



Government of Pakistan

Ministry of Planning Development & Special Initiatives, Islamabad

PAKISTAN BUREAU OF STATISTICS

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7th AGRICULTURAL CENSUS 2024

Integrated Digital Count



Government of Pakistan

Ministry of Planning Development and Special Initiatives

PAKISTAN BUREAU OF STATISTICS

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SPECIAL MESSAGE



Agriculture remains the backbone of Pakistan's economy, employing a significant share of the population and serving as a vital source of food security, livelihood, and export earnings. In this context, the 7th Agricultural Census 2024, conducted by the Pakistan Bureau of Statistics (PBS), marks a transformative step forward in evidence-based agricultural planning and policymaking.

This census holds special significance as it is the first-ever integrated digital census of agriculture in Pakistan's history—building on the success of the digital 7th Population and Housing Census 2023. Unlike previous rounds, which separately covered agricultural, livestock, and machinery censuses on paper, this integrated digital exercise combines all three domains. It provides comprehensive, timely, and geo-tagged data for use by policymakers, researchers, development partners, and the private sector.

The 7th Agricultural Census Report delivers rich insights into farm holdings, land tenure patterns, cropping practices, agricultural credit, irrigation methods, livestock ownership, and the use of modern machinery. Such data are critical to devising evidence-informed policies for raising enhancing productivity, climate resilience, increasing rural incomes, and aligning with our international commitments including the Sustainable Development Goals (SDGs).

Importantly, this census supports the broader development vision of the Government—URAAN Pakistan and 5 Es National Economic Transformation Plan, which aims to unleash the economic potential of all sectors through innovation, inclusion, and institutional reforms. Reliable and granular agricultural statistics are indispensable for transforming agriculture into a

high-value, technology-driven, and sustainable enterprise.

Despite resource constraints, PBS—through strong collaboration with provincial governments—successfully completed this massive exercise across all regions, including Gilgit-Baltistan and Azad Jammu & Kashmir. I commend the dedication of the PBS team, field staff, and stakeholders who ensured the quality and timely execution of this national endeavor.

I am confident that the findings of this census will serve as a cornerstone for policy formulation, investment planning, and rural transformation, paving the way for a prosperous and food-secure Pakistan. I would particularly like to thank and appreciate the efforts of Dr. Naeem uz Zafar (SI), Chief Statistician, PBS, and Mr. Muhammad Sarwar Gondal, Member (SS/RM), for their unwavering commitment and invaluable contributions to this national initiative. Their leadership and hard work are instrumental in supporting the country's development through evidence-based planning.

Prof. Ahsan Iqbal
Federal Minister for Planning,
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Government of Pakistan

FOREWORD

Agricultural Census is one of the major activities of Pakistan Bureau of Statistics (PBS). So far, this organization has conducted Six Agricultural, Four Livestock and Five Agricultural Machinery Censuses. The current 7th Agricultural census activity is unique in the methodology as it is not only an integration of all three censuses but it has also been conducted digitally, making it first ever "Integrated digital count" of agriculture in the history of Pakistan after the success of 7th Population and Housing Census 2023. It serves agricultural planners, researchers academia providing detailed by information about agricultural activities in Pakistan.

The report of 7th Agricultural Census provides latest information about agricultural farms, land utilization, tenure classification, cropping patterns, livestock population with age distribution, and usage of modern farming practices. Its other prominent/key features include up to date information about area under different crops, agriculture credit, size of orchards and various types of irrigation methods. The 7th census covered first time in the census history, the new technologies adopted by the farming community like greenhouse technology and tunnel farming practices along with use of modern irrigation systems including sprinkler and drip irrigation systems. This digital data is very useful for economy boosting agricultural productivity, alleviating poverty, enhancing agricultural exports, ensuring food security and achieving the agriculture related Sustainable Development Goals (SDGs).

Pakistan Bureau of Statistics (PBS) collaborated with provincial administrations to ensure effective training of field staff, field operations, monitoring and supervision of agricultural census activities. PBS ensured the timely completion of this gigantic exercise throughout the country including Gilgit Baltistan and Azad State of Jammu & Kashmir in spite of meagre resources, manpower, material and financial resources constraints. This report provides useful information about agricultural structure covering various aspects of the agriculture sector which provides a benchmark not only for future planning but comparison with also for the past performance.

It is expected that the census result presented in this report, will be put up for effective use by agricultural policy makers as well as planners for designing data-driven policies for the development of agriculture sector in particular and for bringing progress and prosperity in Pakistan in general.

Awais Manzur Sumra Secretary PDSI

PREFACE



Pakistan of Bureau Statistics (PBS) conducted the 7th Agricultural Census 2024 (Integrated Digital Count) through an integrated approach, combining data on Agricultural Lands, Crops, Livestock, and Agricultural Machinery. The previous efforts of The Agricultural Census Organization (defunct) included the 6th Agricultural Census in 2010, the 4th Livestock Census in 2006, and the 5th Agricultural Machinery Census in 2004, all focused on collecting detailed insights of the farming practices for agricultural lands, livestock formations, agricultural machinery to asses the modern agricultural practices by the farming community of Pakistan. Building on the foundation of earlier censuses, the latest initiative employs advanced technologies for data collection. The 7th Agricultural Census 2024 was completed in two phases. First phase was completed in September-November 2024 in cold and snowbound areas and the 2nd phase was completed in January-February 2025 in the rest of country.

The census aims to provide detailed insights into Pakistan's agrarian structure, cropping patterns, livestock demographics, and mechanization trends, which are crucial for addressing challenges such as food security, climate resilience, and rural development particularly with reference to the 2030 agenda of SDGs...

This report covers six chapters, where the first three belong to the introduction, new digital aspects, and the sample design of the 7th Agricultural Census 2024, while the rest of three chapters are dedicated to key indicators about agriculture, livestock, and agricultural machinery.

The 7th Agricultural Census 2024 embraced advanced digital technologies to streamline processes and enhance the reliability of outcomes. Features included tablet-based data collection, geotagging of agricultural households, real-time

dashboards for monitoring, digital maps, and task management systems. Publicity campaigns utilized social media, while a hotline complaint management system ensured transparency. Various software modules, like the GIS-based dashboard monitoring system and Computer-Assisted Personal Interviewing (CAPI) applications were developed to improve efficiency, accuracy and validity. PBS leveraged its upgraded in-house data center to support operations, reducing costs and ensuring round-the-clock IT support and data security.

The Pakistan Bureau of Statistics has collaborated with provincial administrations to ensure effective field operations, monitoring, and supervision. Extensive training programs were conducted for enumerators and supervisors, ensuring high-quality data collection Which was not possible without dedication and devotion.

I would like to extend my profound appreciation to my entire team, including provincial governments as well as Gilgit Baltistan and Azad State of Jammu & Kashmir administrations, for their remarkable contributions and unwavering commitment throughout this journey. I am especially grateful to Mr. Muhammad Sarwar Gondal (SI), Member (SS/RM), whose exceptional leadership and generous dedication have been pivotal in steering this project towards a groundbreaking new dimension in digital census.

I hope that the 7th Agricultural Census will leave a significant mark on national progress and prosperity by facilitating data-driven policy making and implementation in the future.

DR. NAEEM UZ ZAFAR (تارة التياز)

Chief Statistician



DIGITAL CENSUS A Success Story!

Pakistan Bureau of Statistics (PBS) successfully conducted the 7th Population and Housing Census 2023 (First Ever Digital Count) and achieved a historic milestone by making it South Asia's 1st ever digital census. Through this groundbreaking initiative, PBS gathered demographic data for more than 241 million individuals and geo-tagged 40 million structures, ensuring accurate and comprehensive insights to support data-driven policymaking and development planning.

Following the Population Census 2023, PBS recognized the urgent need to conduct an agricultural census to address food security challenges and guide data-centric policies for its growing population. Agriculture, being the 2nd largest sector in the national economy, contributes around 24% to its GDP and employs about 40% of its labor force, therefore, there was a dire need to conduct an agricultural census.

PBS conducted the 7th Agricultural Census 2024 (Integrated Digital Count) across Pakistan, including GB and AJK. By recognizing agriculture's crucial contribution to economic growth, PBS digitized the census to deliver timely, accurate, and reliable data, establishing a strong foundation for effective agricultural planning and evidence-based policy formulation.

