

# **United Kingdom Variety List Trials: Trial Procedures for Official Examination of Value for Cultivation and Use (VCU) Harvest 2025**

Linseed – Spring and winter sown, & Flax Appendices

March 2025

#### Changes

- Updated Appendix 2 with new seed treatment product
- Updated Appendix 5 with new Trial Operator
- Updated Appendix 5 with Buffalo replacing Batsman

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## Scope

This document contains the appendices for the main guidance document:

Trial Procedures for Official Examination of Value for Cultivation and Use (VCU) Harvest 2024 – Linseed – Spring and winter sown

# Appendix 1 – Approved trial organisers/ operators for linseed

| Activity   | Organisers / Operators responsible |
|--|------------------------------------|
| Trials Organiser                                   | BSPB                               |
| Seed Handling Operator                             | NIAB                               |
| Trial Design and Data Handling Operator            | AHDB Cereals and Oilseeds          |
| Pathology Trials Operator                          | None                               |
| Trial Inspection and Technical Validation Operator | AHDB Cereals and Oilseeds          |
| Quality Testing Operator                           | NIAB                               |
| Data Review and Standard Setting Operator          | NIAB                               |

# **Appendix 2 - Seed treatment products for use on NL trials**

**Integral Pro** 

### **Appendix 3 – Seed despatch deadline dates**

VCU seed must be delivered to NIAB by:

VL Winter linseed 15<sup>th</sup> August

VL Spring linseed 15<sup>th</sup> December

DL Spring Linseed last Wednesday in February

# **Appendix 4 – Growing Trial Operators and Trial locations**

#### 1. Growing Trial Operators/Seed Handling Operators

#### **Winter Linseed**

| Growing Trial Operator | Seed Handling Operator (if not trial operator) | Location of trial         |
|------------------------|--|---------------------------|
| NIAB                   | Trial Operator                                 | Sutton Scotney, Hampshire |
| Elsoms Seeds           | NIAB, SHU                                      | Spalding, Lincolnshire    |

#### **Spring Linseed**

| Growing Trial Operator | Seed Handling Operator (If not trial operator) | Location of trial       |
|------------------------|--|-------------------------|
| Envirofield            | NIAB, SHU                                      | Suffolk                 |
| Envirofield            | NIAB, SHU                                      | Dorset                  |
| EuroFins               | NIAB, SHU                                      | Wilson, Derbyshire      |
| Elsoms Seeds           | NIAB, SHU                                      | Pode Hole, Lincolnshire |
| Elsoms Seeds           | NIAB, SHU                                      | Spalding, Lincolnshire. |

### 2. Pathology Trials Operator

| Pathology Trial Operator | Location of trial |
|--------------------------|-------------------|
| Not applicable           | -                 |

# **Appendix 5 – Control varieties for VCU assessments**

#### Winter linseed

Alpaga

Attila

### **Spring linseed**

Buffalo

Abacus

Bingo

#### Flax

Lirina

# **Appendix 6 – Dates by which records should be submitted**

#### A. To Trials Organiser

| Record                                       | Latest date of receipt by Trials Organiser   |
|--|--|
| Site data part 1 (including site sketch)     | Within 2 months of drilling trial (autumn sown trials) Within 1 month of drilling trial (spring sown trials) |
| Site data part 2                             | By the time trial is harvested   |
| Plot records (in approved electronic format) | Growing Trial Operator should notify Trials Organiser that trial has been harvested within 2 days of harvest |

#### **B.** To Data Handling Operator

| Record   | Date                                 |
|--|--------------------------------------|
| Plot records should be sent to Data<br>Handling Operator | Within 10 days of record being taken |

### **C.** To Quality Testing Operator

| Samples   | Date                     |
|---|--------------------------|
| Plot samples for quality testing should be sent to the Quality Testing Operator | Within 2 days of harvest |

