Innovations of Rajasthan for Sustainable Agriculture Development

Date: 07-08.03.2019

Venue: APHRDI, AP
Points of Discussion

• State Innovative Programmes
• Efficient Use of Water in Agriculture- Harvesting and Utilization
• Transfer of Agriculture Technology
• Agriculture Marketing and Processing
• Animal Husbandry and Dairying
• Credit Flow in Agriculture, Loan Waiver Scheme
RAJASTHAN

Agro-Climate

ARID
SEMI-ARID
HUMID
SUB-HUMID

61% 16% 15% 8%
Agro-climatic Zones

- IA
- IB
- IC
- IIA
- IIB
- IIIA
- IIIB
- IVA
- IVB
- V

Zonal office
Agriculture University
ATC (Adaptive Trial Centre)
Main Features

Largest state covering 10.5% of geographical area
5.5% population of the country
10% animal population of the country
Only 1% of water resources of the country
83% of available water used for irrigation
44% of cropped area net irrigated
73% net area irrigated through wells & tube-wells
25% Net irrigated through canals
10.6 Lac ha saline and sodic soils
Land Use Pattern
Total Land: 342.67 lakh ha. (2015-16)

(Area in Lakh ha)

- Net Cropped Area
- Forest
- Not Available for Cultivation
- Other Cultivable Land Excluding Fallow Land
- Cultivable Waste Land

Total Land: 342.67 lakh ha.

Net Cropped Area: 180,24
Forest: 35,63
Not Available for Cultivation: 38,95
Other Cultivable Land Excluding Fallow Land: 27,52
Cultivable Waste Land: 16,72
Cropping Pattern

Kharif Crops

- Cereals: 58.79 lakh ha
- Guar: 16.4 lakh ha
- Pulses: 45.1 lakh ha
- Oilseeds: 2.89 lakh ha
- Cotton: 2.89 lakh ha
- Sugarcane: 0.03 lakh ha
- Others: 4.2 lakh ha

Rabi Crops

- Cereals: 35.08 lakh ha
- Pulses: 14.54 lakh ha
- Oilseeds: 27.47 lakh ha
- Cotton: 16.67 lakh ha
- Others: 14.54 lakh ha
Major Share among Foodgrain Crops

Kharif Crops

- Bajra
- Jowar
- Maize
- Rice & Small Millets
- Cow Pea
- Urd
- Moth
- Moong
- Arhar

Lakh ha
- 41.54
- 9.23
- 12.39
- 2.78
- 0.15
- 6.26
- 10.29
- 0.08

Rabi Crops

- Wheat
- Barley
- Gram
- Rabi Pulses

Lakh ha
- 32.1
- 13.85
- 2.98
- 0.69
Production and Productivity of Crops

**Kharif Crops**

**Rabi Crops**
Horticulture coverage

Horticulture share in Agriculture (% of gross cropped area)

Crop wise area coverage (%)

- 56% Spices
- 10.4% Vegetables
- 3.4% Fruits
- 30% M & A
- 0.01% Flowers

Horticulture share in Agriculture (% of gross cropped area)

- Horticulture 7.5%
- Agriculture 92.5%
Production Trends
<table>
<thead>
<tr>
<th>Rank in India</th>
<th>CROP</th>
<th>% SHARE IN ALL INDIA PRODUCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>Bajra</td>
<td>43.78</td>
</tr>
<tr>
<td></td>
<td>Rape &amp; Mustard</td>
<td>47.93</td>
</tr>
<tr>
<td></td>
<td>Guar</td>
<td>83.61</td>
</tr>
<tr>
<td></td>
<td>Cores Cereals</td>
<td>15.57</td>
</tr>
<tr>
<td>Second</td>
<td>Total Oilseed</td>
<td>22.57</td>
</tr>
<tr>
<td></td>
<td>Total pulses</td>
<td>11.86</td>
</tr>
<tr>
<td></td>
<td>Groundnut</td>
<td>15.60</td>
</tr>
<tr>
<td>Third</td>
<td>Gram</td>
<td>11.20</td>
</tr>
<tr>
<td></td>
<td>Soybean</td>
<td>11.63</td>
</tr>
<tr>
<td>Fourth</td>
<td>Foodgrains</td>
<td>7.18</td>
</tr>
<tr>
<td>Fifth</td>
<td>Jowar</td>
<td>7.80</td>
</tr>
<tr>
<td></td>
<td>Wheat</td>
<td>10.56</td>
</tr>
</tbody>
</table>
We produce:

- 18.31% of Country’s Coriander
- 43.88% of Country’s Cumin
- 40.10% of its Fenugreek
- 35.36% of its Garlic
- 19.25% of its Fennel
- 36.10% of its Ajowain
- Almost all its Psyllium Husk (Isabgol)
- Almost all its Myrtle (Henna)
- 10.76% of its Mandarin
Awards/Recognition

- Krishi Karman Award for Wheat Production in 2014-15
- Krishi Karman Award for Pulses Production in 2016-17
- First State in the country that has undertaken e-trading with more than one state.
- First, Inter State trade has been undertaken between Sumerpur mandi and Palampur mandi, Gujarat.
- Followed by interstate e-trading between Nokha mandi, Bikaner and Akola mandi, Maharashtra and Ramganjmandi mandi and Mandsore mandi, M.P.
Innovative Programmes- Organic Farming

- For promotion of Organic Farming in the State, creation of 1150 Clusters (20 ha each) under Paramparagat Krishi Vikas Yojana (PKVY).
- During 2018-19, execution of PGS activities in newly created 5000 clusters.
- Establishment of Excellence Centre on Organic Farming at Jhalawar.
- State level awards of Rs. 1 lakh each to 3 farmers for Organic farming.
- State Level Policy on Organic Farming prepared.
- One block from each district from Udaipur, Pratapgarh, Banswara, Dungarpur, Bikaner, Nagaur, Churu, Jodhpur, Badmer, Jhalawar and Jaisalmer will be developed fully organic.
Innovative Programmes- & Custom Hiring Centres

• Promotion of Agriculture Implements for Small and Marginal Farmers

• MOU with tractor manufacturing companies TAFE, Mahindra and Mahindra, John Deere for establishment of 2652 Custom Hiring Centres in three years.

• Toll free call centre, mobile app for booking agriculture implements on hiring from Custom Hiring Centres.

• Administrative Sanction for establishment of 1058 Custom Hiring Centres issued.

• 150 Custom Hiring Centres are working
Innovative Programmes- Soil Health Card Scheme

- **Vision-** Swasth Dhara Khet Hara
- **Launched on 19\textsuperscript{th} February, 2015**
- **Period - At the interval of 2 years**

**Progress**

- **Second Phase (2017-2018)**
  - 26.34 lakh Soil Samples collected against target of 28.65 lakh Samples (92%)
  - 23.97 lakh Soil Samples analyzed (84%)
  - 64.30 lakh Soil Health Cards distributed against target of 76.19 lakh Soil Health Cards (84%)
Solar pump programme started in 2010-11 through Jawaharlal Nehru National Solar Mission and RKVY/State Fund.

- 37,249 Solar pumps installed and commissioned.
- Solar pumps are linked with Hi-tech Horticulture/Agriculture.
  - (a) Green houses
  - (b) Micro irrigation systems (Drip, Mini Sprinkler and Sprinkler)
  - (C) Diggi/Community farm ponds
• **Date-palm on Govt. farm:** State Agriculture Farm, Sagra Bhojka, Jaisalmer (98 Ha.) and State Mechnized Farm, Khara, Bikanaer (38 Ha.).

• **Identified districts:** Jaisalmer, Barmer, Bikaner, Jodhpur, Nagour, Churu, Sri Ganganagar, Hanumangarh, Pali, Jalore, Sirohi and Jhunjhunu.

• **Varieties:** Barhi, Khuneji, Khalas, medjool.