The digital census was conducted on international standards by using tablet-based technology for real-time monitoring through GIS dashboards and advanced analytics to identify trends while enhancing stakeholders' engagement. It sets a foundation for future agriculture surveys, emphasizing inclusivity, accessibility, and efficiency. PBS developed a comprehensive two-tier training program, training of

Census Master Trainers (CMTs) from PBS along with stakeholders' Agriculture Extension, Crop Reporting Service, Livestock & Dairy Development Department, Education and Revenue Department, who then trained district-level Enumeration and supervisory staffs.

This comprehensive initiative digitized the entire process, introducing systems like HR and Task Assignment Web Portal, Inventory Management Applications, Complaint Management System, CATI Support Module, and Monitoring dashboards at the provincial and district levels. Equipped with tablet devices and advanced software for data collection, the project revolutionized census operations. This Digital Census project has been a remarkable success for PBS in particular and for country in general.

I would especially thanks to the exceptional efforts of Mr. Ayazuddin, Member (Census & Surveys), Dr. Amjad Javaid Sandhu, Director General (Admn/ACPMU), Ms. Rabia Awan, Deputy Director General (CPMU), Directors and their teams. They played a pivotal role in designing and implementing the Integrated Digital 7th Agricultural Census 2024. The unwavering commitment and collaboration of the Support Services, DP Centre, GIS staff, Field Services/Operations, and Subject Matter teams ensured the project's success despite challenging circumstances. Their dedication is truly commendable.

I am genuinely hopeful that this groundbreaking initiative will transform agriculture policymaking and implementation in the years to come.

Muhammad Sarwar Gondal (تتارة انتياز)
Member SS/RM



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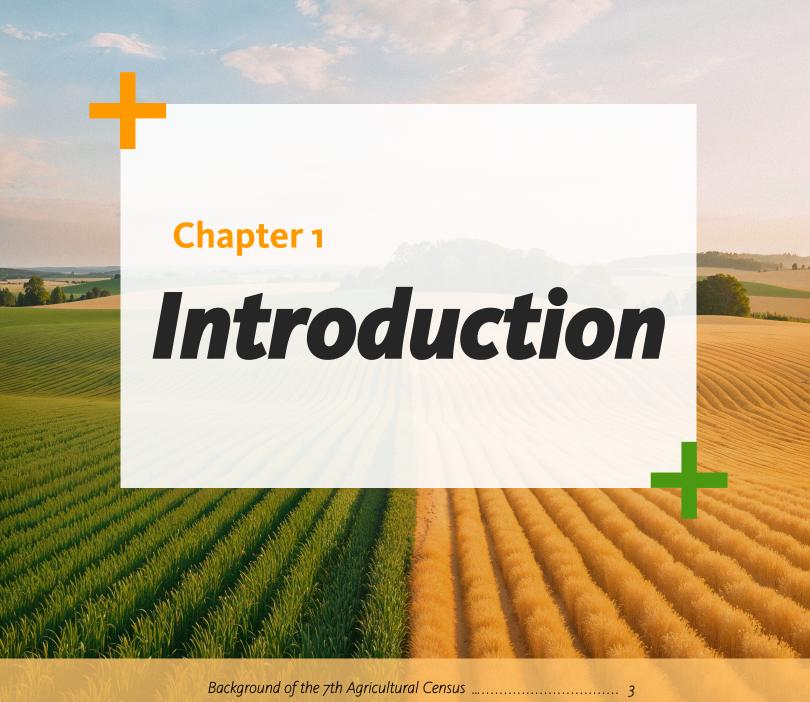
KEY INDICATORS



- Tenure Classifications of Farm
- Farm Area by Size of Farm
- Cultivated Area by Mode of Irrigation
- Cropped Area by Size of Farm



- Number of Cattle/Buffaloes
- Number of Sheep/Goats
- Number of Camels
- Number of Horses/Mules/Asses
- Fodder Area



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1. INTRODUCTION

1.1 Background

Agriculture is the backbone of Pakistan's economy, contributing significantly to country's GDP, employment, and food security. It provides livelihood to a large portion of the population, particularly in rural areas, where farming remains the primary source of income. The sector plays a crucial role in ensuring national food supply, supporting agro-based industries, and contributing to exports. Given its economic importance, accurate data collection and analysis are essential to address challenges such as land distribution. farming efficiency, livestock climate change impacts, contribution resource management.

