### Chapter-V



# **Extension Education**

















#### 5.1 Directorate of Extension Education

The Directorate of Extension Education was established according to the Chapter-3 Part-IX vide Section 14.1(3) of the Gujarat Agricultural Universities Act-2004, for dissemination of the research findings and technical information through extension education programmes. The main function of the Directorate is to plan, coordinate, organize and guide the extension education programmes in the University and to ensure efficient working of the extension activities in close coordination with other development departments and state voluntary organizations, other officers and scientists of the

University. Dr. R.L. Savaliya supervised and guided the extension education activities during thereporting year.

#### 5.2 Extension Education Council

The Extension Education Council was constituted according to the provision of the Gujarat Agricultural Universities Act-2004 in exercise of the power vested under Section 62(1) in pursuance of Section 17(5). During The year 2009-10, Extension Education Council meeting was organized on Dt. 18.06.2009. The list of members attended the meeting of Extension Education Council during 2009-10 were as under:

| No.        | Name                                 | Designation                                    |
|------------|--------------------------------------|--|
| 1          | Dr. N.C. Patel                       | Vice Chancellor (Chairman)                     |
| 2          | Dr. R.L. Savaliya                    | Director of Extension Education (Secretary)    |
| 3          | Dr. H.J. Vyas                        | Director of Research & Dean PG Studies         |
| 4          | Dr. A.M. Pa <b>r</b> akhia           | Associate Director of Extension Education      |
| 5          | Dr. P.G. Butani                      | Principal & Dean, Agriculture Faculty          |
| 6          | Prof. A.H. Memon                     | Principal & Dean, Agril. Engg. & Tech. Faculty |
| 7          | Dr. A.Y. Desai                       | Principal & Dean, Fisheries Science Faculty    |
| 8          | Dr. P.U. Gajbhiye                    | Principal & Dean, Veterinary Faculty           |
| 9          | Dr. D.B. Kuchhadiya                  | Principal, PG1ABM                              |
| 10         | Dr. M.N. Popat                       | Professor & Head, Agril. Ext. Edu.             |
| 1 <b>1</b> | Dr. M.N. Kapadia                     | Professor & Head, Agrif. Entomology            |
| 12         | Dr. A.H. Raval                       | Professor & Head, Agril. Engg. Ext. Edu.       |
| 13         | Dr. B.R. Karkar                      | Asstt. Ext. Edu., SSK                          |
| 14         | Dr. L.B. Ranaparia                   | Principal, Polytechnic in Horticulture         |
| 15         | P <b>r</b> of. В.А. K <b>unadi</b> a | Research Scientist (Groundnut)                 |
| 16         | Dr. M.D. Khanapara                   | Research Scientist (Cotton)                    |
| 17         | Dr. P.H. Vatalia                     | Research Scientist (AGB)                       |
| 18         | Dr. H.D. Rank                        | Research Scientist (Agril, Engg.)              |
| 19         | Dr. S.M. Upadhyay                    | Professor & Head, Agril. Statistics            |
| 20         | Prof. D.M. Vyas                      | Principal, Polytechnic in Agro-Processing      |
| 21         | Dr. B.B. Kunjadia                    | Training Organizer, KVK, Amreli                |



#### 5.3 Extension Education and Training Centres

| Sr. No. | Туре  | Location                     |
|---------|---|------------------------------|
| I.      | Diploma Certificate Courses                     |                              |
| 1.      | Agriculture Diploma School                      | Halvad, Dhari                |
| 2.      | Horticulture Diploma School                     | Junagadh                     |
| 3.      | Livestock Inspector Training Centre             | Junagadh                     |
| 4.      | School of Baking                                | Junagadh                     |
| 5.      | Mali Training Centre                            | Junagadh                     |
| II      | Training Programmes for Extension Workers       |                              |
| 1.      | Training & Visit System Training Centre         | Junagadh                     |
| 2.      | Centre of Excellence for Training (Oilseeds)    | Junagadh                     |
| III.    | Training Programmes for Farmers/Farm Women      |                              |
| 1.      | Krishi Vigyan Kendra                            | Jamnagar, Targhadia, Amreli, |
|         |   | Khapat, Nana Kandhasar       |
| 2.      | Sardar Smruti Kendra                            | Junagadh                     |
| IV.     | Extension Education Programmes for Rural People |                              |
| 1.      | Farm Advisory Service Centre                    | Junagadh                     |
| 2.      | Extension Programme for Fisheries               | Okha                         |

### 5.4 Extension Education and Training Programmes

(f) Diploma/Certificate Courses for Farm Youths The Junagadh Agricultural University continued various Diploma/ Certificate courses during the year under report as per the details given below.

| Sr. | Name of Course               | Duration | Location | No. of Students      |
|-----|------------------------------|----------|----------|----------------------|
| No. |                              |          |          | Completed the Course |
| 1)  | Horticulture Diploma         | 2 years  | Junagadh | 27                   |
| 2)  | Agriculture Diploma          | 2 years  | Halvad,  | 5 <b>4</b>           |
|     |                              |          | Dhari    |                      |
| 3)  | Livestock Inspector Training | 1 year   | Junagadh | 33                   |
| 4)  | Bakery Training              |          |          |                      |
|     | Basic Course in Baking       | 20 weeks | Junagadh | 15 (2 Batches)       |
|     | Science                      |          |          |                      |
|     | Special Training to          | 1 week   | Junagadh | 99 (5 Batches)       |
|     | Women                        |          |          |                      |
| 5)  | Mali Training                | 6 months | Junagadh | 10 (1 Batch)         |
|     |                              |          | Total    | 238                  |

All these courses are aiming to impart skill oriented practical training to farmers' son/daughter in order to provide an opportunity for self-employment and employment in different organizations.



### (II) Training Programmes for Extension Workers

#### (Λ) Training & Visit System

Junagadh Agricultural University has taken-up the task of training the extension personnel of the Department of Agriculture and Horticulture through T&V System.

The details about number of bimonthly workshops, pre-seasonal training workshops and short-term training programmes organized for the extension personnel of the Department of Agriculture and the number of SMSs/AEOs who attended the programmes is as under.

| Sr.<br>No. | Type of programme               | Programmes | No of Participants |
|------------|---------------------------------|------------|--------------------|
| 1.         | Bimonthly Workshop              | 3          | 75                 |
| 2.         | Pre-seasonal Training Programme | 2          | <b>7</b> 1         |
| 3.         | Short Duration Course           | 4          | 92                 |
|            | Total                           | 9          | 238                |

#### (B) Other Training Programmes

The centre has continued to provide better training to the extension personnel to improve their technical competency and technical personnel of KVKs. The details about numbers of the attended the programmes are as under.

National Level Training Model Training Course

|            | Time and Time in the Time in t |             |                             |                        |  |  |  |  |  |  |
|------------|--|-------------|-----------------------------|------------------------|--|--|--|--|--|--|
| Sr.<br>No. | Name of the<br>Course  | Period      | Sponsored Authority         | No. of<br>Participants |  |  |  |  |  |  |
| 1.         | Technology for   | Sept. 9-16, | Govt. of India, Ministry of | 17                     |  |  |  |  |  |  |
|            | Achieving Higher   | 2009        | Agriculture, Department of  |                        |  |  |  |  |  |  |
|            | Productivity of  |             | Agriculture & Cooperation   |                        |  |  |  |  |  |  |
|            | Groundnut Crop   |             | Extension division          |                        |  |  |  |  |  |  |
| 2.         | Bio-control an Eco-  | Jan. 18-25, |                             | 22                     |  |  |  |  |  |  |
|            | friendly Method of   | 2010        |                             |                        |  |  |  |  |  |  |
|            | Plant Protection   |             |                             |                        |  |  |  |  |  |  |
|            | Total  |             |                             |                        |  |  |  |  |  |  |

#### **State Level Training**

| Sr.<br>No. | Name of the<br>Course  | Period                      | Sponsored Authority   | No. of<br>Participants |
|------------|--|-----------------------------|---|------------------------|
| 1,         | Horticulture Extension<br>Management<br>Horticulture Extension | Oct. 27-31,<br><b>200</b> 9 | National Institute of Agricultural Extention Management (MANAGE), | 35                     |
| 2,         | Management   | March 8-12,<br>2010         | Hyderabad   | 34                     |
|            |  |                             | Total   | 69                     |



#### (III) Training / Extension Education Programmes for Farmers / Farm Women

#### (A) Training Programmes

Training is essential to increase the efficiency of farmers, farm women, rural youths *etc.* On-campus as well as off-campus training programmes were organized based

on the need and interest of the farming community.

Through the Transfer of Technology (TOT) Centres, 180 on-campus and 267 off-campus training programmes were organized, wherein 17397 participants received training. The details are depicted in Table 5.1.

