

2021-5684
2021-12-03

Container label

GROUP	6	HERBICIDE
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BUCK[®] HERBICIDE

COMMERCIAL (AGRICULTURAL)

EMULSIFIABLE CONCENTRATE

for use in WHEAT (spring, durum & winter), BARLEY, OATS, FLAX (including low linolenic acid varieties), CORN, FALL RYE, CANARY SEED (for seed production), TRITICALE, GARLIC, CARROTS, SEEDLING ALFALFA, ESTABLISHED ALFALFA (for seed production only), and SEEDLING GRASSES, FORAGE and GRAIN SORGHUM, FORAGE MILLET, GRAIN PEARL MILLET as a pre-seed/pre-plant application prior to planting CANOLA and ZERO TILL

ACTIVE INGREDIENT: BROMOXYNIL (present as an ester)280 g/L

REGISTRATION NO. 33399 PEST CONTROL PRODUCTS ACT

WARNING



POISON

READ THE LABEL AND BOOKLET BEFORE USING

NET CONTENTS: 1 L – Bulk

For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC 1-800-424-9300 / +1 703-527-3887

NewAgco, Inc.
320 22nd Street East
Saskatoon, Saskatchewan
Canada S7K 0H1
1-844-269-3276

Distributed by:
AgraCity Crop & Nutrition Ltd.
320 22nd Street East
Saskatoon, Saskatchewan
Canada S7K 0H1
1-844-269-3276

AMMO[®], BUCK[®] and HIMALAYA[™] are trademarks of AgraCity Crop & Nutrition Ltd. or its' affiliates.

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. Avoid contact with skin, eyes and clothing. Wash concentrate from skin or eyes immediately. Avoid breathing spray mist. After use wash hands and other exposed skin. Wear a chemical-resistant apron during mixing/loading activities.

Do not use in residential areas, which are defined as sites where bystanders may be present during or after spraying, including homes, schools, parks, playgrounds, playing fields, and public buildings.

Apply only when the potential for drift to areas of human habitation or 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.

Ground applications: Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, clean-up and repair. Wear a long-sleeved shirt and long pants, chemical resistant gloves, and socks plus shoes during applications. Gloves are not required during application within a closed cab.

Aerial applications: the field crew and the mixer/loaders: Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, clean-up and repair.

Aerial applicators: Wear a long-sleeved shirt, long pants, socks and shoes during application. Gloves are not required during application within a closed cockpit. Do not allow the pilot to mix chemicals to be loaded onto the aircraft.

DO NOT enter or allow worker entry into treated areas during the restricted-entry intervals (REIs) specified in the following table:

CROP	POST-APPLICATION ACTIVITY	REI
Garlic	Irrigation, handset	2 days
	All other activities	24 hours
Sweet Corn	Irrigation, handset	5 days
	Harvest, hand	20 days
	All other activities	24 hours

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours for all other crops.

PRE-HARVEST GRAZING INTERVALS: (wheat, barley, oats and seedling alfalfa) - Do not use treated crops for grazing of livestock or green feed until 30 days after application of **BUCK HERBICIDE** unless otherwise stated on the label. Do not cut treated crops for forage until 30 days after application of **BUCK HERBICIDE**

CAUTION: Do not graze other treated crops or cut for feed unless specified above; sufficient data are not available to support such use."

ENVIRONMENTAL PRECAUTIONS:

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 strip between the treated area and the edge of the water body.

TOXIC to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE. This product contains a petroleum distillate which is moderately to highly toxic to aquatic organisms. Avoid contamination of ponds, streams, rivers and other water sources. Avoid contamination of aquatic systems during application. DO NOT contaminate these systems through direct application, disposal of waste or cleaning equipment.

FIRST AID:

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

If swallowed:

Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

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.

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.

TOXICOLOGICAL INFORMATION:

This product contains petroleum distillates. Vomiting may cause aspiration pneumonia. Treat symptomatically.

STORAGE:

Store the container tightly closed, away from seeds, fertilizer, plants and foodstuffs. This **BUCK HERBICIDE** formulation will solidify at temperatures below - 20°C but will become useable again at temperatures above 0°C. Insecticides and fungicides should be segregated from herbicides so as to prevent the possibility of cross-contamination. **SHAKE WELL BEFORE USING.**

RECYCLABLE CONTAINER DISPOSAL:

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 requirements.

RETURNABLE CONTAINER DISPOSAL:

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

REFILLABLE CONTAINER DISPOSAL:

For disposal, this empty 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 disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for 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.

booklet label

BUCK[®] HERBICIDE

COMMERCIAL (AGRICULTURAL)

CONTAINS BROMOXYNIL

EMULSIFIABLE CONCENTRATE

for use in WHEAT (spring, durum & winter), BARLEY, OATS, FLAX (including low linolenic acid varieties), CORN, FALL RYE, CANARY SEED (for seed production), TRITICALE, GARLIC, CARROTS, SEEDLING ALFALFA, ESTABLISHED ALFALFA (for seed production only), and SEEDLING GRASSES, FORAGE and GRAIN SORGHUM, FORAGE MILLET, GRAIN PEARL MILLET as a pre-seed/pre-plant application prior to planting CANOLA and ZERO TILL

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ENVIRONMENTAL PRECAUTIONS:

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FIRST AID:

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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.

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.

TOXICOLOGICAL INFORMATION:

This product contains petroleum distillates. Vomiting may cause aspiration pneumonia. Treat symptomatically.

STORAGE:

Store the container tightly closed away from seeds, fertilizer, plants and foodstuffs. This **BUCK HERBICIDE** formulation will solidify at temperatures below - 20°C but will become useable again at temperatures above 0°C. Insecticides and fungicides should be segregated from herbicides so as to prevent the possibility of cross-contamination. **SHAKE WELL BEFORE USING.**

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DISPOSAL OF UNUSED, UNWANTED PRODUCT:

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

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.

TIMING: For best results spray when weeds are in the seedling stage. Apply in good growing conditions. Application **must** be made before the crop shields the weeds.

SPRAYER: Wash the tank and clean all filters, screens and tips. Select nozzle tips to apply the recommended volume of water per hectare. Flood jet type tips are not recommended. Adjust boom height to ensure uniform coverage of weeds.

MIXING: Half fill the tank with clean water. Add the required amount of **BUCK HERBICIDE** and agitate thoroughly. Fill the tank and agitate again before use.

FIELD SPRAYER APPLICATION:

- DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty.
- DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification.
- Boom height must be 60 cm or less above the crop or ground.
- Spray at 5 - 10 km/h.
- Ensure that all tips are in good condition and spraying the same volume.

AERIAL APPLICATION (wheat and barley only):

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.

Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate 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.

Aerial 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 contaminate irrigation/drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

Do not apply to any body of water. Avoid drifting of spray onto any body of water or other non- target areas. Specified buffer zones should be observed.

Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in fine particles (mist).

DO NOT apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. Do not spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

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 spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification.

To reduce drift caused by turbulent wingtip vortices, the nozzle distribution along the spray boom length MUST NOT exceed 65% of the wingspan or rotorspan.

Aerial Application Operator Precautions:

Wear a long-sleeved shirt, long pants, socks and shoes during application. Gloves are not required during application within a closed cockpit. 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, long-sleeved shirt, long pants, socks and shoes during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the 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 manufacturer at 1-844-269-3276 or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the following:

Volume: BUCK HERBICIDE plus either MCPA or 2,4-D must be applied in volume rates of not *less than* 20 L/ha. For best results when there is a heavy crop canopy, or when the majority of the weeds are cow cockle, green or pale smartweed, hemp nettle, redroot pigweed or Canada thistle, a volume rate of 40 L/ha is recommended.

BUFFER ZONES:

Use of the following spray methods or equipment DO NOT require a buffer zone: hand-held or backpack sprayer, inter-row hooded sprayer, spot treatment, soil drench and soil incorporation.

The 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.

Method of Application	Crop		Buffer Zones (metres) Required for the Protection of:				
			Freshwater Habitat of Depths:		Estuarine / Marine Habitats of Depths:		Terrestrial Habitat
			Less than 1m	Greater than 1m	Less than 1 m	Greater than 1 m	
Field Sprayer*	All crops		1	1	1	1	1
Aerial	Barley and wheat	Fixed wing	20	5	1	1	55
		Rotary wing	20	3	1	1	45

* For field sprayer application, buffer zones can be reduced with the use of drift-reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy, the labelled buffer zone can be reduced by 70%. When using a spray boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy, the labelled buffer zone can be reduced by 30%.