To facilitate informed decision-making, the Pakistan Bureau of Statistics (PBS) conducts periodic agricultural censuses. These censuses are crucial for assessing landholding patterns, farming practices, and livestock resources, providing

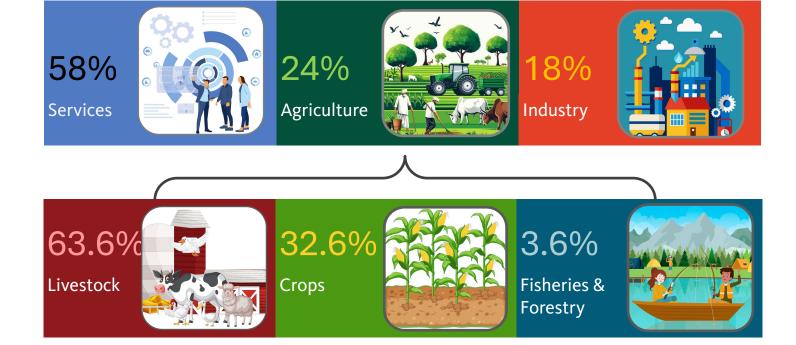
valuable insights for policymakers, researchers, and stakeholders. The data collected helps in formulating agricultural policies, allocating resources efficiently, and enhancing rural development strategies. Regular censuses ensure that the government and private sector have upto-date information to address emerging agricultural challenges for improvement in the production productivity.

The Agricultural Census 2024 marks the 7th edition of this national effort, with the primary objective of collecting reliable and comprehensive agricultural data. This census aims to provide updated statistics to support policy formulation, economic planning, and sustainable agricultural growth. By analyzing current trends, challenges, and opportunities, the census will help to shape policies that drive agricultural innovation, food security, and rural prosperity in Pakistan. To ensure all this, we may have a look into the role of agriculture in the economy of Pakistan.



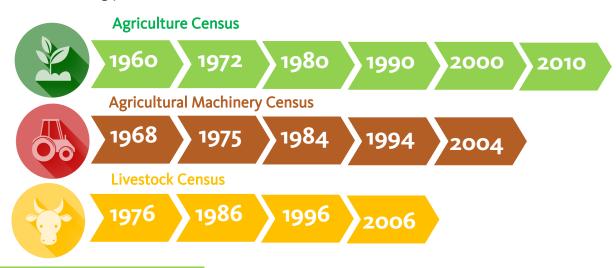
1.1.1 Agriculture's Role in Pakistan's Economy

Agriculture remains a key sector of Pakistan's economy, contributing significantly to GDP. Approximately livelihood of 40 million population directly linked with Agriculture & 37.4% of Labour Force employed in Agriculture Sector.



1.1.2 Periodicity of Agricultural Censuses

To support evidence-based policy making and strategic agricultural planning, the Pakistan Bureau of Statistics (PBS) conducts periodic agricultural related censuses to assess landholding patterns, farming practices, and livestock resources.





1.2 Objectives

The Agricultural Census 2024 aims to provide a comprehensive understanding Pakistan's agricultural landscape by gathering accurate and up-to-date data on various aspects of the agrarian structure. It provides baseline essential data for effective policymaking, resource allocation, and the development of strategies to enhance agricultural productivity and sustainability. This census will help to assess current farming practices, livestock populations, farm mechanization, resource utilization, and market trends, enabling the government and stakeholders to address key challenges and identify opportunities for growth. By collecting detailed information on landholding practices, cropping patterns, livestock trends technological adoption, the census will serve as a foundation for evidence-based decision-making in the agricultural sector. Main objectives and scope of integrated 7th Agricultural Census are:



Data for Food Security and Better Livelihood

To furnish information about agrarian structure of the country for baseline data for food security and better livelihood of the population



Food and Cash Crop Estimation

To provide estimates for food and cash crops



Livestock Estimation

To provide estimates of livestock population



Trade Insights

To provide area-wise statistics on milk and meat production for efficient trade planning



Modern Farming Practices

Modern farming practices to enhance the productivity

1.2.1 Scope of 7th Agricultural Census

The scope of the 7th Agricultural Census includes all the relevant topics with some restrictions as mentioned here.

