

During the year 2009-10, the variety "Sushil Laxmi" was tested again for DUS (Distinctness, Uniformity and Stability) testing at Indian Institute of Pulses Research, Kanpur and Mahatma Phule Krishi Vishwavidyalaya, Rahuri as per the directives and guidelines of PPV&FRA. This variety was grown with other reference varieties of chickpea (BGD 75, BG 256, ICCV 37, Avrodhi, K 850, Vishal, Vaibhal and RSG 807). All the reference varieties performed well but plan population of "Sushil Laxmi" was not as per specification of DUS test because of mortality of plants due to wilt and other root diseases under field condition. It was susceptible to wilt and other root diseases and inferior in yield in comparison to other popular varieties of chickpea.

### **Dwindling population of goats and sheep**

2202. SHRI MANSUKH L. MANDAVIYA: Will the Minister of AGRICULTURE be pleased to state:

- (a) the names of States where goat and sheep population is recorded as dwindling during last two animal censuses;
- (b) the steps taken by Government to stop the export of goat and sheep meat;
- (c) whether Government has considered the revised export meat policy in reference to the said census results; and
- (d) if so, the details thereof?

THE MINISTER OF STATE IN THE MINISTRY OF AGRICULTURE (SHRI CHARAN DAS MAHANT): (a) The last two animal censuses are 17th Livestock Census of 2003 and 18th Livestock Census of 2007. The names of the States where goat and sheep population has declined during the intercensal period *i.e.* 2003 to 2007 are as under:

| States |  |
|--------|--|
| Goat   | Goa, Maharashtra, Mizoram, Sikkim, West Bengal, Chandigarh and Daman and Diu   |
| Sheep  | Bihar, Gujarat, Haryana, Himachal Pradesh, Jharkhand, Kerala, Madhya Pradesh, Maharashtra, Mizoram, Nagaland, Punjab, Sikkim, Uttar Pradesh and Uttarakhand. |

However, during the same period the total number of goats at all India level has increased from 124358 thousand to 140537 thousand and that of sheep from 61469 thousand to 71558 thousand.

(b) to (d) As, per the current Foreign Trade Policy, the export of meat of sheep and goat is free. There is no proposal under consideration to amend the Policy.

### **Funds for development of agriculture**

2203. SHRI Y.S. CHOWDARY: Will the Minister of AGRICULTURE be pleased to state:

- (a) the details of funds earmarked for incentives/research for development of agriculture during the last three years;
- (b) the details of funds allocated during the last three years, State-wise;
- (c) the details of results achieved so far; and
- (d) whether Government is satisfied with the results achieved till date?

THE MINISTER OF STATE IN THE MINISTRY OF AGRICULTURE (SHRI HARISH RAWAT): (a) and (b) DARE/ICAR does not allocate funds State-wise. However the details of Plan and Non-Plan funds earmarked and allocated during last three years viz. 2009-10, 2010-11 and 2011-12 are given in Statement (*See* below).

(c) Some of the major research accomplishments in the recent years have been decoding of pigeon pea and tomato genomes; Buffalo cloning and breeding of marine fish species; GIS based soil fertility mapping for macro, secondary and micronutrients at district level; Liquid biofertilizer formulation; Resource conservation technologies of zero-tillage, raised bed planting and laser land leveling; formulation of protocols for nutrient based subsidy; Farming systems modules for small farmers in drylands and intercropping models; Resilient varieties of rice, wheat, maize, pulses, oilseeds, sugarcane, jute, fruits and vegetables for abiotic stresses such as temperature, salinity, drought and submergence and pests and diseases; Integrated Nutrient Management, Integrated Farming and Integrated Pest Management strategies; Diagnostics and vaccines for a number of plant and animal diseases; design and fabrication of farm implements such as laser land leveler, self-propelled sprayers, precision seeders and planters, transplanters for rice and vegetable seedlings, multi-crop threshers, harvesters for cereals and sugarcane, bullock drawn manure spreader to uniformly spread manure in fields, pedal-operated sugarcane bud chipping equipment, groundnut-cum-castor decorticators, maize sheller and related equipment.

