

# Arable Update

MAY 2019

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## PX128 - New oilseed rape hybrid for 2019.



PX128 is a new semi-dwarf hybrid from Pioneer. PX128 has all the benefits of a typical Pioneer semi-dwarf combined with a very high oil content and disease resistance scores of 6 for light leaf spot and 6 for stem canker.

### Characteristics of Maximus Semi-Dwarf over Non-Semi-Dwarf types:

- Limited luxurious growth before winter
- Low growing point leads to lower winter kill risk
- Later stem elongation reduces frost damage risk
- Outstanding lodging and stem stiffness at a wide range of plant populations
- Stem based branching at target plant populations reducing thick main raceme which is slow to dry down leading to two stage dry down process
- Low crop height allows for easy application of late N & flowering time spray applications
- Lower wheeling damage from application of desiccants

- Not suited to swathing, increased opportunity for natural desiccation
- Lower grain moisture at harvest for same physiological maturity
- Faster, more efficient and lower cost harvesting reducing fuel usage and harvest losses
- Reduction in volume of crop trash reducing slug populations.



## Pioneer winter oilseed rape comparative agronomic descriptions for Pioneer maximus hybrids 2019.

|  PIONEER. | Year of introduction | Oil content (%) | Lodging resistance | Stem stiffness | Height (cm) | Light leaf spot resistance | Stem canker resistance | Earliness of flowering | Earliness of maturity | Data Source |
|--|----------------------|-----------------|--------------------|----------------|-------------|----------------------------|------------------------|------------------------|-----------------------|-------------|
| <b>Maximus® Semi-Dwarf Hybrids</b>   |                      |                 |                    |                |             |                            |                        |                        |                       |             |
| PX128 - NEW  | 2019                 | 46.3            | 8                  | 8              | 119         | 6                          | 6                      | 4                      | 6                     | 2           |
| PX126  | 2017                 | 45.8            | 8                  | 9              | 123         | 7                          | 5                      | 5                      | 5                     | 1           |
| PX113  | 2014                 | 45.6            | 9                  | 8              | 124         | 7                          | 8                      | 5                      | 6                     | 2           |
| <b>Maximus Semi-Dwarf Clearfield® Hybrid</b>   |                      |                 |                    |                |             |                            |                        |                        |                       |             |
| PX111CL  | 2012                 | 43.6            | 9                  | 8              | 126         | 5                          | 6                      | 5                      | 7                     | 1/2         |

Data Sources: 1 AHDB RL Database - [www.cereals.ahdb.org.uk](http://www.cereals.ahdb.org.uk); 2 UK Official Trials; 3 Other EU located Official Trials; 4 Pioneer Trials. On the 1-9 scales, high figures indicate that a hybrid shows the character to a high degree (e.g. high resistance).

# Late season weed control in winter cereals.

**Growers now have one final opportunity to control the remaining weeds in their winter cereal crops. Autumn residual herbicides have all run out of steam and remaining weeds such as cleavers and black bindweed will need to be controlled to ensure a trouble-free harvest.**

## Late season cleaver control.

If you are just targeting late season cleavers, use Pixxaro® EC at 0.25l/ha.

It's more reliable than 100 grams active ingredient of fluroxypyr and offers much greater timing flexibility. This use rate will also control fumitory, red dead-nettle, henbit dead-nettle, black bindweed and fat-hen.

If you are targeting creeping thistle in addition to cleavers, Pixxaro® EC may be tank mixed with an appropriate dose of a sulfonyl-urea herbicide.

Higher rates of Pixxaro® EC will be required to control other weeds, please see weed spectrum.



## Pixxaro® EC Weed Spectrum

|                        | Pixxaro® EC 0.5 L/ha | Pixxaro® EC 0.375 L/ha |
|------------------------|----------------------|------------------------|
| Black Bindweed         | S up to 15cm         | S up to 10cm           |
| Chickweed              | S before Flowering   | S up to 25cm           |
| Cleavers               | S before Flowering   | S before Flowering     |
| Cranesbill             | S up to 10cm         | S up to 5cm            |
| Docks                  | S up to 5cm          | No information         |
| Fat Hen                | S up to 25cm         | S up to 15cm           |
| Fools Parsley          | S up to 4lf          | S up to 2lf            |
| Fumitory               | S before Flowering   | S up to 20cm           |
| Poppies                | S before Rosette     | S up to 10cm           |
| Red Dead Nettle        | S before Flowering   | S up to 18cm           |
| Small Nettle           | S up to 6lf          | S up to 4lf            |
| Volunteer Beans        | S before Flowering   | S up to 8lf            |
| Hemp Nettle            | S before Flowering   | S up to 10 cm          |
| Redshank               | S up to 3lf          | S up to 3lf            |
| Shepherds Purse        | S up to 10cm         | S up to 10cm           |
| Forget me not          | S up to 10cm         | MS up to 10cm          |
| Knotgrass              | S up to 10cm         | MS up to 10cm          |
| Black Nightshade       | S up to 4lf          | MS up to 4lf           |
| Scarlet Pimpernel      | S before Flowering   | MS before Flowering    |
| Wild Carrot            | S up to 4lf          | MS up to 4lf           |
| Common Field Speedwell | MS up to 4lf         | MS up to 2lf           |
| Ivy leaved Speedwell   | MS up to 4lf         | MS up to 2lf           |
| Pale Persicaria        | MS up to 4lf         | MC up to 4lf           |
| Groundsel              | MS up to 4lf         |                        |
| Orache                 | MS up to 4lf         |                        |
| Volunteer Potatoes     | MS up to 20cm        |                        |

### Weed control key

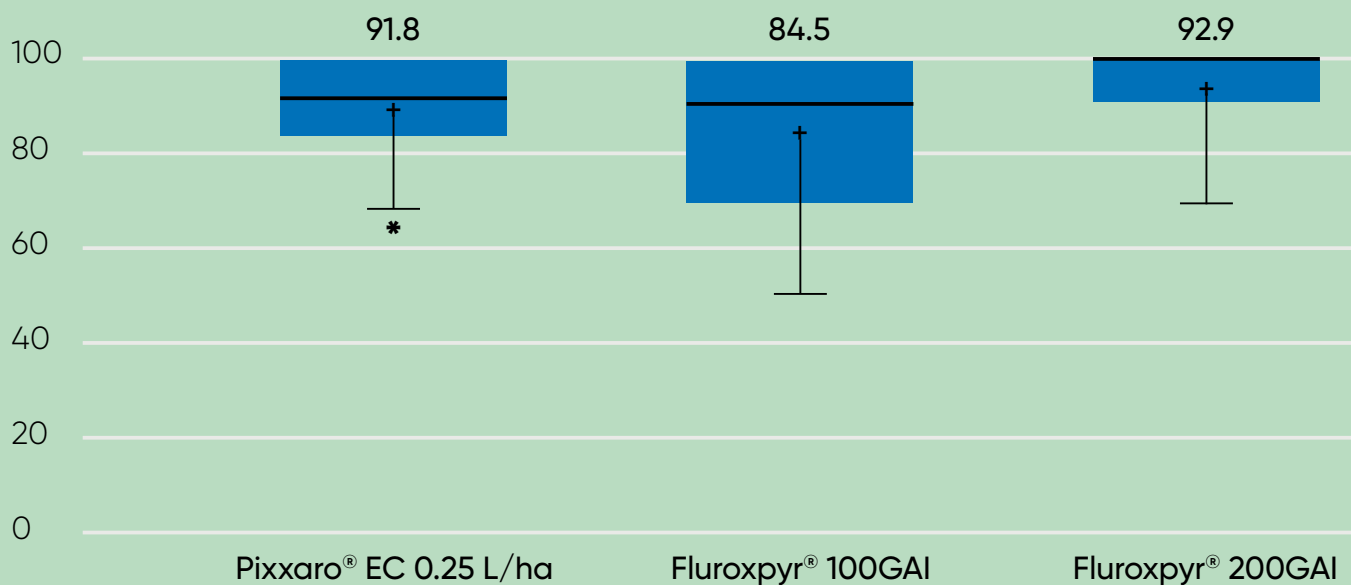
- S = Susceptible
- MS = Moderately susceptible

## Benefits of Pixxaro<sup>®</sup> EC.

- Outstanding late season cleaver control at low rates
- Timing flexibility, up to GS45
- Reliability of fluroxypyr with the added benefit of Arylex™
- Controls difficult weeds such as fumitory, black bindweed and cranes-bill
- A useful tool for control of ALS resistant poppy and chickweed at full rate
- Fast acting, allows you to take out weed competition quickly
- Works in dry conditions
- A wide range of approved tank-mix compatibilities, allows you to make the most of limited spray opportunities and apply the tank-mix of your choice
- No following crop restrictions
- No residual carry-over concerns that affect oilseed rape from late season applications, unlike the sulfonyl-urea herbicides.



## Cleaver Control between GS34 - GS45 of the crop (mean of 28 trials)



# Shield your yield.

**Sugar beet is a very uncompetitive, slow growing crop, particularly during the first eight weeks of growth when weeds with a high biomass establish and compete.**

These high biomass weeds, such as volunteer potatoes, sow thistle, spear thistle and creeping thistle, compete for water and nutrients, impede crop growth, create unwanted shade, block out sunlight and have a detrimental effect on yield. Research shows that 5 potato volunteers per square metre can result in yield loss of 16.5 t/ha of beet, and can act as a source of potato blight and Potato Cyst Nematodes (PCN).