When a tank mixture is used, consult the labels of the other tank-mix ingredients and observe the largest (most restrictive) buffer zone of the products included in the tank mixture.

For tank-mixes refer to all product labels for the correct application timing

(1) Certain varieties only

WHEAT (SPRING, HARD AND WINTER) - no sowing of legumes

Tank mix	BUCK HERBICIDE used alone
Spray Volume + pressure	Apply in 100 L water per hectare at a pressure of 275 kPa
Timing	Spring and durum wheat may be treated from the 2-leaf until the early flag leaf stage. Winter wheat may be treated from the 2 to 4 leaf stage in the fall or from the time growth begins to the early flag leaf stage in the spring.
Application rate	1.0 - 1.2 L/ha (The 8 L container treats 6.6-8 ha). If weeds are beyond the leaf stages indicated or under adverse growing conditions, use of the higher recommended rate will improve control.
WEEDS CONTROLLED	Seedlings up to 4-leaf stage Green smartweed, Pale smartweed, Lady's-thumb, Wild mustard*, Cow cockle*, Russian thistle**, Stinkweed*, Cocklebur, Common ragweed, Pigweed*, Velvetleaf***, Bluebur and American nightshade. Seedlings up to 8-leaf stage Wild buckwheat, Tartary buckwheat, Common buckwheat, Common groundsel, Lamb's-quarters. * In normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results. ** Spray before plants are 5 cm high. *** Spray before plants are 8 cm high.

Tank mix	BUCK HERBICIDE + MCPA
Spray Volume + pressure	Apply in 50 - 100 L water per hectare at a pressure of 275 kPa
Timing	Spring wheat may be treated from the 2-leaf until the early flag leaf stage. Winter wheat may be treated from the 2 to 4 leaf stage in the fall or from the time growth begins to the early flag leaf stage in the spring
Application rate	Spring wheat - BUCK HERBICIDE at 1.0 L/ha tank-mixed with 275-550 g active ingredient MCPA per hectare where indicated. Winter wheat - BUCK HERBICIDE at 1.0 L/ha can be tank-mixed with 275 g active ingredient MCPA per hectare. Refer to table at end of booklet for correct volume of MCPA (The 8 L container of BUCK HERBICIDE treats 8 ha) Note: MCPA-K is preferred for hemp nettle although other formulations may be used. Refer to the MCPA label for precautions and limitations. Add MCPA to the spray tank first, agitate, then add BUCK HERBICIDE .
WEEDS CONTROLLED	As listed for BUCK HERBICIDE used alone plus these additional weeds Seedlings up to 4-leaf stage Redroot pigweed, Flixweed, Shepherd's purse, Scentless chamomile*, Volunteer sunflower, Volunteer rapeseed/canola**, Hemp nettle***, Night flowering catchfly, Canada thistle****, Perennial sow thistle****, Ball mustard. Seedlings up to 8-leaf stage Stinkweed, Common ragweed, Wild mustard, Wormseed mustard. * Spring annuals only. Will not control overwintered weeds. ** For high infestations tank-mix 550 g active ingredient MCPA per ha. *** Tank-mix 550 g active ingredient MCPA per ha. Plants beyond the 4-leaf stage are not likely to be controlled. Plants emerging after application, which is often the case

	on peat-type soils, will not be controlled. **** Top growth control.
Tank mix	BUCK HERBICIDE + 2,4-D
Spray Volume + pressure	Apply in 100 L water per hectare at a pressure of 275 kPa
Timing	Spring and winter wheat may be treated from the 4-leaf until the early flag leaf stage. Application before the 4-leaf stage may injure the crop.
Application rate	BUCK HERBICIDE at 1.0 L/ha tank-mixed with 275-420 g active ingredient 2,4-D per ha. Refer to the table at end of booklet for correct volume of 2,4-D. (The 8 L container of BUCK HERBICIDE treats 8 ha). Note: 2,4-D ester is preferred although other formulations may be used. Add 2,4-D to the spray tank first, agitate and then add BUCK HERBICIDE . Refer to the 2,4-D label for precautions and limitations.
WEEDS CONTROLLED	As listed for BUCK HERBICIDE used alone plus these additional weeds Seedlings up to 4-leaf stage Redroot pigweed, Night-flowering catchfly, Flixweed*, Shepherd's purse, Volunteer sunflower, Ball mustard Seedlings up to 8-leaf stage Stinkweed*, Wild mustard * The higher rate of 2,4-D is recommended for larger overwintered weeds (fall rosettes).

Tank mix	BUCK HERBICIDE + ACHIEVE LIQUID
Spray Volume + pressure	Apply in 50-100 L water per hectare at a pressure of 275 kPa
Timing	Durum wheat, Spring wheat and Winter wheat may be treated from the 2-leaf until the early flag leaf stage of growth.
Application rate	BUCK HERBICIDE at 1.0 L/ha tank mixed with ACHIEVE LIQUID at 0.5 L/ha. When using this tank-mixture, add Turbocharge to the spray tank at a concentration of 0.5% v/v (i.e. 0.5 L of Turbocharge per 100 L of spray solution). Note: Follow all mixing and spraying precautions, limitations and timing recommendations on the ACHIEVE LIQUID label. Note: BUCK HERBICIDE and ACHIEVE LIQUID tank-mixtures can be used in all varieties of Spring Wheat (including Canada Western red spring, amber durum, soft white spring, extra strong and Canada prairie spring), and red winter wheat.
WEEDS CONTROLLED	As listed for BUCK HERBICIDE used alone plus wild oats, volunteer oats, green foxtail (wild millet), yellow foxtail, barnyard grass and Persian darnel.

WHEAT (Spring & Durum – not underseeded to legumes)

For use in Manitoba, Saskatchewan, Alberta plus the Interior of British Columbia

Tank mix	BUCK HERBICIDE + HORIZON 240 EC Herbicide Tank-Mix (durum and spring wheat only)
Spray Volume + pressure	Apply in 100 L water per hectare at a pressure of 275 kPa
Timing	Spring wheat and Durum wheat may be treated from the 2- leaf to flag leaf.
Application rate	BUCK HERBICIDE at 1.0 L/ha tank mixed with HORIZON 240 EC at 230 mL/ha or 290 mL/ha plus SCORE adjuvant at a concentration of 0.8% v/v or 1.0% v/v. Note: Follow all mixing and spraying precautions, environmental precautions, limitations and timing recommendations on the HORIZON Herbicide tank mix label. Note: BUCK HERBICIDE and HORIZON Herbicide tank mix can be used in all varieties of Spring wheat and Durum wheat.

WEEDS CONTROLLED	As listed for BUCK HERBICIDE used alone plus those listed on the HORIZON Herbicide Tank Mix label.
Tank mix	BUCK HERBICIDE + EVEREST 70 WDG OR HIMALAYA HERBICIDE
Spray Volume + pressure	Apply in 50 – 100 L water per hectare at a pressure of 275 kPa
Timing	Spring wheat and Durum wheat may be treated from the 1- leaf to 4-leaves on main stem, plus 2 tillers.
Application rate	BUCK HERBICIDE at 1.0 L/ha tank mixed with EVEREST 70 WDG OR HIMALAYA HERBICIDE at 43 g/ha plus AGRAL® 90 or AG-SURF® adjuvant at a concentration of 0.25% v/v. Note: Follow all mixing and spraying precautions, environmental precautions, limitations and timing recommendations on the EVEREST 70 WDG OR HIMALAYA HERBICIDE label. Note: BUCK HERBICIDE and EVEREST 70 WDG OR HIMALAYA HERBICIDE tank mix can be used in all varieties of Spring wheat (including hard red spring, Canada prairie spring, soft white spring, and extra strong (utility) wheat).
WEEDS CONTROLLED (Spring wheat only)	As listed for BUCK HERBICIDE used alone plus wild oats (including ACCase and triallate resistant biotypes) and green foxtail (including ACCase and dinitroaniline resistant biotypes).

DIRECTIONS FOR USE: WINTER WHEAT (EASTERN CANADA ONLY)

BUCK HERBICIDE + PEAK 75WG

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than NewAgco Inc. under the User Requested Minor Use Label Expansion program. For these uses, NewAgco Inc. 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.

