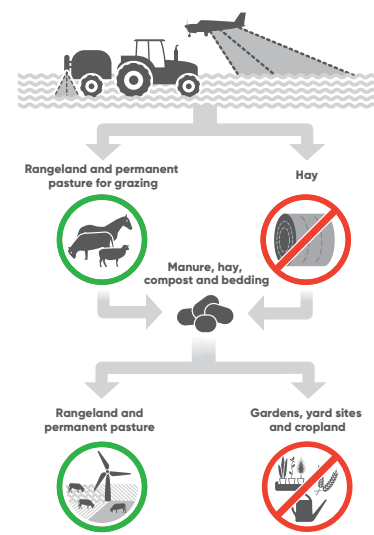
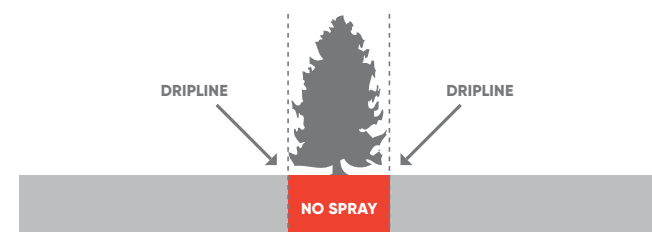


Hay, soil and manure management

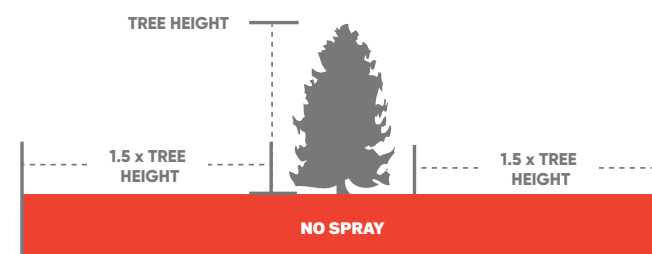


- Soil from treated areas should not be moved to areas where sensitive plants may be planted within five years.
- Manure from livestock consuming treated grass should not be used for compost or around susceptible plants.
- Clippings from grass that has been treated with range and pasture herbicides should not be used for composting or mulching.

Buffers



- Reclaim™ II, Restore™ II and Restore™ NXT with Rinskor™ active herbicides should NOT be used over the top of desirable trees. They should only be used up to the dripline (outermost edge of the tree canopy) of desirable trees. Use additional caution around lateral root systems, shallow rooting species and those that propagate vegetatively through layering.



- Grazon™ XC herbicide and Tordon™ 22K herbicide should NOT be used over the top of desirable trees. Applications should remain a distance of 1.5 times the height of desirable trees at all times.
- Do not apply Grazon XC or Tordon 22K to coarse texture soils (>40 percent sand) with a high water table (within 1.8 metres or 6 feet of the soil surface).
- Do not apply Grazon XC or Tordon 22K within 30 metres (approximately 100 feet) of an open water body (does not include dugouts) or as per provincial regulations.

Grazing and cutting restrictions



- No grazing restrictions for livestock. Seven-day grazing restriction for lactating dairy animals for Restore II, Reclaim II, Grazon XC and Tordon 22K.
- Withdraw all animals three days prior to slaughter.
- If forage or hay must be removed from an area treated with Restore II, Reclaim II, Grazon XC or Tordon 22K, do not cut the forage or hay within 30 days of application. Allow 7 days after an application of Restore NXT before cutting forage or hay.
- If livestock is being moved from a pasture treated with these herbicides to a legume-based pasture, it is recommended that animals be grazed on an untreated, non-legume-based pasture for three days when treating with Restore II, Restore NXT or Reclaim II and seven days when treating with Grazon XC or Tordon 22K.

Range & Pasture products are designed for permanent grass pasture and rangeland where grazing is the method of harvest. The manure or compost from an animal fed treated forage should only be used on appropriate use sites where the loss of broadleaf plants, including legumes, can be tolerated.

Re-seeding and grass tolerance



- Newly seeded grass should not be sprayed until secondary root development and a minimum of four leaf surfaces have established – well past the seedling stage.



- Safe to established grasses.
- Grasses may be seeded 10 months following an application.
- Legume re-establishment may be affected for up to five years.
- Soil organic matter, rainfall and temperature all affect the rate of degradation.



- Avoid applications under stress conditions when grass is not actively growing (hot or cold weather, excessive moisture or drought) as grass injury including leaf discoloration and stunting of growth in the season of application may result.

Range & Pasture products

Grazon™ XC

HERBICIDE

Broad-spectrum control of undesirable pasture species. Recommended rate for weed control is 1.9 L/ac. For tree recommendations, please contact your local Corteva Agriscience™ Range & Pasture Expert.

Reclaim™ II

HERBICIDE

The most effective control of the toughest weeds and shrubs in rangeland and permanent pasture, providing increased grass production and extended control. Recommended rate for extended weed and shrub control is 20 ac/case.

Restore™ II

HERBICIDE

The cost effective choice for invasive weed control and increased grass production. Recommended rate for weed control is 1 L/ac.

NEW

Restore™ NXT

Rinskor™ active

HERBICIDE

Provides selective control of invasive broadleaf weeds while utilizing lower use rates. Recommended rate for weed control is 0.6 L/ac.

Tordon™ 22K

HERBICIDE

Provides the longest lasting control of deep rooted, hard to control leafy spurge and yellow toadflax. For rate recommendations, please contact your local Corteva Agriscience Range & Pasture Expert.

Broadcast and spot spraying

	Broadcast application 20 gal/ac water volume	Spot application Mixing in 10 L water
Restore™ II ¹ herbicide	20 ac/case	24 mL (i.e. 0.24% solution)
Restore™ NXT herbicide with Rinskor™ active ¹	33 ac/case PLUS 0.25–0.5% v/v non-ionic surfactant	15 mL (ie 0.15% solution) 0.5% v/v surfactant
Reclaim™ II ¹ herbicide	20 ac/case PLUS 0.2% v/v non-ionic surfactant	2.3 g Reclaim II A 17 mL Reclaim II B 20 mL surfactant
Grazon™ XC ² herbicide	1.9 L/ac for weed control For tree rates contact Corteva Agriscience	67 mL (i.e. 0.67% solution)
Tordon™ 22K ² herbicide	1.8 L/ac	50 mL (i.e. 0.50% solution)

For backpack/spot application:

¹ Thoroughly and uniformly wet the foliage, but not to the point of runoff.

² Apply to foliage until wet, up to the point of runoff.

Maximum one application per year for all treatments.

Water volumes

Ground: Minimum 20 gal/ac

Aerial: Minimum 5 gal/ac

Rainfast

4 hours



For specific weed, brush and tree control advice, please contact your Corteva Agriscience™ Range & Pasture Expert or visit RangeAndPasture.corteva.ca



Always read and follow label directions.
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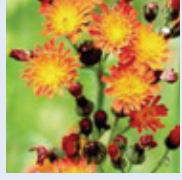


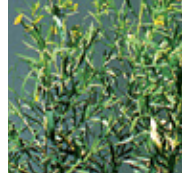
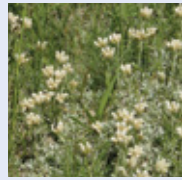
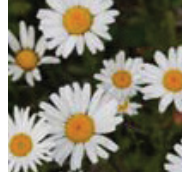
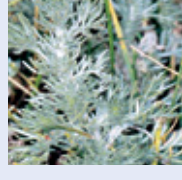
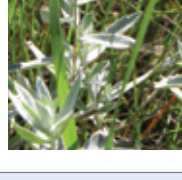
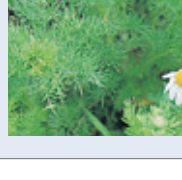
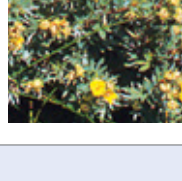
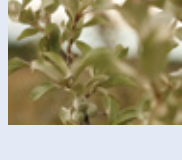
2024 Range & Pasture: Invasive weed, brush and tree control guide

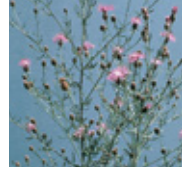
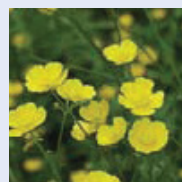

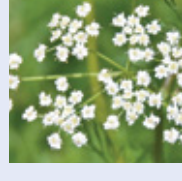

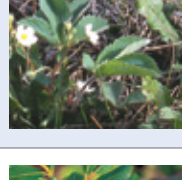
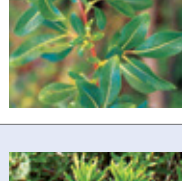



Visit us at RangeAndPasture.corteva.ca

Invasive plants can thrive and spread aggressively reducing the quality and quantity of forage available to grazing animals. Here are some of the most invasive weeds, brush and trees to watch out for:

NAME	IMAGE	HERBICIDE	APPLICATION
ABSINTH WORMWOOD <i>Weed, invasive</i>		Reclaim™ II herbicide (20 ac/case) Restore™ II herbicide (1 L/ac) Restore™ NXT herbicide with Rinskor™ active (0.6 L/ac)	Treat in the juvenile stage, when actively growing. Best timing: early to mid-June. Add a non-ionic surfactant such as Gateway™ adjuvant at 0.2% v/v to Reclaim II for ground application and 1% v/v for aerial application. Add a non-ionic surfactant such as Gateway at 0.25-0.5% v/v to Restore NXT for ground application and 0.25-0.5% v/v for aerial application.
ASPEN, WHITE POPLAR <i>Tree</i>		Grazon™ XC herbicide (2.5 L/ac)	Ensure active growth with no insect or disease pressures. Apply at full leaf until August on trees up to 12' in height. Add a non-ionic surfactant such as Gateway adjuvant at 0.25% v/v to Grazon XC for ground application and 1% v/v for aerial application.
BIRCH <i>Tree</i>		Grazon XC herbicide (2.5 L/ac)	Ensure active growth with no insect or disease pressures. Apply at full leaf until August. Add a non-ionic surfactant such as Gateway adjuvant at 0.25% v/v to Grazon XC for ground application and 1% v/v for aerial application.
CANADA THISTLE <i>Weed, invasive</i>		Reclaim II herbicide (20 ac/case) Grazon XC herbicide (1.9 L/ac) Restore II herbicide (1 L/ac) Restore NXT herbicide (0.6 L/ac)	Spray once all thistles have emerged, prior to flowering – typically in mid-June to late July. For infestations that have been established for over two years, either broadcast or spot applications may be required in subsequent years to manage the problem and to remove heavy infestations. Add a non-ionic surfactant such as Gateway adjuvant at 0.2% v/v to Reclaim II for ground application and 1% v/v for aerial application. Add a non-ionic surfactant such as Gateway at 0.25-0.5% v/v to Restore NXT for ground application and 0.25-0.5% v/v for aerial application.
COMMON TANSY <i>Weed, invasive</i>		Reclaim™ II herbicide (20 ac/case)	Apply from rosette to bolt, prior to flowering. Add a non-ionic surfactant such as Gateway adjuvant at 0.2% v/v to Reclaim II for ground application and 1% v/v for aerial application.
DANDELION <i>Weed</i>		Reclaim II herbicide (20 ac/case) Grazon XC herbicide (1.9 L/ac)	Apply anytime from early spring when rosettes are first emerging up to the end of flowering – typically late May to mid-July. Add a non-ionic surfactant such as Gateway adjuvant at 0.2% v/v to Reclaim II for ground application and 1% v/v for aerial application.
HOUND'S TONGUE <i>Weed, invasive</i>		Restore II herbicide (1 L/ac)	Apply when actively growing, prior to flowering.
HAWKWEED SPECIES <i>Weed, invasive</i>		Reclaim II herbicide (20 ac/case) Restore II herbicide (1 L/ac) Restore NXT herbicide (0.6 L/ac)	Apply when actively growing, prior to flowering. Add a non-ionic surfactant such as Gateway adjuvant at 0.2% v/v to Reclaim II for ground application and 1% v/v for aerial application. Add a non-ionic surfactant such as Gateway at 0.25-0.5% v/v to Restore NXT for ground application and 0.25-0.5% v/v for aerial application.

