



harvest management

plan for success

syngenta

Maximize your harvest

A good harvest is the end-game for all growers – the reward for a season of hard work. You've done everything you can so far to promote high yields and good quality, and all that stands between you and achieving that goal is a successful harvest. At Syngenta, we can help. Touchdown Total® and Reglone® are harvest management tools you can trust to get your crop off in good time and in good shape.



Time management in a box

The only true desiccant on the market, Reglone® is the best drydown tool for peas and lentils. These crops are indeterminate, continuing to flower and grow until stopped by stress, such as heat, drought and frost. Because of this growth characteristic, peas and lentils do not always ripen evenly, and it's not unusual to see a field with individual plants at varying degrees of maturity.

Reglone is the equalizer. It works on contact to rupture plant cell walls, causing water to evaporate and leading to rapid drydown of plant material. Crops dry upright, quickly and evenly for easier harvestability.

Because Reglone works so rapidly it eliminates the need to swath. Swathing considerably lengthens the drydown period and leaves crops exposed to environmental conditions that damage seed quality. With Reglone, growers can start combining sooner and harvest more acres in a day without compromising crop yield and grade.



Weed control that counts

When you're running against the clock at harvest, here is some peace of mind. Touchdown Total® has a unique formulation with a dual adjuvant system that sticks to weeds and penetrates the leaf surface to give you maximum absorption and weed control. Its Low Foam Technology makes Touchdown Total easier and quicker to handle and mix.

As the growing season ends, perennial weeds are starting to drive energy down to their roots. Touchdown Total works systemically, using the plant's own systems to move down to the roots and provide optimum weed control.

A secondary benefit of a pre-harvest application of Touchdown Total can be more uniform crop ripening and improved harvestability. But the greatest benefit for growers occurs when less competitive crops, such as pulses, or crops that have few, if any, in-crop herbicide options for perennial weed control are planned for the following year.

Please weather the weather

In a year of typical fall weather, growers can count on Touchdown Total and Reglone to deliver the performance they need for a good harvest.

However, late season moisture can spur secondary growth in indeterminate crops, such as peas and lentils, allowing them to “grow through” a Reglone application. And while a reasonable amount of heat right after application can help speed product performance, excessive late season heat can create challenges for both Reglone and Touchdown Total by causing plant cuticles to develop a thick waxy layer that’s difficult to penetrate.

In both situations, growers are advised to wait until more favourable weather conditions return before spraying.



Reglone

Registered for Use In Various Crops Including:

- Peas (field and dry)
- Lentils
- Chickpeas
- Dry Beans
- Flax
- Sunflowers
- Legume seed crops (alfalfa, birdsfoot trefoil, red clover and white clover)
- Potatoes
- Safe to use on seed crops as germination is not adversely affected

Rate

- Registered rate is 0.5 – 1.4 L/ac
- Pulses recommended rate is 0.625 L/ac
- Use higher rates for heavier crop and weed densities
- Aerial rates are higher than ground for most prairie crops

Mixing Order

- Fill tank $\frac{3}{4}$ full with water
- Begin agitation and continue throughout mixing and spraying
- Add correct amount of Reglone
- Add Agral 90, Agsurf or Surf 92 at 0.1 v/v
- Fill with correct amount of water

Ground Application

- 20 gpa

Aerial Application

- Registered for aerial application
- 4 gpa

Effects of Weather

- Rainfast in 15 minutes
- Wet or cold weather following application may slow plant drydown
- Morning and evening applications can result in optimum performance and quick drydown
- Drought conditions prior to application will slow plant drydown
- No re-cropping restrictions

Touchdown Total

Registered for Preharvest Application In :

- Wheat
- Barley (do not use on malt barley)
- Oats
- Field Peas
- Lentils
- Canola
- Flax
- Soybeans
- Dry beans
- Forages
- **Note:** Do not apply to above crops grown for seed as germination will be adversely affected

Weeds Controlled

- Refer to product label for weeds and staging

Rates & Packaging

- 0.72 L/ac (1 litre equivalent)
- 10 L jugs
- 115 L drums
- 450 L totes
- Bulk

Mixing Order

- Fill tank $\frac{3}{4}$ full with water
- Turn off or reduce agitation throughout mixing and spraying to minimize foaming
- Add Touchdown Total
- Fill with correct amount of water

