

Planning for harvest success in pulses



 **Reglone® Ion**

syngenta

PLANNING FOR HARVEST SUCCESS



Take control of your harvest and finish the season strong.

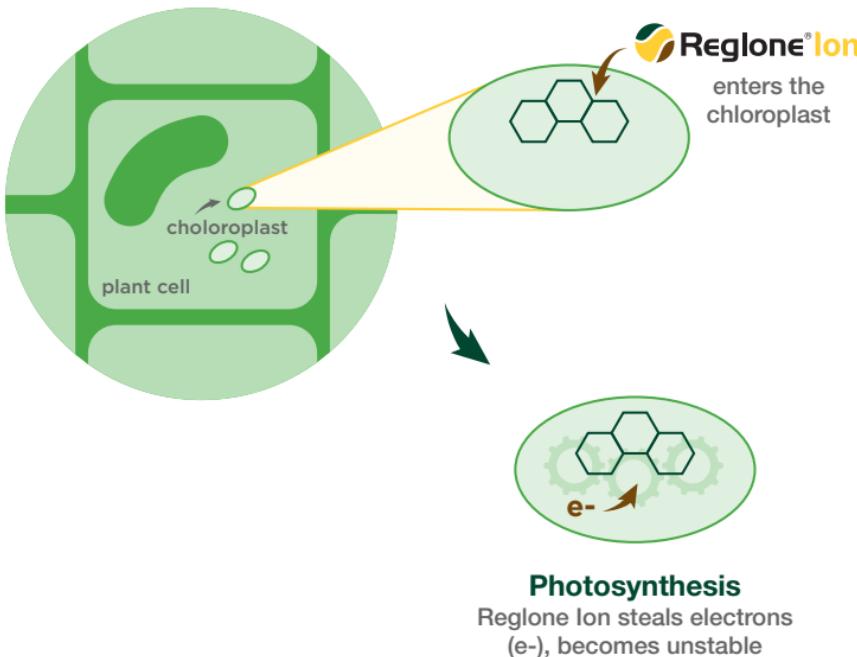


Meet Reglone Ion

Reglone® Ion is a true desiccant registered for use on lentils, peas and chickpeas (desi, kabuli), and formulated with diquat (Group 22) and a built-in adjuvant.

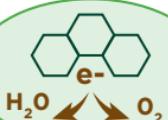
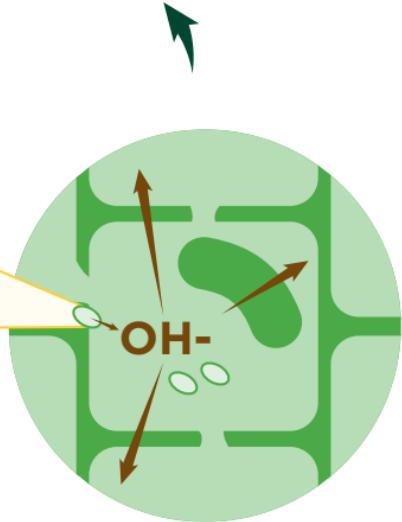
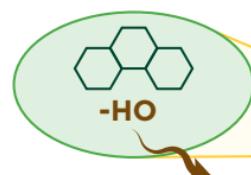
Use Reglone Ion to quickly dry up the greener plant material at the top of indeterminate pulse crops for more precise harvest control. This allows you to maximize yield while minimizing grade loss and late-season disease transmission. Less green material also means fewer plugging issues and easier combining.

Here's how Reglone® Ion works:



Leaking cells lose their water and dry out, desiccating the plant

OH- is a hydroxyl radical created when H₂O and O₂ take on free electrons



Reacts with H₂O and O₂
e- is given away, diquat is now happy and stable

Reglone Ion performance in the field

Before application



Four days
after application



Photos taken in Bracken, AB, in 2013.

Performance evaluations are based on internal trials, field observations and/or public information. Data from multiple locations and years should be consulted whenever possible. Individual results may vary depending on local growing, soil and weather conditions. Always read and follow label directions.

After application



After application



Photos taken in Meyronne, SK, in 2015.

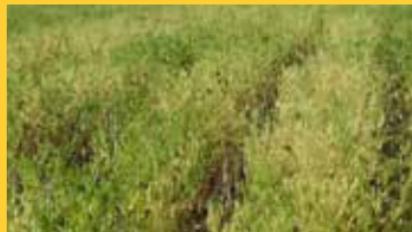
Application timing

- The majority of plants are turning yellow (excluding low spots and hilltops).
- Upper pods are fleshy green; seeds may be 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 hard and will rattle.

Staging lentils

① Scope out the field

Take a step back and look at your lentil field from the road to estimate its readiness for desiccant application. You're looking for a general colour change from green to yellow — a sign that the crop is reaching natural maturity.



Not yet

This field is starting to change colour but needs a few more days of warm and dry weather before it reaches the right maturity to spray Reglone Ion.



Looking good!

This lentil field has reached a stage of natural senescence. Always use Reglone Ion as a finisher for best results.

