

Characteristics of good quality seed

1.Improved Variety Seed:-

- a. The seed should be superior than existing one
- b. The variety should be latest one
- c. It should be suitable for the area
- d. The seed of the variety should have high production potential
- e. The seed of the variety should have all the desirable characters

2. Genetic purity:-

- a. True to type:- The seed should have all the characters described by the Breeder
- b. Genetically Pure:-The seed should possess all the genetic characters placed in the seed by the breeder. There should be possibility of genetic deterioration of the variety during successive multiplication and distribution of seed. This resulted in to decrease in yield performance, Disease resistance. Hence, it is very necessary to ensure the genetic purity.
- c. The seeds should give expected yield
- d. The seeds should be disease, insect, pest, drought resistance

3. Physical purity:-

- a. It means the seed should be free from inert matter (Dust, Soil particle etc.) Broken seed, Seed of other Crop and Weed seed

4. Germination and Vigour:-

- a. The seed should have high vigour so that it will give effective plant stand in the field
- b. The seed should have high germination percentage. Which resulted in excellent plant stand in the field as well as uniform growth of the crop.
- c. The seed should have ability to give normal seedling after emergence/ Germination

5. Planting Value:-

- a. It is the real value / Price of the seed of seed lot for raising the crop. It is determined by calculating pure live seed percentage by using the formula as given below.

$$\text{Pure live seed (\%)} = \frac{\text{Percentage of pure seed} \times \text{Percentage of Germination}}{100 \times 100}$$

6. Seed health:-

- a. The seed should be free from the disease causing organism like bacteria, Fungi, Virus, Pest and Insects etc.

7. Seed Moisture:-

- a. It is most important factor in maintenance of seed germination, Seed viability and seed storage, The moisture content should not be more than 12 percent

8. Size of seed:-

a. Bold seed having high weight and specific gravity has positive correlation with seed germination and vigour of crop while small sized seed, low weight with low specific gravity has negative correlation with germination and vigour of crop

9. Seed colour and Shining:-

a. It is affected only in unfavourable weather condition only. Still it should be good to increase the quality of seed

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