(d) Yes, Sir. The research institutes under ICAR have regular interactions with different research and development agencies, through the Regional Committees, eight of them across the country on a biennial basis, where the Research Institutes, State Agricultural Universities, State Departments, banks and other related agencies. There are specific farmer and industry interactions organized at the institute level across the country. Similar meets are held with the CGIAR institutes, other S&T Departments of Government of India for inter-departmental collaboration, as also meets of Innovative Farmers. These enable dissemination of technologies and also provide feedbacks for research prioritization.

The adoption of technologies by farmers in the country has resulted in manifold increase in the farm productivity and production. While the annual food grain production has increased from 50 mmt in 1950-51 to about 257 mmt presently from the stagnant cultivable area of 140 mha  $\pm$  2 mha, the horticultural production has increased to 240 mmt over the same period. While the present milk production of over 127 mmt has resulted in *per capita* availability of milk of 283 grams/day, the annual egg and fish production are of the order of 65 billion and 8.3 mmt respectively.

*Statement*

*Department of Agricultural Research and Education/Indian Council of Agricultural Research*

**A. Plan Funds earmarked and allocated during the years 2009-10, 2010-11 and 2011-12**

(Rs. in Lakh)

| Name of the Scheme                   | 2009-10 | 2009-10 | 2010-11 | 2010-11 | 2011-12 | 2011-12 |
|--------------------------------------|---------|---------|---------|---------|---------|---------|
|                                      | BE      | RE      | BE      | RE      | BE      | RE      |
| 1                                    | 2       | 3       | 4       | 5       | 6       | 7       |
| Crop Science                         | 304.00  | 304.00  | 359.00  | 366.00  | 392.77  | 392.77  |
| Horticulture                         | 90.00   | 98.00   | 121.00  | 124.00  | 184.20  | 191.20  |
| Natural Resource Management          | 102.00  | 102.00  | 120.03  | 123.03  | 200.10  | 234.09  |
| Agricultural Engineering             | 43.00   | 43.00   | 52.00   | 52.63   | 67.40   | 69.40   |
| Animal Science                       | 92.00   | 92.00   | 108.00  | 112.68  | 201.53  | 201.53  |
| Fisheries                            | 45.00   | 45.00   | 55.00   | 65.00   | 90.00   | 94.00   |
| Agri. Eco. and Statistics            | 4.00    | 3.00    | 3.00    | 3.00    | 3.00    | 3.00    |
| Agricultural Extension               | 307.00  | 328.00  | 400.00  | 636.76  | 432.00  | 537.64  |
| Agricultural Education               | 370.00  | 372.00  | 458.00  | 462.00  | 507.00  | 558.00  |
| Central Agricultural University+DARE | 91.00   | 70.50   | 91.00   | 80.65   | 109.00  | 101.01  |
| MIS (ICAR Hq. + IPTM)                | 30.00   | 17.00   | 16.00   | 17.90   | 187.00  | 121.33  |

|  | 1 | 2       | 3       | 4       | 5       | 6       | 7       |
|--|---|---------|---------|---------|---------|---------|---------|
| National Agricultural Innovative Project and GEF   |   | 257.00  | 277.23  | 293.97  | 270.00  | 176.00  | 176.00  |
| Indo US Knowledge Initiative/Agricultural Cooperation  |   | 5.00    | 4.00    | 0.80    | 0.00    | 0.00    |         |
| <b>National Fund for Basic and Strategic Research</b> (likely to be reorganised as National Agricultural Science Foundation in Twelfth Plan) |   | 20.00   | 4.27    | 22.00   | 8.11    | 30.00   | 38.00   |
| National Initiative on Climate Resilient in Agriculture (under NRM)  |   |         |         | 200.00  | 200.00  | 150.00  | 132.00  |
| <b>TOTAL:</b>  |   | 1760.00 | 1760.00 | 2299.80 | 2521.76 | 2730.00 | 2849.97 |
| <b>New Initiatives</b>   |   |         |         |         |         |         |         |
| National Institute for Biotic Stress Management  |   |         |         | 0.1     |         | 20      | 0.01    |
| Indian Institute of Agricultural Biotechnology   |   |         |         | 0.1     |         | 30      | 0.01    |
| CAU Bundelkhand  |   |         |         |         |         | 20      | 0.01    |
| <b>GRAND TOTAL:</b>  |   | 1760.00 | 1760.00 | 2300.00 | 2521.76 | 2800.00 | 2850.00 |
| Note: Rs. 2521.76 crore include RE Rs.2300 crore + KVK Arrear 221.30 crore + Reappropriation from Non-Plan to KVK Arrear 0.45 crore)         |   |         |         |         |         |         |         |
| MPKV   |   | 73.37   | 61.32   | 7.5     | 7.5     | 8.54    | 8.54    |