Table 5.1: Training programmes organized by the Transfer of Technology Centres for farmers/farmwomen during the year 2009-10

|                 |                |       | No. of       |              | No. of Par   | ticipants      |             |               |
|-----------------|----------------|-------|--------------|--------------|--------------|----------------|-------------|---------------|
| Sr. No.         | TOT<br>Centre  |       | Trg<br>Prog. | Male         | Female       | Rural<br>Youth | Other       | Total         |
| (I)             | KVK,           | A     | 32           | 495          | <b>1</b> 55  | 86             | 43          | 779           |
|                 | Jamnagar       | В     | 48           | 833          | 3 <b>4</b> 6 | 153            | 77          | 1409          |
| (ii)            | KVK,           | Α     | 38           | 555          | 378          | 105            | 13          | 1051          |
|                 | Targhadia      | В     | 39           | 823          | 307          | 116            | 29          | 1275          |
| (iii)           | KVK,           | Α     | 39           | <b>1</b> 049 | <b>1</b> 63  | -              | -           | 1212          |
|                 | Amreli         | В     | 72           | 6287         | 687          | -              | 190         | 7164          |
| (iv)            | KVK,           | Α     | 38           | 708          | 177          | 50             | 76          | 1011          |
|                 | Khapat         | В     | 53           | <b>111</b> 3 | 361          | 30             | -           | 1504          |
| (v)             | KVK,           | Α     | 33           | 390          | 195          | 110            | -           | 695           |
|                 | Nana Kandhasar | В     | 55           | 1022         | <b>1</b> 87  | 88             | -           | 1 <b>2</b> 97 |
|                 | Total          | Α     | 180          | 3197         | 1068         | 351            | 132         | <b>474</b> 8  |
|                 |                | В     | 267          | 10078        | 1888         | 387            | <b>2</b> 96 | 12649         |
| Grand Total 447 |                | 13275 | 2956         | 738          | 428          | 17397          |             |               |
| A= O            | n-campus B=C   | ff-c  | tampus       |              |              |                |             |               |

#### (B) Extension Activities

The TOT centres also planned and organized extension activities like seminar /workshop/symposium, field/farmer's day, agriculture fair/exhibition, film/slide/video show, field visit, cattle camp, farmers' group /demonstration meeting etc. by which total

33230 beneficiaries benefited. The details of the extension activities organized and number of participants are given in Table 5.2,

KVKs play an important role to provide an opportunity for income generation to the farmers by imparting skill oriented trainings. Besides, the KVKs conduct variety of extension activities, on farm testing etc.



The KVKs are also collecting feedback on farmers' problems, which are sent to the concerned scientists as these feedbacks provide guideline in reforming further research.

#### (C) **Frontline Demonstrations**

The frontline demonstration aims to demonstrate the production potentialities of newly released and pre-released production technologies of crops on farmer's fields.

Table 5.2: Extension activities carried out by TOT centres during 2009-10

|            | NI Č                 |          |           | KVK    |            |                   |            |
|------------|----------------------|----------|-----------|--------|------------|-------------------|------------|
| Sr.<br>No. | Name of<br>Activity  | Jamnagar | Targhadia | Amreli | Khapat     | Nana<br>Kandhesar | Total      |
| 1)         | Farmers'/            | 19       | 7         | 1      | <b>1</b> 1 | 4                 | 42         |
|            | Field Day            | (648)    | (317)     | (10)   | (250)      | (1048)            | (2273)     |
| 2)         | Agril. Fair/         | 5        | 1         | -      | 5          | -                 | 1 <b>1</b> |
|            | Exhibition           | (2400)   | -         | -      | (836)      | -                 | (3236)     |
| 3)         | Khedut Shibir/       | 38       | 30        | -      | 9          | 10                | 87         |
|            | Group Discussion     | (1276)   | (2068)    | -      | (239)      | (271)             | (3854)     |
| 4)         | Agril. Tour/         | -        | 21        | 186    | 307        | 18                | 532        |
|            | Field Visit          | -        | (186)     | (226)  | (307)      | (84)              | (803)      |
| 5)         | Seminar/Workshop/    | 15       | 3         | 6      | 14         | 9                 | 47         |
|            | Kisan Goshti         | (1835)   | (350)     | (125)  | (213)      | (153)             | (2676)     |
| 6)         | Cattle camp          | -        | 8         | -      | -          | -                 | 8          |
|            |                      | -        | (443)     | -      | -          | -                 | (443)      |
| 7)         | Film/Slide/Video     | -        | 20        | -      | 5          | 1                 | 26         |
|            | Show/ Radio          | -        | (806)     | -      | (108)      | (37)              | (915)      |
|            | Talk / TV Prog. etc. |          |           |        |            |                   |            |
| 8)         | Guidance through     | -        | -         | -      | -          | -                 | -          |
|            | Letters/Personal     | (2347)   | (98)      | (80)   | (520)      | (92)              | (3128)     |
|            | Contact              |          |           |        |            |                   |            |
| 9)         | Publication and      | 13       | -         | 1      | 11         | -                 | 25         |
|            | Distribution of      | (8848)   | -         | (200)  | (2515)     | -                 | (11563)    |
|            | Farm Literature      |          |           |        |            |                   |            |
| 10)        | Press Notes          | -        | -         | -      | -          | -                 | -          |
|            | Released             | (5)      | (14)      | (3)    | (2)        | -                 | (24)       |



