

Sustained yield

The material that a forest can yield annually or periodically in perpetuity.

• Principle

- Annual or periodic felling do not exceed the annual or periodic growth

• Concept

- Future generation derives as much as the present generation

Terminology

- Working Circle
- Felling series
- Coupe
- Cutting section
- Periodic Block

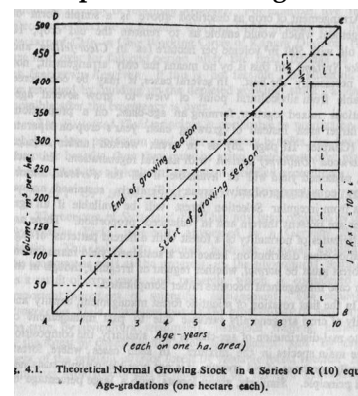
Terminology

- Composition
 - Pure
 - Mixed
- Constitution
 - Even aged/ Regular/ Uniform/ Even heighted
 - All aged/ Uneven aged/ Irregular/ Uneven heighted

Terminology

- Rotation
- Felling Cycle
- Thinning
- Growing stock
- Increment
- Yield

Concept 1: Clear felling

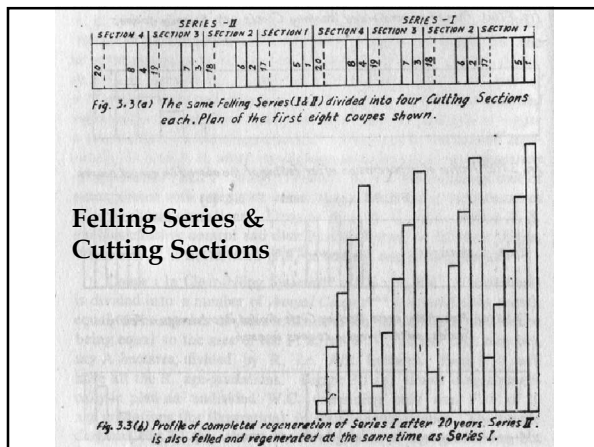
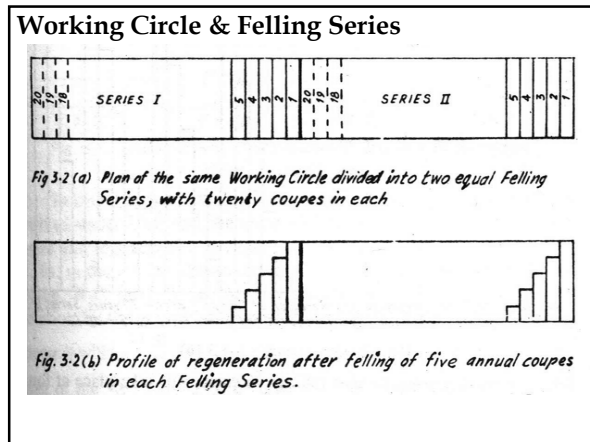
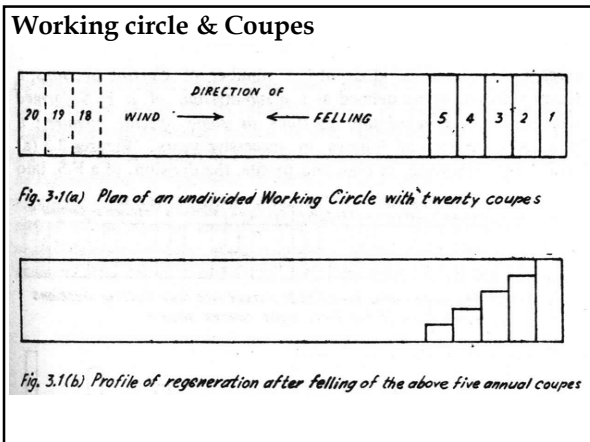


Series of crops of all ages, on equal areas, from seedling to maturity

Annually an equal area will be available at maturity for removal

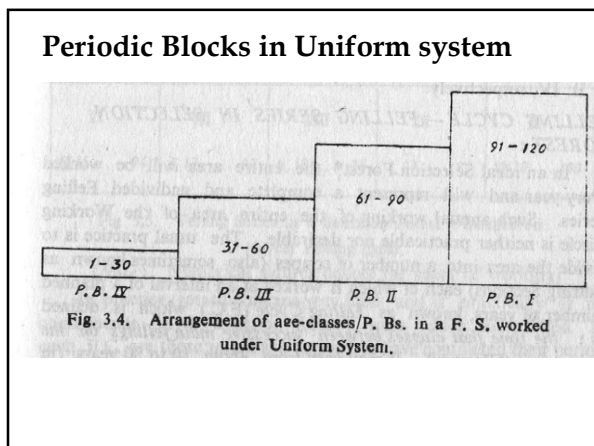
Accumulated production of 'n' yrs is removed annually

But, an equal area doesn't also mean equi-productive area



Concept 2: Uniform sys./ Selection sys.

In stead of growing each years' crop on a separate area, it's necessary to grow them mixed together on a proportionately larger area

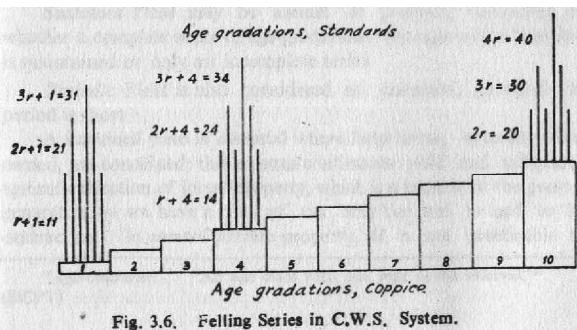


Felling Series in Selection System

I 1, 11..... 91	II 2, 12..... 92	III 3, 13..... 93	IV 4, 14..... 94	V 5, 15..... 95
VI 6, 16..... 96	VII 7, 17..... 97	VIII 8, 18..... 98	IX 9, 19..... 99	X 10, 20..... 100

Fig. 3.5. Felling Series in a Selection Forest : Worked on 10-year Felling Cycle.

Felling Series in Coppice with Standards sys.



... only interest has to be removed without encroaching upon the capital ...

Advantages:

1. Regular supply and so ensures a steady income to the state
2. Affords scope for systematic work & equal employment continuously
3. Results in regular demand & a fair competition among the purchasers

Criticism against Sustained Yield Principle

1. Rigid; Fixed supply
2. Static; not progressive
3. Not adaptive to change in demand

What is expected?

Progressive yield

Increasing productivity of soil and crop by improved silvicultural treatments, judicious tending, enrichment by changing composition etc

1. Dynamic principle
2. Supports scientific forest mgnt.
 - a. Improved Silvi. Technique
 - b. Forestry research

Pre requisite

Normal Forest

What is Normal Forest?