

GENERAL LEAF CHARACTERISTICS

LEAF COMPLEXITY

- Simple
- Singly Compound
- Doubly Compound
- Even Pinnately Compound
- Odd Pinnately Compound
- Palmately Compound
- 3 Leaflets
- 5 Leaflets
- 7 Leaflets
- 9 Leaflets
- 10 - 20 Leaflets
- > 20 Leaflets

LEAF ARRANGEMENT

- Alternate
- Opposite
- Whorled

UNUSUAL LEAF CHARACTERISTICS

- Latex Strands in Leaf Blade
- Coriaceous (Thick and Leathery)
- Unpleasant Odor When Crushed

LEAF BLADE LENGTH

- 0.1 - 2.5 cm
- 2.6 - 5.0 cm
- 5.1 - 10.0 cm
- 10.1 - 25.0 cm
- 25.1 - 50.0 cm
- > 50.0 cm

LEAF BLADE WIDTH

- 0.1 - 2.5 cm
- 2.6 - 5.0 cm
- 5.1 - 10.0 cm
- 10.1 - 25.0 cm
- 25.1 - 50.0 cm
- > 50.0 cm

PETIOLE CHARACTERISTICS

LEAF PETIOLE LENGTH

- < 0.1 cm (Sessile)
- 0.1 - 0.6 cm
- 0.7 - 1.2 cm
- 1.3 - 2.5 cm
- 2.6 - 5.0 cm
- 5.1 - 10.0 cm
- 10.1 - 25.0 cm
- > 25.0 cm

UNUSUAL PETIOLE CHARACTERISTICS

- Petiole Pubescent
- Glands on Petiole
- Milky Juice in Petioles

STIPULE / STIPULE SCAR CHARACTERISTICS

- Stipules / Stipule Scars Present
- Stipules Persistent
- Slash Like Stipule Scars
- Stipules / Stipule Scars Encircling Stem

SIMPLE LEAF CHARACTERISTICS

SIMPLE LEAF VENATION

- Pinnate
- Palmate
- Pinnipalmate

SIMPLE LEAF APEX

- Acuminate
- Acute
- Mucronate
- Cuspidate
- Obtuse
- Rounded
- Truncate
- Retuse
- Emarginate

SIMPLE LEAF MARGIN

- Glands on Leaf Margin
- Revolute
- Entire
- Repand
- Sinuate
- Crenate
- Crenulate
- Serrate
- Serrulate
- Doubly Serrate
- Dentate
- Denticulate
- Aculeate
- Bristle Tips
- Pinnately Lobed
- Pinnately Cleft
- Pinnately Incised
- Palmately Lobed

SIMPLE LEAF BASE

- Cuneate
- Acute
- Obtuse
- Rounded
- Truncate
- Cordate
- Inequilateral
- Auriculate

SIMPLE LEAF SHAPE

- Linear
- Oblong
- Lanceolate
- Oblanceolate
- Ovate
- Obovate
- Elliptical
- Oval
- Orbicular
- Reniform (Cordate)
- Rhombic

- Spatulate
- Flabellate
- Deltoid

SIMPLE LEAF UPPER SURFACE

- Lustrous
- Glaucous
- Rugose
- Glabrous
- Puberulent
- Pubescent
- Villous
- Tomentose
- Scabrous
- Glandular
- Lepidote
- Stellate

SIMPLE LEAF LOWER SURFACE

- Lustrous
- Whitish
- Glaucous
- Rugose
- Glabrous
- Axillary Tufts
- Puberulent
- Pubescent
- Villous
- Tomentose
- Scabrous
- Glandular
- Lepidote
- Stellate

SINGLY AND DOUBLY COMPOUND LEAFLET CHARACTERISTICS

LEAFLET VENATION

- Pinnate
- Palmate
- Pinnipalmate

LEAFLET PETIOLULE LENGTH

- < 0.1 cm (Sessile)
- 0.1 - 0.6 cm
- 0.7 - 1.2 cm
- 1.3 - 2.5 cm
- 2.6 - 5.0 cm
- 5.1 - 10.0 cm
- 10.1 - 25.0 cm
- > 25.0 cm

LEAFLET BLADE LENGTH

- 0.1 - 2.5 cm
- 2.6 - 5.0 cm
- 5.1 - 10.0 cm
- 10.1 - 25.0 cm
- 25.1 - 50.0 cm
- > 50.0 cm

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- Revolute
- Entire
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- Sinuate
- Crenate

- Crenulate
- Serrate
- Serrulate
- Doubly Serrate
- Dentate
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TWIG CHARACTERISTICS

UNUSUAL TWIG CHARACTERISTICS

- Unbranched Thorns
- Branched Thorns
- Spines
- Square
- Zig-Zag Internode Pattern
- Long and Short Shoots