② **Zero in on the stems**

Does your field look ready? It might not be. If the stems are still bright green, the crop may need more time.



Getting close

These lentil stems are beginning to change to limey-green (not bright green), indicating that the field is getting close to the right stage.

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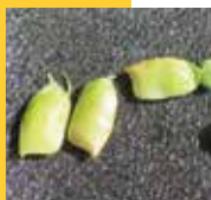
Get up close and personal with pods and seeds

The only way to be sure that a field is at the appropriate stage for Reglone Ion is to evaluate the pods and seeds. Here's what to look for.



Top pods

Seeds are usually bright green and juicy, but may be similar in colour to middle pods.



Middle pods

Seeds are mature and starting to turn lime green. Can be split with no juice.



Bottom pods

Seeds are dry, pods rattle and they have completely changed colour.

Application timing

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.





Top pods



Ideal timing for top one-third of pods



Middle pods



Ideal timing for middle one-third of pods



Bottom pods



Ideal timing for bottom one-third of pods



Not yet...



These immature pods are not ready for a Reglone Ion application

Application timing

In yellow peas, spray when:

- There is early onset of colour change of the crop 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, and seeds within pods are detached.

Did you know?

Yellow pea buyers have no tolerance for green seed. Desiccating too early can result in yield, grade and quality losses.





View of a yellow pea field at the perfect timing for a Reglone Ion application.



View of a yellow pea field that may not quite be ready for a Reglone Ion application.

TIP: Check the green patches to see how mature the seeds are.



There are grass green strips within the ripe areas of this field.

TIP: Wait for the green patches to change to at least lime green in colour before applying Reglone Ion.

Application timing for chickpeas

- **Desi:** The majority of plants are yellow, most pods are mature and seeds have turned from green to yellow or brown (the upper part of the plant may still be green).
- **Kabuli:** Apply when the majority of plants and pods are ripe and dry, and seeds have turned from green to white or tan and detached from the pods.



Application rates

	Reglone Ion	
	Ground (L/ac)	Aerial (L/ac)
Lentils	0.83	0.83 – 1.12
Peas		
Chickpeas	0.83	0.83

Refer to the label for a complete list of crops and product rates. Use higher rates for dense canopy and/or weedy crops.

Ground and air water volume

- High water volume and good plant coverage are essential for performance.
- Ensure the water is free of dirt and other contaminants.
- Reglone Ion is rainfast in 15 minutes.

Packaging

Case: 2 x 10 L jugs (treats 24 acres)

Drum: 115 L (treats 138 acres)

Tote: 450 L (treats 542 acres)

Application by Ground

Minimum 20 gallons per acre*



Application by Air

Minimum 4.0 gallons per acre*



*imperial gallons

Application tips

Preparation

- Lush and/or weedy pulse crops can be sprayed with glyphosate¹ to assist with perennial weed control and “thinning” of the crop. Wait five days to apply Reglone Ion.
- Wait for favourable weather conditions before spraying:
 - Drought stress will thicken plant cuticles, reducing efficacy.
 - Late season moisture can spur growth of indeterminate crops and reduce efficacy.

Unfavourable weather? With clean water and a clean spray tank, Reglone Ion can sit for three days with periodic daily agitation.

¹ Do not use glyphosate on acres that are intended for seed – germination will be affected. Refer to keepingitclean.ca for more details about glyphosate use in pulses.

Spraying

- Apply Reglone Ion to crops you intend to combine standing.
- Spray in the evening to ensure maximum coverage before the product is activated by photosynthesis in the presence of sunlight.

Spray in stages to take advantage of the harvest window that Reglone Ion provides.

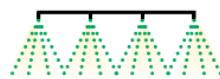
Follow spray guidelines:



Ensure optimal boom height. Twenty inches above the canopy has proven to be ideal.



Maintain a slow, steady speed while spraying.



Optimize nozzle pattern to ensure maximum coverage.

Harvest

- Harvest the field as soon as the crop is dry:
 - Desiccated crops are more prone to wind shatter.
 - Crops left in the field during moist conditions may result in reduced seed quality.

Maturity

Weather, day length, sunlight intensity and crop maturity can all impact the length of time between spraying and desiccation.

Significant rainfall can extend the period between desiccation and harvest.

Minimize the days to maturity by following best management practices: Use high water volume, apply Reglone Ion at the full label rate, and spray in dusky or cloudy conditions.

Support

Syngenta has the expertise and experience to help get you the results you expect from an application of Reglone Ion. Consult any of these helpful resources for product application or staging assistance.

- Syngenta Representative – your dedicated resource for product expertise
- Your local retailer – a wealth of knowledge for staging and local conditions
- Syngenta.ca – easily find labels, staging information and videos, and chat online with our Customer Interaction Centre

These are general considerations. Always consider the specific situation on your field and exercise good agronomic practices.

For more information, visit Syngenta.ca, contact our Customer Interaction Centre at 1-87-SYNGENTA (1-877-964-3682) or follow @SyngentaCanada on Twitter.

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