### **Appendix 7 – Growth stages of linseed**

| Main Growth Stage         | Growth stage | Description of Growth Stage                  |
|---------------------------|--------------|--|
| Germination and emergence | 0.0          | Dry seed                                     |
| Leaf production           | 1.0          | Both cotyledons unfolded and green           |
| Leaf production           | 1.1          | First true leaf emerged                      |
| Leaf production           | 1.2          | Second true leaf emerged                     |
| Leaf production           | 1.3 etc      | Third true leaf emerged                      |
| Stem extension            | 2.0          | No internodes (rosette)                      |
| Stem extension            | 2.5          | About five internodes                        |
| Flower bud development    | 3.0          | Only leaf buds present                       |
| Flower bud development    | 3.1          | Flower buds present but enclosed by leaves   |
| Flower bud development    | 3.3          | Flower buds visible from above ('green bud') |
| Flower bud development    | 3.5          | Flower buds raised above leaves              |
| Flower bud development    | 3.6          | First flower stalks extending                |
| Flower bud development    | 3.7          | First flower buds yellow ('yellow bud')      |
| Flowering                 | 4.0          | First flower opened                          |
| Flowering                 | 4.1          | 10% all buds opened                          |
| Flowering                 | 4.3          | 30% all buds opened                          |
| Flowering                 | 4.5          | 50% all buds opened                          |

| Main Growth Stage | Growth stage | Description of Growth Stage          |
|-------------------|--------------|--------------------------------------|
| Pod development   | 5.3          | 30% potential pods                   |
| Pod development   | 5.5          | 50% potential pods                   |
| Pod development   | 5.7          | 70% potential pods                   |
| Pod development   | 5.9          | All potential pods                   |
| Seed development  | 6.1          | Seeds expanding                      |
| Seed development  | 6.2          | Most seeds translucent but full size |
| Seed development  | 6.3          | Most seed green                      |
| Seed development  | 6.4          | Most seed green-brown mottled        |
| Seed development  | 6.5          | Most seeds brown                     |
| Seed development  | 6.6          | Most seed dark brown                 |
| Seed development  | 6.7          | Most seed black but soft             |
| Seed development  | 6.8          | Most seed black and hard             |
| Seed development  | 6.9          | All seeds black and hard             |
| Leaf senescence   | 7.0          | No description                       |
| Stem senescence   | 8.1          | Most stem green                      |
| Stem senescence   | 8.5          | Half stem green                      |
| Stem senescence   | 8.9          | Little stem green                    |
| Pod senescence    | 9.1          | Most Pods green                      |
| Pod senescence    | 9.5          | Half pods green                      |
| Pod senescence    | 9.9          | Few pods green                       |

### **Appendix 8 – Assessment of linseed diseases**

The following key (next page) is suitable for foliar and capsule diseases. For stem diseases such as Sclerotinia, and Verticillium an assessment of the % of stems infected per plot should be made.

#### Instructions:

- 1) Examine all leaves and capsules in 3 areas of each plot.
- 2) Ignore all naturally senescent tissue.
- 3) Include all necrosis and chlorosis attributable to disease.
- 4) Estimate % infection using the descriptions below. Record the average % infection from the 3 areas. Interpolate values if necessary.

| Infection | Observation on Leaves  | Observation on Capsules  |
|-----------|--|--|
| 0         | No infection observable  | No infection observable  |
| 0.1       | Trace of infection   | Trace of infection   |
| 1         | Diseased leaves with 1 small lesion; plants with a few scattered lesions             | Terminal raceme with a few scattered lesions                                 |
| 5         | Leaves appear 1/10 infected;<br>diseased leaves with 2<br>lesions                    | Terminal raceme appears 1/10 infected; diseased capsules with 1 or 2 lesions |
| 10        | Leaves appear ¼ infected;<br>diseased leaves with few<br>large or many small lesions | Terminal raceme appears ¼ infected; diseased capsules with 2 or more lesions |
| 25        | Area appears ½ infected ½ green  | Area appears ½ infected ½ green  |
| 50        | Area appears more infected than green  | Area appears more infected than green  |
| 75        | Very little green tissue left  | Very little green tissue left  |
| 100       | Leaves/capsules dead - no green tissue left  | Leaves/capsules dead - no green tissue left                                  |



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