Tank mix	BUCK HERBICIDE + PEAK 75WG
Spray Volume+ pressure	Apply in a minimum of 150 L water/ha at a pressure of 275 kPa.
Timing	Apply PEAK 75WG Herbicide as a broadcast spray to wheat up to and including BBCH Growth Stage 32 (beginning of stem elongation), by ground application only. Make one application per year. Refer to the PEAK 75WG label for further limitations and precautions.
Application rate	BUCK HERBICIDE at 0.5 L/ha tank-mixed with PEAK 75WG at 13.3 g/ha plus a non-ionic surfactant at 0.2% v/v. Note: PEAK 75WG Herbicide must be tank mixed with a non- ionic surfactant (AGRAL 90 PCP 11809, Agsurf† PCP 22881, 15881, or Citowett Plus®†). Do not use Crop Oil Concentrate for use on winter wheat.
Weeds controlled	Wild carrot in the 2 to 20 leaf stage Wild carrot

BARLEY (not underseeded to legumes)

Tank mix	BUCK HERBICIDE used alone
Spray Volume + pressure	Apply in 100 L water per hectare at a pressure of 275 kPa
Timing	The crop may be treated from the 2-leaf until the early flag leaf stage.
Application rate	1.0 - 1.2 L/ha (The 8 L container of BUCK HERBICIDE treats 6.6-8 ha). If weeds are beyond the leaf stages indicated or under adverse growing conditions, use of the higher recommended rate will improve control.
WEEDS CONTROLLED	<p><u>Seedlings up to 4-leaf stage</u> Green smartweed, Pale smartweed, Lady's-thumb, Wild mustard*, Cow cockle*, Russian thistle**, Stinkweed*, Cocklebur, Common ragweed, Pigweed*, Velvetleaf***, Bluebur, American nightshade.</p> <p><u>Seedlings up to 8-leaf stage</u> Wild buckwheat, Tartary buckwheat, Common buckwheat, Common groundsel, Lamb's-quarters.</p> <p>* <i>In normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results.</i></p> <p>** <i>Spray before plants are 5 cm high.</i></p> <p>*** <i>Spray before plants are 8 cm high.</i></p>

Tank mix	BUCK HERBICIDE+MCPA
Spray Volume + pressure	Apply in 50 - 100 L water per hectare at a pressure of 275 kPa
Timing	The crop may be treated from the 2-leaf until the early flag leaf stage.
Application rate	<p>BUCK HERBICIDE at 1.0 L/ha tank-mixed with 275-550 g active ingredient MCPA per hectare where indicated. Refer to the table at end of booklet for correct volume of MCPA. (The 8 L container of BUCK HERBICIDE treats 8 ha).</p> <p>Note: MCPA-K is preferred for hemp nettle although other formulations may be used. Refer to the MCPA label for precautions and limitations. Add MCPA to the spray tank first, agitate, then add BUCK HERBICIDE.</p>
WEEDS CONTROLLED	<p>As listed for BUCK HERBICIDE used alone plus these additional weeds</p> <p><u>Seedlings up to 4-leaf stage</u> Redroot pigweed, Flixweed, Shepherd's purse, Scentless chamomile*, Volunteer sunflower, Volunteer rapeseed/canola**, Hemp nettle***, Night flowering catchfly, Canada thistle****, Perennial sow thistle****, Ball mustard.</p> <p><u>Seedlings up to 8-leaf stage</u> Stinkweed, Common ragweed, Wild mustard, Wormseed mustard.</p> <p>* <i>Spring annuals only. Will not control overwintered weeds.</i></p> <p>** <i>For high infestations tank-mix 550 g active ingredient MCPA per ha.</i></p> <p>*** <i>Tank-mix 550 g active ingredient MCPA per ha. Plants beyond the 4-leaf stage are not likely to be controlled. Plants emerging after application, which is often the case on peat-type soils, will not be controlled.</i></p> <p>**** <i>Top growth control.</i></p>

Tank mix	BUCK HERBICIDE + 2,4-D
Spray Volume + pressure	Apply in 100 L water per hectare at a pressure of 275 kPa
Timing	The crop may be treated from the 4-leaf until the early flag leaf stage. Application before the 4leaf stage may result in injury to the crop.
Application rate	BUCK HERBICIDE at 1.0 L/ha tank-mixed with 275-420 g active ingredient 2,4-D per ha. Refer to table at end of booklet for correct volume of 2,4-D. (The 8 L container of BUCK HERBICIDE treats 8 ha). Note: 2,4-D ester is preferred although other formulations may be used. Add 2,4-D to the spray tank first, agitate and then add BUCK HERBICIDE . Refer to the 2,4-D label for precautions and limitations.
WEEDS CONTROLLED	As listed for BUCK HERBICIDE used alone plus these additional weeds Seedlings up to 4-leaf stage Redroot pigweed, Night-flowering catchfly, Flixweed*, Shepherd's purse, Volunteer sunflower, Ball mustard Seedlings up to 8-leaf stage Stinkweed*, Wild mustard * The higher rate of 2,4-D is recommended for larger over wintered weeds (fall rosettes).

Tank mix	BUCK HERBICIDE + ACHIEVE LIQUID
Spray Volume + pressure	Apply in 50-100 L water per hectare at a pressure of 275 kPa
Timing	Barley may be treated from the 2leaf until the early flag leaf stage of growth.
Application rate	BUCK HERBICIDE at 1.0 L/ha tank mixed with ACHIEVE LIQUID at 0.5 L/ha. When using this tank-mixture, add Turbocharge to the spray tank at a concentration of 0.5% v/v (i.e. 0.5 L of Turbocharge per 100 L of spray solution). Note: Follow all mixing and spraying precautions, environmental precautions, limitations and timing recommendations on the ACHIEVE LIQUID label. Note: BUCK HERBICIDE and ACHIEVE LIQUID tank-mixtures can be used in all 2 or 6 row varieties of barley (malting and feed varieties).
WEEDS CONTROLLED	As listed for BUCK HERBICIDE used alone plus wild oats, volunteer oats, green foxtail (wild millet), yellow foxtail, barnyard grass and Persian dandel.

OATS (not underseeded to legumes)

Tank mix	BUCK HERBICIDE used alone
Spray Volume + pressure	Apply in 100 L water per hectare at a pressure of 275 kPa
Timing	The crop may be treated from the 2-leaf until the early flag leaf stage.
Application rate	1.0 - 1.2 L/ha (The 8 L container treats 6.6-8 ha). If weeds are beyond the leaf stages indicated or under adverse growing conditions, use of the higher recommended rate will improve control.
WEEDS CONTROLLED	<p>Seedlings up to 4-leaf stage Green smartweed, Pale smartweed, Lady's-thumb, Wild mustard*, Cow cockle*, Russian thistle**, Stinkweed*, Cocklebur, Common ragweed, Pigweed*, Velvetleaf***, Bluebur, American nightshade.</p> <p>Seedlings up to 8-leaf stage Wild buckwheat, Tartary buckwheat, Common buckwheat, Common groundsel, Lamb's-quarters.</p> <p>* <i>In normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results.</i></p> <p>** <i>Spray before plants are 5 cm high.</i></p> <p>*** <i>Spray before plants are 8 cm high.</i></p>

Tank mix	BUCK HERBICIDE + MCPA
Spray Volume + pressure	Apply in 50 - 100 L water per hectare at a pressure of 275 kPa
Timing	The crop may be treated from the 2-leaf until the early flag leaf stage.
Application rate	<p>BUCK HERBICIDE at 1.0 L/ha tank-mixed with 275-550 g active ingredient MCPA per hectare where indicated. Refer to the table at end of booklet for correct volume of MCPA. (The 8 L container of BUCK HERBICIDE treats 8 ha).</p> <p>Note: MCPA-K is preferred for hemp nettle although other formulations may be used. Refer to the MCPA label for precautions and limitations. Add MCPA to the spray tank first, agitate, then add BUCK HERBICIDE.</p>
WEEDS CONTROLLED	<p>As listed for BUCK HERBICIDE used alone plus these additional weeds.</p> <p>Seedlings up to 4-leaf stage Redroot pigweed, Flixweed, Shepherd's purse, Scentless chamomile*, Volunteer sunflower, Volunteer rapeseed/canola**, Hemp nettle***, Night flowering catchfly, Canada thistle****, Perennial sow thistle****, Ball mustard.</p> <p>Seedlings up to 8-leaf stage Stinkweed, Common ragweed, Wild mustard, Wormseed mustard.</p> <p>* <i>Spring annuals only. Will not control overwintered weeds.</i></p> <p>** <i>For high infestations tank-mix 550 g active ingredient MCPA per ha.</i></p> <p>*** <i>Tank-mix 550 g active ingredient MCPA per ha. Plants beyond the 4-leaf stage are not likely to be controlled. Plants emerging after application, which is often the case on peat-type soils, will not be controlled.</i></p> <p>**** <i>Top growth control.</i></p>

CORN (Field & Sweet)

Tank mix	BUCK HERBICIDE used alone
Spray Volume + pressure	Apply in 200 - 300 L water per hectare at a pressure of 275 kPa
Timing	<p>Corn may be treated with a broadcast post-emergence application at the recommended rate from the 4-leaf stage onward. To ensure adequate coverage of weeds, drop pipes should be used when corn is beyond the 8-leaf stage or for a second application for later germinating weeds such as cocklebur and velvetleaf.</p> <p>Minimum re-treatment interval for the second application is 21 days.</p> <p>The pre-harvest interval (PHI) is 20 days.</p>
Application rate	<p>1.0 - 1.2 L/ha (The 8 L container treats 6.6-8 ha). Use of the higher recommended rate will improve control when heavy infestations of weeds are present.</p> <p>BUCK HERBICIDE is a contact herbicide thus good coverage of the weeds is essential.</p> <p>Note: Temporary crop injury in the form of leaf scorching may occur in adverse growing conditions (especially if applied during or after periods of cool and wet, or hot and humid weather conditions). DO NOT ADD OIL OR SURFACTANT.</p>
WEEDS CONTROLLED	<p>Seedlings up to 4-leaf stage Green smartweed, Pale smartweed, Lady's-thumb, Wild mustard*, Cow cockle*, Russian thistle**, Stinkweed*, Cocklebur, Common ragweed, Pigweed*, Velvetleaf***, Bluebur, American nightshade.</p> <p>Seedlings up to 8-leaf stage Wild buckwheat, Tartary buckwheat, Common buckwheat, Common groundsel, Lamb's-quarters.</p> <p>* <i>In normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results.</i></p> <p>** <i>Spray before plants are 5 cm high.</i></p> <p>*** <i>Spray before plants are 8 cm high. Atrazine tank-mix will improve control of larger plants.</i></p>

Tank mix	BUCK HERBICIDE + ATRAZINE
Spray Volume + pressure	Apply in 200 - 300 L water per hectare at a pressure of 275 kPa.
Timing	Corn should be treated from the 4 to 8 leaf stage. Refer to the Atrazine label for limitations on grassy weeds.
Application rate	<p>BUCK HERBICIDE at 1.0 L/ha tank-mixed with Atrazine AT 1.1 to 1.5 kg active ingredient per hectare. Add Atrazine to the spray tank first, agitate well, and then add BUCK HERBICIDE. (The 8 L container of BUCK HERBICIDE treats 8 ha).</p> <p>Note: Temporary crop injury in the form of leaf scorching may occur in adverse growing conditions (especially if applied during or after periods of cool and wet, or hot and humid weather conditions). DO NOT ADD OIL OR SURFACTANT, OR USE ATRAZINE FORMULATIONS CONTAINING OIL. Refer to the Atrazine label for instructions, precautions and limitations (especially on crop restrictions the following year).</p>
WEEDS CONTROLLED	As listed for BUCK HERBICIDE used alone plus weeds as indicated on the Atrazine label and, when Atrazine is applied at 1.5 kg active ingredient per hectare, bur cucumber seedlings in the 1 to 4-leaf stage.

Tank mix	BUCK HERBICIDE + LOW-RATE ATRAZINE
Spray Volume + pressure	Apply in 200 - 300 L water per hectare at a pressure of 275 kPa.
Timing	<p>Corn may be treated with a broadcast post-emergence application at the recommended rate from the 4-leaf stage onward.</p> <p>To ensure adequate coverage of weeds, drop pipes should be used when corn is beyond the 8-leaf stage or for a second application for later germinating weeds such as cocklebur and velvetleaf.</p> <p>Minimum re-treatment interval for the second application is 21 days. The pre-harvest interval (PHI) is 20 days.</p>
Application rate	<p>BUCK HERBICIDE at 1.0 - 1.2 L/ha tank mixed with Atrazine at 0.5 kg active ingredient per hectare. Add Atrazine to the spray tank first, agitate well and then add BUCK HERBICIDE. (The 8L container of BUCK HERBICIDE treats 8 ha).</p> <p>Note: Temporary crop injury in the form of leaf scorching may occur in adverse growing conditions (especially if applied during or after periods of cool and wet, or hot and humid weather conditions). DO NOT ADD OIL OR SURFACTANT, OR USE ATRAZINE FORMULATIONS CONTAINING OIL</p>
WEEDS CONTROLLED	<p>As listed for BUCK HERBICIDE used alone plus:</p> <p>Seedlings up to the 6-leaf stage: Redroot pigweed (triazine susceptible), velvetleaf*</p> <p>Seedlings up to the 8-leaf stage Common ragweed</p> <p>* Spray before weeds reach 10 cm in height.</p>

CORN (Field, Silage and Sweet)

DIRECTIONS FOR USE: BUCK HERBICIDE + AATREX LIQUID 480

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than NewAgco Inc. under the User Requested Minor Use Label Expansion program. For these uses, NewAgco Inc. 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.

Tank mix	BUCK HERBICIDE + AATREX LIQUID 480
Spray Volume + pressure	Apply in 200 L water/ha at a pressure of 275 kPa.
Timing	<p>Apply when the crop is at the 4- to 8-leaf stage, by ground application only. Make one application per year.</p> <p>Refer to the AATREX LIQUID 480 label for further limitations and precautions. Do not use in the province of British Columbia.</p>
Application rate	<p>BUCK HERBICIDE at 1.0 L/ha tank-mixed with AATREX LIQUID 480 at 3.1 L/ha.</p> <p>Note: Temporary crop injury in the form of leaf scorching may occur in adverse growing conditions (especially if applied during or after periods of cool and wet, or hot and humid weather conditions). DO NOT ADD OIL OR SURFACTANT, OR USE ATRAZINE FORMULATIONS CONTAINING OIL.</p>
WEEDS CONTROLLED	<p>Seedlings at the unifoliate to fourth trifoliate leaf stage Volunteer adzuki beans (<i>Vigna angularis</i>)</p> <p>Seedlings up to the 10-leaf stage Giant ragweed*</p> <p>* <i>Suppression only</i></p>

FIELD CORN (DO NOT USE ON SWEET CORN)

Tank mix	BUCK HERBICIDE + BANVEL OR AMMO or BANVEL II
Spray Volume + pressure	Apply in 200 - 300 L water per hectare at a pressure of 275 kPa.
Timing	Field corn should be treated from the 4 - 6 leaf stage as an overall broadcast treatment. Drop pipes should be used when applying to corn over the 6 leaf stage and up to 50 cm; direct drop pipe nozzles on the weeds beneath the corn leaves. Apply no later than 2 weeks prior to tassel emergence and do not apply to corn over 50 cm in height.
Application rate	BUCK HERBICIDE at 1.0 L/ha tank- mixed with BANVEL or AMMO, or BANVEL II at 290 mL/ha. Add BUCK HERBICIDE to the spray tank first, agitate well and then add BANVEL or AMMO, or BANVEL II. Note: Temporary crop injury in the form of leaf scorching may occur in adverse growing conditions (especially if applied during or after periods of cool and wet, or hot and humid weather conditions). Refer to the BANVEL or AMMO, or BANVEL II label guide for instructions, precautions and limitations. DO NOT ADD OIL OR SURFACTANT.
WEEDS CONTROLLED	As listed for BUCK HERBICIDE used alone plus: <u>Seedlings up to the 6-leaf stage</u> Redroot pigweed and Common ragweed including triazine resistant strains.

