL 540 plus Dual Magnum Herbicide or Dual II Magnum Herbicide plus Aatrex Liquid 480 Herbicide

For burndown and residual control of selected annual weeds in corn. Apply STONEWALL 540 in tank mix with Dual Magnum Herbicide or Dual II Magnum Herbicide at 1.25 – 1.75 L/ha plus Aatrex Liquid 480 Herbicide at 2.1 - 3.1 L/ha as a preplant surface (up to 30 days before planting) or pre-emergence application before crop emergence.

NOTE: The use on corn is for EASTERN CANADA ONLY.

Perennial weeds such as quack grass may not be controlled with lower rates of STONEWALL 540. Use higher rates of STONEWALL 540 if perennial weeds are present.

STONEWALL 540 plus Primextra II Magnum Herbicide

For burndown and residual control of selected annual weeds in corn apply STONEWALL 540 plus Primextra II Magnum Herbicide preplant surface or preemergence application before crop emergence. This tank mixture requires the use of a surfactant, either Agral 90[◇] or Ag-Surf^{◇◇}. See mixing instructions for more information.

◇ Choose one of Agral 90 Non-Ionic Wetting & Spreading Agent Liquid or Agral 90 Non-Ionic Liquid Wetting & Spreading Agent.

◇◇ Choose one of IPCO Ag-Surf Original, IPCO Ag-Surf II, Weedaway Ag-Surf Liquid Spray Adjuvant or Weedaway Ag-Surf II.

Perennial weeds such as quack grass may not be controlled with lower rates of STONEWALL 540. Use higher rates of STONEWALL 540 if perennial weeds are present.

STONEWALL 540 plus Converge 75 WDG Herbicide

Surface Preplant:

CONVERGE 75 WDG Herbicide can be applied to the soil surface up to 14 days prior to planting. CONVERGE 75 WDG Herbicide must be tankmixed with atrazine when applied as a surface preplant application. When weed growth is present at the time of application, STONEWALL 540 can be added to the Converge 75 WDG Herbicide + atrazine treatment for burndown control of these weeds. Do not incorporate.

Preemergence:

Converge 75 WDG Herbicide can also be applied after planting to just prior to crop emergence. Atrazine and/or STONEWALL 540 can be tank mixed with pre-emergent applications of Converge 75 WDG Herbicide.

Apply Converge 75 WDG Herbicide at 105-140 g per hectare, tankmixed with STONEWALL 540 at 1.67 L per hectare for burndown control of emerged weeds in all tillage management systems and improved control of established dandelion in zero-tillage management systems. A three-way tankmix of Converge 75 WDG Herbicide + atrazine + STONEWALL 540 can be used to provide residual control of the weeds listed in the Converge 75 WDG Herbicide + atrazine section.

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9.1.3 PRIOR TO PLANTING – TANK MIXES - CANOLA

STONEWALL 540 plus bromoxynil for preseed/preplant control of annual, perennial weeds and volunteer canola:

Apply STONEWALL 540 in a tank mix with bromoxynil. This tank mix will control volunteer canola (all types) in addition to control of emerged weeds listed on this label when applied as directed (refer to Annual Weed Control Section 7.0 and Perennial Weed control Sections 8.0 prior to the planting of canola (all types).

For control of volunteer canola apply bromoxynil at a rate of 350 g/ha (e.g., 1.25 L/ha for herbicides containing 280 g/L bromoxynil, 1.5 L/ha for herbicides containing 235 g/L bromoxynil etc.) tank mixed with STONEWALL 540 at 0.83 -1.27 L/ha (annual weeds) or 1.67-3.33 L/ha (perennial weeds) prior to the planting of canola.

9.2 POSTHARVEST STUBBLE TREATMENT

This product may be applied in the fall as a postharvest stubble treatment for control of perennial weeds such as quackgrass and Canada thistle. Allow weeds to regrow to the desired stage (20 to 25 centimetres tall for quackgrass and Canada thistle) before application and ensure they have a high proportion of green colouration. Straw should be removed or evenly spread to allow for proper regrowth and spray coverage. Heavy frosts prior to application may decrease control.

9.3 SPOT TREATMENT (IN-CROP)

This product can be applied as an in-crop spot treatment in barley, corn, oats, soybeans, wheat, strawberry, blueberry, forage grasses and legumes including seed production. Applications should be made using the same rates and at the same growth stages as listed in the "Weed Control" tables (sections 7.1 and 8.1) or use a 0.67 percent solution for annual weeds and quackgrass and a 1.34 percent solution for other perennial weeds (a 0.67 percent solution equals 0.67 litres of STONEWALL 540 in 100 litres of spray solution). 0.67 and 1.34 percent solutions should be applied to wet, but not run off. Applications can be made using a boom

sprayer, hose and handgun, or hand sprayer in accordance with instructions in "Application Equipment" (section 5.2).