• **Area Expansion:** 927 ha. area and approximately 2500 to 2800 MT. production
Innovative Programme – Olive Plantation

- Plantation on Government Farms – 182 ha
- Plantation on farmers fields in north western Rajasthan - 550 ha
- Plantation of Olive Varieties – Arbequina, Barnea, Frantoio, Coratina, Picholine, and Picual
- Olive Oil Refinery established and Raj Olive brand released.
- Plants of Olive Tea established
### Innovative Programme - Establishment of Crop Specific Centres of Excellence

<table>
<thead>
<tr>
<th>S.No</th>
<th>Place</th>
<th>Crops</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Nanta, Kota</td>
<td>Citrus Fruits</td>
</tr>
<tr>
<td>2</td>
<td>Bassi, Jaipur</td>
<td>Pomegranate</td>
</tr>
<tr>
<td>3</td>
<td>Sagra Bhojka, Jaisalmer</td>
<td>Date palm</td>
</tr>
<tr>
<td>4</td>
<td>Khemri, Dholpur</td>
<td>Mango</td>
</tr>
<tr>
<td>5</td>
<td>Devrawas, Tonk</td>
<td>Guava</td>
</tr>
<tr>
<td>6</td>
<td>Jhalawar</td>
<td>Mandarin,</td>
</tr>
<tr>
<td>7</td>
<td>Bundi</td>
<td>Vegetables</td>
</tr>
<tr>
<td>8</td>
<td>Chittorgarh</td>
<td>Custard Apple</td>
</tr>
<tr>
<td>9</td>
<td>Sawai Madhopur</td>
<td>Flowers</td>
</tr>
<tr>
<td>10</td>
<td>Mavli, Udaipur</td>
<td>Medicinal Plants</td>
</tr>
</tbody>
</table>

Out of these sanctioned 10 Centers of Excellences, 6 Centers have been established. Three are under establishment and one is yet to start.
Innovative Programme & Protected Cultivation

- From 2014-15 to till now, 32.74 lakh Sq.M. area of Green House, 3.05 lakh Sq.M. area of Shade net, 255.10 lakh Sq.M. area of Plastic tunnel have been established and 16149 Ha, area covered under plastic mulching.

- State is also providing 20% additional subsidy on Green House and Shade net so that Small/marginal/SC/ST farmers could get subsidy up to 70%.
Innovative Programmes

• Physical verification of MI systems through Geo-Tagging.
• Complete information of system installed at farmer's field may be obtained online through GOI portal "Bhuvan".
• To ensure good quality supply of MI systems to farmers.
• Samples of different components of MI systems are drawn from Farmer's field, Manufacturer's & Dealer's end.
• The samples are tested at Central Institute of Plastics & Engineering Technology Jaipur, (a unit of Deptt. of chemicals & Petrochemicals under the ministry of Chemicals & Fertilizers, GOI)
Water Management

- **Farm pond**: Minimum Size- 600 CUM; Subsidy- Total 60% (50% normal+ 10% top-up) or maximum Rs. 63,000/- on kacha farm pond and Rs. 90,000 for plastic line farm pond.

- This scheme was started in the year 2001-02. So far 45469 farm pond have been constructed.

- **Diggi**: Subsidy- Total 75% (50% normal+ 25% top-up) or maximum Rs. 3.00 lakh per Diggi whichever is less.

- This scheme was started in the year 2001-02. So far 38716 Diggies have been constructed.
Water Management

- **Jal Hauz:** Subsidy- total 60% (50% normal+ 10% top-up) or maximum Rs. 90000/-.  
  This scheme was started in the year 2001-02. So far 11333 water storage tanks have been constructed.

- **Pipeline programme:** Subsidy at the rate of 50% of the unit cost or Rs. 50 per meter for HDPE, Rs. 35 per meter for PVC, Rs. 20 per meter for HDPE woven laminated lay flat tube pipe or maximum Rs. 15000/- whichever is less.  
  This scheme was started in the year 1990-91. Since the inception of the scheme, subsidy has been provided on 131835 km.
• Sprinkler Irrigation system is popular in North-Western part of State in sandy soils and undulated topography.
• Annually 30-35 thousand Ha. new area is brought under sprinkler irrigation

• Drip Irrigation system is being adopted in orchards and vegetable crops with an average new area of 15-20 thousand ha annually

• So far an area of about 13.62 Lac hectares has been covered under Micro Irrigation including 2.16 Lac hectares under drip and 11.45 Lac hectares under sprinkler.

• PMKSY provides an assistance of 55% and 45% respectively for Marginal / Small farmers and General farmers

• State Govt. has made additional provisions of 5 to 15% from State Plan resources resulting in total subsidy 50-60% for Sprinklers and 50-70% for Drip & Mini Sprinklers.
Transfer of Agriculture Technology

- Organisation of Pre-seasonal Zonal Research and Extension Advisory Committee Meetings (ZREAC) before Kharif and Rabi seasons.
- Organising of Agro-climatic region-wise Monthly Workshops
- Monthly Cluster Meeting at Sub-district level
- One day Women Training Programmes at each Gram Panchayat
- Incentive to Girls for Studying in Agriculture
  - 10+2 Agri Rs.5000
  - B.Sc. Agri. & M.Sc. Agri Rs.12000
  - Ph.D. Agri. Rs. 15000
Transfer of Agriculture Technology

• Training of Extension functionaries at SIAM, Dugapura-Jaipur, Tonk and Kota. Institutional and field Training

• Use of Electronic media for dissemination of Agriculture Technology
  - TV
  - AIR

• Use of Print Media

• Organization of Exhibitions and Global Rajasthan Agri-tech Meet (GRAM)

• Kissan Call Centre

• Strengthening of Kissan Seva Kendra
  - Construction of KSKs
  - Strengthening with basic facilities
Eligible – Accident of farmers/Agricultural labourers using implements/tools during Agricultural work.

Eligibility-

- In the event of Death/Casualty/Disability by electric current.
- During spraying of insecticides/pesticides.
- Death/Casually/Disability during stacking of bags, rolling over tractor trolley, camel ladder, bullock/buffalo carts in Main Mandi yard/Sub market yards and purchase centres.
- Death/Casually/Disability/Fracture during Agricultural Marketing job.
- Death/casually/Disability during carrying of Agricultural Produce for sale in mandi yard and back to home after sale of produce by self or hired vehicle.
Death/Casually/Disability while going from home to farm and vice-versa by tractor trolley, camel ladder, bullock/buffalo cart etc.

Descalping of women farmer during using chaff cutter/agricultural implements.

Death/Casually/Disability by snake bite/camel or poisonous/toxic animals.

Death/Casually/Disability by lightning fall.

breaking of spinal cord (treated as damage of two limbs)

leaving the coma (treated as damage of two limbs)

accident during Agricultural security, hunting of trees for cattle grazing, while keeping security in the guarding of agriculture.

death/casually in drowning in the diggi/taka in the field.

Filling of Application: within 6 Month of accident
Eligibility – Licencees and resident of Rajasthan state hammals and palledar pursuing specified work in mandi yards and receiving no salary from other sources.

Provisions-

Maternity Assistance
- Licencee women hammal and palledar - upto two maternity
- Equal to 45 days’ minimum wages prescribed for unskilled labour
- Paternity leave equal to 15 days’ minimum wages prescribed for unskilled labour

Assistance for Marriage
- Marriage of licencee women – upto Rs. 50,000/-
- Marriage of two daughters of licencee women – upto Rs. 50,000/- each

Scholarship/Talented Student Reward Yojana
- 10th to Post Graduate Level
- Passed in First Division
- Licencee hammal/palledar guardian
- Assistance Rs 2000 to 6000 depending of percentage of marks obtained.

Medical Assistance
- Assistance to licencee hammals/palledars for severe diseases like cancer, kidney, liver, heart upto Rs. 20,000/-
Farmers who bring their produce in ‘Super’, ‘A’ and ‘B’ class mandi of Rajasthan state by Tractor Trolley, Cart etc are provided two coupons of food for each vehicle at the entry gate.

Food of Rs. 40/- is provided to farmers and licencee hammals/palledars. Rs. 5 are recovered from beneficiary and the rest amount is borne by KUMS.

**Menu of Food per plate**

- **Chapati** - 6 (wheat flour 200 gm)
- **Dal** - 1 Bowl (125 gm)
- **Vegetable** - 1 Bowl (125 gm)
- **Gud** - 50 gm (In winters)
- **Chhachh** - 200 Ml (In summers)
In the state of Rajasthan E-National Agriculture Market was launched on 14.04.2016 in Ramganj Mandi.

Presently 25 APMC’s are included in the e-NAM. Other than these 25 APMC’s, all APMC’s are working on Rajasthan Integrated Mandi Management System (RIMMS) Portal.

Under E-National Agriculture Market entry gate pass, assaying, e-Auction, e-Payment etc are being performed. For quality test, assaying labs and oil testing machines have been established in e-NAM APMC’s.

114 commodities have been approved for trading on e-NAM portal.

Inter Mandi and Inter State e-Trade is being done on e-NAM portal.
### E-Payment Yojana

- The e-NAM scheme has been launched to encourage maximum digital transactions in agriculture marketing in APMC’s.

- Prizes for farmers and traders under the scheme

<table>
<thead>
<tr>
<th>State Level</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>First Prize</td>
<td>One prize of Rs. 1 Lac each for Trader &amp; Farmer</td>
</tr>
<tr>
<td>Second Prize</td>
<td>Two prizes of Rs. 50,000 each for Trader &amp; Farmer</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Division Level</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1- First Prize</td>
<td>One prize of Rs. 50,000 each for Trader &amp; Farmer (at each division)</td>
</tr>
<tr>
<td>2- Second Prize</td>
<td>Two prizes of Rs. 25,000 each for Trader &amp; Farmer (at each division)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mandi Level</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1- First Prize</td>
<td>One prizes of Rs. 30,000 each for Trader &amp; Farmer (at each mandi)</td>
</tr>
<tr>
<td>2- Second Prize</td>
<td>Two prizes of Rs. 15,000 each for Trader &amp; Farmer (at each mandi)</td>
</tr>
</tbody>
</table>
With a view to honour the role of women in agriculture production, to invite their active participation in agriculture marketing of their produce, to encourage them to get e-payment of their produce sold in APMC’s the scheme has been initiated in the State.

Remuneration of Rs. 500/- and Rs. 1000/- shall be paid to each women farmer who receives more than Rs 50,000/- and more than Rs. 1,00,000/- respectively through e-payment after e-sale of her produce. The amount shall be transferred directly into their bank account.
Rajasthan Agro-processing and Agri Marketing promotion policy-2015

After availing benefits under RIPS-2014, the investor is eligible to get following benefits under the scheme.

- **Major Objectives:-**
  - To increase the income of farmers
  - To encourage value addition in agriculture produces and reduces post-harvest losses.
  - To bring in new technologies in agriculture marketing
  - To promote export of agri produce
  - To attract private investment and create new employment opportunities

- **For Agro-Processing Manufacturing Activities:-**
  - Incentive for Research & Development: 50% of the cost of development of new prototype subject to a maximum of Rs20 lakh for each undertaking in a year.
  - Incentive for Project Development: 50% of the cost of development of the DPR. Maximum Rs10 lac during a period of 5 years.
  - Subsidy for patent/design registration: Prescribed fee to a maximum of Rs2 lakh per beneficiary per year.
  - Subsidy on quality and certification: Prescribed fee to a maximum of Rs2 lakh per beneficiary per year.
  - Subsidy on sending samples abroad for test marketing: 40% of actual cost of sending samples subjected to a maximum of Rs50,000 per beneficiary for one sample of one commodity to one country.
Major Objectives:-

• To encourage value addition in agriculture produce and reduce post-harvest losses by establishing small Agro-processing units at farmers level.

• To bring in new technologies in agriculture marketing

• To increase the income of farmers

Eligibility and main features :-

• The farmers Agri entrepreneur/Farmer Producer Company, who own land in the Gram Panchyat area and wants to set up Agro processing unit.

• The Maximum Project cost is Rs. 75 lacs subsidy component 50 percent of Project cost or Rs 25 lac whichever is less.

• The Project component are 50% Plant & Machinery, 40% civil work and 10% working capital

• Back ended subsidy with lock in period of three years.

• The Project with bank loan or contribution from farmer himself both are covered.

• The District level Screening committee has to decide in time bound manner and has to take decision whether activity is covered under the scheme.

• The proposal submitted by Screening committee is to be sanctioned in time bound manner.

• After sanctioning the agreement is to be done at district level.
Proposed Schemes- Export of Fruits, Vegetables and Flowers

Eligibility and Main Features:-

• The Scheme covers Fruit, Vegetable and Flower Produced in the state and will cover Traders/Progressive Farmers/ Farmer Producer Companies.

• Subsidy for Air transport- 20% of FOB value or 4.50 Rs. per KG which ever is less.