FIELD CORN (DO NOT USE ON SWEET CORN) EASTERN CANADA

Tank mix	BUCK HERBICIDE + OPTION 2.25 OD + AATREX 480
Spray Volume + pressure	Apply in a minimum of 150 L water per hectare at a pressure of 175 – 275 kPa.
Timing	Field corn should be treated from the 1 to 8 leaf stage, or 5-6 visible collars (the leaf is counted once the next leaf is visible in the whorl). Refer to the OPTION 2.25 OD and AATREX 480 labels for further limitations and precautions.
Application rate	BUCK HERBICIDE at 0.5 L/ha tank- mixed with OPTION 2.25 OD at 1.56 L/ha plus AATREX 480 at 1.04 L/ha. Add OPTION 2.25 OD to the spray tank first and ensure the product is thoroughly mixed with water. Add correct amount of dry component next, if appropriate, followed by the correct amount of the liquid component(s).
WEEDS CONTROLLED	Barnyard grass, large crabgrass, fall panicum, bristly foxtail, green foxtail, yellow foxtail, proso millet, witchgrass, common chickweed, redroot pigweed, velvetleaf, wild mustard, wormseed mustard, eastern black nightshade, lamb's quarters, common ragweed, wild buckwheat. Refer to the OPTION 2.25 OD label for appropriate application timing relative to weed growth stages.

FIELD CORN ONLY – EASTERN CANADA

Tank mix	BUCK HERBICIDE + ULTIM 75 DF + non-ionic surfactant
Directions for use	Apply the BUCK HERBICIDE + ULTIM 75 DF tank-mix ONLY when the temperature in the 24 hours before <i>and</i> after application ranges between 5°C and 28°C. Temperatures beyond this range increase the potential for crop injury. Separate applications of ULTIM 75 DF followed by BUCK HERBICIDE (minimum 12 hours later) will reduce the potential for injury. Refer to the ULTIM 75 DF label for additional information on Environmental Conditions and Biological Activity.
Mixing	Fill the tank about 1/4 full with clean water. Turn on full agitation. Add the required amount of ULTIM 75 DF and agitate thoroughly until water soluble bags are completely dissolved and product is fully dispersed. Add the required amount of BUCK HERBICIDE , followed by a non- ionic surfactant while agitating. Fill the remainder of the spray tank. Please refer to the ULTIM 75 DF label for further limitations and precautions on mixing instructions and sprayer cleanup.
Spray Volume + pressure	Apply in 200 - 300L water per hectare at a pressure of 275 kPa by ground only. DO NOT apply using aerial application equipment.
Timing	Corn should be treated from the 4 to 6 leaf stage (up to 4 visible collars or 30 cm in height - leaf extended). Please refer to the ULTIM 75 DF label for further limitations and precautions.
Application rate	BUCK HERBICIDE at 1.0 L/ha tank- mixed with one water soluble bag/ha of ULTIM 75 DF (33.7 g/ha) and a non-ionic surfactant at 2 L per 1000 L spray solution (0.2% v/v).
WEEDS CONTROLLED	As listed for BUCK HERBICIDE used alone plus these additional weeds: <u>Seedlings up to the 6-leaf stage:</u> Barnyard grass, Proso millet**, Yellow foxtail, Green foxtail, Fall panicum, Old witchgrass and Redroot pigweed*. <u>3 to 6-leaf stage:</u> Quack grass** * including triazine resistant species ** Refer to the <i>Ultim 25DF</i> label for specific weed control recommendations

Tank mix	BUCK HERBICIDE + Atrazine + ULTIM 75 DF + non-ionic surfactant
Directions for use	Apply the BUCK HERBICIDE + Atrazine + ULTIM 75 DF tank-mix ONLY when the temperature in the 24 hours before <i>and</i> after application ranges between 5°C and 28°C. Temperatures beyond this range increase the potential for crop injury. Separate applications of ULTIM 75 DF followed by BUCK HERBICIDE (minimum 12 hours later) will reduce the potential for injury. Refer to the ULTIM 75 DF label for additional information on Environmental Conditions and Biological Activity.
Mixing	Fill the tank about 1/4 full with clean water. Turn on full agitation. Add the required amount of ULTIM 75 DF and agitate thoroughly until water soluble bags are completely dissolved and product is fully dispersed. Add the required amount of Atrazine and agitate thoroughly again. Add the required amount of BUCK HERBICIDE , followed by a non-ionic surfactant while agitating. Fill the remainder of the spray tank. Please refer to the ULTIM 75 DF label for further limitations and precautions on mixing instructions and sprayer cleanup.
Spray Volume + pressure	Apply in 200 - 300L water per hectare at a pressure of 275 kPa by ground only. DO NOT apply using aerial application equipment.
Timing	Corn should be treated from the 3 to 6 leaf stage (up to 4 visible collars or 30 cm in height - leaf extended). Please refer to the ULTIM 75 DF label for further limitations and precautions.
Application rate	BUCK HERBICIDE at 0.5 L/ha tank- mixed with Atrazine at 0.5 kg active ingredient per hectare tank-mixed with one water soluble bag/ha of ULTIM 75 DF (33.7 g/ha) and a non-ionic surfactant, at 2 L per 1000 L spray solution (0.2% v/v).
WEEDS CONTROLLED	As listed for BUCK HERBICIDE + ULTIM 75 DF plus: <u>Seedlings up to the 6-leaf stage:</u> Velvetleaf* <u>Seedlings up to 8-leaf stage:</u> Common ragweed * <i>Spray before weeds reach 10 cm in height.</i>

DIRECTIONS FOR USE: (FIELD CORN ONLY)
BUCK HERBICIDE + Accent 75 DF + non-ionic surfactant
PRAIRIE PROVINCES

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than NewAgco Inc. under the User Requested Minor Use Label Expansion program. For these uses, NewAgco Inc. 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.

Tank mix	BUCK HERBICIDE + Accent 75 DF + non-ionic surfactant
Spray Volume + pressure	Apply in a minimum of 100 L water per hectare at a pressure of 275 kPa by ground only. DO NOT apply using aerial application equipment.
Timing	Apply as a single post emergent spray. Apply post-emergence to corn when at the 4 to 8 leaf stage (2-6 visible collars). Do not apply prior to the 4-leaf (2 visible collars) or after the 8leaf (6 visible collars) stage of corn. Observe a PHI of 30 days. Refer to the Accent 75 DF label for further limitations and precautions.
Application rate	BUCK HERBICIDE at 1.0 L/ha tank-mixed with Accent 75 DF at 33.4 grams/ha and a recommended non-ionic surfactant, either Citowett Plus, Agral 90 or Agsurf at 2 L per 1000 L spray solution (0.2% v/v).
WEEDS CONTROLLED	As listed for BUCK HERBICIDE used alone plus these additional weeds: <u>Seedlings in the 1 to 6-leaf stage (up to early tillering, 2 – two leaf tillers):</u> Yellow foxtail*, barnyard grass, fall panicum, green foxtail, old witchgrass <u>Plants in the 3 to 6-leaf stage (10-20 cm in height – leaf extended):</u> Quack grass * <i>Suppression only</i>

FALL RYE (not underseeded to legumes)

Tank mix	BUCK HERBICIDE used alone
Spray Volume + pressure	Apply in 100 L water per hectare at a pressure of 275 kPa
Timing	Fall rye may be treated from the time growth begins to the early flag leaf stage in the spring.
Application rate	1.0 - 1.2 L/ha (The 8 L container treats 6.6-8 ha). If weeds are beyond the leaf stages indicated or under adverse growing conditions, use of the higher recommended rate will improve control.
WEEDS CONTROLLED	<p><u>Seedlings up to 4-leaf stage</u> Green smartweed, Pale smartweed, Lady's-thumb, Wild mustard*, Cow cockle*, Russian thistle**, Stinkweed*, Cocklebur, Common ragweed, Pigweed*, Velvetleaf***, Bluebur, American nightshade.</p> <p><u>Seedlings up to 8-leaf stage</u> Wild buckwheat, Tartary buckwheat, Common buckwheat, Common groundsel, Lamb's-quarters.</p> <p>* <i>In normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results.</i></p> <p>** <i>Spray before plants are 5 cm high.</i></p> <p>*** <i>Spray before plants are 8 cm high.</i></p>

