Study on Crop Evaluation and Crop Reporting

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Crop evaluation

Evaluation of a crop can be done by observing the present growing condition of crop or doing crop cutting experiment or conducting experiment according to some scientific means and ways to evaluate a crop practically.

Crop evaluation can be done in two different ways:

A. Scientific method of crop cutting
B. Evaluation for national report preparation
   a) Observing the crop growing condition
   b) Conducting crop cutting experiment

A. Scientific method of crop evaluation:

1. Scientific method of crop evaluation for rice
   - No. of plant per unit area (m^2)
   - Plant height (cm)
   - No. of tiller per plant
   - No. of effective tiller per plant
   - No. of grain per panicle
   - Length of panicle
   - No. of fertile grain per panicle
   - Day of flowering
   - Thousand grains weight (g)
   - Grain yield (t ha^{-1})
   - Straw yield (t ha^{-1})

2. In case of cruciferous plant (rapeseed/mustard)
   - No. of plant per unit area
   - Height of plant (cm)
   - Length of the main inflorescence (cm)
   - No. of primary branches per plant
   - No. of siliqua in the main inflorescence
   - No. of secondary branches per plant
   - No. of siliqua per plant
   - Length of the siliqua (cm)
   - No. of seeds per siliqua
   - No. of sterile seeds per siliqua
   - Thousand seed weight (g)
   - Weight of seed per plant (g)
   - Seed yield (t ha^{-1})
   - Stover yield (t ha^{-1})

3. In case of pulse: No. of pods per plant
4. In case of wheat: No. of spikelet per plant
5. In case of sunflower: Size of head or no. of seeds per head
6. In case of maize: No. of cobs per plant and no. of seeds per cob

B. Evaluation for national report preparation:

1. Date of report preparation
2. Crop identification
   Local name:
   Common name:
   Scientific name:
   Family:
   Variety:
3. Plot reference:
   Location of the plot:
   Name of the farm with the address:
   Plot no.:
   Topography:
4. Objective of cultivation:
5. Date of sowing or planting:
6. Cultural operation
   Operation have been within 15 days
   Operation will be needed for coming 15 days
7. Present condition of the crop:
   - Vegetative stage
   - Weed and insect infestation
   - Reproductive stage
   - Rainfed or irrigated
   - Prematurity and ripening stage
8. Operation under practices:
   - Irrigation
   - Fertilizer application
   - Weeding and Earthing- up
   - Harvesting
9. Suggestion:
10. Probable date of harvesting:
    - Starting
    - Finishing
11. Overall comment
12. Expected yield

Preparation of crop report on the standing crop …….. :

1. Date of report preparation:
2. Crop identification:
   - Local name:
   - Common name:
   - Scientific name:
   - Family:
   - Variety:
3. Plot reference:
   (i) Location:
   (ii) Name of the farm with address:
   (iii) Plot no.:
   (iv) Topography:
4. Objective of cultivation:
5. Date of sowing:
6. Cultural operation:
   - Operation have been within 15 days
   - Operation will be needed for the coming 15 days
7. Present condition of the crop:
   - Stage:
   - Weeds:
   - Rainfed or irrigated:
8. Operation under practices:
9. Suggestion:
10. Probable date of harvesting:
11. Overall comment:
12. Expected yield: