• **Plant Characteristics**: Heavily branched crown in youth and in old age the crown is somewhat symmetrically oval with the characteristic tufted foliage. Crown is sparse and oval.

• **Size**: Height: 50-80’
  
  Width: variable

• **Foliage**: Medium to dark color green. Brittle, sharp pointed needles in two’s, persisting for 4 years. Needles are 5-6” long and snap when bent.

• **Flower**: Monecious, no ornamental value

• **Fruit**: Light brown cone that is 2” long and 1—2 inches wide.

• **Soil**: Prefers dry, loose, sandy soil with low pH

• **Tolerances**: Extremely cold tolerant
  
  Tolerates alkaline soil.

• **USDA Hardiness Zone**: Zone 2—5

• **Light Range**: Full sun. ☀️

• **pH Range**: 6.8 or less.

• **Other**: - extremely resistant to insects and disease
  
  - medium rate of growth, about 6”/year
  
  - susceptible to salt damage
  
  - Attracts songbirds upland game birds
  
  - Mammals
  
  - used for groves and windbreaks