



Animal &
Plant Health
Agency

United Kingdom Variety List Trials: Trial Procedures for Official Examination of Value for Cultivation and Use (VCU) Harvest 2024

Swede

Appendices

September 2023

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Changes

Appendix 1 – Approved Trial Organisers/ Operators for Swede

Activity	Organisers/Operators responsible
Trials Organiser	BSPB
Trial Design and Data Handling Operator	NIAB
Growing Trial Operator	SASA
Seed Handling Operator	NIAB
Trial Inspection and Technical Validation Operators	SASA/NIAB
Quality Testing Operator	SASA
Data Review and Standard Setting Operator	NIAB

Appendix 2 – Seed treatment products for use on VL trials

Approved seed dressings to be applied according to current Regulations and must be approved by the Trials Organiser.

Appendix 3 – Seed despatch deadline dates for Swede

VCU seed must be delivered to the Seed Handling Operator by 15th February and to the VCU sample Authentication Centre by 1st March.

Appendix 4 – Growing Trial Operators and Trial locations

Growing Trial Operator	Seed Handling Operator (If not trial	Location of trial
SASA	NIAB	Edinburgh, Scotland

Appendix 5 – Control varieties for VCU assessments for swede

Ruta Øtofte

Magres

Helenor

Gowrie

Appendix 6 – Dates for submission of records

A. To Trials Organiser

Record	Latest date of receipt by Trials Organiser
Site data part 1 (including site sketch)	Within 1 month of drilling trial
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 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 Quality Testing Operator	Within 2 days of harvest

Appendix 7 – Growth stages of Swede

Growth Stage		
Germination and Emergence	00	Dry seed
	0-10	Germination and emergence through soil
Seedling growth	12	Elongation of emerging shoot
	15	Elongation and opening of cotyledons
	20	Cotyledons fully opened
	30	Cotyledons fully opened and full development of first true leaf
	40	Second leaf fully developed
	50	Third leaf fully developed and initial senescence of cotyledons
	60	Fourth leaf fully developed and partial senescence of cotyledons
	70	Fifth leaf fully developed and advanced senescence/drop of cotyledons
Leaf development	80	Sixth leaf fully developed
	90	Seventh leaf fully developed; initial senescence of first true leaf in early cultivars
	100	Eighth leaf fully developed; 30 % senescence of first true leaf
	110	Ninth leaf fully developed; 60% senescence of first true leaf

Growth Stage		
	120	Tenth leaf fully developed; complete senescence and drop of first true leaf
	130	Eleventh leaf fully developed
	140	
	150	Few leaf scars becoming exposed on root 'neck'
	160	
	170	
	180	Many leaf scars exposed on root 'neck'
Root development	200	Slight swelling of the root at ground level
	220	Development of a small swollen root above ground level
	240	Swollen root medium
	260	Root fully developed with no cork on skin
	270	Root fully developed with 40% cork development on skin
	280	Root fully developed with 80 - 100% cork development
	290	Root flesh becoming pithy and fibrous
	299	Root flesh fibrous and pithy
Flowering	400	First flower open on terminal raceme
	410	Few flowers are open on terminal raceme

Growth Stage		
	420	Full flowering; lower siliques are elongating
	450	Lower siliques are starting to fill, less than 5% of flower buds are not yet open
	470	Seeds in lower siliques are enlarging, all buds have opened

Appendix 8 – Assessment keys for Swede diseases

Leaf diseases

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

Infection disease severity description

Description	
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.



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