| Sr.         | Name of         |          |           | KVK        |              |           |              |
|-------------|-----------------|----------|-----------|------------|--------------|-----------|--------------|
| No.         | Activity        | Jamnagar | Targhadia | Amreli     | Khapat       | Nana      | Total        |
|             | 1 Killvity      |          |           |            |              | Kandhesar |              |
| 11)         | Demonstrations  | -        | 16        | -          | 4            | -         | 20           |
|             |                 | -        | -         | -          | <b>(111)</b> | -         | <b>(111)</b> |
| 1 <b>2)</b> | Krushi-Go-Vidya | -        | -         | -          | -            | -         | -            |
|             | Subscriber      | -        | -         | -          | (23)         | -         | (23)         |
|             | Registered      | -        |           |            |              |           |              |
| 13)         | Escorting the   | 33       | 1028      | <b>2</b> 8 | 821          | 29        | 1939         |
|             | Visitors        | (33)     | (2567)    | (28)       | (821)        | (539)     | (3988)       |
| 14)         | On farmer Trial | -        | 21        | 6          | -            | -         | 27           |
|             |                 | -        | (186)     | (6)        | -            | -         | (192)        |
|             | Total           |          |           |            |              |           | 2764         |
|             |                 |          |           |            |              |           | (33230)      |

Figures in parentheses indicate no. of beneficiaries/copies

In all, 636 FLDs were conducted on various crops *viz.*, castor, mustard, groundnut, sesamum, cotton, gram, wheat, pearl millet

and cumin in 300.7 ha during *kharif* and *rabi* seasons through KVKs. The results are appended in Table 5.3.

Table 5.3: Performance of frontline demonstrations organized during 2009-10

| Tab | Table 3.3. Terrormance of frontime demonstrations organized during 2003-10 |            |            |        |       |         |              |              |  |
|-----|--|------------|------------|--------|-------|---------|--------------|--------------|--|
| Sr. | Center   | Crop       | Variety/   | No. of | Area  | Av. yie | eld (g/ha)   | Increase     |  |
| No. |  | P          | Treatment  | FLDs   | (ha)  | Demo.   | Local check  | in yield (%) |  |
| 1)  | KVK,   | Kharif     |            |        |       |         |              |              |  |
|     | Targhadia  | Groundnut  | TG-38      | 20     | 8.00  | 3,80    | 3.70         | 2.70         |  |
|     |  | Groundnut  | GG-10      | 10     | 4.00  | 2.84    | 270          | 5.19         |  |
|     |  | Green gram | GM-4       | 10     | 4.00  | 4.88    | <b>4.</b> 50 | 8.44         |  |
|     |  | Black gram | GU-1       | 10     | 4.00  | 4.20    | <b>4</b> .00 | 5.00         |  |
|     |  | Sesamum    | GT-2       | 5      | 2.00  | 3.50    | 3.05         | 14.75        |  |
|     |  | Cotton     | Bt. Cotton | 75     | 23.00 | 27.6    | 25.30        | 9.09         |  |
|     |  | Groundnut  | GC-20      | 12     | 4.80  | 3.70    | 3.50         | <b>5</b> .71 |  |
|     |  | Rabi       |            |        |       |         |              |              |  |
|     |  | Gram       | GC-1       | 12     | 4.80  | 20.10   | 16.80        | 19.64        |  |