(b) Details of allocation of funds under Non-Plan in respect of Demand No. 2 - DARE for the last three years

(Rs. in lakhs)

| Sl. No.        | Name of the Scheme  | BE 2009-10 | RE 2009-10 | BE 2010-11 | RE 2010-11 | BE 2011-12 | RE 2011-12 |
|----------------|---|------------|------------|------------|------------|------------|------------|
| 1              | 2   | 3          | 4          | 5          | 6          | 7          | 8          |
| <b>DARE</b>    |   |            |            |            |            |            |            |
| 1.             | Secretariat - Economic Services   | 374.00     | 324.00     | 305.00     | 298.00     | 337.00     | 353.00     |
| 2.             | Contributions to Commonwealth Agricultural Bureau, CGIAR and Association of APARI | 432.00     | 417.00     | 437.00     | 430.00     | 447.00     | 429.00     |
| TOTAL DARE (A) |   | 806.00     | 741.00     | 742.00     | 728.00     | 784.00     | 782.00     |
| <b>ICAR</b>    |   |            |            |            |            |            |            |
| 1.             | AP Cess Fund  | 1000.00    | 245.00     | 300.00     | 150.00     | 100.00     | 100.00     |
| 2.             | Crop Science  | 35230.00   | 37226.00   | 36300.00   | 51947.00   | 56300.00   | 58916.00   |
| 3.             | Horticulture  | 15760.00   | 16180.00   | 16200.00   | 21103.00   | 23300.00   | 24065.00   |
| 4.             | Agricultural Extension  | 143.00     | 143.00     | 150.00     | 236.00     | 450.00     | 296.00     |
| 5.             | Agricultural Education  | 1180.00    | 1180.00    | 1200.00    | 110225.00  | 25500.00   | 19209.00   |

| 1                 | 2   | 3         | 4         | 5         | 6         | 7         | 8         |
|-------------------|---|-----------|-----------|-----------|-----------|-----------|-----------|
| 6.                | Agricultural Economics and Statistics Management                  | 1860.00   | 1860.00   | 1900.00   | 2941.00   | 3900.00   | 3146.00   |
| 7.                | Agricultural Engineering  | 4650.00   | 4650.00   | 4800.00   | 6754.00   | 8000.00   | 7230.00   |
| 8.                | ICAR Hqrs. Administration including ASRB, DIPA and IPR management | 33255.00  | 33255.00  | 34600.00  | 11062.00  | 12176.00  | 13503.00  |
| 9.                | Soil and Water conservation Research Institute                    | 2267.00   | 2267.00   | 2013.00   | 3100.00   | 3100.00   | 3125.00   |
| 10.               | Other Natural Resource Management Institutes                      | 16674.00  | 16674.00  | 17200.00  | 22005.00  | 22750.00  | 25739.00  |
| 11.               | Animal Science  | 24215.00  | 24215.00  | 25000.00  | 37018.00  | 38800.00  | 39007.00  |
| 12.               | Fisheries   | 11100.00  | 11500.00  | 11400.00  | 19231.00  | 20600.00  | 20642.00  |
| TOTAL ICAR (B)    |   | 147334.00 | 149395.00 | 151063.00 | 285772.00 | 214976.00 | 214978.00 |
| GRAND TOTAL (A+B) |   | 148140.00 | 150136.00 | 151805.00 | 286500.00 | 215760.00 | 215760.00 |