• Subsidy for Sea transport- Rs. 25% of surface transport up to port or Rs. 500 per Ton which ever is less and 25% of Sea Transport or Rs. 500 per Ton which ever is less.

• Maximum subsidy available- Rs. 10 lacs per year maximum for 3 years and organic produce Rs. 15 lacs per year maximum for 3 years.
Problems in developing Agro processing in the State

Some of the major issues relating to agro-processing industries in the State are as follows:-

• **Raw Material & Inputs**
• Season Production of crops
• No confirm Data on Surplus Production – Crop Specific & Organic Produce
• Season Demand
• Uninterrupted Supply of Raw Material
• Lack of Processable Varieties
• Man Power
• Unavailability of Skilled Man Power
• Unavailability of Trained Output Marketing Personnel
Problems in developing Agro processing in the State

Some of the major issues relating to agro-processing industries in the State are as follows:-

• Logistics & Markets
  • Higher Storage cost for F & V
  • Widened gap between Supply & Demand Markets – Diminished Motivation
  • Higher Cost of Production near Demand Market – Land &Labour
  • Lack of Market Accepted/Reliable Testing Facilities
  • Lack of Market Intelligence specially on Processing & Export Sector
  • Longer distance from Ports
• (3)Procedural
  • Lack of Time bound Clearances & Permissions
  • Cumbersome Land Conversion Process specially in Municipal Areas
  • Lack of Knowledge & reluctance at field level
• No Specialized Agency for Agro/Food Processing in the State.
<table>
<thead>
<tr>
<th>Particulars</th>
<th>Losses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Selected cereals, constituting 94% of the national cereal production</td>
<td>3.9% - 6.0%</td>
</tr>
<tr>
<td>Pulses</td>
<td>4.3% - 6.1%</td>
</tr>
<tr>
<td>Black gram harvesting (1.1%), collection (1.0%) and threshing (1.6%)</td>
<td></td>
</tr>
<tr>
<td>Oilseeds</td>
<td>2.8% - 10.1%</td>
</tr>
<tr>
<td>Losses in farm operations in cereals, pulses and oilseeds - two-thirds of the total losses</td>
<td></td>
</tr>
<tr>
<td>Selected fruits and vegetables</td>
<td>5.8% - 18.00%</td>
</tr>
</tbody>
</table>
Importance of PHM

- Higher Post harvest losses
  - Fruits & Vegetables - 5.8-18%
  - Food grains & oil seeds - 2.8-10%

- In India processing of Agri produce is 1-2% annually

- In many other countries processing is 65% annually
  (Malaysia-83%; Philippines-78%; Brazil & USA-70%)
Strategy for developing Agro processing in the State at Farmers level

- Progressive Farmers/ FPCs are being sensitized and provided training in Agro-processing and Agri-marketing at Panchayat Samiti Level. Initially training at 11 districts headquarters is to be completed by the end of this month.

- The Potential trainees after above training are to be covered under the scheme of RSAMB.

- For Agri-export RSAMB is designated as Nodal agency. The farther steps to formulate Agri export Policy is underway.

- For boosting agri-export the export transport subsidy scheme for spices for farmer producer companies is under formulation.

- For export of fruits vegetables and flowers from farmer, the export Transport Subsidy Scheme for progressive farmers/ FDCS is under Process.

- The scheme to provide back ended subsidy for upgradation of plant & Machinery of existing Agro-processing units of farmers/FDCs is being under process.
Potential of Livestock Sector

- 2nd highest livestock population in the country.
- Contributes about 11% to State GDP.
- State contributes 11% of milk, 35% of Goat meat & 30% of wool of the total in national production.
- First in Wool Production in India.
- First in sale of Live animals for Meat Production in India.
- 896 gm/day/capita is the availability of Milk.
- State is first in goat milk production.
Livestock population in Rajasthan
(As per census 2012 – in lakh)

