



MORPHOLOGICAL DESCRIPTOR

LENTIL
Lens culinaris 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)

Comparable variety (s)

Breeding center/institute

Variety maintainer

Origin Local Exotic

Breeding method Selection Hybridization Introduction Any other

Areas of adaptation

Planting time (Spring/summer)

Maturity duration Short Medium Long

Suitable for sowing Early Medium Late All sowings

Type of Variety Determinate Semi determinate Indeterminate

Earlier than Cultivar

Later than Cultivar

SEEDLING CHARACTERISTICS

Seedling length (cm) (After Two weeks)

Seedling stem pigmentation Absent Present

Seedling pubescence Absent Present

Intensity of pubescence Sparse Medium Profuse

PLANT CHARACTERISTICS

Growth habit Erect (<30°) Semi erect (30°-60°) Spreading (>60°)

Plant height Short (<40 cm) Medium (40-60 cm) Long (>60 cm)

Taller than Cultivar

Shorter than Cultivar

Canopy spread Narrow Medium Wide

STEM CHARACTERISTICS

Stem hairiness Absent Sparse Medium Profuse

No. of nodes/stem

Stem color L. green Green Purple Strong purple

Twining tendency Absent Slight Medium Strong

Branching pattern Basal Central Top All over

No. of secondary branches

Lodging Resistant Low Moderate High

LEAF CHARACTERISTICS

Stipule length (mm)

Leaf attitude Erect Semi erect Horizontal

Leaf color L. green Green Dark green

Leaf pubescence Absent Present

Rachis length (cm)

No. of leaflets/leaf

Terminal leaflet size Small Medium Large

Terminal leaflet tip Round Acuminate

Terminal leaflet shape Ovate Obovate Elliptical

Terminal leaflet length (cm)

Terminal leaflet width (cm)

Rachis/petiole anthocyanin Green Purple Dark purple

Leaf tendrils Absent Short Medium Long

Tendrils type Simple Branched

FLOWER CHARACTERISTICS

Days to flowering [50% flowering]

Flowering duration Short Medium Long

Petal color Yellow Grayish yellow Purplish White Bluish

Flower size Small Medium Large

Flower standard color White Pink Blue Violet Others

Morphological Descriptor**Lentil**

Peduncle anthocyanin Absent Weak Medium Strong
 Peduncle arista Absent Present

POD CHARACTERISTICS

Raceme position Above canopy Intermediate No pod above canopy
 Mature pod color Straw Tan Brown Brownish/black Black
 Pod shape Flat Convex/semi flat Rounded
 Pod size Small Medium Large
 Pod length (cm)
 Pod width (cm)
 Larger than Cultivar
 Smaller than Cultivar
 Pod curvature Absent Slight Medium Strong
 Pod beak length (mm)
 Pod beak shape Hook Knob Straight
 Pod pubescence Sparse Medium Profuse
 Pod anthocyanin coloration Absent Present
 Pod constriction Slight Medium Strong
 Pod attachment Pendent Semi erect Erect
 Pod shattering Absent Low Medium High
 Pod shedding Absent Low Medium High
 Peduncle length (cm)
 Clusters/plant
 Pods/clusters
 Pods/plant
 Seeds/pod

SEED CHARACTERISTICS

Seed color Green Gray Pink Brown Black
 Seed shape Round Oval Drum
 Seed size Small Medium Bold
 Seed length (mm) [Range.....]
 Seed width (mm) [Range.....]
 Seed thickness (mm) [Range.....]
 Seed coat pattern Absent Present
 Seed testa texture Smooth Rough Tuberculate
 Seed surface Shiny Dull
 Cotyledon color Whitish Yellow Olive green Orange
 000, seed weight (g)
 Seed protein (%)
 Yield (kg/ha)