

APPENDIX 3

RESEARCH TOOL OF THE STUDY

THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA**A STUDY OF TEACHERS' PROBLEMS, ATTITUDES AND OUTPUT
RELATED TO RESEARCH IN
AGRICULTURAL UNIVERSITIES OF INDIA***Guide*

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Dear Friend

I am a Ph D. student in the Faculty of Home Science, M. S. University, Baroda and an Assistant Professor in the College of Home Science, Punjab Agricultural University, Ludhiana, Punjab.

An attempt is being made to find out the problems, attitudes and output of teachers related to research in Agricultural Universities of India. If the problems and attitudes related to research are identified, it would provide many precious clues to improve the existing conditions to enhance the research output of teachers. It is assumed that the teachers have to perform activities related to Teaching, Research and Extension. Here, in this investigation, 'Research' has been taken as an independent aspect of study.

Kindly respond to the items in this questionnaire as professional work and participate in a worthy venture of faith. The information provided will be strictly confidential and used for research purpose only.

All responses are to be made keeping your own Department/College in mind.

Please post the completed questionnaire in the self-addressed envelope enclosed herewith. An early return (within a week) will be highly appreciated.

-Investigator

DEPARTMENT OF HOME SCIENCE EDUCATION & EXTENSION
FACULTY OF HOME SCIENCE
BARODA, MARCH, 1979



PRELIMINARY INFORMATION

1. Please check (☒) the age range you belong to :

20 - 30 years ()

31 - 40 years ()

41 - 50 years ()

51 and above ()

2. Your Marital status :

Married () Unmarried ()

3. Final academic degree received :

3. 1 M.A. ()

3. 2 M. Sc. ()

3. 3 Ph. D ()

3. 4 Year of receiving the degree : _____

3. 5 Subject in which the degree received : _____

3. 6 Field of Specialization ; _____

4. Designation :

4. 1 Professor ()

4. 2 Associate Professor ()

5. Please check (☒) the teaching experience range you belong to :

1 - 5 years ()

6 - 10 years ()

11 - 15 years ()

16 - 20 years ()

21 and above years ()

6. You are living :

5. 1 In University quarter ()

5. 2 In Private house ()

5. 3 In Rented house ()

PROBLEMS RELATED TO CONDUCTING RESEARCH

Directions : Below is a series of statements related to problems encountered in the conduct of research by teachers of Agricultural Universities.

Out of the 5 choices for answering the statements, please select ONE (and only one) and encircle it indicating your choice. The choices given are :

- N — Never
R — Rarely
S — Sometimes
O — Often
A — Always

Please mark your responses clearly

NOW THE QUESTIONNAIRE BEGINS

- | | | | | | | |
|---|--|--------------|--------------|--------------|--------------|--------------|
| 1. | I am not able to conduct research because of : | N | R | S | O | A |
| 1. 1 | Lack of ideas for research. | N | R | S | O | A |
| 1. 2 | Lack of confidence in taking up research work | N | R | S | O | A |
| 1. 3 | Lack of faith in the value of research proposal. | N | R | S | O | A |
| 1. 4 | Lack of adequate training in research methodology. | N | R | S | O | A |
| 1. 5 | Lack of sincere persons with whom research problems could be discussed. | N | R | S | O | A |
| 1. 6 | Lack of interest in research. | N | R | S | O | A |
| 1. 7 | No Ph. D. degree. | N | R | S | O | A |
| 1. 8 | Lack of command over the English language. | N | R | S | O | A |
| 1. 9 | Lack of knowledge of the local language. | N | R | S | O | A |
| 1. 10 | Un-cooperative respondents. | N | R | S | O | A |
| 1. 11 | Lack of statistical knowledge. | N | R | S | O | A |
| 1. 12 | Number of family responsibilities. | N | R | S | O | A |
| 1. 13 | My having a part-time job besides the University job. | N | R | S | O | A |
| 2. | I am obliged to spend a lot of Time in doing clerical work in my department / college. | N | R | S | O | A |
| 3. | Many teaching assignments and their related activities consume a lot of my time. | N | R | S | O | A |
| 4. | Excess of extra curricular activities leave little time for research work. | N | R | S | O | A |
| 5. | A lot of my time is spent in staff meetings of the department/college. | N | R | S | O | A |
| Please encircle Yes/No whichever is applicable : | | | | | | |
| 6, | My research work is hindered because my college/University library : | Yes | No | | | |
| 6. 1 | does not have up-to-date books, periodicals, reports and journals related to my subject. | Yes | No | | | |

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6. 2	does not have comfortable sitting arrangements.	Yes	No
6. 3	does not have zexxing facilities.	Yes	No
6. 4	does not have cubicals/cells for teachers/research workers.	Yes	No
6. 5	does not have documentation facilities.	Yes	No
6. 6	does not keep books and journals separately and alphabetically arranged.	Yes	No
6. 7	does not have adequate number of staff for assisting the research worker.	Yes	No
6. 8	is situated far from my department.	Yes	No
7.	My department/college does not have laboratories for research.	Yes	No
8.	The laboratories in my department/college do not have sufficient equipment.	Yes	No
9.	There are insufficient number of technicians in my department/college.	Yes	No
10.	The laboratory technicians are poorly trained.	Yes	No
11.	The number of laboratory attendents is not sufficient in my department/college.	Yes	No
12.	The laboratories lack chemicals required for research.	N	R S O A
13.	The laboratories lack other required ingredients and materials.	N	R S O A
14.	The laboratory equipment is out-of-order.	N	R S O A
15.	The laboratory attendents in my department/college are not active and cooperative	N	R S O A
16.	The department/college vehicle is out-of-order.	N	R S O A
17.	Because of insufficient number of drivers, the transport is not available for research.	N R S O A	N R S O A
18.	The department/college vehicles are allotted for other than research purposes.	N	R S O A
19.	Lack of funds for fuel make the vehicle unavailable for research.	N	R S O A
20.	My department head/college Dean interferes with my research work by :		
20. 1	not forwarding my letters.	N	R S O A
20. 2	not sanctioning money.	N	R S O A
20. 3	being rigid in enforcement of time-table.	N	R S O A
20. 4	not providing typing and cyclostyling facilities.	N	R S O A
20. 5	not letting me use laboratories after college time.	N	R S O A
20. 6	giving me more than prescribed teaching load.	N	R S O A
20. 7	not letting me do the research in which I am interested.	N	R S O A

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20. 8	not providing manual help i. e. peons, attendents etc.	N	R	S	O	A
20. 9	not providing me the transport facilities.	N	R	S	O	A
21.	The Head/Dean of my department/college is not ready to help me in research matters.	N	R	S	O	A
		N	R	S	O	A
22.	The Head/Dean does not visit her/his ailing colleagues at their homes/in the hospitals.	N	R	S	O	A
23.	The Head/Dean does not try to make the work enjoyable to teachers in my department/college.	N	R	S	O	A
24.	The Head/Dean is not affectionate, sympathetic and understanding towards her/his teachers.	N	R	S	O	A
25.	The Head/Dean does not see that every teacher has prescribed work-load in my department/college.	N	R	S	O	A
26.	The Head/Dean does not respect every teacher.	N	R	S	O	A
27.	The Head/Dean is not interested in research.	N	R	S	O	A
28.	The Head/Dean does not depute her/his teachers for research methodology courses.	N	R	S	O	A
29.	The Head/Dean does not want teachers to discuss research with her/him	N	R	S	O	A
30.	The department/college does not have any research project.	N	R	S	O	A
31.	The Head/Dean discourages the teachers with good research work by :					
31. 1	not recommending their names for advance increments.	N	R	S	O	A
31. 2	not recommending them for promotions.	N	R	S	O	A
31. 3	not appreciating them publicly.	N	R	S	O	A
31. 4	not recommending them for deputations.	N	R	S	O	A
31. 5	not recommending them as experts to Boards of studies of other Universities.	N	R	S	O	A
32.	The staff of my department/college is not a one family.	N	R	S	O	A
33.	Teachers of my department/college do not go together for picnics.	N	R	S	O	A
34.	Teachers of my department/college do not have full confidence in their colleagues regarding academic activities.	N	R	S	O	A
35.	Teachers are not ready to give academic help to their colleagues in the hour of need.	N	R	S	O	A
36.	Teachers do not enjoy their tea/lunch together in my department/college.	N	R	S	O	A
37.	Teachers do not praise their colleagues, for professional activities like :	N	R	S	O	A
37 1	conducting research.	N	R	S	O	A

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37. 2	writing research articles.	N	R	S	O	A
37. 3	writing popular articles.	N	R	S	O	A
37. 4	writing books.	N	R	S	O	A
37. 5	reviewing books.	N	R	S	O	A
37. 6	presenting researches at National/International professional meetings.	N	R	S	O	A
38.	Teachers do not visit their colleagues' homes.	N	R	S	O	A
39.	Teachers do not conduct cooperative research in my department/college.	N	R	S	O	A
40.	Teachers do not borrow the research journals, reports and books from their senior/junior colleagues in my department/college.	N	R	S	O	A
41.	Teachers do not discuss among themselves their research problems and difficulties.	N	R	S	O	A
42.	Teachers of my department/college do not like their colleagues to criticise their research activities.	N	R	S	O	A
43.	Teachers do not like to have suggestions from their colleagues regarding research activities in my department/college.	N	R	S	O	A
44.	The senior teachers of my department/college block my way of doing research by :					
44. 1	not letting me work independently.	N	R	S	O	A
44. 2	not being cooperative.	N	R	S	O	A
44. 3	not answering to my research questionnaires.	N	R	S	O	A
44. 4	not guiding me in applying statistics to my research.	N	R	S	O	A
44. 5	not guiding me in writing research reports.	N	R	S	O	A
45.	Any other problem/s which you feel hinders your research work :-					

N — Never
 R — Rarely
 S — Sometimes
 O — Often
 A — Always

ONLY FOR HEADS

46. I cannot do research because :
- | | |
|--|-----------|
| 46. 1 I have too much paper work. | N R S O A |
| 46. 2 I have too many teaching problems to solve. | N R S O A |
| 46. 3 I have too many functions to attend. | N R S O A |
| 46. 4 I have too many students' problems to solve. | N R S O A |
| 46. 5 I have too much supervisory work. | N R S O A |
| 46. 6 I have too many meetings to attend. | N R S O A |
| 46. 7 I don't have sufficient number of teachers in my department. | N R S O A |
| 46. 8 The teachers in my department are not willing to do research. | N R S O A |
| 46. 9 My department teachers do not have research experience. | N R S O A |
| 46. 10 I have to attend many out-of station meetings, conferences,
seminars and symposia. | N R S O A |
| 46. 11 I have number of post-graduate students for guiding research. | N R S O A |
47. Any other problem/s which you feel has not been listed above and hinders your research work :-

(Thanks for your cooperation)

ATTITUDE TOWARDS RESEARCH

Directions : Below is a series of statements regarding attitudes toward research of teachers of Agricultural Universities. Please encircle the view which best expresses your own feelings i. e.

SA - Strongly Agree

A - Agree

UD - Undecided

D - Disagree

SD - Strongly Disagree

Be sure to encircle only one view for each of the statements. Please do not leave any statement unchecked.

- | | |
|--|---|
| 1. Teachers can utilise their knowledge through research. | SA A UD D SD |
| 2. Research has little future. | SA A UD D SD |
| 3. Research keeps the teachers intellectually alert. | SA A UD D SD |
| 4. Research is dull. | SA A UD D SD |
| 5. Research develops academic independence and a sense of responsibility. | SA A UD D SD |
| 6. Research isolates a teacher from the rest of the world. | SA A UD D SD |
| 7. Research offers exceptional opportunities for utilising time more productively. | SA A UD D SD |
| 8. Research should be given less importance as compared to teaching. | SA A UD D SD |
| 9. Research provides higher status in the academic field. | SA A UD D SD |
| 10. Research does not provide a chance for self-expression. | SA A UD D SD |
| 11. All types of facilities should be provided to teachers of Agricultural Universities for doing research. | SA A UD D SD |
| 12. Teachers having masters' degree with five years of teaching experience can do research. | SA A UD D SD |
| 13. Research is more time consuming than teaching. | SD A UD D SD |
| ✓ 14. In some researches only percentages can be used for analysis rather than sophisticated statistics. | SD A UD D SD |
| 15. Teachers should be forced to conduct research. | SD A UD D SD |
| 16. Teachers should spend more time on teaching than on research. | SD A UD D SD |
| 17. Teaching is more satisfying to teachers than doing research. | SD A UD D SD |
| 18. Financial rewards can motivate teachers to conduct research. | SD A UD D SD |
| 19. Research problems should be according to the interest of the funding agency rather than the interest of the research worker. | SD A UD D SD
SD A UD D SD |
| 20. A teacher having M.Sc. degree with teaching experience of ten years should be allowed to guide Ph.D. students. | SD A UD D SD |

SA - Strongly Agree
 A - Agree
 UD - Undecided
 D - Disagree
 SD - Strongly Disagree