| Sr. | Cantan   | Cuan       | Variety/     | No. of     | Area  | Av. yie       | eld (g/ha)   | Increase       |
|-----|----------|------------|--------------|------------|-------|---------------|--------------|----------------|
| No. | Center   | Crop       | Treatment    | FLDs       | (ha)  | Demo.         | Local check  | in yield(%)    |
|     |          | Kharif     |              |            |       |               |              |                |
|     |          | Cumin      | GC-4         | 12         | 4.80  | 7.00          | 6.30         | 11.11          |
|     |          | Wheat      | GW-366       | 12         | 4.80  | 46.3          | 40.50        | 14.32          |
| 2)  | KVK,     | Kharif     |              |            |       |               |              |                |
|     | Jamnagar | Groundnut  | GG-5         | 20         | 10.00 | <b>1</b> 5.00 | 12.5         | 20.00          |
|     |          | Cotton     | Bt. Cotton   | 10         | 5.00  | 20.62         | 18.75        | 9.97           |
|     |          | Castor     | GCH-4        | 10         | 5.00  | 38,75         | 35.20        | 10.09          |
|     |          | Groundnut  | GG-20        | <b>1</b> 0 | 5.00  | 14.37         | 13.12        | 9.53           |
|     |          | Greengram  | GG-4         | <b>1</b> 0 | 5.00  | 7.18          | 6.50         | 10. <b>4</b> 6 |
|     |          | Rabi       |              |            |       |               |              |                |
|     |          | Chickpea   | GM-3         | 10         | 5.00  | 16.87         | 15.00        | 12.47          |
| 3)  | KVK,     | Kharif     |              |            |       |               |              |                |
|     | Amreli   | Groundnut  | Pesticides   | 5          | 5.00  | 6.12          | 5.72         | 6.99           |
|     |          | Sesame     | Fertilizer   | 5          | 5.00  | 4.50          | 4.32         | 4.17           |
|     |          | Cotton     | NPV          | <b>1</b> 0 | 5.00  | <b>1</b> 1.25 | 10.12        | 11.17          |
|     |          | Cotton     | IPM          | 50         | 20.00 | 12,20         | 10.50        | 16.19          |
|     |          | Groundnut  | Trichoderma  | 5          | 5.00  | 6.21          | 5.78         | 7.44           |
|     |          | Bajra      | GHB-588      | 4          | 2.00  | 21.26         | 18.83        | 12.90          |
|     |          | Rabi       |              |            |       |               |              |                |
|     |          | Wheat      | GW-496       | <b>1</b> 0 | 10.00 | 44.72         | 39.20        | 14.08          |
|     |          | Cumin      | GC-4         | 5          | 5.00  | 4.92          | <b>4.</b> 45 | 10.56          |
|     |          | Gram       | GG-3         | 5          | 10.00 | 23.55         | 21.50        | 9.53           |
| 4)  | KVK,     | Kharif     |              |            |       |               |              |                |
|     | Khapat   | Groundnut  | GG-20        | 20         | 10.00 | <b>1</b> 4.81 | 13.25        | 11.17          |
|     |          | Pigeon pea | BDN-2        | <b>1</b> 0 | 5.00  | 16.50         | 14.86        | 11,04          |
|     |          | Cotton     | Bt. Cotton   | 25         | 10.00 | 27.35         | 23.91        | 14.39          |
|     |          | Cotton     | Deshi Cotton | 25         | 10.00 | 11.1          | 9.91         | 12.92          |
|     |          |            |              |            |       |               |              |                |



| Sr. | Center    | Crop       | Variety/        | No. of | Area   | Av. yie      | ld (q/ha)              | Increase     |
|-----|-----------|------------|-----------------|--------|--------|--------------|------------------------|--------------|
| No. | Center    | Стор       | Treatment       | FLDs   | (ha)   | Demo.        | Local check            | in yield (%) |
|     |           | Rabi       |                 |        |        |              |                        |              |
|     |           | Wheat      | GW-366          | 10     | 5.00   | 37.44        | 30.30                  | 23.56        |
|     |           | Gram       | GG-3            | 15     | 7.50   | 12.25        | 15.32                  | -20.04       |
|     |           | Cumin      | GC-4            | 10     | 5.00   | 9.09         | 7.45                   | 22.07        |
| 5)  | KVK,      | Kharif     |                 |        |        |              |                        |              |
|     | Nana      | Groundnut  | GG-20           | 20     | 10.00  | 13.45        | 11.50                  | 16.96        |
|     | Kandhasar | Sesam      | GT-2            | 10     | 5.00   | 6.40         | 5,60                   | 14.29        |
|     |           | Green gram | GG-4            | 10     | 5.00   | 8.70         | 7.40                   | 17.57        |
|     |           | Moth bean  | GM-2            | 10     | 5.00   | <b>7.</b> 90 | 6.60                   | 19.70        |
|     |           | Cotton     | Bt              | 50     | 20.00  | 23.78        | 20.14                  | 18.07        |
|     |           | Bio-agent  | Trichoderma     | 4      | 2.00   | 14.63        | 12.80                  | 14.30        |
|     |           | Rabi       |                 |        |        |              |                        |              |
|     |           | Mustard    | GM-3            | 20     | 10.00  | 21.25        | 18.40                  | 15.49        |
|     |           | Gram       | Gram-3          | 20     | 10.00  | 19.4         | <b>1</b> 6. <b>7</b> 5 | 15.82        |
|     |           | Cumin      | GC-4            | 10     | 5.00   | 7.80         | 6.55                   | 19.08        |
|     |           | Wheat      | GW <b>-</b> 366 | 20     | 10.00  | 39.70        | 35,10                  | 13,11        |
|     |           |            | Total           | 636    | 300.70 |              |                        |              |

#### **(D)** Farm Advisory Service Scheme/SSK, Junagadh

The Farm Advisory Service Scheme has been continued at SSK, Junagadh with a view to provide guidance and the latest information to the farmers on scientific farming. The farmers were advised regarding their farm

problems through correspondence and field visit. This centre acted as a link among research scientists, extension workers and farmers. During the year under report, various extension activities carried out by the centre are given below.



| Sr.<br>No. | Name of activity                                | No. of activities | No. of<br>Participants |
|------------|---|-------------------|------------------------|
| 1.         | Agril, Fair                                     | 6                 | 3155500                |
| 2.         | Agril. Exhibitions (participation)              | 18                | 1 <b>9921</b>          |
| 3.         | Khedut/Mahila Shibir/Group Meeting/Crop Seminar | 50                | 44025                  |
| 4.         | Spot Guidance/Guidance through Letters          | 288               | -                      |
| 5.         | Agril. Literature Exhibition                    | <b>4</b> 2        | 20650                  |
|            | Total   | 404               | 3240096                |

### (E) Extension Activities under Centre of Communication (COC) Scheme Objectives of COC Scheme

- a. To establish the *Gram Kisan Samities* (GKS) in the rural areas.
- b. To train the members of *Gram Kisan Samitics* in leadership communication and cooperation for transfer of technologies.
- c. To disseminate the latest agricultural and allied technologies through *Gram Kisan Samities* in rural areas.
- d. To carry out extension activities through GKS in different villages.
- e. To know the feedbacks from the farmers.

### Formulation of Gram Kisan Samities during the year 2009-10

| Formulation of Gram Kisan Samities during the year 2009-10 |               |                |            |  |
|--|---------------|----------------|------------|--|
| Sr. No.  | District      | Taluka         | No. of GKS |  |
| 1  | Rajkot        | Gondal         | 7          |  |
| 2  | Rajkot -      | Jasdan         | 4          |  |
| 3  | Rajkot        | Jetpu <b>r</b> | 2          |  |
| 4  | Rajkot        | Kotda Sangani  | 1          |  |
| 5  | Rajkot        | Jam Kandorana  | 4          |  |
| 6  | Rajkot        | Dhoraji        | 1          |  |
| 7  | Amreli        | Kunkavav       | 5          |  |
| 8  | Amreli        | Bagasara       | 3          |  |
| 9  | Amreli        | Dhari          | 2          |  |
| 10   | Amreli        | Lathi          | 2          |  |
| 11   | Amreli        | Amreli         | 7          |  |
| 12   | Amreli        | Babara         | 2          |  |
| 13   | Junagadh      | Bhesan         | 2          |  |
| 14   | Junagadh      | Kodinar        | 1          |  |
| <b>1</b> 5   | Porbandar     | Porbandar      | 1          |  |
| 16   | Bhavnagar     | Gariyadhar     | 4          |  |
| 17   | Surendranagar | Halvad         | 2          |  |
| <b>1</b> 8   | Jamnagar      | Kalavad        | 1          |  |
|  |               | Total          | 51         |  |



