

## LECTURE 3: PRINCIPLES OF BREEDING FOR HIGH YIELDS, IMPROVED QUALITY, PEST RESISTANCE AND TOLERANCE TO ENVIRONMENTAL STRESSES.

### HIGH YIELD BREEDING

**Yield** is a generic term used by crop producers to describe the amount of the grain of a crop plant of interest that is harvested from a given area at the end of the cropping season or within a given period. It could be the leaves, fruits, stems, roots, or flowers, or any other morphological plant. Plant breeders seldom talk solely on yield basis, without some attention to other morphological features of the plants. Yield is the best measure of the integrated performance of a plant. Therefore the genetic control is complex and its heritability is usually low. Three main approaches may be discerned in breeding for increased yield in crop plants.

**First**, yield can be regarded as a quantitative character, in which case use is made of quantitative genetics in both the choice of potentially useful parents and in selection procedures.

**Second**, certain approaches attempt to resolve yield into either the visible components (e.g. for wheat, grain size or weight, grain number per spikelet, number of spikelets per head and number of fertile tillers or shoots per plant), or physiological or biochemical processes, which may be under genetic control than total yield.

**Third** approach aims at increasing yield through selecting for increased adaptability, either generally over a range of seasons and localities, or specifically (e.g. improved yield or drought resistance, or greater tolerance to adaptive factors such as soil salinity or to extreme pH).

The component approach in breeding for increased yield is an area of great interest. Some of the visible components of yield (e.g. grain size and spikelet number) in wheat have been shown to have higher heritability than total yield and hence provide more scope for improvement. One of major causes of yield loss is crop competition with weeds. With a push towards reduced pesticide use there is now interest in characters such as allelopathy and competitiveness against weeds as ways to maintain or increase yield. For example, the use of broad, floppy leaves in wheat has been shown to allow it to effectively compete against ryegrass (a major weed); presumably due to better light interception. Increased seedling vigour through the use of larger embryos and longer coleoptiles has also been suggested (Lemmerling et al., 2001).

### BREEDING FOR IMPROVED QUALITY

The term quality in crop production has different meanings according to the demands made of the crop products in industry and commerce. It can mean the suitability of the crop product to the technological demands made of it in its industrial processing (e.g. the milling quality of wheat which is an evaluation of the ease of extraction, and the total amount of flour able to be extracted from the grain). Quality can also mean the extent to which the crop product meets the specifications of commercial demand (e.g. baking quality of wheat, malting quality of barley, taste, size and shape of fruit, fibre length, diameter and strength of cotton, grain size, colour, taste, protein content, and cooking time in pulses).

The term nutritive quality is used to denote the dietary value of the crop product for human or animal consumption. It usually embodies an evaluation of the total carbohydrate, protein and fibre content and the available minerals. It often also includes estimates of the amino acid composition of the product. The quality of the crop product can usually be resolved into a small number of components whose variation is correlated with variation in the overall quality of the product. These components are used to measure quality in breeding and to guide selection.

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### **Table of Contents Evrifi Module 4 Qui**

1. Understanding the eBook Evrifi Module 4 Qui
  - The Rise of Digital Reading Evrifi Module 4 Qui
  - Advantages of eBooks Over Traditional Books
2. Identifying Evrifi Module 4 Qui
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Evrifi Module 4 Qui
  - User-Friendly Interface
4. Exploring eBook Recommendations from Evrifi Module 4 Qui
  - Personalized Recommendations
  - Evrifi Module 4 Qui User Reviews and Ratings

- Evrifi Module 4 Qui and Bestseller Lists
- 5. Accessing Evrifi Module 4 Qui Free and Paid eBooks
  - Evrifi Module 4 Qui Public Domain eBooks
  - Evrifi Module 4 Qui eBook Subscription Services
  - Evrifi Module 4 Qui Budget-Friendly Options
- 6. Navigating Evrifi Module 4 Qui eBook Formats
  - ePUB, PDF, MOBI, and More
  - Evrifi Module 4 Qui Compatibility with Devices
  - Evrifi Module 4 Qui Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Evrifi Module 4 Qui
  - Highlighting and Note-Taking Evrifi Module 4 Qui
  - Interactive Elements Evrifi Module 4 Qui
- 8. Staying Engaged with Evrifi Module 4 Qui
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Evrifi Module 4 Qui
- 9. Balancing eBooks and Physical Books Evrifi Module 4 Qui
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Evrifi Module 4 Qui
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Evrifi Module 4 Qui
  - Setting Reading Goals Evrifi Module 4 Qui
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Evrifi Module 4 Qui
  - Fact-Checking eBook Content of Evrifi Module 4 Qui
  - Distinguishing Credible Sources

---

- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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