Age Gradation & Age Class

Age Gradation:

An age class with one year as the interval.

Age Class:

One of the intervals into which the *range of age of trees falling into such an interval*.

Eg., 1-10, 11-20, etc.

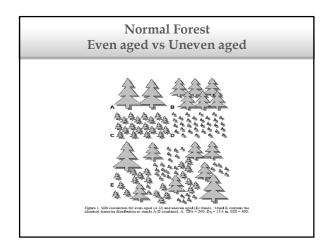
Age Gradation & Age Class

- Distribution in even aged forests
- Distribution in uneven aged forests

Need for Normal AG/AC

Sustained yield

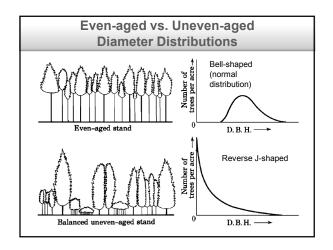
- Complete series of **age gradation** (from seedling to rotation age) **in proper proportion** in regular forests.
- Complete series of size/ age classes in proper proportion that will permit equal volume in annual or periodic felling at a given rotation in irregular forests.

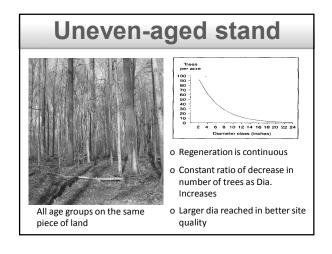


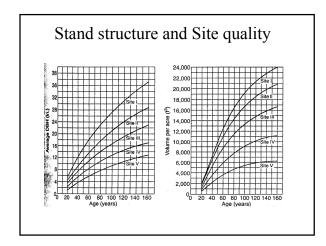
Even-aged stand

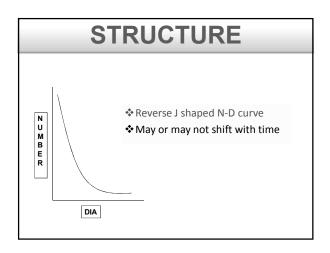


STRUCTURE * Bell shaped n-D curve * Trees group themselves symmetrically about the mean diameter * Yield regulated by area



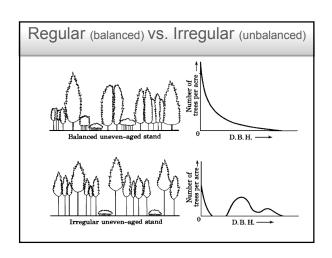


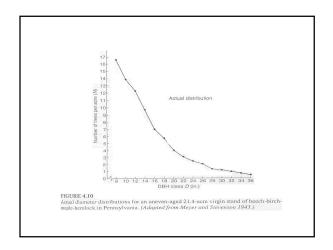




Normal Age Gradation in Irregular Forests

- Presence of normal age gradation though dispersed in the entire area in appropriate proportion is assumed to be present in a felling series (FS) in selection forests
- Regeneration is taking place all over the area
- Entire FS need to be worked annually.
 Not practical, 10-20 year felling cycle (FC) is prescribed.
- Yield regulated by volume and not area
- Unit of selection individual tree





Uneven Aged Stand -Structure

> De Liocourt's Law

- In a fully stocked selection forest, the number of stems falls from one Dia. class to the next in a geometrical progression.
- % reduction in the stem no. from one Dia. class to next is constant

