



Spring Linseed Bulletin

01/19

This is the first of a series of bulletins to 2019 linseed growers. It is being sent to you pending your Seed delivery, which we expect to commence .

Bulletins are issued throughout the growing year, from drilling through to combining. They are sent in order to aid agronomists and growers in the decision making process of growing Spring Linseed, thereby making it as easy and as successful as possible. Please read these notes carefully and consider the points made in conjunction with your own experiences and those of your agronomist.

Seed Deliveries

Seed production is well underway and deliveries will start very soon.

When your seed arrives please check it carefully to make sure that what you have received matches your order.

Seed Rates and Market Requirements

The table below is intended as a guide based on the anticipated 1000 seed weight figures for spring 2018. Please check your order confirmation for your correct seeding rate as seeding rates differ considerably depending on variety and seed lot.

Variety	Average 1000 Seed Weight (g)	Typical Seeding rate @ 650 seeds/ m ²	Typical Seeding rate @ 800 seeds/ m ²
Altess *	8	52	64
Duchess *	8	52	64
Empress*	8	52	64
Galaad	7.5	49	60
Festival	8	52	64
Marquise *	8	52	64
NuLin (VT50) **	6	39	48
Omegalin **	6	39	48
Scorpion **	6	39	48

* **Easycut varieties:** Marquise, Altess, Duchess and Empress

** Do not mix with ANY OTHER varieties, these varieties have very specific end markets and mixing them either at drilling or in store would drastically decrease the value of the produce to the end user.

Continued overleaf

Drilling

Any modern drill will handle Linseed easily. Linseed requires a fine firm seedbed, created with as few passes as possible.

- Row widths of 10 – 30 cm show no difference in yields
- Drill at **15 - 25 mm into moisture** – we see more problems from crops being drilled too deep rather than too shallow, so you must check. This is particularly important if you are using a newer generation of tine drills.
- **Ensure good seed to soil contact**
- Do not over consolidate
- If seedbeds are puffy then consider rolling prior to drilling
- Rolling post drilling can be of benefit to conserve moisture, pushing flints/stones out of harm's way allowing a lower cut at harvest (which makes cutting easier!) or where a pre-emergence herbicide is to be used.

Drilling Date

- Linseed requires a good, warm, moist seedbed for rapid and even establishment.
- You need to be prepared to inspect crops regularly for flax flea-beetle activity as the crop is emerging.

If the conditions are right, sowing can commence from mid-March onwards. Typically, you should be looking for a minimum of 5°C soil temperature and a mild run of weather.

Weed Control

- Start clean – dirty stubbles should be sprayed off prior to cultivation.

Pre-emergence Weed Control

Callisto offers good control of difficult weeds such as polygonums and fat hen, and is our preferred herbicide option. The best results come from applications to moist soils immediately after **drilling and rolling**.

With high levels of herbicide resistance to post-emergence grassweed herbicides, Avadex used pre or post drilling of the crop is an excellent tool to manage herbicide resistance and should give full control of Wild Oats and adequate Blackgrass and Brome control. Where control is not full, weeds will be sensitised to later herbicide applications. **We recommend:**

Product	Rate	Water volume	Notes
Callisto	0.75-1.5lt/ha	200lt/ha	Pre-crop emergence Best onto a rolled seedbed Requires moisture
Avadex 5G	15kg/ha	-	Apply in front of drill which will then incorporate granules. Post planting. Post planting application is possible, but needs moisture. Should be within 24 hours maximum of planting (but the closer the better).
Avadex Factor	3.6l/ha	200-300lt/ha	Pre-crop emergence Best onto a rolled seedbed Requires moisture

Callisto and Avadex have approval under EAMU so use is entirely at grower risk. Using Callisto often remove the need for further post-emergence herbicides.

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Fertilisers

Phosphate and Potash

Linseed does not make great demands on phosphate or potash.

If your P and K indices are at maintenance levels, application can be done at any stage during the crop cycle.

Yield	P	K	Notes
2.5t/ha	30kg/ha	30kg/ha	Straw incorporated

Nitrogen

Linseed, unlike cereals, does not redistribute nitrogen from the stems and leaves to the grains. This means that early nitrogen application to build the crop canopy has little effect on yield. Excess nitrogen applications can increase the risk of lodging, as no plant growth regulators are applied to spring linseed. The flipside of this coin is that the only determinant of yield occurs after the start of flowering. To short the crop of nutrients and water at that time severely reduces yield.

We can use these facts to rationalise our fertiliser usage as follows:

Only apply sufficient nitrogen early on in the crops life (late March - April) to ensure adequate crop height and canopy development, whilst minimising lodging risk.

Apply the balance of nitrogen towards green bud stage (early May – at least a month after the first application) to ensure optimum yield. If the crop is under drought stress at this time total rates may be reduced. In recent years sulphur deficiency, has become an issue with arable crops in most areas of the country so add 30-75 kg/ha of fertiliser Sulphur to the first Nitrogen application depending on deficiency.

Soil Index	Nitrogen Rate	Notes
0	50kg/ha	Add 30- 75 kg/ha sulphur in seed bed or when rows are visible.
Higher index & Organic soils	25kg/ha	

Green bud applications will be described in later bulletins.

Review all Nitrogen applications to ensure adherence to the requirements of RB209

Pest Control

Flea Beetle

Most seed is dressed with a nutrient complex seed treatment to maximise germination, emergence and root development.

Rapid establishment is only the first step in control. Insecticide applications will probably be necessary particularly as the crop emerges.

Growers must be vigilant as flea beetle can be absent one day and present the next.

Flea beetle damage can be widespread and severe for crops under 5 cm tall or in poor growing conditions. Apply an approved pyrethroid insecticide immediately when damage is seen. Repeat as required.

Symptoms are holes or notches in the cotyledons or first true leaves. Often 1 – 2 cm black beetles can be seen on emerging plants, especially when sunny.

Do not confuse flea beetle attacks with pigeon grazing – *this is a very common mistake*. Pigeons remove the cotyledon leaves leaving just a stem, flea beetle generally do not do this. Do not assume that because you have only seen one or two pigeons around that they are not capable of significant damage - they could be grazing very early in the morning in greater numbers.



Cabbage Stem Flea Beetle attack on OSR (Bottom) and no damage to linseed (Top)



Flax Flea Beetle on Linseed

Always read the label before using pesticides. Use Pesticides safely.

Linseed Seed Growers

Please remember to retain at least 2 labels (of each seed lot sown) from the seed bags. Ideally, one of these labels should be placed in sealed plastic bag and securely attached to a post (or similar) near the entrance to the field.

Contacts

Our agronomists **Hannah Foxall and Lorna Evans** are happy to take your calls on questions or query's you might have.

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Latest News:

We have an increased demand for Canary Seed from end users this year and will be placing more contracts on farm.

For details about these and our latest Canary Seed offers please contact our Contracts team on 02392 632883

1 March 2019



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