### Khedut Shibirs organized during the year 2009-10 under COC scheme

| Sr. No. | Name of the Taluka     | No. of<br>Shibirs | No. of<br>Participants | Subject<br>covered     |
|---------|------------------------|-------------------|------------------------|------------------------|
| 1       | Gondal (Rajkot)        | 6                 | 870                    | Agriculture,           |
| 2       | Jasdan (Rajkot)        | 3                 | <b>2</b> 30            | horticulture,          |
| 3       | Jetpur (Rajkot)        | 1                 | 69                     | animal                 |
| 4       | Jam Kandorana (Rajkot) | 3                 | 255                    | husbandry              |
| 5       | Dhoraji (Rajkot)       | 1                 | 90                     | and<br>efficient       |
| 6       | Kunkavav (Amreli)      | 4                 | 280                    | use of                 |
| 7       | Bagasara (Amreli)      | 2                 | <b>2</b> 10            | water                  |
| 8       | Amreli (Amreli)        | 3                 | 2260                   | through                |
| 9       | Savar Kundla (Amreli)  | 1                 | 90                     | adoption               |
| 10      | Junagadh (Junagadh)    | 2                 | 310                    | of drip,               |
| 11      | Bhesan (Junagadh)      | 2                 | 285                    | sprinkle <b>r</b>      |
| 12      | Talala (Junagadh)      | 1                 | 90                     | or micro               |
| 13      | Kodinar (Junagadh)     | 1                 | 145                    | irrigation<br>systems. |
| 14      | Una (Junagadh)         | 1                 | 101                    | systems.               |
| 15      | Gariyadhar (Bhavnagar) | 5                 | <b>35</b> 4            |                        |
|         | Total                  | 36                | 5639                   |                        |

#### Bakery Trainings organized during the year 2009-10 under COC scheme

| Sr. No. | Name of the Taluka    | No. of<br>Shibirs | No. of<br>Participants | Subject<br>covered |
|---------|-----------------------|-------------------|------------------------|--------------------|
| 1       | Gondal (Rajkot)       | 1                 | 80                     | Making             |
| 2       | Dhoraji (Rajkot)      | 1                 | <b>3</b> 5             | bakery items       |
| 3       | Junagadh (Junagadh)   | 1                 | 60                     | at home.           |
| 4       | Talala (Junagadh)     | 1                 | 60                     |                    |
| 5       | Una (Junagadh)        | 1                 | 35                     |                    |
| 6       | Kodinar (Junagadh)    | 1                 | <b>4</b> 8             |                    |
| 7       | Kunkayay (Amreli)     | 1                 | 60                     |                    |
| 8       | Savar Kundla (Amreli) | 1                 | 75                     |                    |
|         | Total                 | 8                 | 453                    |                    |



(F) Extension Activities carried out by Extension Education Centres

Extension activities carried out by

various Extension Education Centres during the year are as under:

| Sr.<br>No. | Name of Activity            | LITC,<br>Junagadh   | School of<br>Baking<br>Junagadh | Fisheries<br>res. Station,<br>Okha | Total   |
|------------|-----------------------------|---------------------|---------------------------------|------------------------------------|---------|
| 1          | Diagnostic and Treatment    | (4646)              | -                               | -                                  | (4646)  |
|            | Services through Mobile     |                     |                                 |                                    |         |
|            | Ambulatory Clinic           |                     |                                 |                                    |         |
| 2          | Farmers/Animal Owners Visit | -                   | -                               | -                                  | 19      |
| 3          | Farmers' Meeting/           | 19                  | -                               |                                    | (1500)  |
|            | Shibirs/Seminar, etc.       | (1500)              | -                               | -                                  | -       |
| 4          | Guidance on Farm            |                     |                                 |                                    |         |
| 5          | Guidance through Letters    | (267)               | -                               | (83)                               | (350)   |
| 6          | Literature Published        | 18                  | -                               | -                                  | 18      |
| 7          | Literature Distribution     | (4592)              | u u                             | (67)                               | (4659)  |
| 8          | On Campus Training:         |                     |                                 |                                    |         |
| a          | B.V.Sc. Internship          | 1(53)               | -                               | -                                  | 1(53)   |
| b          | BRS Internship (1 month)    | 6                   | -                               | -                                  | 6       |
|            |                             | (19)                | -                               | -                                  | (19)    |
| c          | LITC-II Representatives     | <b>1</b> 0          | n                               | ~                                  | 10      |
|            |                             | (98)                | -                               | -                                  | (98)    |
| 9          | One Day Camp                |                     | 9                               | -                                  | 9       |
|            |                             |                     | (431)                           | -                                  | (431)   |
| 10         | TV Programmes               | 15                  | -                               | -                                  | 15      |
| 11         | Radio Talk                  | 1                   | -                               | 1                                  | 2       |
| 12         | Guidance to Visitors        | 20                  | 49                              | 28                                 | 97      |
|            |                             | (1266)<br><b>90</b> | (2207)                          |                                    | (3473)  |
|            | Total                       |                     | 58                              | 29                                 | 177     |
|            |                             | (12441)             | (2638)                          | (150)                              | (15229) |

Figures in parentheses indicate no. of beneficiaries.

