

Research Recommendations

On the basis of research work carried out under the scheme "Statistical Evaluation of Experimental Variability for Improving Efficiency of Field Experimentation" following recommendations were made for scientific community.

Year: 1995

- (1) The field experiments on maize crop at the Maize Research station, Godhra during kharif season should be conducted in Latin square design with 5-9 treatments and 6 sq.m. plot size *i.e.* 5 rows each of 2 m length.
- (2) The optimum plot size for field experiments on Guar, Green gram and Black gram is 6 to 9 sq.m. and that of Arhar and Gram is 9 to 12 sq.m.
- (3) Minimum four replications are must for better precision of experimental result in pulse crop.
- (4) The upper limit of CV% for accepting the results of field experiments on pulse crop is 23 per cent.

Year: 1997

- (5) A plot of 10.8 sq.m. size having shape of 2 m. length (S-N) and 5.4 m. cross width (E-W) is considered as optimum size and shape for Arhar crop field experiments at Derol.
- (6) A plot of 7.2 sq.m. (8 unit) size having shape of 2 m. length (S-N) and 3.6 m. cross width (8 rows) in E-W is optimum size and shape for drilled paddy experiment at Derol.

Year: 1998

- (7) A plot of 7.2 sq.m. size having shape of 2 m. length (N-S) and 3.6 m. cross width (6 rows in E-W) is optimum size and shape for Arhar crop (narrow distance) field experiments at Aseda, S.K. Nagar.

Year: 1999

- (8) A plot of 10.8 sq.m. size having shape of 2 m.length (N-S) and 5.4 m. cross width (6 row in E-W) is optimum size (Net) and shape for cotton crop experiment at Dry farming research station, Targhadia, Rajkot.
- (9) The upper limit of CV% for accepting the results of field experiment on vegetable crop is 23 per cent for yield character.

Year: 2000

- (10) The yard stick of CV% for accepting the results of irrigated castor crop experiments is 20 per cent for yield character.

Year: 2001

- (11) A plot of 10.8 sq.m. size having shape of 4 m. length (E-W) and 2.7 m. cross width (6 row in E-W) is optimum size (Net) and shape for cluster bean experiment at Pulse research station, Gujarat Agricultural University, S.K. Nagar.
- (12) The yard stick of CV% for accepting the results of Mustard crop experiments is 17 per cent for yield character.

Year: 2003

- (13) The yard stick of CV% for accepting the results of *kharif* cotton crop experiments is 23 per cent for yield character.

Year: 2005

- (14) The yard stick of CV % for accepting the results of irrigated wheat crop experiment is 12 per cent and un irrigated wheat crop experiment is 18 per cent for yield characters.

Year: 2009

- (15) The yard stick of CV for accepting the results of forage crop experiment is 14 per cent for green and dry fodder yield character.

Year: 2015

- (16) The yard stick of CV% for accepting the results of Medicinal and Aromatic crops experiments is 23 per cent for yield character.
- (17) The yard stick of CV% for accepting the results of Safed musali crop experiments is 21 per cent for economical yield character
- (18) The yard stick of CV% for accepting the results of Ashwagandha crop experiments is 22 per cent for economical yield character.
- (19) The yard stick of CV% for accepting the results of Isabgul crop experiments is 23 per cent for yield character.

Year: 2016

- (20) The yard stick of CV% for accepting the results of wheat (Bhal and Coastal zone) crop experiments is 15 per cent for yield character.
- (21) The yard stick of CV% for accepting the results of safflower (Bhal and Coastal zone) crop experiments is 24 per cent for yield character.
- (22) The yard stick of CV% for accepting the results of gram (Bhal and Coastal zone) crop experiments is 19 per cent for yield character.
- (23) The yard stick of CV% for accepting the results of Dhandhuka center (Bhal and Coastal zone) crop experiments is 14 per cent for yield character.
- (24) The yard stick of CV% for accepting the results of cotton (Bhal and Coastal zone) crop experiments is 21 per cent for yield character.
- (25) The yard stick of CV% for accepting the results of Bhal and Coastal zone crops experiments is 18 per cent for yield character.
- (26) The yard stick of CV % for accepting the results of Arnej centre crops experiments is 20 percent for yield character.

Year: 2018

- (28) The yard stick of CV% for accepting the results of Sugarcane crop for agronomical experiment is 12 per cent for yield character for south Gujarat region.
- (29) The yard stick of CV% for accepting the results of Sugarcane crop for varietal trials is 10 per cent for yield character for south Gujarat region.

Year: 2019

- (30) The yard stick of CV% for accepting the results of Maize crop experiments is 17 per cent for yield character.

Year: 2020

- (31) The yard stick of CV% for accepting the results of Rice crops experiments is 14 per cent for yield character.