Ground Application

- 10 gallons/acre

Aerial Application

- Registered for aerial application
- 2 gpa (higher water volumes will be required to obtain sufficient coverage on weeds such as dandelion growing low in the crop canopy)

Effects of Weather

- Rainfast in 60 minutes
- No re-cropping restrictions

Timing is everything

An ideal harvest happens when your fields are ready to go when you are, and one key to achieving that is to get application timing just right. Whether you're using Reglone® or Touchdown Total®, a good look at your crop will help determine when to spray for an optimal yield and quality harvest.



Desiccant for harvest timing control

Reglone in field peas

Because Reglone works on contact, high water volume and good plant coverage are essential for good performance. Application timing is important because desiccating peas too soon can result in lost yield, as well as grade and quality losses. This is particularly true of yellow peas where there is no tolerance for green seed.

In green peas, spray when:

- Average moisture content is no more than 45% and the crop begins to take on an overall yellow appearance
- Upper pods are fleshy green, or starting to turn yellow; seeds may be immature
- Middle pods are light green to yellow, somewhat shrunken and leathery; seeds are full-size and soft, but not juicy, and split when squeezed
- Bottom pods are dry, translucent and seeds are easily detached from them

In yellow peas, spray when:

- Early onset of colour change from green to yellow
- Top/upper middle pods are shrunken and leathery and seeds split when squeezed
- Lower middle/bottom pods are dry, translucent and shrunken; seeds within pods are detached

For all peas, combine:

- Typically 5 to 7 days after spraying Reglone*

Reglone in lentils

All lentil types and varieties can be safely desiccated with Reglone.

Spray when:

- The majority of plants are turning yellow (excluding dips and knolls)
- Upper pods are fleshy green; seeds are immature
- Middle pods are light green to yellow; seeds are full-size but not juicy
- Bottom pods are brown and dry, but not split; seeds are quite hard and will rattle

Combine:

- 4 to 10 days after spraying Reglone



- Upper pods**
 - Pods are fleshy green
 - Seeds are immature
- Middle pods**
 - Pods are light green to yellow
 - Seeds are full-size and soft, but not juicy
- Bottom pods**
 - Pods are brown and dry, but not split
 - Seeds are quite hard and will rattle

Harvest timing

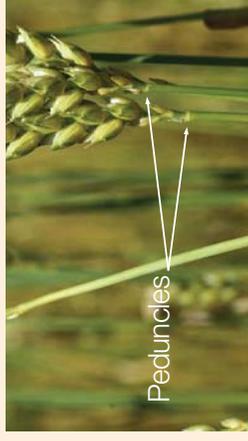
Lentils will be ready for combining 4-10 days after spraying, depending on weather conditions. If significant rainfall occurs after application, the period between desiccation and harvest could be extended.



For pre-harvest weed control

Touchdown Total in wheat

For optimal performance in wheat, Touchdown Total should be applied when the crop has reached physiological maturity. This is when kernels contain maximum dry matter, and the only thing left for them to do is dry down. Until that time, kernels are actively filling and, if sprayed, will move glyphosate into the seed, increasing the risk of high residue levels. As well, a too-early application may harm plants before they reach maturity and optimal grain fill.



Spray when:

- The green colour has disappeared from the bend in the upper portion of the peduncle
- A cross-section of a kernel shows a dark pigment strand
- Wheat is in the hard dough stage
- Average moisture content is 30% to 35%
- **Note:** Do not spray on crops intended for seed

Touchdown Total in peas & lentils

If your weed problem is greater than your need for a fast crop drydown, use Touchdown Total rather than Reglone in your peas and lentils. Reglone only affects top growth, allowing for weed re-growth the following season. Touchdown Total will take care of the weeds more effectively, while helping to get the crop ready to harvest.