#### 5.5 Radio Talks and TV Programmes

The scientists of the University delivered radio talks from time to time on various agricultural and allied subjects from All India Radio, Rajkot. Moreover, the agricultural messages were also broadcasted

from All India Radio, Rajkot. During the year under report, nearly six such talks were delivered on different topics related to agriculture, horticulture, agricultural engineering, fisheries, animal husbandry, etc.



In all, 15 television programmes covering various aspects of agriculture, animal husbandry, agricultural engineering, horticulture, fisheries, home science, etc. were telecasted through *Doordarshan Kendra*, Rajkot in "Gram Jagat" programme for the benefit of farming community.

### 5.6 Publication of Extension Education Literature

During the year report, total 30 publications (24 folders and 6 books) were published by following departments.

| Sx. | Name of Office   | Type of Publication |       | Total |
|-----|--|---------------------|-------|-------|
| No. | Name of Office   | Folder              | Books | Total |
| 1   | Directorate of Ext. Edu., JAU,<br>Junagadh                             | 10                  | -     | 10    |
| 2   | Surdar Smruti Kendra, JAU,<br>Junagadh                                 | 2                   | 2     | 4     |
| 3   | Cattle Breeding Farm JAU,<br>Junagadh                                  | 1                   | -     | 1     |
| 4   | Vegetable Research Station,<br>JAU, Junagadh                           | 3                   | -     | 3     |
| ŏ   | Krishi Vigyan Kendra, JAU,<br>Targhadia                                | 7                   | -     | 7     |
| 6   | Farm Power and Machinery Dept., College of Agril. Engg., JAU, Junagadh | 1                   | 2     | 3     |
| 7   | Krishi Vigyan Kendra, JAU,<br>Khapat                                   | -                   | 1     | 1     |
| 8   | Cotton Research Station, JAU,<br>Junagadh                              | ~                   | 1     | 1     |
|     | Total  | 24                  | 6     | 30    |

University News Bulletin named as "JAU News Letter" is being published regularly by Directorate of Extension Education.

#### 5.7 Agriculture Fair / Exhibition

During the year under report, 11 agricultural literature exhibitions were availed for farmers and extension workers. Total 3236 farmers and farm women

participated in agricultural literature exhibition.

## 5.8 Coordination of Extension Activities with Department of Agriculture, Horticulture, Animal Husbandry and Other Line Departments

Junagadh Agricultural University planned and organized various extension



education programmes/activities in coordination with different line departments of the state. The structural linkages exist under T & V system by constituting the technical committee at district, zonal and state level. The agricultural programmes of All India Radio as well as Doordarshan were finalized by such coordinated efforts. In ZREAC and AGRESCO, the officers of other departments are the members and they contribute in formulation of technical programmes as well as in finalizing the recommendations for the farmers. The functional linkages also exist under T & V system through bi-monthly workshops, pre-seasonal workshops, fortnightly training, diagnostic team, state level crop seminars/workshops, etc. The coordination exists in follow-up programmes as well as in planning of farm trials. For transfer of technologies to the farmers, the

farmer's day, krushi mela, group discussion, film show, etc. were organized through collaborative efforts.

#### 5.9 Orientation Training Programme

During the year under report, 20 scientists/teachers of the University were deputed for orientation training outside the Gujarat state to upgrade knowledge and skill for improving their faculty competence in respective disciplines.

#### Krushi Mahotsav-2009

Government of Gujarat celebrating Krushi Mahotsao since 2005-06. In the Krushi Mahotsav-2009, Junagadh Agricultural University spared services of about 700 scientists/technical staff to advise the farming community about the latest agricultural recommendations. Krushi Mahotsav-2009 was celebrated in different ways like Shibir, Parisanvad and Mega Agricultural fair.

Shibir, Parisanvad, Group Discussion

| Sr.<br>No. | Contain          | No. of Shibirs/Parisanvad | No. of Beneficiaries |
|------------|------------------|---------------------------|----------------------|
| 1          | Shibir           | 73                        | 52226                |
| 2          | Parisanvad       | 11                        | 3842                 |
| 3          | Mega Agril. Fair | 1 (Three days)            | 184098               |