NAME	IMAGE	HERBICIDE	APPLICATION
LEAFY SPURGE <i>Deep-rooted perennial, invasive</i>		Tordon™ 22K herbicide: Broadcast – 1.8 L/acre; Spot spray – 3.6 L/ac where no more than 50% of an acre is treated. Grazon™ XC herbicide: 1.9 L/ac	Apply when actively growing when in full true flower, prior to seed set. Grazon XC provides seasonal control of leafy spurge. Subsequent treatments may be required. Add a non-ionic surfactant such as Gateway™ adjuvant at 0.25% v/v to Grazon XC for ground application and 1% v/v for aerial application.
LOW EVERLASTING SAGE (PUSSY-TOES) <i>Weed, invasive</i>		Reclaim™ II herbicide (20 ac/case)	Apply when actively growing, prior to flowering. Add a non-ionic surfactant such as Gateway adjuvant at 0.2% v/v to Reclaim II for ground application and 1% v/v for aerial application.
OX-EYE DAISY <i>Weed, invasive</i>		Reclaim II herbicide (20 ac/case) Restore™ II herbicide (1 L/ac) Restore™ NXT herbicide with Rinskor™ active (0.6 L/ac)	Apply when actively growing, prior to flowering. Add a non-ionic surfactant such as Gateway adjuvant at 0.2% v/v to Reclaim II for ground application and 1% v/v for aerial application. Add a non-ionic surfactant such as Gateway at 0.25-0.5% v/v to Restore NXT for ground application and 0.25-0.5% v/v for aerial application.
PASTURE SAGE (FRINGED) <i>Weed</i>		Reclaim II herbicide (20 ac/case)	Apply when actively growing, prior to flowering. Add a non-ionic surfactant such as Gateway adjuvant at 0.2% v/v to Reclaim II for ground application and 1% v/v for aerial application.
PRAIRIE SAGE <i>Weed</i>		Reclaim II herbicide (20 ac/case)	Apply when actively growing. Early to mid-June is ideal. Add a non-ionic surfactant such as Gateway adjuvant at 0.2% v/v to Reclaim II for ground application and 1% v/v for aerial application.
SCENTLESS CHAMOMILE <i>Weed, invasive</i>		Reclaim II herbicide (20 ac/case) Restore II herbicide (1 L/ac) Restore NXT herbicide (0.6 L/ac)	Apply when actively growing, prior to flowering. Add a non-ionic surfactant such as Gateway adjuvant at 0.2% v/v to Reclaim II for ground application and 1% v/v for aerial application. Add a non-ionic surfactant such as Gateway at 0.25-0.5% v/v to Restore NXT for ground application and 0.25-0.5% v/v for aerial application.
SHRUBBY CINQUEFOIL <i>Shrub</i>		Reclaim II herbicide (20 ac/case)	Apply to actively growing plants, after full leaf expansion. The best timing is early/mid-June to early July. Add a non-ionic surfactant such as Gateway adjuvant at 0.2% v/v to Reclaim II for ground application and 1% v/v for aerial application.
SILVERBERRY (WOLF WILLOW) <i>Shrub</i>		Reclaim II herbicide (20 ac/case)	Apply to actively growing plants after full leaf expansion, but prior to the development of a waxy cuticle on the leaf of the shrub – typically early June to mid-July. Add a non-ionic surfactant such as Gateway adjuvant at 0.2% v/v to Reclaim II for ground application and 1% v/v for aerial application.

