



MORPHOLOGICAL DESCRIPTOR

Radish
Raphanus sativus L.



Federal Seed Certification & Registration Department
Ministry of Food, Agriculture & Livestock
Government of Pakistan, Islamabad

*Testing Genetic Suitability and Adaptability: and
Registration of Crop Varieties is Legal Obligation
under Section 8 of Seed Act, 1976.*

Dr. M. Ashraf Tajammal
Ms. Naheed Naz

GENERAL

Variety name

Parentage

Pedigree

Breeder (s)

Variety maintainer (s)

Comparable variety (s)

Breeding center/institute

Origin Local Exotic

Breeding method Selection Hybridization Introduction Any other

Areas of adaptation

Sowing time

Maturity duration Short Medium Long

SEEDLING CHARACTERISTICS

Seedling height (cm) (after 2 weeks)

Cotyledon color

Cotyledon size Small Medium Large

Auxiliary bud pubescence

PLANT CHARACTERISTICS

Density of hairs on first leaf Sparse Medium Profuse Strong

Leaf attitude Erect Semi erect Horizontal

Leaf lobes Absent Present

Leaf color Yellowish green Grayish green

Shape of limbs Narrow obovate Obovate Broad obovate

Leaf length/width (cm)/.....

Leaf hairiness Sparse Medium Profuse Strong

Leaf anthocyanin Absent Weak Medium Strong

Crown shape Concave Convex Flat

Root color One colored Bi colored

Color of upper part White Greenish White Green Red Violet

Root flesh color Translucent Opaque

Root shape Narrow elliptic Circular Elliptic Obovate Rectangular Narrow rectangular Narrow obtriangular Fusiform

Root thickness Thin Medium Thick

Root length/width(cm)/.....

Root base Acute Obtuse Round Flat

Root weight (g)

Stem color Light green Green Dark green

Stem shape Round Uneven Ridged

FLOWER CHARACTERISTICS

Flowering days

Flower color White Pink Violet

Flower size Small Medium Large

Maturity days

POD CHARACTERISTICS

Pod color Pale green Green Dark green

Pod length/width (cm)/.....

Pod thickness (cm)

Pods/plant

No. of seed /pod

SEED CHARACTERISTICS

- Seed color Brown Reddish brown
- Seed shape Round Semi round
- Seed size Small Medium Bold
- 000, seed weight (g)
- Yield (kg/acre)

ENVIRONMENTAL ADAPTABILITY (Evaluation done under define conditions)

Flowering Response to seasons Stable Variable Highly variable

Drought tolerance Least tolerant Medium Most tolerant
(Measured as reduction in yield).

Tolerance to salinity Least tolerant Medium Most tolerant
(Measured by reduction in plant height 30 days after sowing).

Tolerance to acid soils Least tolerant Medium Most tolerant
(Measured as reduction in plant height 30 days after sowing).

Cold tolerance Least tolerant Medium Most tolerant
(Measured as reduction in general vigour and productivity after being continuously exposed to an average temperature of 15 °C for at least 15 days).

Heat tolerance Least tolerant Medium Most tolerant
(Measured as yield reduction when continuously exposed to average of 40 °C during the flowering period).

RESISTANCE TO INSECTS/PESTS

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RESISTANCE TO DISEASES

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DISTINGUISHING CHARACTERISTICS

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RECOMMENDED/APPROVED BY

| | | |
|------------------------------------|------------------------------|-----------------------------|
| Variety Evaluation Committee (VEC) | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Experts Sub Committee | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Provincial Seed Council | <input type="checkbox"/> Yes | <input type="checkbox"/> No |

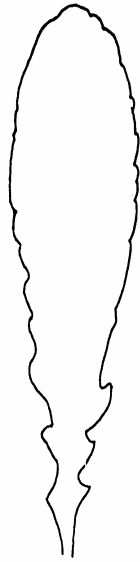
COMMENTS OF SPOT EXAMINATION

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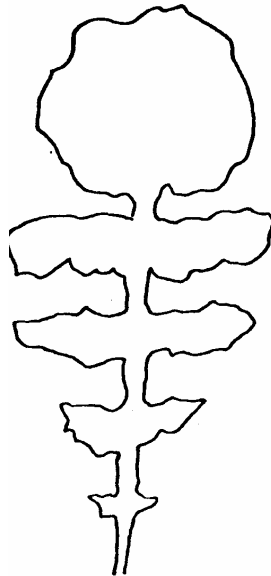
ADDITIONAL INFORMATION

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LEAF LOBES

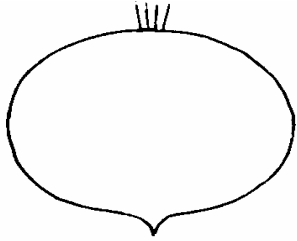


Unlobed leaf

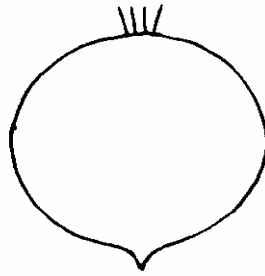


Lobed leaf

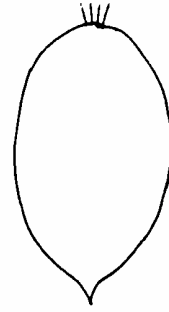
ROOT SHAPES



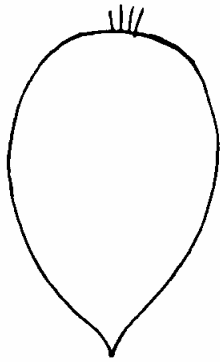
Transverse elliptic



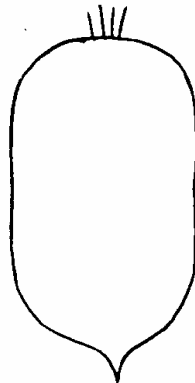
Circular



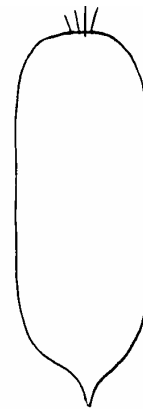
Elliptic



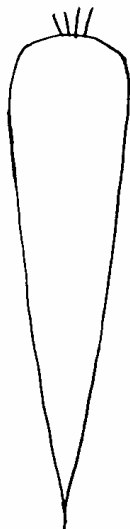
Obovate



Rectangular



Narrow rectangular



Narrow obtriangular



Fusiform

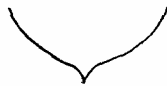
ROOT BASE



Acute



Obtuse



Round



Flat