9.3.1 GRAZING RESTRICTIONS:

Applications can be made up to heading of small grains, initial pod set on soy and dry beans, silking of corn and emergence of seed heads. The crop in the treated area will be killed. Take care to avoid drift for the same reason. **DO NOT APPLY IF CROP GROWTH HAS ADVANCED BEYOND SEED SET. ALLOW 3 TO 5 DAYS FOR STONEWALL 540 TO TRANSLOCATE INTO ALL PLANT PARTS BEFORE GRAZING OR HARVESTING TREATED AREAS IN FORAGES.**

9.4 SUMMERFALLOW TREATMENT

This product, or labeled tank mixtures, may be applied in summerfallow to control weeds listed on this label. Ensure weeds are at the desired growth stage and actively growing at application for best results. Reduced control may result if weeds are drought stressed. Weeds will continue to germinate from seed throughout the growing season. Repeat treatments may be necessary to control later germinating weeds.

9.5 MINIMUM AND ZERO TILLAGE CROPPING SYSTEMS (ALL FIELD CROPS, INCLUDING CEREALS, OILSEEDS, PULSES, FORAGES, CORN AND POTATOES)

This product may be applied prior to seeding or after seeding, but before crop emergence for control of emerged weeds in minimum and zero tillage cropping systems for all field crops. Applications made too far in advance of seeding may allow weeds to emerge between application and crop emergence, as this product does not provide residual weed control.

Minimum and Zero Tillage Tank Mixtures

9.5.1 STONEWALL 540 plus 2,4-D amine or ester can be applied prior to seeding or after seeding, but before crop emergence in **wheat, winter wheat, barley and rye**. Refer to "Annual Weed Control with STONEWALL 540 Tank Mixtures" table for information (section 7.2).

9.5.2 STONEWALL 540 plus bromoxynil (Pardner Herbicide or Brox 240 EC) can be applied prior to seeding or after seeding, but before crop emergence in wheat, barley and oats. Refer to "Annual Weed Control with STONEWALL 540 Tank Mixtures" table for information (section 7.2).

9.5.3 STONEWALL 540 plus Pursuit® Herbicide can be applied prior to, or after seeding, but before crop emergence in soybeans. STONEWALL 540 will control emerged weeds listed on this label when applied as directed (refer to "Annual and Perennial Weed Control" section 7.0 and 8.0). Pursuit Herbicide will control weeds germinating from seed. Add the recommended rates of both products in 100 litres of water per hectare, following the instructions on the Pursuit Herbicide label.

ONLY SOYBEANS, FIELD CORN, SPRING BARLEY, SPRING WHEAT AND WINTER WHEAT MAY BE PLANTED THE SEASON FOLLOWING A PURSUIT HERBICIDE APPLICATION. WINTER WHEAT MAY BE PLANTED THE SAME YEAR AS A PURSUIT HERBICIDE APPLICATION TO SOYBEANS, BUT NOT EARLIER THAN 120 DAYS AFTER THE APPLICATION.

DO NOT APPLY AFTER CROP EMERGENCE.

Pursuit is a registered trademark of BASF Canada Inc.

9.5.4 STONEWALL 540 plus MCPA can be applied prior to seeding in wheat, barley, rye, oats, corn (field and sweet; MCPA amine only), flax and field peas (MCPA amine only). Refer to "Annual Weed Control with STONEWALL 540 Tank Mixtures" table for information (section 7.2).

9.5.5 STONEWALL 540 plus Brox M or Buctril M can be applied prior to seeding in **wheat, rye, corn, barley, oats, flax, canary seed and seedling grasses (including brome grass, crested wheatgrass, intermediate wheat grass, slender wheatgrass, tall wheatgrass, Russian wild rye, timothy, orchard grass, creeping red fescue, meadow fescue, meadow foxtail, seedling tall fescue, seedling meadow brome grass, seedling streambank wheatgrass and reed canary grass)**. Refer to "Annual Weed Control with STONEWALL 540 Tank Mixtures" table for information (section 7.2).

9.5.6 STONEWALL 540 plus MCPA amine can be applied prior to seeding in lentil and chickpea. Refer to "Annual Weed Control with STONEWALL 540 Tank Mixtures" table for information (section 7.2).

9.5.7 STONEWALL 540 plus Cleat in pre-seed situations, wheat and barley may be seeded after a minimum of 24 hours after application. Refer to "Annual Weed Control with STONEWALL 540 Tank Mixtures" table for information (section 7.2).

9.5.8 STONEWALL 540 plus Banvel II Herbicide can be applied prior to seeding in **wheat, barley, rye, oats and field corn only (do not apply prior to seeding sweet corn)**. Refer to "Annual Weed Control with STONEWALL 540 Tank Mixtures" table for information (section 7.2).

9.6 FORAGES LEGUMES AND GRASSES

This product may be applied for control of emerged weeds prior to emergence of forage legumes and grasses. If the forages are to be under-seeded with a cover crop, this product must be applied prior to planting the cover crop.

9.7 PASTURE RENOVATION

Use this product to control or suppress existing vegetation for zero-tillage seeding of legumes into established sod for pasture renovation. Delay spraying until weed growth is at least 20 centimetres in height and a maximum number of seedlings or shoots have emerged. Application can be made immediately before, during or after seeding, but before crop emergence.

9.8 FORAGE SEED PRODUCTION

For spot treatment control of perennial weed problems such as quackgrass and Canada thistle in seed fields, apply as directed to vegetation that is at least 20 to 25 centimetres in height but before emergence of seed head. The crop in the treated areas will be killed. Take care to avoid drift outside target areas for the same reason.

9.9 PREHARVEST TREATMENT

CONTROL OF QUACKGRASS, CANADA THISTLE, MILKWEED, TOADFLAX AND DANDELION; SEASON-LONG CONTROL OF PERENNIAL SOW THISTLE, AND HARVEST MANAGEMENT

For control of quackgrass, Canada thistle, common milkweed, toadflax and dandelion; and season-long control of perennial sow thistle, STONEWALL 540 can be applied prior to harvest of wheat, barley (including malting barley), oats, canola (rapeseed) (including Roundup Ready varieties), flax (including low linolenic acid varieties), lentils, peas, dry beans, soybeans (including Roundup Ready varieties) and forages. DO NOT apply to crops if grown for seed production.

This treatment may also provide harvest management benefits, by drying down crop and weed vegetative growth, for example, where late flushes of annual weeds, green vegetative crop growth, or late tillering may interfere with harvest operations. EXTREMELY COOL, WET AND/OR CLOUDY WEATHER CONDITIONS BETWEEN THE TIME OF APPLICATION AND THE ANTICIPATED HARVEST DATE MAY SLOW DOWN ACTIVITY OF THIS PRODUCT, THEREBY DELAYING CROP DRYDOWN AND HARVEST DATE. Preharvest treatment to Roundup Ready varieties of canola and soybean provides weed control only.

STONEWALL 540 should be applied preharvest at 1.67 litres per hectare in 50 to 100 litres per hectare of clean water, by ground application only. Apply only when the crop has 30 percent or less grain moisture content. This stage typically occurs 7 to 14 days before harvest. For forage crops, apply this product at 1.67 to 3.33 litres per hectare 3 to 7 days prior to the last cut before rotation or forage renovation. Consult the table "Guidelines for Timing of Preharvest Applications" (section 9.9.1) for visual indicators of this stage in each crop. For the best weed control results, quackgrass should be actively growing and have at least 4 to 5 green leaves. Canada thistle and perennial sow thistle should be actively growing and at or beyond the bud stage for best results. Common milkweed should be at the bud to bloom stage and actively growing for best results. Applications for weed control (not for harvest management) must be made at the correct stage of both weed and crop growth.

Apply only during the period 7 to 14 days (or 3 to 7 days for forage applications) before harvest to ensure best weed control and to maximize harvest management benefits. Earlier application may reduce crop yield and/or quality and may lead to excess glyphosate residues in the crop.

DO NOT APPLY BY AIR.

9.9.1 GUIDELINES FOR TIMING OF PREHARVEST APPLICATIONS

CROP(S)	PERCENT GRAIN MOISTURE	VISUAL SYMPTOMS
WHEAT/BARLEY/OATS	Less than 30	Hard dough stage; a thumbnail impression remains on seed.
CANOLA (including Roundup Ready varieties)	Less than 30	Pods are green to yellow; most seeds are yellow to brown.
FLAX (INCLUDING LOW LINOLENIC ACID VARIETIES)	Less than 30	Majority (75% - 80%) of bolls are brown.
PEAS	Less than 30	Majority (75% - 80%) of pods are brown.
LENTILS	Less than 30	Lowermost pods (bottom 15%) are brown and seeds rattle.
DRY BEANS	Less than 30	Stems are green to brown in colour; pods

CROP(S)	PERCENT GRAIN MOISTURE	VISUAL SYMPTOMS
		are mature (yellow to brown in colour); 80% - 90% leaf drop (original leaves).
SOYBEANS (including Roundup Ready varieties)	Less than 30	Stems are green to brown in colour; pod tissue is dry and brown in appearance; 80% - 90% leaf drop.
FORAGES	Not applicable	Normal stage for forage harvesting.

NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than WinField United Canada, ULC under the User Requested Minor Use Label Expansion program. For these uses, WinField United Canada, ULC has not fully assessed performance (efficacy) and /or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

DIRECTIONS FOR USE:

Preharvest Treatment of Chickpea, Dried Lupin and Dried Fava Bean

For control of quackgrass, Canada thistle, common milkweed, toadflax and dandelion; and season-long control of perennial sow thistle and harvest management, STONEWALL 540 can be applied prior to harvest of chickpea, dried lupin and dried fava bean. DO NOT apply to crops if grown for seed production.

STONEWALL 540 should be applied preharvest at 1.67 litres per hectare in 50 to 100 litres per hectare of clean water, by ground application only. Apply only when the crop has 30 percent or less grain moisture content. This stage typically occurs 7 to 14 days before harvest. For further information see guidelines above. The Pre-harvest interval is 7 days.

ALWAYS REFER TO THE PRODUCT LABEL FOR FURTHER INFORMATION ON WEEDS CONTROLLED, APPLICATION DIRECTIONS, AND USE PRECAUTIONS

GUIDELINES FOR TIMING OF PREHARVEST APPLICATIONS

CROP(S)	PERCENT GRAIN MOISTURE	VISUAL SYMPTOMS
Chickpea	Less than 30	Stems are green to brown in colour; pods are mature (yellow to brown in colour); 80%-90% leaf drop (original leaves)
Dried Lupin		
Dried Fava Bean		

9.9.2 PREHARVEST AERIAL APPLICATION

Refer to the general guidelines for aerial application in Sections 5.2 and 5.3 as well as specific instructions in this section.

**RESTRICTED USE
AERIAL PREHARVEST APPLICATION
PRAIRIE PROVINCES AND INTERIOR OF BRITISH COLUMBIA (including the PEACE
RIVER REGION) ONLY**

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

NATURE OF RESTRICTION: This product is to be used only in the manner authorized. For use only by aerial applicators and aerial application services approved by the provincial regulatory agency to apply this product with aerial application equipment. To qualify for consideration of provincial approval, the following requirements must be demonstrated to the provincial regulatory agency:

1. Aircraft used in the application of this product must have been configured and calibrated to acceptable standards at a recognized calibration (patternation) clinic within 20 months of the date of application. The spray system must not have been subjected to major changes (new nozzles, booms or configurations) since the calibration, and must meet critical drift management standards e.g. maximum boom width 65% of wing span; nozzle type, size and orientation to minimize drift and deliver droplet size VMD in the coarse (400 - 600 microns) or very coarse (600 - 1000 microns) range.
2. Aircraft used in the application of this product must carry a minimum of \$25,000 drift insurance in addition to any provincial requirements for general comprehensive insurance coverage.
3. Applicators using this product must have successfully completed a STONEWALL 540 herbicide aerial application training course.
4. Aerial application services applying this product must employ on staff at least one pilot applicator with at least 250 hours of actual aerial application time and a minimum of 100 hours within the last 24-month period. All pilots who do not meet the minimum experience standard must work under the ***direct daily supervision*** of a qualified pilot.

Refer to general directions and precautions concerning aerial application, sections 5.2, and 5.3, Spray Buffer Zones.

DIRECTIONS FOR USE

STONEWALL 540 may be applied with aerial application equipment for control of quackgrass, Canada thistle, common milkweed, toadflax and dandelion, and season-long control of perennial sow thistle. STONEWALL 540 can be applied prior to harvest of wheat, barley (including malting barley), oats, canola (rapeseed), flax (including low linolenic acid varieties), lentils, peas, dry beans and soybeans. **Do not use on forages.** DO NOT apply to any crops if grown for seed production.

This treatment may also provide harvest management benefits, by drying down crop and weed vegetative growth, for example, where late flushes of annual weeds, green vegetative crop growth, or late tillering may interfere with harvest operations.

EXTREMELY COOL, WET AND/OR CLOUDY WEATHER CONDITIONS BETWEEN THE TIME OF APPLICATION AND THE ANTICIPATED HARVEST DATE MAY SLOW DOWN ACTIVITY OF THIS PRODUCT, THEREBY DELAYING CROP DRYDOWN AND HARVEST DATE.

STONEWALL 540 should be applied at 1.67 L/ha in 20 - 50 L/ha of clean water with aerial application equipment. Apply only when the crop has 30% of less grain moisture content. This stage typically occurs 7 to 14 days before harvest. Consult the table "Guidelines for Timing of Preharvest Applications" (Section 9.9.1) for visual indicators of this stage in each crop. For the best weed control results quackgrass should be actively growing and have at least 4 to 5 green leaves. Canada thistle and perennial sow thistle should be actively growing and at or beyond the bud stage for best results. Common milkweed should be at the bud to bloom stage and actively growing for best results. Applications for weed control (not for harvest management) must be made at the correct stage of both weed and crop growth.

Apply only during the period 7 - 14 days before harvest to ensure best weed control and to maximize harvest management benefits. Earlier application may reduce crop yield and/or quality, and may lead to excess glyphosate residues in the crop.

9.10 TREE PLANTINGS

SHELTERBELTS AND NURSERY STOCK (WOODY ORNAMENTALS)

This product may be used to control listed annual or perennial weeds prior to planting, or as a post directed spray in established nurseries or shelterbelts of the following species:

DECIDUOUS

Ash

Fraxinus spp.

Caragana

Caragana spp.

Cherry

Prunus spp.

Elm

Ulmus spp.

Lilac

Syringa spp.

Maple

Acer spp.

Mountain Ash

Sorbus spp.

Poplar

Populus spp.

Russian Olive

Elaeagnus spp.

Willow

Salix spp.

CONIFEROUS

Fir

Abies spp.

Juniper

Juniperus spp.

Pine

Pinus spp.

Spruce

Picea spp.

Yew

Taxus spp.

NOTE: This product is not recommended for use as an over-the-top broadcast spray in forest tree nurseries or in Christmas tree plantations. Application in such sites should be limited to directed sprays. DO NOT treat Christmas tree plantations in the year of anticipated harvest.