- The 7th Agricultural Census only focuses on agricultural households involved in operating agricultural land, rearing livestock, and having agricultural machinery, as compared with previous censuses wherein cluster sampling approach was adopted including agricultural and nonagricultural households. The detailed interviews of only agricultural households conducted after segregating them during listing operation adopting stratification approach.
- The scope includes, agricultural farm(s) / holding (s) held and or operated by the Government or by private household(s), individually or collectively or under corporate arrangement at the time of census enumeration. Consequently, the undistributed government lands other than government farms, undistributed portion of the lands resumed by the Government under land reforms, built up areas, land under roads, rails,



ravines, rivers, canals, government forests, parks, lakes, water bodies, shallow lands, hills and mountains, etc. falling under the category of non-farm area, are outside the scope of the census.

- Livestock count is restricted to the head count of cattle, buffaloes, sheep, goats and camels by age, sex and breed distribution.
- Whereas information about the horses, mules and asses have been collected by age distribution.
 However only number of domestic poultry also collected in the census.
- Data on domestic slaughtering also collected.
 The data on number of animals slaughtered inside the recognized slaughter houses collected through a specially designed survey.
- In addition, information about the total production of milk per day by the cows, Dzomo, buffaloes, goats (milking for human consumption) and female camels also collected.

- Covered all public and private tractors, bulldozers, combine harvesters used wholly or partly for agricultural purposes. Tractors / bulldozers maintained and used entirely for nonagricultural purposes are not covered in this census. The information about the farm implements normally pulled manually or by animals or motivated with tractor or some other source of energy also covered in the census.
- Covered all public and private tube wells, wells with pump, lift pumps, submersible pumps used for irrigation purposes. These machines used for drinking water are outside the scope of this census.

The 7th Agricultural Census, originally after merger of past agricultural, livestock, and agricultural machinery censuses into one, the 7th Agricultural Census was due in 2015, but was delayed due to multiple critical national statistical priorities. The immediate need to conduct the 6th Population and Housing Census in 2017 took precedence, followed by the necessity to first carry out the Mouza Census held in 2020, which serves as the foundational frame for sampling in agricultural census as well as rural statistics. This was essential for updating and revamping the sampling frame to enable a more efficient and integrated approach for the upcoming census. The further delay was extended implementation of the 7th Population and Housing Census in 2023, which was Pakistan's first

-ever digital census. These sequential activities, although necessary, pushed the Agricultural Census timeline forward, eventually culminating in the integrated and digital 7th Agricultural Census 2024.

During the Population and Housing Census, the Agricultural Census questionnaire was finalized through a rigorous consultative process led by the Technical Committee, which held multiple sessions to ensure accuracy, relevance, and alignment with national needs. A key milestone in this process was the Technical Committee Meeting held on July 6, 2021, where the structure and content of the questionnaire were finalized and process remained continue till 2023 and several meetings held for finalization of questionnaire.



1.3 Methodology

The Agricultural Census 2024 employs a robust and modernized methodology to ensure the accuracy, reliability, and efficiency of data collection. A hybrid approach is adopted, combining complete enumeration in key areas with sample-based data collection to maximize coverage while optimizing resources. This methodology ensures a comprehensive yet cost-effective data collection process.

To enhance the credibility of the census, extensive stakeholder engagement and consultations were conducted with provincial governments, agricultural experts, and livestock agencies. Their input helped to refine census methodologies, ensuring that the data collected is relevant, comprehensive, and aligned with national and regional agricultural needs.

A key feature of this census is the integration of advanced technology, including tablet-based data collection, geo-tagging, and real-time monitoring. These digital tools improve data accuracy, reduce errors, and allow for efficient processing and analysis. Moreover, stringent quality control measures are in place, including automated validation checks, real-time supervision, and independent verification teams, to maintain data integrity and reliability throughout the census process.



Hybrid Data Collection Approach

The census adopts a combination of complete and sample enumeration techniques for accuracy and efficiency.

Stakeholder Engagement & Consultation

Collaboration with provincial governments, agricultural experts, and livestock agencies to refine census methodologies.





Technology Integration

Implementing tablet-based data collection, geo-tagging, and real-time monitoring for data accuracy.

