Research recommendations given by Dept. of Agril. Statistics

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

Year	Topic	Scientific Recommendation
1995	Statistical Evaluation of Experimental Variability for Improving Efficiency of Field Experimentation	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 9sq.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 percent.
1997	Plot technique study of arhar and paddy at Derol	1) 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. 2) 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.
1998	Plot technique study of arhar at S.K. Nagar	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.
1999	Plot technique study of cotton at Targhadia, Rajkot	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.
1999	Development of yardstick of CV% for vegetable crop experiments	The upper limit of CV% for accepting the results of field experiment on vegetable crop is 23 per cent for yield character
2000	Development of yardstick of	The upper limit of CV% for accepting the results of

	CV% for irrigated castor crop experiments	field experiment on irrigated castor crop is 20 per cent for yield character
2001	Plot technique study of cluster bean at S K Nagar	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.
2001	Development of yardstick of CV% for mustard crop experiments	The yard stick of CV% for accepting the results of Mustard crop experiments is 17 per cent for yield character.
2003	Development of yardstick of CV% for cotton crop experiments	The yard stick of CV% for accepting the results of *kharif* cotton crop experiments is 23 per cent for yield character.
2005	Development of yardstick of CV% for wheat crop experiments	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.
2009	Development of yardstick of CV% for forage crop experiments	The yard stick of CV for accepting the results of forage crop experiment is 14 per cent for green and dry fodder yield character.
2015	Development of yardstick of CV% for Safed musali crop experiments	The yard stick of CV% for accepting the results of Safed musali crop experiments is 21 per cent for economical yield character.
2015	Development of yardstick of CV% for Ashwagandha crop experiments	The yard stick of CV% for accepting the results of Ashwagandha crop experiments is 22 per cent for economical yield character.
2015	Development of yardstick of CV% for Isabgul crop experiments	The yard stick of CV% for accepting the results of Isabgul crop experiments is 23 per cent for yield character.
2016	Development of yardstick of CV% for Arnej center (Bhal and Coastal Zone) crop experiments	The yard stick of CV for accepting the results of Arnej center (Bhal and Coastal Zone) crop experiment is 20 per cent for yield character.
2016	Development of yardstick of CV% for Dhandhuka center (Bhal and Coastal Zone) crop experiments	The yard stick of CV for accepting the results of Dhandhuka center (Bhal and Coastal Zone) crop experiment is 14 per cent for yield character
2016	Development of yardstick of CV% for Bhal and Coastal Zone crop experiments	The yard stick of CV for accepting the results of Bhal and Coastal Zone crop experiment is 18 per cent for yield character.
2016	Development of yardstick of CV% for gram (Bhal and Coastal Zone) crop	The yard stick of CV for accepting the results of gram (Bhal and Coastal Zone) crop experiment is

	experiments	19 per cent for yield character.
2016	Development of yardstick of CV% for wheat (Bhal and Coastal Zone) crop experiments	The yard stick of CV for accepting the results of wheat (Bhal and Coastal Zone) crop experiment is 15 per cent yield character.
2016	Development of yardstick of CV% for cotton (Bhal and Coastal Zone) crop experiments	The yard stick of CV for accepting the results of cotton (Bhal and Coastal Zone) crop experiment is 21 per cent for yield character.
2016	Development of yardstick of CV% for safflower (Bhal and Coastal Zone) crop experiments	The yard stick of CV for accepting the results of safflower (Bhal and Coastal Zone) crop experiment is 24 per cent for yield character.
2018	Development of yardstick of CV% for sugarcane crop experiments	1) 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. 2) 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.
2019	Development of yardstick of CV% for Maize crop experiments for Godhra center	The yard stick of CV% for accepting the results of Maize crop experiments is 17 per cent for yield character.
2020	Development of yardstick of CV% for rice crop experiments for Nawagam center	The yard stick of CV% for accepting the results of Rice crops experiments is 14 per cent for yield character.
2021	Development of yardstick of CV% for tobacco crop experiments	The yard stick of CV% for accepting the results of tobacco crop experiments is 15 per cent for yield character.
2023	Development of yardstick of CV% for Vegetable crop experiments	The yard stick of CV for accepting the results of Vegetable crop experiment is 17 per cent yield character.
2023	Development of yardstick of CV% for Forage crop experiments	The yard stick of CV for accepting the results of forage crop experiment is 14 per cent for green and dry fodder yield character.
2024	Brassicaceae Family ontology development	The scientific community is advised to develop information systems based on Fertilizer application ontology for Cabbage, Cauliflower and Mustard crops of Brassicaceae family developed by Anand Agricultural University, Anand and even extend it further.