

Study on Crop Evaluation and Crop Reporting

Mirza Hasanuzzaman, PhD

Professor

Department of Agronomy

Sher-e-Bangla Agricultural University

Email: mhzsauag@yahoo.com

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 ($t\ ha^{-1}$)



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| 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:

