



Punjab (Pakistan) - China

— *Collaboration in* —

AGRICULTURE & LIVESTOCK



Government of the Punjab (Pakistan)



Message Chief Minister of Punjab (Pakistan)

Pakistan and China enjoy an enduring friendship, built upon mutual trust, respect and a shared commitment to peace, prosperity and development. The China-Pakistan Economic Corridor (CPEC) has strengthened this bond by opening new avenues for connectivity, investment, trade and regional economic cooperation.

Agriculture and livestock offer particularly promising areas for expanding practical collaboration and creating new opportunities for sustainable economic growth.

Punjab is Pakistan's agricultural heartland, blessed with fertile soils, an extensive irrigation network, diverse agro-climatic conditions and a dynamic farming community. The province is a major producer of wheat, rice, cotton, maize, sugarcane, potato, fruits and vegetables, providing a strong foundation for collaboration in agricultural production, food security, agro-processing and exports.

Punjab possesses valuable livestock resources and internationally recognized breeds. This creates significant opportunities for cooperation with Chinese partners in dairy and meat processing, animal breeding, genetics, veterinary pharmaceuticals, animal health, feed manufacturing, livestock technology and value-added livestock products.

My Government is committed to creating an enabling, transparent and investment-friendly environment for Chinese investors and enterprises. We welcome Chinese expertise, technology and investment across Punjab's agriculture and livestock value chains and seek to establish long-term partnerships based on mutual benefit, technology transfer, innovation, employment generation and sustainable development.

Together, Pakistan and China can transform Punjab's agricultural potential into modern, technology-driven and export-oriented enterprises, contributing to food security, rural prosperity and economic growth in both countries.

Maryam Nawaz Sharif
Chief Minister of Punjab (Pakistan)



Punjab's Agriculture Outlook

Pakistan covers approximately 88.19 million hectares, of which nearly 23 million hectares are cultivated. Punjab accounts for 20.5 million hectares of the country's geographical area, including approximately 12–13 million hectares under cultivation.

Punjab is the food basket of Pakistan by contributing over 70% of the share in National Production

Crops	Pakistan production	Punjab's production
Cotton	7.05 million bales	3.81 million bales
Wheat	29.61 million tonnes	21.91 million tonnes
Rice	9.99 million tonnes	5.53 million tonnes
Maize	8.79 million tonnes	7.96 million tonnes
Sugarcane	89.45 million tonnes	66.90 million tonnes

Fruit	Pakistan production	Punjab's production
Mango	2.909 million tonnes	2.5 million tonnes
Citrus	3.911 million tonnes	3.83 million tonnes
Guava	0.942 million tonnes	0.80 million tonnes

Sources: Pakistan Economic Survey 2025–26 (Pakistan data); Crop Reporting Service, Agriculture Department, Government of Punjab (Punjab data)



Chief Minister Punjab Initiatives on Agriculture

■ Economic Transformation Program

Establishment of Agro-processing parks for value addition and agribusiness to enhance exports.



■ Chief Minister Punjab Kissan Card

Providing interest-free loans to 0.9 million farmers for the purchase of agricultural inputs to enhance crop productivity. Rs 360 Billion loans disbursed.



■ Chief Minister Punjab Green Tractors Program

Enhancing farm mechanization through provision of subsidized tractors to farmers across Punjab. 25,000 Tractors distributed.



■ Chief Minister Hi-Tech Mechanization Financing Program

Promoting modern agriculture by providing interest-free financing for the purchase of hi-tech agricultural machinery.



■ Establishment of Model Agriculture Malls In Punjab

One-Stop Agriculture-input-market concept is implemented in the province



■ Punjab Clean Air Program

Reducing crop residue burning through provision of 10,000 Super Seeders.





Punjab (Pakistan)–China Agricultural Cooperation & Partnership

Agricultural Mechanization & Machinery Supply Chain

- Punjab–China agricultural mechanization framework
- Chinese tractors and farm machinery
- Machinery testing and demonstration sites
- Joint ventures for local machinery assembly
- Local manufacturing to reduce machinery costs

AI-Based Early Warning & Disaster Monitoring

- AI-based agricultural early warning system
- Satellite-based pest and disease surveillance
- Rain forecast, Drought, flood, heatwave and frost alerts
- Integration of Chinese remote-sensing technologies
- Location-specific alerts for farmers and field staff

Smart, Digital & Precision Agriculture

- AI, GIS, drones, IoT and Big Data applications
- Digital crop monitoring and yield estimation
- GPS-guided and precision farming technologies
- Precision fertiliser, irrigation and crop protection

Agricultural Robotics & Autonomous Machinery

- Autonomous tractors and robotic farm machinery
 - GPS/RTK-guided field operations
 - Agricultural drones for crop monitoring/surveillance/geographical surveys/ sprays
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Punjab (Pakistan)–China Agricultural Cooperation & Partnership

Post-Harvest Management & Food Security

- Modern grain storage and drying technologies
- Improved grading, processing and packaging
- Cold-chain and agricultural logistics
- Reduction of post-harvest losses

Joint Research, Innovation & Technology Transfer

- Joint research with Chinese universities and institutes
- Joint laboratories and agricultural innovation centres
- Field testing and localisation of technologies
- Conversion of visits into MoUs and implementable projects

Human Resource Development & Knowledge Exchange

- Technical training with Chinese institutions
- Machinery operator and mechanic certification
- Training for engineers and technical human resource
- Exchange of scientists and technical experts

Trade, Investment & Long-Term Partnership

- Punjab–China agricultural business linkages
 - Chinese investment in machinery manufacturing
 - Investment in agro-processing and cold chains
 - Punjab–China Agricultural Technology Business Forum
 - Punjab–China Agricultural Cooperation Working Group
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Key Facts About Livestock Sector

Sectoral Share in National Economy



14.6%
of National GDP



62.4%
Share in Agriculture



3.75%
Growth Rate



3.00%
of Total National Exports



75.00
Billion liters milk
(62% from Punjab)



2720
000 tons/annum
(43% from Punjab)

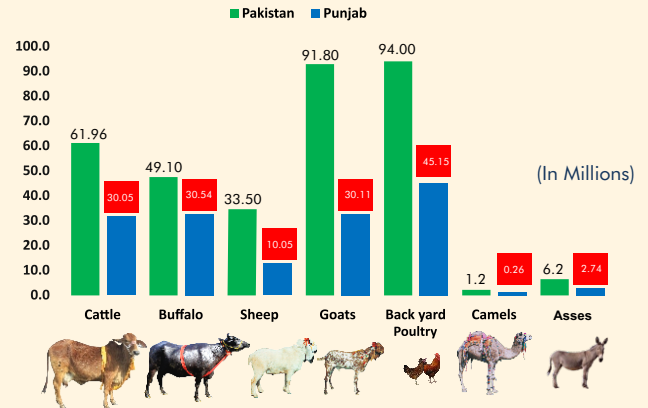


890
000 tons/annum
(33% from Punjab)



2826
000 tons/annum
(70% from Punjab)

Reference: Economic Survey of Pakistan 2025-26



7th Agriculture Census of Pakistan 2024



Why Livestock Sector in Punjab is attractive for Investment?

Increasing Demand for Livestock Products

- The consumption of milk and meat is expected to grow by 5% and 6.5% annually, respectively.
- This growing demand creates a substantial gap between supply and demand.

Climate-Resilient Breeds

- Climate-resistant breeds like the Sahiwal and Cholistani cattle and Nili Ravi buffalo.
- The Nili Ravi, dubbed the "Black Gold of Pakistan" by FAO, produces milk with over 6% fat and contains the A2A2 casein protein, considered superior in global markets.

Lower Production Costs with Higher Profit Margins

- The availability of low-cost labor and the presence of indigenously grown fodder crops make the livestock sector highly profitable compared to global markets.
- Current market prices for livestock products also reflect a substantial profit margin..

Trend of Processed Food

- Increasing demand for processed dairy and meat products in Pakistan.
- Consumers are shifting from cost-sensitive to quality-focused products...

Export Potential in China, Gulf and Southeast Asia

- Punjab's strategic location gives it a competitive edge in livestock exports.
- Pakistani meat commands higher prices in Gulf markets due to its quality and Halal certification.
- A mere 5% increase in beef animal exports could add USD 17.3 million to national earnings.

Access to Niche Markets

- The livestock sector is well-positioned to tap into niche markets.
- Products such as Mozzarella cheese from buffalo milk and goat cheese, camel milk, and camel meat have untapped potential.

Ease of Doing Business

- Offering a business-friendly environment, with maximum profit potential, one-window operations, and favorable tax incentives.
- Special Economic Zones (SEZs) in Punjab provide tax subsidies.

Low Animal Productivity (Global Comparison)

- Despite its potential, animal productivity in Pakistan remains lower than global standards, offering significant room for improvements & investment.

Why Livestock Sector in Punjab is attractive for Investment?

Established Regulatory Framework

Robust regulatory framework that supports the livestock sector. Key legislative acts include:

- The Punjab Livestock Breeding Act (2014).
- The Punjab Animal Feed Stuff and Compound Feed Act (2016).
- The Punjab Poultry Production Act (2016).
- The Punjab Animal Health Act (2021).

Progress Towards Disease-Free Zones

- Progressing towards achieving FMD-free status under the Progressive Control Pathway for FMD, Rs. 5.2 billion has been invested in importing FMD vaccines in collaboration with FAO, focusing on Bahawalpur Division and Cholistan.
- Establishment of disease free compartments in Punjab with Rs. 600 million investment.

Huge available Public Infrastructure



Veterinary Facilities (2498)

Civil Veterinary
Hospital = 546
Civil Veterinary
Dispensaries = 1952



Veterinary Labs (45)

District Labs = 27
Divisional Labs = 08
Provincial Lab = 01
Poultry Lab = 05
Nutrition Labs = 04



Mobile Fleet (253)

Mobile Dispensaries = 201
Mobile Labs = 43
Mobile Buses = 09



Experimental Farms (35)

Livestock Farms = 21
Poultry Farms = 10
SPUs = 02
Calf Rearing Centre = 02

Potential Project Proposals

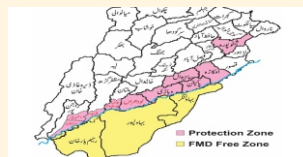
Establishment of Foot & Mouth Disease Free Compartments:

- Establishment of FMD-Free Compartment by Royal Group China in accordance with GACC agreements protocols.
- Room for up-scaling the initiative under B2B arrangement.



Establishment of Foot & Mouth Disease Free Zone in Punjab:

- Currently, the Livestock Department has invested in purified FMD vaccination as campaign for the entire livestock population in the Bahawalpur Division of Punjab over the last six years.
- To enhance meat and dairy exports and facilitate easy access to Chinese markets, this is a potential investment area.



Establishment of FMD Purified Vaccine Production Unit:

- To enhance the production capacity of the FMD vaccine in Punjab.
- China's experience with advanced vaccination production technology could be a potential investment avenue.



Establishment of Genomic Centre and IVF Labs in Punjab:

Propagation of superior germ plasm has been identified through SNP chips, genotyping, and whole genome sequencing of Elite cattle and buffalos. Use of gene editing and IVF technologies aims to enhance meat and dairy production.



Donkey Breeding and Conservation

- Government of Pakistan has issued NOC for establishment of donkey slaughterhouse to Chinese company at Gwadar Free zone Balochistan.
- The establishment of Donkey farm for its conservation and propagation is a potential investment opportunity.
- The aim is to promote the export of donkey meat, milk, gelatin, Ejiao and hide/skin to China.



Potential Project Proposals

Cold Chain & Dairy Logistics:

- More than 90% of milk comes from small/medium farms and milk collection is informal without any cold chain coverage.
- A advanced cold chain system (chilling/collection centers, refrigerated transport, digital temperature monitoring, training and finance) will transform Punjab's handling of perishable goods



Dairy Automation:

- The Dairy Automation through automated milking, feeding, and health monitoring tools to improve productivity and milk quality.
- The leading international dairy automation companies can develop roadmap for scalable efficient and data driven dairy industry.



Integrated Fodder Farms:

- Persistent challenges for livestock farmers is seasonal and costly feed/fodder shortages especially in dry months.
- An integrated fodder system can help reduce this gap.
- Punjab could be benefitted from the latest range of silage and hay machinery from International Mechanical Industries.



Livestock Export Processing Zones Coupled with Disease Free Compartments

- The Livestock Export Processing Zone (LEPZ) could be developed through establishing a dedicated, modern facility for processing.
- Provision of state of the art slaughterhouses, cold storage, quarantine areas, feedlots and logistics hubs under international hygiene and halal standards.



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Government of Punjab



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Agriculture Department and Livestock & Dairy Development Department
Government of the Punjab (Pakistan)