9.11 TREE, VINE, BERRY AND OTHER CROPS

This product is recommended for annual and perennial weed control in established vineyards or orchards, in blueberry, cranberry and strawberry, or for site preparation prior to transplanting tree and vine crops. Applications may be made with boom equipment, shielded sprayers, hand

held and high volume orchard guns, or with wiper applicator equipment (orchards, vineyards, cranberry and strawberry only). See "Mixing and Application Equipment Information" (section 5.2) and the following table for specific information on the use of equipment.

Repeat treatments may be necessary to control weeds originating from underground parts of untreated weeds or from seeds. This product does not provide residual or pre-emergent weed control. For subsequent weed control, follow a program using residual herbicides or use repeated applications of this product. Do not apply more than 23 litres of this product per hectare per year.

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF HERBICIDE SOLUTION, SPRAY, DRIFT, OR MIST WITH FOLIAGE OR GREEN BARK OF TRUNK, BRANCHES, SUCKERS, FRUIT, CANES OF BLUEBERRY BUSHES, OR OTHER PARTS OF TREES OR VINES. CONTACT OF THIS PRODUCT WITH OTHER THAN MATURED BROWN BARK CAN RESULT IN SERIOUS CROP DAMAGE.

Reduced control may result when applications are made to annual or perennial weeds that have been mowed, grazed or cut and have not been allowed to regrow to the recommended stage for treatment.

WEED CONTROL IN TREE, VINE, BERRY AND OTHER CROPS

CROP	RATE (L/ha)	PRE-HARVEST INTERVAL (days)	MAX. APPL. PER YEAR	WEEDS CONTROLLED	COMMENTS (Refer to sections 7.1 and 8.1 for specific rates for weed control)
Apples, Apricot, Cherry (sweet/sour), Peaches, Pears, Plums	1.5 - 8	30	3	Annual and perennial weeds	
Apples, Grapes	Tank Mix 1.5 - 8 + Simazine 2.0-4.5 kg ai/ha	-	1	Annual and perennial weeds	Will provide season-long preemergent control. Do not apply to coarse, sandy or gravelly soil. Use according to the more restrictive label direction for each product in the mix. DO NOT apply to orchards or vineyards that have been established less than 1 or 3 years, respectively. Simazine rate is equivalent to 2.25 -5.0 kg/ha Princep® Nine-T® Herbicide, or 4.0 - 9.0 kg/ha Simadex® Simazine Flowable
Grapes	1.5 - 8	14	3	Annual and perennial weeds.	Remove all sucker growth from the spray zone before

CROP	RATE (L/ha)	PRE- HARVEST INTERVAL (days)	MAX. APPL. PER YEAR	WEEDS CONTROLLED	COMMENTS (Refer to sections 7.1 and 8.1 for specific rates for weed control)
					spraying, except for the Concord variety of grape. Suckering should be conducted within 2 weeks prior to application. Do not apply to vines which have been established less than 3 years.
Highbush (cultivated) blueberry	1.87 - 3.73	30	1	Quackgrass	Use as a directed spray, with no more than 275 kPa pressure.
Lowbush blueberry	0.67 - 1.34% solution (spot application)	Apply in non-bearing year only	1	Woody brush (section 6.3)	Apply as a directed spray in mid-summer of the vegetative (non-bearing year).
Filberts, Hazelnut (established plantations)	1.5 - 2.33	14	-	Annual Weeds	Use as a directed spray, with no more than 275 kPa pressure.
Walnut, Chestnut, Japanese Heartnut	1.5 - 8	-	2	Annual and perennial weeds	Apply late spring and fall, postharvest but prior to a damaging frost. Apply in 200 - 300 L water as a directed spray, using no more than 275 kPa pressure. Apply alternatively as a 1.34% wiper solution (see "Wiper Applications" section 9.12).
Cranberry	13.4% solution (0.62 L STONEWALL 540 + 4L water)	30	1	Annual and perennial weeds	Apply using wick or wiper applicators (section 9.12).
Strawberry	0.67- 1.34% solution (spot application) 22% solution (wiper application)	30	1	Emerged perennial weeds	Apply when weeds are at a susceptible growth stage (see sections 8.1 and 8.2). See section 9.3 for instructions on spot treatments. See section 9.12 for instructions on wiper applications.
Asparagus	0.83-1.67	7	1	Fall Seeded Ryegrass	Apply in spring before emergence of crop shoots.

CROP	RATE (L/ha)	PRE- HARVEST INTERVAL (days)	MAX. APPL. PER YEAR	WEEDS CONTROLLED	COMMENTS (Refer to sections 7.1 and 8.1 for specific rates for weed control)

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Simadex is a registered trademark of Bayer CropScience Inc.

SHORT ROTATION INTENSIVE CULTURE (SRIC) POPLAR (*Populus spp*)

DO NOT APPLY BY AIR.

This product may be used to control listed annual or perennial weeds prior to planting, or as a post directed spray in established crops of short rotation intensive culture (SRIC) Poplar species (*Populus spp*)

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF HERBICIDE SOLUTION, SPRAY, DRIFT, OR MIST WITH FOLIAGE OR GREEN BARK OF TRUNK, BRANCHES, OR OTHER PARTS OF TREES. CONTACT OF THIS PRODUCT WITH OTHER THAN MATURED BROWN BARK CAN RESULT IN SERIOUS CROP DAMAGE.

