

Menu structure

LEAF CHARACTERISTICS

LEAF PERSISTENCE

- Evergreen
- Deciduous

LEAF ARRANGEMENT

- Alternate
- Opposite
- Whorled
- 2 Leaves per Fascicle
- 3 Leaves per Fascicle
- 5 Leaves per Fascicle
- On Indeterminate Short Shoot

LEAF COLOR

- Bluish
- Yellowish
- Brownish
- Two white lines on underside
- Numerous white lines

LEAF APEX

- Acuminate
- Acute
- Rounded
- Emarginate

LEAF MARGIN

- Entire
- Serrulate

LEAF SHAPE

- Broad Fan Shaped
- Linear
- Acicular
- Subulate
- Scale
- Twisted
- Quadrangular in Cross Section
- Flattened in Cross Section
- Decurrent
- Petiolate

- Petiolate on a Peg
- Sessile on a Peg

### LEAF SURFACE

- Glabrous
- Glaucous
- Glandular

### LEAF PHYSICAL PROPERTIES

- Soft
- Stiff
- Flexible
- Brittle

### LEAF LENGTH

- < 1 cm
- 1.1 - 3.5 cm
- 3.6 - 6.5 cm
- > 6.5 cm

### LEAF WIDTH

- < = 2 mm
- > 2 mm

## TWIG CHARACTERISTICS

### TWIG SURFACE

- Glabrous
- Glaucous
- Pubescent

### TWIG WIDTH

- < 2 mm
- 2 - 5 mm
- >5 mm

### BUD SCALE COLOR

- Reddish
- Yellowish
- Greenish
- Brownish
- Grayish
- Blackish

### LEAF SCAR SHAPE

- Small and inconspicuous
- Readily Visible
- Circular
- Elliptical
- Peg-like projections
- Slightly raised cushion

### LEAF SCAR ARRANGEMENT

- Alternate
- Opposite
- Whorled

### TWIG BARK TEXTURE

- Smooth
- Rough

### TWIG BARK COLOR

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

### TRUNK BARK CHARACTERISTICS

#### TRUNK BARK TEXTURE

- Smooth
- Rough
- Plate like scales
- Vertical Strips
- Ridges and Furrows

#### RIDGE/PLATE CHARACTERISTICS

- Rounded Ridges
- Scaly Ridges
- Irregular Ridge Pattern
- Rectangular Plates

#### FURROW CHARACTERISTICS

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

### OUTER BARK COLOR

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

### INNER BARK COLOR

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

### TRUNK BARK THICKNESS

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

### CONE CHARACTERISTICS

#### FEMALE CONE SHAPE

- Spherical
- Egg Shaped
- Cylindrical

#### FEMALE CONE LENGTH

- < 2.0 cm
- 2.1 cm - 5.0 cm
- 5.1 cm - 7.0 cm
- > 7.1 cm

#### FEMALE CONE WIDTH

- < 2.0 cm
- 2.1 cm - 5.0 cm
- 5.1 cm - 7.0 cm
- > 7.1 cm

## OVULIFEROUS SCALE COLOR

- Reddish
- Orangish
- Yellowish
- Tannish
- Brownish
- Bluish

## OVULIFEROUS SCALE MORPHOLOGY

- Thin Ovuliferous Scale
- Thick Ovuliferous Scale
- Distinct Keel on Ovuliferous Scale
- Prickle at Apex of Ovuliferous Scale
- Ovuliferous Scales Are Fused Together

## OVULIFEROUS BRACT MORPHOLOGY

- Ovuliferous Bract Shorter than Ovuliferous Scale
- Ovuliferous Bract Longer than Ovuliferous Scale
- Ovuliferous Bract is Fused with Ovuliferous Scale
- Apex of Ovuliferous Bract is Lobed

## SEED MORPHOLOGY

- Orange Fleshy Seed Coat
- Scarlet fleshy aril around seed
- Bluish `Berry` Like
- Wing like extension of seed coat

## TREE SHAPE

- Shrub
- Pyramidal
- Conical
- Spreading
- Broad
- Rounded

## FAMILIES

- Cupressaceae
- Ginkgoaceae
- Pinaceae
- Taxaceae

## GENERA

- Abies
- Ginkgo
- Juniperus
- Larix
- Metasequoia
- Picea
- Pinus
- Pseudotsuga
- Taxodium
- Taxus
- Thuja
- Tsuga