21.	A teacher having M.Sc. degree with teaching experience of ten years should be allowed to guide M.Sc. students.	SD	A	UD	D	SD
22.	A teacher's main responsibility is to teach than guide research.	SD	A	UD	D	SD
23.	Teachers involved in guiding research should not take teaching assignments.	SD	A	UD	D	SD
24.	Teachers should train their students to find their own research problems.	SD	A	UD	D	SD
25.	Teachers should be strict to their students regarding their research activities.	SA	A	UD	D	SD
26.	All the research students should have research committees consisting of major guide, head of the department and a statistician.	SD	A	UD	D	SD
27.	For guiding research, a teacher should have maximum five students at M Sc. level at a time.	SD	A	UD	D	SD
28.	A teacher should have maximum two students for guiding research at Ph.D. level at a time.	SD	A	UD	D	SD
29.	Research findings should not be quoted while teaching under-graduate students.	SD	A	UD	D	SD
30.	Post-graduate teaching should mainly be based on research findings.	SD	A	UD	D	SD
31.	Seminars, conferences and symposia should be conducted more frequently in Agricultural Universities.	SA	A	UD	D	SD
32.	Popular magazines like Illustrated Weekly, Science Today, Mirror, Femina, Eve's Weekly etc. should not contain any research articles.	SA	A	UD	D	SD
33.	Research published in International journals is of high quality than that published in National journals.	SA	A	UD	D	SD
34.	Agricultural Universities should have their research publications in all the regional languages.	SA	A	UD	D	SD
35.	The department/college should compile its researches for ten years.	SA	A	UD	D	SD
36.	Teachers need not discuss researches being conducted by their students among themselves.	SA	A	UD	D	SD

RESEARCH OUTPUT

Directions : Please fill in the following items clearly and fully as they are very crucial for the present study. The information supplied will be kept strictly confidential and will be used only to study the effects of certain variables in the present investigation.

All the questions have to be answered keeping in mind the period of last 5 years i.e. 1973-1978.

1. Number of research papers published in Indian and Foreign journals :—

Subject* of the Paper	Name of the Journal
1. 1	
1. 2	
1. 3	
1. 4	
1. 5	
1. 6	
1. 7	
1. 8	
1. 9	
1. 10	

2. Number of research papers presented at professional meetings/Science Congresses/Symposia Seminars/Conferences :—

Subject of the Paper	Name of the Meeting
2. 1	
2. 2	
2. 3	
2. 4	
2. 5	
2. 6	
2. 7	
2. 8	
2. 9	
2. 10	

3. Number of research projects Completed :—

Title of the project	Funding Agency
3. 1	
3. 2	

* Please mention the areas of papers published like Agronomy, Horticulture, Microbiology, Parasitology, Agricultural Engineering, Chemistry, Economics, Foods and Nutrition, Child Development etc.

3. 3
3. 4
3. 5
4. Number of research projects under process :—
- | | Title of the project | Funding Agency |
|------|----------------------|----------------|
| 4. 1 | | |
| 4. 2 | | |
| 4. 3 | | |
| 4. 4 | | |
| 4. 5 | | |
5. Number of Books written :—
- | | Subject | Title of the Book |
|------|---------|-------------------|
| 5. 1 | | |
| 5. 2 | | |
| 5. 3 | | |
| 5. 4 | | |
| 5. 5 | | |
6. Number of dissertations guided :—
6. 1 at Master's Level ()
6. 2 at Ph. D. level ()
7. Number of dissertations examined from other universities :—
7. 1 at Master's level ()
7. 2 at Ph. D. level ()
8. Number of Seminars given in the Department/College :—
- | | Subject | Title of the Seminar Paper |
|-------|---------|----------------------------|
| 8. 1 | | |
| 8. 2 | | |
| 8. 3 | | |
| 8. 4 | | |
| 8. 5 | | |
| 8. 6 | | |
| 8. 7 | | |
| 8. 8 | | |
| 8. 9 | | |
| 8. 10 | | |
9. Number of lecture-notes cyclostyled and distributed to students :— ()

12. 8
12. 9
12. 10

13. Number of talks given on Television :-

	Subject of the talk	Title of the talk
13. 1		
13. 2		
13. 3		
13. 4		
13. 5		
13. 6		
13. 7		
13. 8		
13. 9		
13. 10		

Thank you Very much for your precious Co-operation.