Reduced control may result when applications are made to annual or perennial weeds that have been mowed, grazed or cut and have not been allowed to regrow to the recommended stage for treatment.

STONEWALL 540 may be applied prior to planting or as a post directed spray in established short rotation intensive culture crops. Apply STONEWALL 540 up to 8 L/ha in 50 - 100 liters or 150 - 300 L/h for quackgrass control by ground application only. Applications can be made 1-3 times per year during establishment however, not to exceed the limit of 8 L/ha per year. Shielded sprayers must be utilized when applying post directed spray solutions. Allow a 6-8 week interval between spray applications. Apply to actively growing weeds.

NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR SPECIAL USE APPLICATIONS: (NORTH AMERICAN GINSENG).

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than WinField United Canada, ULC under the User Requested Minor Use Label Expansion program. For these uses, WinField United Canada, ULC has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

DIRECTIONS FOR USE

ALWAYS REFER TO THE PRODUCT LABEL FOR FURTHER INFORMATION ON WEEDS CONTROLLED, APPLICATION DIRECTIONS, AND USE PRECAUTIONS.

NORTH AMERICAN GINSENG

New Gardens (British Columbia only): Apply this product in the fall after seeding but before freeze-up in new gardens only to control volunteer cereals. Apply when weeds are at the growth stages listed on the product label. Use a single application of 1.67 litres per hectare in 50 to 100 litres water per hectare. DO NOT USE A FALL APPLICATION IN ESTABLISHED/EXISTING GARDENS.

Existing/Established Gardens: Apply this product in the spring before the crop has emerged above the soil. Apply when weeds are at the growth stages described in the product label. A maximum of two 1.67 litres per hectare applications in 50 to 100 litres water per hectare may be made in a season. DO NOT USE A FALL APPLICATION IN ESTABLISHED/EXISTING GARDENS.

9.12 SELECTIVE EQUIPMENT

WIPER APPLICATORS

This product may be applied with a wiper applicator, after dilution and thorough mixing with water, to listed weeds in soy and dry beans, grapes, orchards, cranberries and strawberries. Applications must be made before initial pod set in soy and dry beans. (It may also be used in any industrial, tree planting and non-crop site specified on this label. See sections 9.10 and 10.1).

A wiper applicator applies the herbicide solution onto weeds by rubbing the weed with an absorbent material containing the herbicide solution. Wiper applicators include either roller or wick devices which physically wipe appropriate concentrations or amounts of this product directly onto the weed. Equipment must be designed, maintained and operated to prevent the herbicide solution from contacting desirable vegetation. Performance may be improved by reducing speed in areas of heavy weed infestations to insure adequate wiper saturation. Best results may be obtained if 2 applications are made in opposite directions.

AVOID CONTACT WITH DESIRABLE VEGETATION. Contact of the herbicide solution with desirable vegetation may result in damage or destruction. Applicators used above desired vegetation should be adjusted so that wiper contact point is at least 5 centimetres above the desirable vegetation. Droplets or foam of the herbicide solution settling on desirable vegetation may result in discoloration, stunting or destruction.

Applications should be made when the weeds are a minimum of 15 centimetres above the desirable vegetation. Best results may be obtained when more of the weed is exposed to the herbicide solution. Weeds not contacted by the herbicide solution will not be affected. This may occur in dense clumps, severe infestations, or when the height of the weeds varies so that not all weeds are contacted. In these instances, repeat treatments may be necessary. See the "Weed Control" tables (sections 7.1 and 8.1) for recommended stage of growth for specific weeds.

NOTES

- Maintain equipment in good operating condition. Avoid leakage or dripping onto desirable vegetation.
- Adjust height of applicator to insure proper contact with weeds.
- Keep wiping surfaces clean.
- Maintain recommended roller RPM on roller applicators while in use.
- Keep wiper material at proper degree of saturation with herbicide solution.

- DO NOT use wiper equipment when weeds are wet.
- DO NOT operate equipment at ground speeds below 4 and greater than 10 kilometres per hour. Weed control may be affected by speed of application equipment. As weed density increases, reduce equipment ground speed to insure good coverage of weeds.
- Be aware that on sloping ground the herbicide solution may migrate, causing dripping on the lower end and drying on the upper end of the wiper applicator.
- Variation in equipment design may affect weed control. With wiper applicators, the wiping material and its orientation must allow delivery of sufficient quantities of the recommended herbicide solution directly to the weed.
- Care must be taken with all types of wipers to ensure that the absorbent material does not become over-saturated, causing the herbicide to drip onto desirable vegetation.
- With all equipment, drain and clean wiper parts immediately after using this product, by thoroughly flushing with water.

For Roller Applicators - Mix 0.33 to 0.67 litres of this product in 10 litres water to prepare a 3 to 7 percent solution. Roller speed should be maintained at 50 to 150 RPM.

For Wick or other Wiper Applicators - Mix 0.57 litres of this product in 2 litres of water to prepare a 22 percent solution.