<table>
<thead>
<tr>
<th>ANIMAL</th>
<th>Live stock Population in Rajasthan (lac)</th>
<th>Rank in India</th>
<th>% of India</th>
</tr>
</thead>
<tbody>
<tr>
<td>GOATS</td>
<td>216.66</td>
<td>1&lt;sup&gt;st&lt;/sup&gt;</td>
<td>16.03</td>
</tr>
<tr>
<td>CAMEL</td>
<td>3.26</td>
<td>1&lt;sup&gt;st&lt;/sup&gt;</td>
<td>81.50</td>
</tr>
<tr>
<td>SHEEP</td>
<td>129.76</td>
<td>2&lt;sup&gt;nd&lt;/sup&gt;</td>
<td>11.94</td>
</tr>
<tr>
<td>BUFFALOES</td>
<td>90.80</td>
<td>3&lt;sup&gt;rd&lt;/sup&gt;</td>
<td>13.95</td>
</tr>
<tr>
<td>CATTLE</td>
<td>0.38</td>
<td>4&lt;sup&gt;th&lt;/sup&gt;</td>
<td>6.09</td>
</tr>
<tr>
<td>HORSE</td>
<td>133.24</td>
<td>5&lt;sup&gt;th&lt;/sup&gt;</td>
<td>6.98</td>
</tr>
<tr>
<td>TOTAL LIVESTOCK</td>
<td>577.32</td>
<td>2&lt;sup&gt;nd&lt;/sup&gt;</td>
<td>11.27</td>
</tr>
<tr>
<td>POULTRY</td>
<td>80.24</td>
<td>18&lt;sup&gt;th&lt;/sup&gt;</td>
<td>1.10</td>
</tr>
</tbody>
</table>
# Livestock Products in Rajasthan

<table>
<thead>
<tr>
<th>Year</th>
<th>Milk Production (thousand tons)</th>
<th>Meat Production (thousand tons)</th>
<th>Egg (Millions)</th>
<th>Wool Production (Lac Kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1995-96</td>
<td>5449</td>
<td>32</td>
<td>436</td>
<td>174</td>
</tr>
<tr>
<td>2005-06</td>
<td>8581</td>
<td>68</td>
<td>710</td>
<td>153</td>
</tr>
<tr>
<td>2015-16</td>
<td>18500</td>
<td>180</td>
<td>1385</td>
<td>134</td>
</tr>
<tr>
<td>2016-17</td>
<td>20850</td>
<td>180.10</td>
<td>1363</td>
<td>143.21</td>
</tr>
<tr>
<td>Rank</td>
<td>2nd</td>
<td>12th</td>
<td>15th</td>
<td>1st</td>
</tr>
<tr>
<td></td>
<td>3rd : MP</td>
<td>2nd:Mahrashtra 3rd: WB</td>
<td>3rd : Telangana</td>
<td></td>
</tr>
<tr>
<td>2017-18 Tentative</td>
<td>22427</td>
<td>188.5</td>
<td>145.48</td>
<td>142.87</td>
</tr>
</tbody>
</table>

Livestock Products in Rajasthan
## INDIGENOUS LIVESTOCK BREEDS

<table>
<thead>
<tr>
<th>Animal</th>
<th>Breeds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cattle</td>
<td>Tharparkar, Nagauri, Rathi, Kankrej, Gir, Malvi, Haryana</td>
</tr>
<tr>
<td>Buffalo</td>
<td>Murrah, Surti</td>
</tr>
<tr>
<td>Sheep</td>
<td>Chokla, Nali, Magra, Jaisalmeri, Sonadi, Malpura, Marwari, Pugal</td>
</tr>
<tr>
<td>Goat</td>
<td>Sirohi, Marwari, Jakharana</td>
</tr>
<tr>
<td>Camel</td>
<td>Jaisalmeri, Bikaneri</td>
</tr>
<tr>
<td>Horse</td>
<td>Malani</td>
</tr>
</tbody>
</table>
## Veterinary Institutions

<table>
<thead>
<tr>
<th>Institutions</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyclinic</td>
<td>35</td>
</tr>
<tr>
<td>Ist Grade Veterinary Hospital</td>
<td>785</td>
</tr>
<tr>
<td>Veterinary Hospital</td>
<td>1710</td>
</tr>
<tr>
<td>Veterinary Dispensary</td>
<td>198</td>
</tr>
<tr>
<td>Veterinary Sub centre</td>
<td>5067</td>
</tr>
<tr>
<td>Mobiles</td>
<td>102</td>
</tr>
<tr>
<td>Integrated Livestock Development Centers (J K Trust)</td>
<td>1490</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>9387</td>
</tr>
</tbody>
</table>

Presently one veterinary institution on 7400 animals.

