































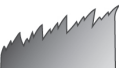



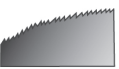

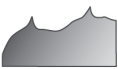



Plant morphology










SHAPE

| | | | | | | |
|--|--|--|--|---|--|--|
|  Acicular needle-shaped |  Elliptic oval-shaped, small or no point |  Obovate heart-shaped, stem at point |  Pinnatisect deep, opposite lobing |  Acuminate tapering to a long point |  Falcate hooked or sickle-shaped |  Obovate egg-shaped, narrow at base |
|  Reniform kidney-shaped |  Aristate with a spine-like tip |  Flabellate fan-shaped |  Obtuse bluntly tipped |  Rhomboid diamond-shaped |  Cordate heart-shaped, stem in cleft |  Hastate triangular with basal lobes |
|  Orbicular circular |  Spatulate spoon-shaped |  Cuneate wedge-shaped, acute base |  Lanceolate pointed at both ends |  Ovate egg-shaped, wide at base |  Spear-shaped pointed, barbed base |  Deltoid triangular |
|  Linear parallel margins, elongate |  Palmate like a hand with fingers |  Subulate tapering point, awl-shaped |  Digitate with finger-like lobes |  Lobed deeply indented margins |  Pedate palmate, divided lateral lobes |  Truncate Squared-off apex |













MARGIN

| | | | |
|--|--|--|--|
|  Ciliate with fine hairs |  Crenate with rounded teeth |  Dentate with symmetrical teeth |  Denticulate with fine dentition |
|  Doubly Serrate serrate with sub-teeth |  Entire even, smooth throughout |  Lobate indented, but not to midline |  Serrate teeth forward-pointing |
|  Serrulate with fine serration |  Sinuate with wave-like indentations |  Spiny with sharp stiff points |  Undulate widely wavy |

VENATION

| | | |
|---|--|---|
|  Arcuate secondary veins bending towards apex |  Cross-Venulate small veins connecting secondary veins |  Dichotomous veins branching symmetrically in pairs |
|  Longitudinal veins aligned mostly along long axis of leaf |  Palmate several primary veins diverging from a point |  Parallel veins arranged axially, not intersecting |
|  Pinnate secondary veins paired oppositely |  Reticulate smaller veins forming a network |  Rotate in peltate leaves, veins radiating |

DISPOSITION

| | | | | | |
|---|---|--|---|---|--|
|  Alternate leaflets arranged alternately |  Odd Pinnate leaflets in rows, one at tip |  Perfoliate stem seeming to pierce leaf |  Tripinnate leaflets also bipinnate |  Bipinnate leaflets also pinnate |  Opposite leaflets in adjacent pairs |
|  Rosette leaflets in tight circular rings |  Unifoliate having a single leaf |  Even Pinnate leaflets in rows, two at tip |  Peltate stem attached centrally |  Trifoliate/Ternate leaflets in threes |  Whorled rings of three or more leaflets |