Tank mix	BUCK HERBICIDE + MCPA
Spray Volume + pressure	Apply in 50 - 100 L water per hectare at a pressure of 275 kPa
Timing	Fall rye may be treated from the time growth begins to the early flag leaf stage in the spring.
Application rate	<p>BUCK HERBICIDE at 1.0 L/ha tank- mixed with 275 g active ingredient MCPA per hectare where indicated. Refer to the mixing tables at end of book for correct volume of MCPA. (The 8 L container of BUCK HERBICIDE treats 8 ha).</p> <p>Note: MCPA ester is preferred although other formulations may be used. Add MCPA to the spray tank first, agitate, then add BUCK HERBICIDE. Refer to the MCPA label for precautions and limitations.</p>
WEEDS CONTROLLED	<p>As listed for BUCK HERBICIDE used alone plus these additional weeds</p> <p><u>Seedlings up to 4-leaf stage</u> Redroot pigweed, Flixweed, Shepherd's purse, Scentless chamomile*, Volunteer sunflower, Volunteer rapeseed/canola**, Night flowering catchfly, Canada thistle**, Perennial sow thistle**, Ball mustard.</p> <p><u>Seedlings up to 8-leaf stage</u> Stinkweed, Common ragweed, Wild mustard, Wormseed mustard.</p> <p>* <i>Spring annuals only. Will not control overwintered weeds.</i></p> <p>** <i>Top growth control only.</i></p>

FLAX (including low linolenic acid varieties)

Tank mix	BUCK HERBICIDE used alone
Spray Volume + pressure	Apply in 100 L water per hectare at a pressure of 275 kPa.
Timing	Flax may be treated from the time it is 5 cm high up to the early flower bud stage but for best results apply BUCK HERBICIDE when flax is 5-10 cm high. Note: Spraying in the evening may reduce risk of flax injury. Warning: Do not spray unthrifty crops or when plants are under stress. Do not spray in periods of hot, humid weather. DO NOT SPRAY FLAX BY AIRCRAFT. Observe a minimum interval to harvest of 60 days after application of BUCK HERBICIDE . Flax is less tolerant of this product than are the cereal crops. Some leaf burn and retarded growth may delay maturity 2-3 days. Avoid Using BUCK HERBICIDE when flax is under stress or during hot (over 29°C) humid weather as severe crop injury may occur.
Application rate	1.0 L/ha
WEEDS CONTROLLED	Seedlings up to 4-leaf stage Green smartweed, Pale smartweed, Lady's-thumb, Wild mustard*, Cow cockle*, Russian thistle**, Stinkweed*, Cocklebur, Common ragweed, triazine-resistant Pigweed*, Velvetleaf***, Bluebur, American nightshade. Seedlings up to 8-leaf stage Wild buckwheat, Tartary buckwheat, Common buckwheat, Common groundsel, Lamb's-quarters. * <i>In normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled.</i> ** <i>Spray before plants are 5 cm high.</i> *** <i>Spray before plants are 8 cm high.</i>

Tank mix	BUCK HERBICIDE + MCPA or MCPA-K
Spray Volume + pressure	Apply in 100 L water per hectare at a pressure of 275 kPa.
Timing	Flax may be treated from the time it is 5 cm high up to the early flower bud stage but for best results apply BUCK HERBICIDE when flax is 5-10 cm high. Note: Spraying in the evening may reduce risk of flax injury. Warning: Do not spray unthrifty crops or when plants are under stress. Do not spray in periods of hot, humid weather. DO NOT SPRAY FLAX BY AIRCRAFT. Observe a minimum interval to harvest of 60 days after application of BUCK HERBICIDE . Flax is less tolerant of this product than are the cereal crops. Some leaf burn and retarded growth may delay maturity 2-3 days. Avoid Using BUCK HERBICIDE when flax is under stress or during hot (over 29°C) humid weather as severe crop injury may occur.
Application rate	BUCK HERBICIDE at 1.0 L/ha tank mixed with MCPA or MCPA-K at 275 g a.i./ha. Follow all precautions, limitations and timing recommendations on MCPA labels. The amine, ester or K-salt formulations of MCPA can be used in tank mixtures.
WEEDS CONTROLLED	As listed for BUCK HERBICIDE used alone plus these additional weeds Seedlings up to 4-leaf stage Redroot pigweed, Flixweed, Shepherd's purse, Scentless chamomile*, Volunteer sunflower, Volunteer rapeseed/canola**, Hemp nettle***, Night flowering catchfly, Canada thistle****, Perennial sow thistle****, Ball mustard. Seedlings up to 8-leaf stage Stinkweed, Common ragweed, Wild mustard, Wormseed mustard. * <i>Spring annuals only. Will not control overwintered weeds.</i> ** <i>For high infestations tank-mix 550 g active ingredient MCPA per ha.</i> *** <i>Tank-mix 550 g active ingredient MCPA per ha. Plants beyond the 4-leaf stage are not likely to be controlled. Plants emerging after application, which is often the case on peat-type soils, will not be controlled.</i> **** <i>Top growth control only.</i>

CANARY SEED (for seed production)

Tank mix	BUCK HERBICIDE used alone
Spray Volume + pressure	Apply in 100 L water per hectare at a pressure of 275 kPa
Timing	The crop may be treated from the 3 to 5 leaf stage.
Application rate	1.0 L/ha (The 8 L container treats 8 ha).
WEEDS CONTROLLED	<p><u>Seedlings up to 4-leaf stage</u> Green smartweed, Pale smartweed, Lady's-thumb, Wild mustard*, Cow cockle*, Russian thistle**, Stinkweed*, Cocklebur, Common ragweed, Pigweed*, Velvetleaf***, Bluebur, American nightshade.</p> <p><u>Seedlings up to 8-leaf stage</u> Wild buckwheat, Tartary buckwheat, Common buckwheat, Common groundsel, Lamb's-quarters.</p> <p>* <i>In normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled.</i></p> <p>** <i>Spray before plants are 5 cm high.</i></p> <p>*** <i>Spray before plants are 8 cm high.</i></p>

Tank mix	BUCK HERBICIDE + MCPA
Spray Volume + pressure	Apply in 50 - 100 L water per hectare at a pressure of 275 kPa
Timing	The crop may be treated from the 3 to 5 leaf stage.
Application rate	<p>BUCK HERBICIDE at 1.0 L/ha tank- mixed with 275 g active ingredient MCPA per hectare.</p> <p>Refer to the table at end of book for correct volume of MCPA. (The 8 L container of BUCK HERBICIDE treats 8 ha).</p> <p>Note: MCPA ester is preferred although other formulations may be used. Add MCPA to the spray tank first, agitate, then add BUCK HERBICIDE. Refer to the MCPA label for precautions and limitations.</p>
WEEDS CONTROLLED	<p>As listed for BUCK HERBICIDE used alone plus these additional weeds</p> <p><u>Seedlings up to 4-leaf stage</u> Redroot pigweed, Flixweed, Shepherd's purse, Scentless chamomile*, Volunteer sunflower, Volunteer rapeseed/canola**, Night flowering catchfly, Canada thistle**, Perennial sow thistle**, Ball mustard.</p> <p><u>Seedlings up to 8-leaf stage</u> Stinkweed, Common ragweed, Wild mustard, Wormseed mustard.</p> <p>* <i>Spring annuals only. Will not control overwintered weeds.</i></p> <p>** <i>Top growth control only.</i></p>

TRITICALE

Tank mix	BUCK HERBICIDE used alone
Spray Volume + pressure	Apply in 100 L water/ha at a pressure of 275 kPa.
Timing	The crop may be treated from the 2-leaf until the early flag leaf stage.
Application rate	1.0 - 1.2 L/ha (The 8L container treats 6.6-8 ha). If weeds are beyond the leaf stage indicated or under adverse growing conditions, use of the higher recommended rate will improve control.
WEEDS CONTROLLED	<p><u>Seedlings up to 4-leaf stage</u> Green smartweed, Pale smartweed, Lady's-thumb, Wild mustard*, Cow cockle*, Russian thistle**, Stinkweed*, Cocklebur, Common ragweed, Pigweed*, Velvetleaf***, Bluebur, American nightshade.</p> <p><u>Seedlings up to 8-leaf stage</u> Wild buckwheat, Tartary buckwheat, Common buckwheat, Common groundsel, Lamb's-quarters.</p> <p>* <i>In normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results.</i></p> <p>** <i>Spray before plants are 5 cm high.</i></p> <p>*** <i>Spray before plants are 8 cm high</i></p>