10.0 NON-CROPLAND USES

INDUSTRIAL, RIGHTS-OF-WAY, RECREATIONAL, AND PUBLIC AREAS.

ALWAYS READ PRECAUTIONS, GENERAL INFORMATION AND MIXING AND APPLICATION SECTIONS (3.0, 4.0 AND 5.0) PRIOR TO SPECIFIC APPLICATION INFORMATION IN ANY LABEL SECTION.

This product can be used to control annual and perennial weeds and woody brush and trees listed on this label in non-crop areas such as railroad, pipeline, highway, power and telephone rights-of-way, petroleum tank farms and pumping installations; roadsides; storage areas; lumberyards; fence rows; industrial plant sites; parking areas; school yards, parks, golf courses, other public areas; airports and similar industrial or non-crop areas.

NOTE: For all industrial, rights-of-way, recreational and public areas, repeat treatments may be necessary to control regeneration or new growth.

When applied as recommended under the conditions described, this product will control weeds in non-cropland areas as listed in the following table.

10.1 WEED CONTROL IN NON-CROPLAND AREAS WITH STONEWALL 540

WEEDS	GROUND APPLICATION			
	BOOM APPLICATION		HAND HELD HIGH VOLUME APPLICATION % SOLUTION	COMMENTS
	RATE* (L/ha)	WATER VOL.* (L/ha)		
Annual grasses and broadleaves	1.5-2.33	50-100	0.67	Actively growing weeds.
Perennial Weeds				Actively growing weeds.
Quackgrass	1.67	50-300	0.67	
	3.17-4.67	50-300	1.34	Add 0.5% v/v of a

WEEDS	GROUND APPLICATION			
	BOOM APPLICATION		HAND HELD HIGH VOLUME APPLICATION % SOLUTION	COMMENTS
	RATE* (L/ha)	WATER VOL.* (L/ha)		
Canada Thistle (bud stage)	3.17-4.67	100-300	1.34	recommended surfactant when using water volumes greater than 150 L (see section 8.2.2).
Purple Loosestrife	4	300-600	0.67-1.34 (or 22% for wiper application)	Higher rate for long term control and for heavy infestations.
Other Perennials	4.67-8	100-300	1.34	See section 10.2.3 for instructions on purple loosestrife applications. Summer through fall is optimum.
Brush and Trees Birch, Cherry, Poplar, Western Snowberry, Willow	2-4	100-300	0.67-1.34	Summer through early fall (see section 10.2). Late summer through fall. Fall is optimum.
Maple, Raspberry/ Salmonberry, Alder	4	100-300	1.34	
Turf Renovation Annual and perennial weeds	1.67 - 8	100 - 300	0.67 - 1.34	Use higher end of the rate range for perennials.
Roadside Vegetation (1-2m wide along shoulders) Annual weeds (refer to tank mix sections on product labels for specific weeds controlled)	1) 0.5 - 0.67 + 1.25 - 2.5 L Vanquish Herbicide or 2) 0.5 - 0.67 + 0.30 L Vanquish Herbicide + 1.2 L 2,4-D amine 500	25 - 150	-	Refer to "Annual Weed Control" table (section 7.1) for appropriate product rate for specific weeds. For 2,4-D amine formulations with a different guarantee, adjust the rate accordingly. No application to standing water.
Residual Control Annual and perennial weeds (The simazine component of this tank mixture will	1.67 - 8 + 4.0 - 9.0 L Simadex Simazine	200-400	-	Do not apply to coarse, sandy or gravelly soil. One application per year. Use according to the most restrictive label directions for

WEEDS	GROUND APPLICATION			
	BOOM APPLICATION		HAND HELD HIGH VOLUME APPLICATION % SOLUTION	COMMENTS
	RATE* (L/ha)	WATER VOL.* (L/ha)		
provide season long control of most germinating broadleaf weeds and grasses. It may also provide postemergent activity on certain annual weeds.	Flowable			each product in the mixture. For other simazine formulations registered for industrial/ non-cropland areas, use equivalent rates; i.e., 2.0 – 4.5 kg simazine/ha.

For more information on rates, water volumes and applications, refer to “Annual and Perennial Weed Control” (sections 7.1 and 8.1 respectively).

Vanquish Herbicide is a registered trademark of Syngenta Group Company
Simadex is a registered trademark of Bayer CropScience Inc.

10.2 APPLICATION INFORMATION FOR NON-CROPLAND USES

FOLIAR APPLICATIONS

Spray coverage should be uniform and complete. Do not spray to the point of run-off. Do not allow spray drift to contact desirable vegetation as severe injury or destruction may occur. For woody brush and trees, early season applications may take 30 to 45 days for symptoms to develop on target species. Late season application may be made to species that have some autumn colors provided no major leaf drop has occurred. Control will be observed the following spring.

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF SPRAY WITH FOLIAGE OF DESIRABLE TURF GRASSES, TREES, SHRUBS, OR OTHER DESIRABLE VEGETATION SINCE SEVERE DAMAGE OR DESTRUCTION MAY RESULT.

This product does not provide residual weed control. For subsequent weed control, follow a label approved herbicide program.