Quality Control Measures

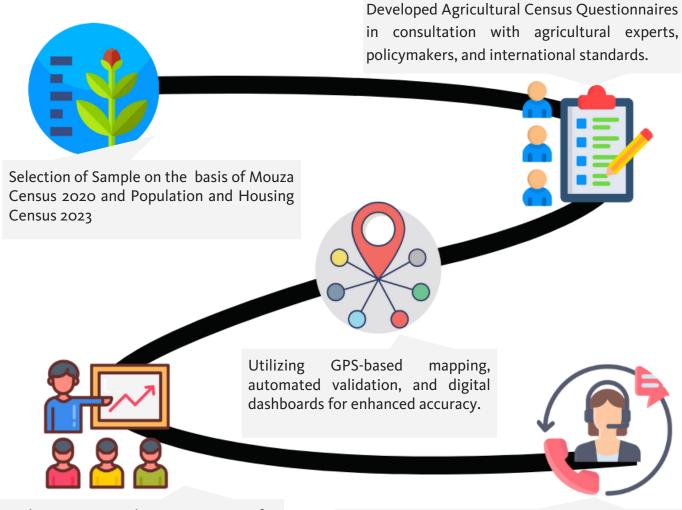
Data validation through automated checks, real-time supervision, and independent verification teams.





1.4 Key Features

The key features of the Agricultural Census 2024 ensure accurate, efficient, and stakeholder-driven data collection to provide benchmark for effective policymaking. Integrating the Mouza Census 2020 and process reengineering National Certainty Holdings (NCH) data enhanced land and farm enumeration accuracy. Stakeholders reviewed questionnaire ensures comprehensive data collection, while advanced digital tools like GPS mapping and automated validation, improved data reliability and efficiency. Nationwide training programs equipped field staff for standardized data collection, and public engagement initiatives, including helplines and a grievances redressal management system, enhance transparency. These features make the census a reliable foundation for informed agricultural planning and development.



Conducting comprehensive training for enumerators, supervisors, and field staff to ensure data consistency.

Public Awareness and Complaint Management Establishing helplines, call centers, and a grievance management system for improved transparency.



1.5 Comparative Studies

The comparative study conducted for the 7th Agricultural Census examined key methodological aspects to ensure accuracy and efficiency while maintaining alignment with global best practices. The study assessed various modules. census sampling methods. questionnaire designs, and data collection techniques. It ensured that the overall census methodology and questionnaires adhered to international standards, allowing for reliable data collection and analysis. The adoption of modern data collection techniques was a critical focus, facilitating the transition from traditional paperbased methods to digital tools while improving validation mechanisms.

Additionally, the study provided insights from both developed and regional countries to

optimize sampling methods and refine the structure of the questionnaire. In doing so, it helped to identify best practices that could be applied to enhance the overall census framework. The comparative analysis also played a crucial role in strengthening stakeholders collaboration at federal, provincial, and local levels, ensuring the smooth implementation of the census and the credibility of the collected data.

1.5.1 Questionnaire Designing

A crucial part of the comparative study was the evaluation of main questionnaire design and standardization across different census modules. The study emphasized aligning the questionnaire with the best international practices to ensure data comparability and consistency. Developed countries have refined their questionnaire frameworks to include

		Land	Irrigation and Water Management	Crops	Livestock	Agricultural Practices	Agricultural Services	Demography and social Characteristics	Farm Labour	Household Food Security	Aqua- culture	Farm Forest	Management of the Holding
C	Pakistan	✓	✓	✓	✓	✓	✓	✓	✓	×	×	✓	×
	Bangladesh	✓	✓	✓	✓	✓	✓	✓	✓	×	✓	✓	×
★ ‡	China	✓	✓	✓	✓	✓	×	✓	✓	×	✓	✓	×
•	India	✓	✓	✓	✓	✓	×	✓	x	×	×	×	×
	Indonesia	✓	√	√	✓	✓	×	✓	√	✓	✓	✓	✓
Ф	Iran	✓	✓	✓	✓	✓	×	√	×	×	✓	×	×
**	Nepal	✓	✓	√	✓	✓	✓	✓	✓	✓	✓	✓	×
	Sri Lanka	✓	✓	✓	✓	✓	×	✓	✓	✓	✓	✓	×
	Russia	✓	✓	✓	✓	✓	×	✓	✓	×	✓	×	×



detailed farm structure data, production trends, and sustainability metrics. Regional countries, while following similar frameworks, often include additional modules tailored to local agricultural smallholder farming conditions. such as challenges and climatic impacts. The 7th Agricultural Census questionnaire was designed to incorporate lessons from both developed and regional models, ensuring it captured comprehensive, reliable, and policy-relevant data.

