

Great Britain and Northern Ireland Variety List Trials: Trial Procedures for Official Examination of Value for Cultivation and Use (VCU) Harvest 2026

Fodder Beet appendices

April 2025

Changes since last version

- Updated year of document and date of last update
- Updated all references of NL to VL
- Updated Niab abbreviation
- Updated email link to national archives at end of document
- Updated Appendix 3

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Appendix 1 – Approved Trial Organisers/Operators for Fodder Beet

Activity	Organisers/Operators Responsible
Trial organiser	BSPB
Growing trial operators	SESVanderHave UK Ltd
Seed handling operator	SESVanderHave UK Ltd
Trial inspection operator	BSPB
Technical validation operator	Niab
Data review and standard setting operator	Niab
Data handling operator	Niab

Appendix 2 – Seed treatment products for use on VL trials

The seed may be treated with a product currently approved for use in the UK – details of which will be advised by the Trials Organiser, if appropriate.

Appendix 3 – Seed delivery deadline dates

VCU seed must be delivered to the Seed Handling Operator by **15 December**.

Appendix 4 – VCU growing trial operators and trial locations for Fodder Beet

Growing Trial Operator	Seed Handling Operator (If not Trial Operator)	Location of Trial
SESVanderHave UK Ltd	SESVanderHave UK Ltd	Wellingore, Lincolnshire

Appendix 5 – Control varieties for VCU assessments for Fodder Beet

The control varieties are:

- Magnum
- Bangor
- Blizzard

Appendix 6 – Fungicide programme for Fodder Beet

The fungicide program should follow best local practice.

Appendix 7 – Dates by which records should be sent to the trial design and data handling organiser

Record	Latest date of receipt
Site data part 1 (including site sketch)	Within 5 days of drilling trial
Site data part 2 plus diary	Within 5 days of harvesting the trial
Harvest date	Within 2 days of harvest
Plot records	Within 5 days of drilling the trial
Harvest records	Within 5 days of record being taken
Harvest records	Within 5 days of harvesting the trial

Appendix 8 – Assessment keys for Fodder Beet diseases

8.1 Leaf diseases

Instructions:

- 1. Examine leaves in 3 areas of each plot
- 2. Include all necrosis and chlorosis attributable to disease to be assessed
- **3.** Estimate the percentage of infection using the infection disease severity description, interpolating values if necessary
- **4.** Record the average the percentage of infection from the 3 areas

8.2 Infection disease severity description

Infection	Description of severity
0	No infection observed
0.1	Older leaves with a trace of infection, other leaves uninfected
1	Older leaves with up to 10% infection, other leaves largely uninfected
5	Older leaves with up to 25% infection, middle-aged leaves with a trace of infection
10	Older and middle-aged leaves with up to 25% infection, young leaves largely uninfected
25	Leaves of all ages appear 50% infected 50% green on average
50	Leaves of all ages appear more infected than green on average
75	Very little green tissues left
100	No green tissue left

Appendix 9 – Assessment keys for Fodder Beet root shape

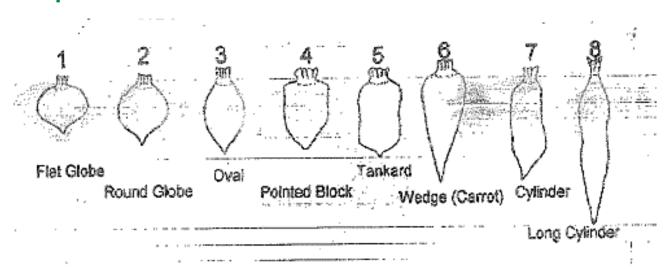


Figure1: Diagram showing fodder beet root shape. 1- Flat globe, 2- Round globe, 3- Oval, 4- Pointed block, 5- Tankard, 6- Wedge (carrot), 7- Cylinder, 8- Long cylinder

Appendix 10 – Growth stage key of beet

Beet Meier et al., 1993

Phenological growth stages and BBCH-identification keys of beet (*Beta vulgaris* L. ssp. *vulgaris*)

Code Description

10.1 Principal growth stage

- 0: Germination
- 00: Dry seed
- 01: Beginning of imbibition: seeds begin to take up water
- 03: Seed imbibition complete (pellet cracked)
- 05: Radicle emerged from seed (pellet)
- 07: Shoot emerged from seed (pellet)
- 09: Emergence: shoot emerges through soil surface

10.2 Principal growth stage 1: Leaf development (youth stage)

- 10: First leaf visible (pinhead-size): cotyledons horizontally unfolded
- 11: First pair of leaves visible, not yet unfolded (pea-size)
- 12 2: leaves (first pair of leaves) unfolded
- 14 4: leaves (2nd pair of leaves) unfolded
- 15 5: leaves unfolded
- 15: Stages continuous till
- 19 9: and more leaves unfolded

10.3 Principal growth stage 3: Rosette growth (crop cover)

- 31: Beginning of crop cover: leaves cover 10% of ground
- 32: Leaves cover 20% of ground
- 33: Leaves cover 30% of ground
- 34: Leaves cover 40% of ground
- 35: Leaves cover 50% of ground
- 36: Leaves cover 60% of ground
- 37: Leaves cover 70% of ground
- 38: Leaves cover 80% of ground
- 39: Crop cover complete: leaves cover 90% of ground

10.4 Principal growth stage 4: Development of harvestable vegetative plant parts Beet root

49 Beet root has reached harvestable size



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