GARLIC

Tank mix	BUCK HERBICIDE used alone
Spray Volume + pressure	Apply in 200 - 300 L water per hectare at a pressure of 275 kPa.
Timing	Apply early post emergent to weeds by ground application only. One application per year. Observe a PHI of 58 days.
Application rate	1.0 L/ha
WEEDS CONTROLLED	<p><u>Seedlings up to 4-leaf stage</u> Green smartweed, Pale smartweed, Lady's-thumb, Wild mustard*, Cow cockle*, Russian thistle**, Stinkweed*, Cocklebur, Common ragweed, Pigweed*, Velvetleaf***, Bluebur, American nightshade.</p> <p><u>Seedlings up to 8-leaf stage</u> Wild buckwheat, Tartary buckwheat, Common buckwheat, Common groundsel, Lamb's-quarters.</p> <p>* <i>In normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results.</i></p> <p>** <i>Spray before plants are 5 cm high.</i></p> <p>*** <i>Spray before plants are 8 cm high.</i></p>

CARROT

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than NewAgco Inc. under the User Requested Minor Use Label Expansion program. For these uses, NewAgco Inc. 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.

Tank mix	BUCK HERBICIDE used alone
Spray Volume + pressure	Apply in 200 - 300 L water per hectare at a pressure of 275 kPa.
Timing	Apply only to carrots grown on muck soils containing greater than 10% organic matter. Apply 3-4 days prior to crop emergence by ground application only. One application per year. Observe a PHI of 45 days. Do not irrigate carrots that have received a preemergence application of BUCK HERBICIDE for 2 days following application or 3 days of crop emergence.
Application rate	1.0 - 1.2 L/ha BUCK HERBICIDE is a contact herbicide thus good coverage of the weeds is essential.
WEEDS CONTROLLED	<p>Seedlings up to 4-leaf stage Green smartweed, Pale smartweed, Lady's-thumb, Wild mustard*, Cow cockle*, Russian thistle**, Stinkweed*, Cocklebur, Common ragweed, Pigweed*, Velvetleaf***, Bluebur, American nightshade.</p> <p>Seedlings up to 8-leaf stage Wild buckwheat, Tartary buckwheat, Common buckwheat, Common groundsel, Lamb's-quarters.</p> <p>* In normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results.</p> <p>** Spray before plants are 5 cm high.</p> <p>*** Spray before plants are 8 cm high.</p>

PROVINCES OF ALBERTA, SASKATCHEWAN, MANITOBA ONLY SEEDLING ALFALFA

Tank mix	BUCK HERBICIDE used alone
Spray Volume + pressure	Apply in 100 L water/ha at a pressure of 275 kPa – ground application only.
Timing	Seedling alfalfa may be treated at the 2 to 6 trifoliate leaf stage.
Application rate	1.0 L/ha (The 8L container treats 8 ha). Note: Use of this product may cause temporary leaf scorch or foliar burn in adverse growing conditions, especially if applied during or after periods of cool and wet, or hot and humid weather conditions. Do not apply if crop is under stress. Do not apply to alfalfa seedlings in the unifoliate or 1st trifoliate leaf stage. Avoid overlapping as severe crop injury may occur.
WEEDS CONTROLLED	<p>Seedlings up to 4-leaf stage: Green smartweed, Pale smartweed, Lady's-thumb, Wild mustard*, Cow cockle*, Russian thistle**, Stinkweed*, Cocklebur, Common ragweed, Velvetleaf***, Bluebur, American nightshade.</p> <p>Seedlings up to 8-leaf stage: Wild buckwheat, Tartary buckwheat, Common buckwheat, Common groundsel, Lamb's-quarters.</p> <p>* In normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results.</p> <p>** Spray before plants are 5 cm high.</p> <p>*** Spray before plants are 8 cm high.</p>

**PROVINCES OF ALBERTA, SASKATCHEWAN, MANITOBA ONLY ESTABLISHED ALFALFA
(for seed production only)**

Tank mix	BUCK HERBICIDE used alone
Spray Volume + pressure	Apply in 100 L water/ha at a pressure of 275 kPa – ground application only.
Timing	Established alfalfa may be treated until alfalfa is 25 cm tall. Maximum of 2 applications per year. Minimum re-treatment interval for the second application is 21 days
Application rate	1.0 - 1.2 L/ha (The 8L container treats 6.6-8 ha). If weeds are beyond the leaf stage indicated or under adverse growing conditions, use of the higher recommended rate will improve control. Note: Use of this product may cause temporary leaf scorch or foliar burn in adverse growing conditions, especially if applied during or after periods of cool and wet, or hot and humid weather conditions. Crop will recover and yield will not be affected.
WEEDS CONTROLLED	Seedlings up to 4-leaf stage Green smartweed, Pale smartweed, Lady's-thumb, Wild mustard*, Cow cockle*, Russian thistle**, Stinkweed*, Cocklebur, Common ragweed, Velvetleaf***, Bluebur, American nightshade.. Seedlings up to 8-leaf stage Wild buckwheat, Tartary buckwheat, Common buckwheat, Common groundsel, Lamb's-quarters. * <i>In normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results.</i> ** <i>Spray before plants are 5 cm high.</i> *** <i>Spray before plants are 8 cm high.</i>

PRE-SEED/PRE-PLANT APPLICATION PRIOR TO SEEDING CANOLA

Tank mix	BUCK HERBICIDE + glyphosate (present as potassium or isopropylamine salt, dimethylamine, or diammonium salt)
Spray Volume + pressure	Apply in 100 L of clean water per hectare at a pressure of 275 kPa.
Timing	Application can be made up to one day prior to seeding. DO NOT apply after seeding or crop emergence.
Application rate	BUCK HERBICIDE at 1.0 – 1.25 L/ha tank-mixed with glyphosate at 448 – 1782 g a.e./ha. Under adverse growing conditions or heavy weed populations use of the higher recommended rate of BUCK HERBICIDE will improve control. BUCK HERBICIDE should be added to the spray tank first, then add glyphosate. Refer to the glyphosate label for the appropriate glyphosate use rate, precautions, mixing instructions and other use instructions.
WEEDS CONTROLLED	Annual and perennial weeds listed on the glyphosate label, volunteer canola* seedlings at the 1-4 leaf stage * Including herbicide resistant biotypes.

MINIMUM OR ZERO TILL

Tank mix	BUCK HERBICIDE + glyphosate (present as potassium or isopropylamine salt, dimethylamine, or diammonium salt)
Spray Volume + pressure	Apply in 100 L of clean water per hectare at a pressure of 275 kPa
Timing	<p>This recommendation applies only to minimum or zero till situations before emergence of the crop.</p> <p>Application can be made just prior to or immediately after seeding.</p> <p>Under no circumstances should application be made after crop emergence. Weeds in the seedling stage are most susceptible.</p> <p>This treatment should only be used for minimum or zero-tillage cropping systems in wheat, barley and oats.</p>
Application rate	<p>BUCK HERBICIDE at 1.0 – 1.25 L/ha tank-mixed with glyphosate at 396 g a.e./ha. Under adverse growing conditions or when high populations of volunteer canola are present, use of the higher recommended rate of BUCK HERBICIDE will improve control.</p> <p>BUCK HERBICIDE should be added to the spray tank first, then add glyphosate.</p> <p>Refer to the glyphosate label for the appropriate glyphosate use rate, precautions, mixing instructions and other use instructions.</p>
WEEDS CONTROLLED	<p><u>Seedlings up to 4-leaf stage</u> Green smartweed, Pale smartweed, Lady's-thumb, Wild mustard*, Cow cockle*, Russian thistle**, Stinkweed*, Cocklebur, Common ragweed, Pigweed*, Velvetleaf***, Bluebur, American nightshade, Volunteer canola****.</p> <p><u>Seedlings up to 8-leaf stage</u> Wild buckwheat, Tartary buckwheat, Common buckwheat, Common groundsel, Lamb's-quarters.</p> <p><u>Grassy weeds up to 15 cm</u> Wild oats, Volunteer cereals, Green foxtail</p> <p>* <i>In normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled.</i></p> <p>** <i>Spray before plants are 5 cm high,</i></p> <p>*** <i>Spray before plants are 8 cm high.</i></p> <p>**** <i>Including herbicide tolerant types.</i></p>