1.5.2 Evaluation of Sampling Methods

The comparative study examined different sampling techniques to determine the most effective approach for the 7th Agricultural Census. A key aspect of the evaluation was the comparison between complete enumeration and sample enumeration. Complete enumeration ensures comprehensive data collection by

	Country	Complete Enumeration	Sample Enumeration
*‡	China (2006)	✓	×
Ψ	Iran (2014)	✓	×
	Indonesia (2013)	✓	✓
③	India (2010-11)	✓	✓
9	Mongolia (2011)	✓	✓
	Nepal (2011-12)	×	✓
C	Pakistan (2010)	✓	✓
	Bangladesh (2008)	✓	✓
	Sri Lanka (2013-14)	✓	✓

covering all agricultural holdings, but it requires significant time and resources. In contrast, sample enumeration offers a more cost-effective and efficient method by selecting a representative subset of agricultural holdings, allowing for the extrapolation of results to a broader population. The study assessed how developed and regional countries balance these approaches to optimize resource allocation while maintaining data reliability.

1.5.3 Computer-Assisted Personal Interviewing (CAPI)

The study also evaluated the integration of digital tools such as Computer-Assisted Personal Interviewing (CAPI) into the census process. In developed countries such as the USA, Canada, Australia, and the UK, CAPI is widely adopted due to its ability to enable real-time data validation, reduce errors, and integrate with satellite-based monitoring. These benefits significantly improve data accuracy efficiency. Regional countries, such as India and Bangladesh, employ a hybrid approach combining CAPI with traditional Paper and Pencil Interviewing (PAPI) to ensure coverage in areas with limited digital access. Meanwhile, China and Turkey use Computer-Assisted Telephone Interviewing (CATI) as an additional verification mechanism. The findings underscored the importance of adopting CAPI while maintaining flexibility for hybrid models to address infrastructure constraints in various regions.



1.6 Stakeholders Consultation

Accurate and comprehensive agricultural data is vital for evidence-based policymaking, security planning, and sustainable development. Recognizing this. extensive stakeholders consultations were conducted to ensure the successful execution of the 7th Agricultural Census 2024. These engagements played a crucial role in aligning methodological approaches, refining census strategies, and preparing field staff for data collection. The collaboration of federal, provincial, and districtlevel stakeholders ensured the smooth implementation of the census and enhanced data reliability.

The involvement of key stakeholders was essential in shaping the design and execution of the census. These consultations facilitated inclusive decision-making by engaging government institutions, agricultural experts, researchers, and policymakers. Their input helped in refining the methodology, ensuring that the census captured all critical aspects of the agricultural sector. Moreover, stakeholders involvement played a pivotal role in logistical coordination at multiple administrative levels, ensuring seamless execution. The consultations strengthened ownership also the commitment of various agencies, reducing implementation challenges and enhancing cooperation across different governmental tiers.

1.6.1 Consultative Meeting with Senior Members Board of Revenue (SMBRs) – October 4, 2019

A high-level consultative meeting was held

with the Provincial Senior Members Board of Revenue (SMBRs) to discuss the integration of the Mouza Census framework with the 7th Agricultural Census 2024. The discussions focused on legal and administrative guidelines required for census operations. The outcome of this meeting was the establishment of a well-defined framework that ensured legal clarity and streamlined census execution.



Consultative Meeting with Provincial Senior Members Board of Revenue (SMBRs) – October 4, 2019

1.6.2 Technical Committee Meetings for Questionnaire Finalization



Technical Committee Meetings for Questionnaire Finalization – July 6, 2021



Technical committee meetings were conducted to finalize the census indicators and questionnaire design. The objective was to standardize the questionnaire to include essential agricultural parameters such as landholding patterns, irrigation methods, livestock numbers, and modern farming techniques. These meetings ensured that the questionnaire adhered to international best practices, making it comprehensive, data-driven, and policy-relevant.