10.2.1 GROUND APPLICATIONS

For all non-cropland uses:

For woody brush and trees, apply 2 to 4 litres of this product per hectare. Use ground boom or boomless, or mist blower equipment, or apply as a 0.67 to 1.34 percent solution using hand held, high volume equipment. Apply as directed in the recommended volume of clean water to foliage of actively growing vegetation. Use the 4 litres per hectare rate for Maple, Alder and Willow* species, as well as for hard to control perennial weed species. (*suppression only).

Spray coverage should be uniform and complete. Do not spray to the point of run-off. Do not allow spray drift to contact desirable vegetation as severe injury or destruction may occur. If

weeds have been mowed or tilled, do not treat until regrowth has reached the recommended stages.

10.2.2 PURPLE LOOSESTRIPE CONTROL

- DO NOT TREAT PLANTS OVER OPEN WATER. STONEWALL 540 is not registered for direct application to bodies of water.
- Treat when plants are actively growing at or beyond the bloom stage. If using hand held equipment, spray-to-wet.
- For wiper applications see section 9.12.
- Where feasible, remove flower heads before treatment to ensure prevention of seed set.
- For large (>1.6 ha) monocultures of loosestrife, work from the periphery inward in successive years to allow competing vegetation to invade the treated area.
- A long-term control strategy should include measures to control both established plants and seedlings. Sprayed areas should be monitored to determine the appropriate follow-up management. Early detection and treatment of second and third generation seedlings is important to prevent re-infestation of purple loosestrife. Desirable native plant communities will then have a chance to become re-established.

10.3 SELECTIVE APPLICATION FOR ALL NON-CROPLAND USES

Selective equipment such as WIPER and ROLLER applicators can be used to control emerged weeds in non-crop areas and tree plantings. See "Selective Equipment" (section 9.12) for more information.

10.4 TURF GRASS

When applied as directed, under conditions described, this product controls most existing vegetation. Apply this product at rates specified in "Weed Control in Non-Cropland Areas" (section 10.1).

DO NOT DISTURB SOIL OR UNDERGROUND PLANT PARTS BEFORE TREATMENT.

Where existing vegetation is growing in a field or unmowed situation, apply this product to actively growing weeds at the stages of growth given in "Weeds Controlled" (sections 7.1 and 8.1, respectively). Where existing vegetation is growing under mowed turfgrass management, apply this product after omitting at least one regular mowing to allow sufficient growth for good interception of the spray and proper translocation into underground plant parts. Tillage or renovation techniques such as vertical mowing, coring or slicing should be delayed for 7 days after application to allow proper translocation into underground plant parts.

For maximum control of existing vegetation, delay establishment to determine if regrowth from escaped underground plant parts occurs. When repeat treatments are necessary, sufficient regrowth must be attained prior to application. Desirable turfgrass may be established following the above procedures.

10.5 INJECTION APPLICATIONS -- FOR ALL NON-CROPLAND USES

Woody vegetation may be controlled by injection application of this product. Apply using suitable equipment, which must penetrate into living tissue, at a rate of at least 0.33 millilitres (either undiluted or 1:1 with water) per 5 centimetres tree diameter at breast height (DBH). The cuts should be spaced evenly around the tree and below all major branches. Application may be

made at any time of year, except when cold temperatures prevent adequate penetration of injection equipment, or in the spring during periods of heavy sap flow. Control of tree species with tree diameters greater than 20 centimetres may not be acceptable at this rate.

Total control may not be evident for 1 to 2 years following treatment.

A partial list of species controlled includes:

Alder	Hemlock
<i>Alnus spp.</i>	<i>Tsuga spp.</i>
Birch	Maple*
<i>Betula spp.</i>	<i>Acer spp.</i>
Cedar	Pine
<i>Thuja spp.</i>	<i>Pinus spp.</i>
Cherry	Poplar
<i>Prunus spp.</i>	<i>Populus spp.</i>
Douglas Fir	Willow
<i>Pseudotsuga spp.</i>	<i>Salix spp.</i>

* This treatment may only provide suppression of Bigleaf Maple. Late fall applications will provide optimum suppression of Bigleaf Maple.

10.6 CUT STUMP APPLICATION

Woody vegetation may be controlled by the application of this product to freshly cut stumps to prevent regrowth. Because the treatment uses a concentrated solution, application must be made using low-pressure equipment e.g., squirt bottle or similar device. This product must be applied immediately to the surface of the freshly cut stump i.e., within 5 minutes for optimum control at the prescribed rates. Only the cambial tissues of the cut surface should be treated. Apply the herbicide solution at a rate equivalent to at least 0.33 millilitres product for every 5 centimetres DBH. Do not cover the remaining area nor any exposed roots, as this product does not penetrate bark well. This treatment may be used at any time of year, except during periods of heavy sap flow or when low temperatures prevent solution application due to freezing. A water soluble colourant may be added to the solution as a means of indicating which surfaces have been treated. Total control may not be evident until 1 to 2 years after treatment.

See "Injection Applications" (section 10.5) of this label for a partial list of species controlled.