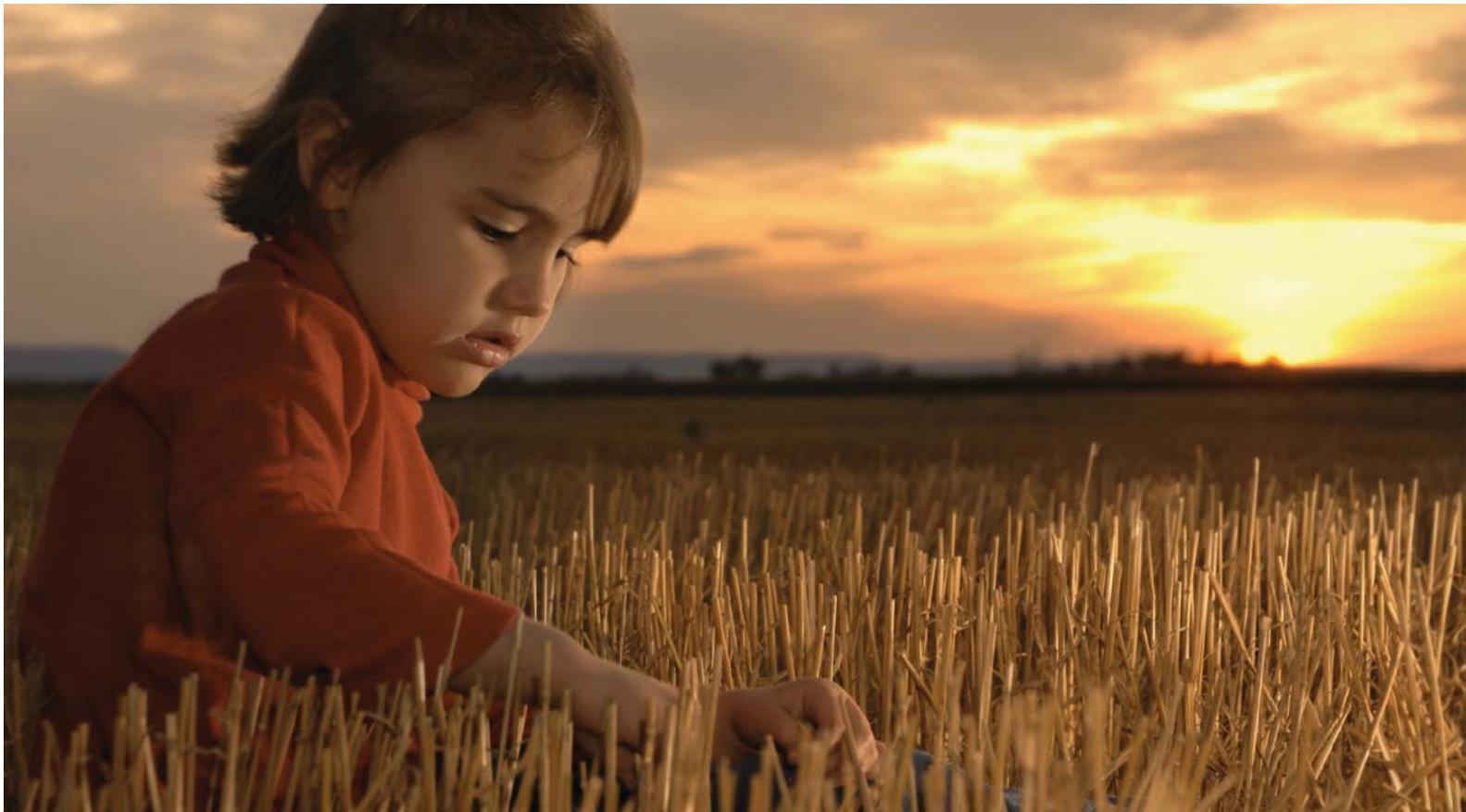


Spray when:

- Moisture content is less than 30%
- Peas (green and yellow): the majority (75% to 80%) of pods are brown
- Lentils: When the lowermost pods (bottom 15%) are brown and seeds rattle
- **Note:** Do not spray on crops intended for seed

*Length of time to harvest varies with the temperature, wind and precipitation after application.

*Length of time to harvest varies with the temperature, wind and precipitation after application.



syngenta

For further information please contact
Syngenta Customer Resource Services at 1-87-SYNGENTA (1-877-964-3682)
or visit syngenta.ca