NAME	IMAGE	HERBICIDE	APPLICATION
SPOTTED KNAPWEED <i>Weed</i>		Reclaim™ II herbicide (20 ac/case) Restore™ II herbicide (1 L/ac) Restore™ NXT herbicide with Rinskor™ active (0.6 L/ac)	Apply prior to flowering in the spring – typically late May to June. Application during the summer will provide control; however, either broadcast or spot applications may be required in subsequent years to manage the problem and to remove heavy infestations. Add a non-ionic surfactant such as Gateway™ adjuvant at 0.2% v/v to Reclaim II for ground application and 1% v/v for aerial application. Add a non-ionic surfactant such as Gateway at 0.25-0.5% v/v to Restore NXT for ground application and 0.25-0.5% v/v for aerial application.
TALL BUTTERCUP <i>Weed, invasive</i>		Reclaim II herbicide (20 ac/case) Restore II herbicide (1 L/ac) Restore NXT herbicide (0.6 L/ac)	Apply anytime from early spring when rosettes are first emerging up to the later stages of flowering – typically late May to mid-July. Add a non-ionic surfactant such as Gateway adjuvant at 0.2% v/v to Reclaim II for ground application and 1% v/v for aerial application. Add a non-ionic surfactant such as Gateway at 0.25-0.5% v/v to Restore NXT for ground application and 0.25-0.5% v/v for aerial application.
WESTERN SNOWBERRY (BUCKBRUSH) <i>Shrub</i>		Reclaim II herbicide (20 ac/case)	Apply to actively growing plants after full leaf expansion, but prior to the development of a waxy cuticle on the leaf of the shrub – typically June to early July. Late springs will delay full leaf out and applications should be delayed. Control will be reduced if applied later in the season, past mid-July, once plants have hardened off. Add a non-ionic surfactant such as Gateway adjuvant at 0.2% v/v to Reclaim II for ground application and 1% v/v for aerial application.
WILD CARAWAY <i>Weed, invasive</i>		Reclaim II herbicide (20 ac/case) Restore NXT herbicide (0.6 L/ac)	Apply when actively growing, prior to flowering. Add a non-ionic surfactant such as Gateway adjuvant at 0.2% v/v to Reclaim II for ground application and 1% v/v for aerial application. Add a non-ionic surfactant such as Gateway at 0.25-0.5% v/v to Restore NXT for ground application and 0.25-0.5% v/v for aerial application.
WILD ROSE <i>Shrub</i>		Reclaim II herbicide (20 ac/case)	Apply to actively growing plants, after full leaf expansion – typically June to mid-July. Add a non-ionic surfactant such as Gateway adjuvant at 0.2% v/v to Reclaim II for ground application and 1% v/v for aerial application.
WILD STRAWBERRY <i>Weed</i>		Reclaim II herbicide (20 ac/case)	Apply when actively growing, prior to flowering. Add a non-ionic surfactant such as Gateway adjuvant at 0.2% v/v to Reclaim II for ground application and 1% v/v for aerial application.
WILLOW <i>Tree</i>		Grazon™ XC herbicide (2.5 L/ac)	Ensure active growth with no insect or disease pressures. Apply at full leaf until August, before trees are 12' tall. Add a non-ionic surfactant such as Gateway adjuvant at 0.25% v/v to Grazon XC for ground application and 1% for aerial application.
YELLOW TOADFLAX <i>Deep-rooted perennial, invasive</i>		Tordon™ 22K herbicide: Broadcast – 1.8 L/ac Spot spray – 3.6 L/ac where no more than 50% of an acre is treated. Grazon XC herbicide: 1.9 L/ac	Apply when actively growing, when the majority of the population is flowering, prior to seed set. Grazon XC will provide seasonal control of yellow toadflax. Subsequent treatments may be required. Add a non-ionic surfactant such as Gateway adjuvant at 0.25% v/v to Grazon XC for ground application and 1% v/v for aerial application.