SEEDLING GRASSES (not underseeded to legumes)

Tank mix	BUCK HERBICIDE used alone
Spray Volume + pressure	Apply in 150 L water per hectare at a pressure of 275 kPa.
Timing	Seedling grasses may be treated from the 2 to 4 leaf stage.
Application rate	<p>1.0 - 1.2 L/ha (The 8 L container treats 6.6-8 ha).</p> <p>If weeds are beyond the leaf stage indicated or under adverse growing conditions, use of the higher recommended rate will improve control.</p> <p>Note: Grasses grown for seed production in the year of establishment only.</p> <p>Crops: Brome grass, Crested wheat grass, Intermediate wheat grass, Slender wheat grass, Tall wheat grass, Russian wild rye, Timothy, Orchard grass, creeping red fescue, Meadow fescue, Reed canary grass.</p>
WEEDS CONTROLLED	<p>Seedlings up to 4-leaf stage Green smartweed, Pale smartweed, Lady's-thumb, Wild mustard*, Cow cockle*, Russian thistle**, Stinkweed*, Cocklebur, Common ragweed, Pigweed*, Velvetleaf***, Bluebur, American nightshade.</p> <p>Seedlings up to 8-leaf stage Wild buckwheat, Tartary buckwheat, Common buckwheat, Common groundsel, Lamb's-quarters.</p> <p>* <i>In normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results.</i></p> <p>** <i>Spray before plants are 5 cm high.</i></p> <p>*** <i>Spray before plants are 8 cm high.</i></p>

Tank mix	BUCK HERBICIDE + MCPA
Spray Volume + pressure	Apply in 150 L water per hectare at a pressure of 275 kPa.
Timing	Seedling grasses may be treated from the 2 to 4 leaf stage.
Application rate	<p>BUCK HERBICIDE at 1.0 L/ha tank- mixed with 275 g active ingredient MCPA per hectare. Refer to the table at end of book for correct volume of MCPA. (The 8 L container of BUCK HERBICIDE treats 8 ha).</p> <p>Note: MCPA ester is preferred although other formulations may be used. Add MCPA to the spray tank first, agitate, then add BUCK HERBICIDE. Refer to the MCPA label for precautions and limitations.</p>
WEEDS CONTROLLED	<p>As listed for BUCK HERBICIDE used alone plus these additional weeds</p> <p>Seedlings up to 4-leaf stage Redroot pigweed, Flixweed, Shepherd's purse, Scentless chamomile*, Volunteer rapeseed/canola**, Volunteer sunflower, Night flowering catchfly, Canada thistle**, Perennial sow thistle**, Ball mustard.</p> <p>Seedlings up to 8-leaf stage Stinkweed, Common ragweed, Wild mustard, Wormseed mustard.</p> <p>* <i>Spring annuals only. Will not control overwintered weeds.</i></p> <p>** <i>Top growth control only.</i></p>

FORAGE SORGHUM AND FORAGE MILLET

Tank mix	BUCK HERBICIDE used alone
Spray Volume + pressure	Apply in 200 – 300 L water per hectare at a pressure of 275 kPa.
Timing	Apply when the crop is at or beyond the 4 leaf stage and less than 20 cm in height by ground application only. One application per year. Observe a PHI of 30 days.
Application rate	1.0 L/ha
WEEDS CONTROLLED	<p><u>Seedlings up to 4-leaf stage</u> Green smartweed, Pale smartweed, Lady’s-thumb, Wild mustard*, Cow cockle*, Russian thistle**, Stinkweed*, Cocklebur, Common ragweed, Pigweed*, Velvetleaf***, Bluebur, American nightshade.</p> <p><u>Seedlings up to 8-leaf stage</u> Wild buckwheat, Tartary buckwheat, Common buckwheat, Common groundsel, Lamb’s-quarters.</p> <p>* <i>In normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results.</i></p> <p>** <i>Spray before plants are 5 cm high.</i></p> <p>*** <i>Spray before plants are 8 cm high.</i></p>

DIRECTIONS FOR USE: GRAIN SORGHUM and GRAIN PEARL MILLET
BUCK HERBICIDE

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Tank mix	BUCK HERBICIDE used alone
Spray Volume + pressure	Apply in 200-300 L water/ha at a pressure of 275 kPa.
Timing	Apply when the crop is at or beyond the 4 leaf stage and less than 20 cm in height by ground application only. One application per year. Observe a PHI of 100 days.
Application rate	BUCK HERBICIDE at 1.0 L/ha.
WEEDS CONTROLLED	<p><u>Seedlings up to 4-leaf stage</u> Green smartweed, Pale smartweed, Lady’s-thumb, Wild mustard*, Cow cockle*, Russian thistle**, Stinkweed*, Cocklebur, Common ragweed, Pigweed*, Velvetleaf***, Bluebur, American nightshade</p> <p><u>Seedlings up to 8-leaf stage</u> Wild buckwheat, Tartary buckwheat, Common buckwheat, Common groundsel, Lamb’s-quarters.</p> <p>* <i>In normal conditions will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled. The higher rate generally gives better results.</i></p> <p>** <i>Spray before plants are 5 cm high.</i></p> <p>*** <i>Spray before plants are 8 cm high.</i></p>

MIXING TABLE

For calculating the amount of product to add to the spray tank when applying 100 L spray solution per hectare.

		BUCK HERBICIDE (280 g/L)		MCPA AMINE 500 or MCPA ESTER 500		MCPA-K 400		MCPA SODIUM SALT 300	
Rate active per hectare		280 g	340g	275g	550g	275g	550g	275g	550g
Rate product per hectare		1.0L	1.2L	550 mL	1.1L	690 mL	1.38 L	920 mL	1.83 L
Size of Spray tank		Litres of Chemical to add to spray tank (approx.)							
Gallons	Liters								
500	2273	22.7	27.3	12.5	25.0	15.7	31.4	20.9	41.6
400	1818	18.2	21.8	10.0	20.0	12.5	25.0	16.7	33.3
350	1591	16.0	19.1	8.75	17.5	11.0	22.0	14.6	29.2
300	1363	13.6	16.4	7.5	15.0	9.4	18.8	12.5	25.0
250	1136	11.4	13.6	6.25	12.5	7.8	15.7	10.5	20.8
200	909	9.1	10.9	5.0	10.0	6.25	12.5	8.4	16.6
100	455	4.5	5.5	2.5	5.0	3.2	6.3	4.2	8.4
50	227	2.3	2.7	1.25	2.5	1.6	3.2	2.1	4.2
22	100	1.0	1.2	550 mL	1.1	690 mL	1.38	920 mL	1.8
10	45	450 mL	540 mL	250 mL	500 mL	310 mL	620 mL	420 mL	820 mL

		BUCK HERBICIDE (280 g/L)		2,4-D AMINE 500		2,4-D 600 LV ESTER		2,4-D 700 LV ESTER	
Rate active per hectare		280 g	340g	275g		275g		275g	
Rate product per hectare		1.0L	1.2 L	550 mL		458 mL		393 mL	
Size of Spray Tank		Litres of chemical to add to the spray tank (approx.)							
Gallons	Liters								
500	2273	22.7	27.3	12.5		10.4		8.9	
400	1818	18.2	21.8	10.0		8.3		7.1	
350	1591	16.0	19.1	8.75		7.3		6.25	
300	1363	13.6	16.4	7.5		6.25		5.4	
250	1136	11.4	13.6	6.25		5.2		4.5	
200	909	9.1	10.9	5.0		4.2		3.6	
100	455	4.5	5.5	2.5		2.1		1.8	
50	227	2.3	2.7	1.25		1.0		890 mL	
22	100	1.0	1.2	550 mL		458 mL		390 mL	
10	45	450 mL	540 mL	250 mL		210 mL		180 mL	

RESISTANCE-MANAGEMENT RECOMMENDATIONS:

For resistance management, **BUCK HERBICIDE** is a Group 6 herbicide. Any weed population may contain or develop plants naturally resistant to **BUCK HERBICIDE** and other Group 6 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 **BUCK HERBICIDE** or other Group 6 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 your local AgraCity representative, or call NewAgco Inc., toll-free at 1-844-269-3276.

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