**Dow Shield® has been available to growers for over 40 years and is the most important herbicide for reduction of volunteer potatoes in sugar beet.**

Because there is a significant overlap between sugar beet and potato growing areas, beet will always run the risk of potato volunteers as a potential weed problem especially after mild winters where frost kill is minimal. Cara and Maris Piper are two popular potato varieties but they both produce many tubers which can become a volunteer potato problem. These 2 varieties account for nearly 20% of the total potato area grown. Growers need to think about prioritising any tall weeds in sugar beet. It is important to apply the right herbicide early and often enough on these most competitive weeds, particularly those weeds that grow above the canopy.

One tall weed per square metre can cost 11% of loss of yield. For the average crop this amounts to a loss of over 9 t/ha. So these tall weeds must be dealt with to make a significant difference to gross margins and so 'shield your yield'.

Dow Shield®400 (clopyralid) is the most important herbicide for reduction of volunteer potatoes in sugar beet. Best control is achieved by making the first 0.25 L/ha application when emerging volunteer potatoes are 5-10 cms tall, followed by another application at 0.25 L/ha 7-10 days later.

Another tall weed which is a real nuisance is thistles. Thistles interfere with harvest and their dense stands of tall sappy stems compete directly with sugar beet. Just one creeping thistle stem per square metre can reduce beet yields by 1 t/ha. Creeping thistles, spear thistles and sow thistles are all controlled by Dow Shield®400 at 0.25 L/ha applied to weeds at the rosette stage followed by an application of 0.5 L/ha 3-4 weeks later to complete creeping thistle control. The first spray can be combined with a programme containing metamitron, not only to control thistles but also to boost performance of the weed control programme against key annual weeds such as polygonums. In addition Dow Shield®400 controls corn marigold, groundsel, pineapple weed, scented mayweed, scentless mayweed, black bindweed, pale persicaria and redshank. Its weed spectrum is a lot wider than many realise. Growers need to think about their weed priorities in sugar beet

now and, with the inevitable changes in product registrations in the future, formulate or even test out new weed control strategies in the field.

Dow Shield®400 is a double strength formulation containing 400 g/litre and is available in a bottle container with no induction seal or foil to get rid of. This self-seal technology means improved turn arounds, simplified waste recovery and reduced point source contamination.

A very familiar product on farms, Dow Shield® has been available to growers for over 40 years. It also can be used in forage maize, also an uncompetitive crop in its early stages, and in a large range of vegetable crops, as a label or EAMU recommendation. Dow Shield has label recommendations for 19 different crops including swedes, turnips, mangels, bulb onions, broccoli, cabbage, cauliflower, fodder beet, red beet, linseed, ornamentals, oats and Brussels sprouts.



## Win the Corteva Quad.

To celebrate the development of the Corteva brand, we have a competition currently running (see right) in the press and on digital media.



## Reldan® 22 Reminder.

Commercial sales of Reldan® 22 ceased in August 2018, but there may be a small amount of stock on farm.

Reldan® 22 can no longer be used as a fabric treatment where wheat and rye are stored, and cannot be used as an admixture treatment on wheat and rye. Reldan® 22 can be used on crop handling and storage structures intended for barley, oats and oilseed rape, and to treat barley and oat grain. For the current Reldan® 22 label see [here](#).

Together we're Corteva; to celebrate we're giving away a £4,500 Quadzilla ATV in our free prize draw.



# WIN THE CORTEVA QUAD

Enter now for free at [corteva.co.uk/quad](http://corteva.co.uk/quad)

Prize draw closes 5pm 31.08.19: see website for full T&Cs.

## Meet the Technical Services Team.



Georgina Clayton



Nicola Perry



Tom Sowerby

Our Technical Services Team are always at hand to help answer any agronomy questions.

Technical hotline: **0800 689 8899**

Email: [ukhotline@corteva.com](mailto:ukhotline@corteva.com) Visit: [www.corteva.co.uk](http://www.corteva.co.uk)

The Corteva Agriscience™ Arable Update gives you eligibility for 2 CP BASIS points.

Subscribing to Corteva Agriscience™ Arable Update gives eligibility for 2 Crop Protection BASIS points annually.

Please include course name 'Arable Update' and number 'CP/67092/1819/g' on your training record and send to: [linda@basis-reg.co.uk](mailto:linda@basis-reg.co.uk)

These details apply until 31 May 2019.



Discover more at [corteva.co.uk](http://corteva.co.uk)

Technical Hotline: 0800 689 8899 E-mail: [ukhotline@corteva.com](mailto:ukhotline@corteva.com)

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Pixxaro® EC contains Arylex™ active (halauxifen-methyl) and fluroxypyr. Dow Shield®400 contains clopyralid. Reldan®22 contains chlorpyrifos-methyl.