TWIG WIDTH

- 1.0 - 2.5 mm
- 2.6 - 5.0 mm
- 5.1 - 7.5 mm
- 7.6 - 15.0 mm
- > 15.0 mm

BUD MORPHOLOGY

- Terminal buds absent
- Naked - no bud scales
- Valvate
- Imbricate
- Strongly Angled in Cross Section

BUD SCALE SURFACE

- Glabrous
- Pubescent
- Villous
- Tomentose
- Scabrous
- Glandular
- Resinous

BUD SCALE COLOR

- Whitish
- Reddish
- Yellowish
- Greenish
- Bluish
- Purplish
- Brownish
- Grayish
- Blackish

BUD LENGTH

- 1.0 - 2.5 mm
- 2.6 - 5.0 mm
- 5.1 - 7.5 mm
- 7.6 - 15.0 mm
- > 15.0 mm

BUD WIDTH

- <1.0 mm
- 1.0 - 2.5 mm
- 2.6 - 5.0 mm
- 5.1 - 7.5 mm
- 7.6 - 15.0 mm
- > 15.0 mm

LEAF SCAR SHAPE

- Small and inconspicuous
- Readily Visible
- Round
- Half Round
- Narrow
- U Shaped
- V Shaped
- Three Lobed
- Encircling / enclosing lateral bud

LEAF SCAR ARRANGEMENT

- Alternate
- Opposite
- Whorled

TWIG BARK TEXTURE

- Smooth
- Glabrous
- Pubescent
- Silvery Scales
- Rough
- Exfoliating Layers
- Corky Wings

TWIG BARK COLOR

- Reddish
- Orangish
- Yellowish
- Greenish
- Brownish
- Grayish

LENTICEL SHAPE

- Inconspicuous
- Round
- Horizontally elongate
- Vertically elongate
- Warty
- Grouped together in chains

LENTICEL COLOR

- Whitish
- Orangish
- Tannish
- Brownish
- Grayish
- Blackish

PITH COLOR

- Whitish
- Pinkish
- Orangish
- Greenish
- Tannish
- Brownish
- Dark brownish
- Grayish

PITH COMPOSITION

- Continuous homogeneous
- Continuous diaphragmed
- Spongy (porous)
- Chambered
- Hollow (excavated)

PITH SHAPE IN CROSS SECTION

- Terete (circular)
- Stellate (star-shaped or angled)
- Triangular

TRUNK BARK CHARACTERISTICS

TRUNK BARK TEXTURE

- Smooth
- Papery
- Warty
- Plate like scales
- Ridges and Furrows
- Corky Wings

STRIP-LIKE BARK CHARACTERISTICS

- Horizontal Strips
- Vertical Strips

SCALE-LIKE BARK CHARACTERISTICS

- Puzzle-shaped Plates
- Rectangular Plates
- Irregular Plates

BARK RIDGE CHARACTERISTICS

- Rounded Ridges
- Scaly Ridges
- Corky Ridges
- Irregular Ridge Pattern
- Diamond Ridge Pattern

BARK FURROW CHARACTERISTICS

- Very thin (< 3 mm)
- Narrow (3 to 25 mm)
- Broad (> 25 mm)

OUTER BARK COLOR

- Whitish
- Reddish
- Orangish
- Yellowish
- Greenish
- Tannish
- Brownish
- Grayish
- Blackish

INNER BARK COLOR

- Whitish
- Reddish
- Orangish
- Yellowish
- Greenish
- Tannish
- Brownish
- Grayish
- Blackish

BARK THICKNESS

- Thin (< 0.6 cm)
- Average Thickness (0.6 cm to 2.5 cm)
- Very Thick (> 2.5 cm)

FLOWER CHARACTERISTICS

FLOWERING TIME

- March
- April
- May
- June
- July
- August
- September
- October
- November

GENERAL FLOWER CHARACTERISTICS

- Complete
- Incomplete
- Perfect
- Imperfect
- Dioecious
- Polygamous
- Monoecious

FLOWER SYMMETRY

- Actinomorphic (regular)
- Zygomorphic (irregular)

FLOWER COLOR

- Whitish
- Pinkish
- Reddish
- Orangish
- Creamish
- Yellowish
- Greenish
- Purplish
- Brownish

INFLORESCENCE / INFRUCTESCENCE

- Solitary
- Spike
- Catkin or Ament
- Raceme
- Corymb
- Panicle
- Cyme
- Umbel
- Head or Capitulum

NUMBER OF STAMENS

- 2
- 3
- 4
- 5
- 6
- 7 - 15
- 16 - 50

[More ...](#)