- Animal Disease Diagnostic Labs – 36, Poultry Disease Diagnostic Lab - 1
- B P Lab – 1, Departmental Livestock breeders / Staff Training Centers - 7
- Nutrition lab – 4, Departmental Farms - 7
Major Livestock Activities

- Artificial Insemination
- Castration
- Calf rally and milk yield Competitions
- Bull / Buck / Ram Distribution
- Poultry / Pig / Camel Development
- Live stock Marketing in cattle Fairs
- Veterinary Health Care
- Vaccination
- Surgical & Infertility Treatment Camps
- Mobile Veterinary Services
- Disease Diagnostic Facilities
- Livestock Insurance
- Milk reecording
- Sheep Migration
## Free Medicine Scheme

Start: 15-08-2012 ¼ C.M. Free Medicine Scheme½

<table>
<thead>
<tr>
<th><strong>Objective</strong></th>
<th>To provide all types of medicines free of cost to all farmers, for all type of animals.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Medicine Availability</strong></td>
<td>129 medicines &amp; 35 surgical consumables for vet. Hospitals &amp; 60 Medicines &amp; 13 surgical consumables for Sub centers.</td>
</tr>
<tr>
<td><strong>Management</strong></td>
<td>Through software - “integrated on-line medicine management system”</td>
</tr>
<tr>
<td><strong>Progress</strong></td>
<td>Per year about 470 lakh animals belonging to 114 lakh farmers benefitted.</td>
</tr>
</tbody>
</table>
Mobile Veterinary Units
(Since Sept 2013)

To provide veterinary services in the areas where veterinary facilities are not available.

Total 102 Mobiles (3 in each district)
Sheep Migration

**Permanent**: Approx. 15-20 lacs
- Other States
  - (MP, UP, Haryana, Punjab, Gujarat)
- Period: July to October (Approx. 4 months)
  - (variations due to monsoon)

**Temporary**: Approx. 2-2.5 lacs
- Within the State, particularly from western districts.
- (Inter district)
- Period: October to July
Camel Development

- State camel population 3.26 lakhs (82% of country)
- Camel declared as “State Animal” of Rajasthan.
- An Act to prohibit Camel slaughter and regulate temporary migration and export enacted.
- Camel Development Scheme being run in the State; with a provision of Rs. 10,000 for each camel calf born.
Rajasthan Agriculture Competitiveness Project

A world bank project started from April 2012 to April 2019 in 11 clusters of 13 districts.

• Major Activities-

1. Distribution of elite breeding bucks for Breed improvement.
2. Distribution of chaff cutter, feeding and water troughs, Azola units and feed supplements for better nutrition management.
3. Treatment camps with mobile van facility.
4. Goat unit (4 goats) distribution to widows/physically handicapped women for livelihood.
5. Distribution of clean milk kit to ensure clean milk production and minimizing the mastitis incidences in small as well as large animals.
6. Weighing machine distribution to aware the farmers about the real value of their commodity.
7. Tablets being provided to lady link workers for quick and effective data feeding.
Short term Agriculture Credit

• Short term crop loans up to the limit of Rs. 1.50 lakh are made at Zero percent interest.
• Position of crop loans disbursed to farmers upto Jan, 2019 to farmers as under:-

<table>
<thead>
<tr>
<th>Year</th>
<th>No. of Farmers</th>
<th>Disbursed Loan</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018-19</td>
<td>Rs. 21.71 lakh</td>
<td>12129 crore</td>
</tr>
</tbody>
</table>
Rajasthan Farmers Loan Waiver Scheme, 2019

- Rajasthan Government has waived off outstanding crop loan of farmers.
- Cooperative Banks crop loan as on 30.11.2018.
- Detail direction in this regards issued vide letter dated 6.2.2019.
- Number of farmers and estimated waived loan amount is given as under:-

<table>
<thead>
<tr>
<th>Total Number of Farmers</th>
<th>24.44 lakh</th>
</tr>
</thead>
<tbody>
<tr>
<td>Estimated waived off Loan amount</td>
<td>9513 crore</td>
</tr>
</tbody>
</table>
Thanks