1.6.3 Meeting with Focal Persons from Federal Ministries & Provincial Departments

A strategic meeting with focal persons from federal ministries and provincial departments was conducted to discuss logistics, coordination mechanisms. and technology adoption for census implementation. This meeting facilitated inter-agency collaboration, ensuring that the framework census incorporated

technological advancements such as digital data collection tools and real-time monitoring systems. The discussion led to improved efficiency in census operations, reducing delays and enhancing data validation processes.

1.6.4 Meeting with Provincial Government

The provincial Governments played a key role in coordinating provincial-level census operations. A series of meetings was held with provincial Governments in Feb-March 2024 to discuss the integration of provincial data collection efforts with the national framework. The meetings were focused on field deployment strategies, data-sharing protocols, and overall execution mechanisms. The outcome was a well-coordinated approach that ensured the alignment of provincial efforts with national census objectives, thereby enhancing the overall accuracy and coverage of the census.



Meeting with Focal Persons from Federal Ministries & Provincial Departments – December 20, 2023



Meeting with Punjab Government February 15, 2024





Meeting with AJ&K Government March 7, 2024



Meeting with Balochistan Government February 2, 2024



Meeting with KP Government February 20, 2024



Meeting with Sindh Government February 1, 2024

1.6.5 Meeting with District Governments

The Agricultural Census District meetings were convened in June 2024 in each district throughout the country to discuss the ongoing agricultural census activities, challenges faced in data collection, and strategies for improving the accuracy and efficiency of the census. The district meetings were conducted under the chair of Deputy Commissioners and brought together district heads of provincial departments viz agriculture, livestock, crop reporting service, education, revenue and local stakeholders.

Main objectives of the meetings were:

• To ensure number of required enumeration and supervisory provincial staffs.



- To address challenges encountered during data collection.
- To ensure coordination between various stakeholders.
- To discuss technological advancements in census activities.
- To outline future steps for completing the census successfully.
- Strengthen community engagement through awareness programs.
- *Improve training for enumerators on digital data collection methods.*
- Enhance logistical support for data collection teams.
- Establish a helpdesk for resolving field-related issues promptly.
- Conduct periodic review meetings to track progress and address emerging challenges.

The extensive stakeholder engagement process significantly contributed to the successful planning and execution of the 7th Agricultural Census. It facilitated cross-sector collaboration, promoted data standardization, and ensured that the census methodology was robust and internationally aligned. The engagement also improved logistical coordination, reducing operational bottlenecks and enhancing the efficiency of the data collection process. Ultimately, the consultations ensured that the census would generate high-quality, reliable, and policy-relevant data to support the development of the agricultural sector and inform strategic decision-making at both national and sub national levels.

1.7 Sensitization Workshops

Sensitization Workshops held at universities played a crucial role in validating the methodologies of the 7th Agricultural Census 2024 by actively engaging academia, researchers, agricultural and livestock specialists. These sessions provided a platform for experts to critically analyze and refine the proposed census techniques, ensuring that they aligned with scientific research, international best practices, and the specific needs of Pakistan's agricultural sector. The involvement of universities fostered cross-sector collaboration, bridging the gap policy hetween academic research and implementation. By incorporating insights from

specialists in agronomy, livestock, data science, and rural development, the census adopted more precise and effective enumeration strategies. Furthermore, workshops encouraged these innovation in data collection and analysis, exploring the use of geospatial mapping, real-time data validation, and digital enumeration tools to enhance the accuracy and efficiency of agricultural statistics. Through these collaborative efforts, the census methodology was proved scientifically robust, technologically advanced, and policyrelevant, ensuring that the findings would contribute to evidence-based decision-making and long-term agricultural planning and sustainability.





Seminar at Sindh Agriculture University, Hyderabad, Sindh, May 27, 2024



Seminar at the University of Agriculture, Peshawar, KP, May 30, 2024



Seminar at the University of Agriculture Faisalabad, Punjab- June 5, 2024



Seminar at the Balochistan Agriculture College, Quetta June 11, 2024





1.8 Brainstorming Session with Agriculture and Livestock Experts

A special brainstorming session was held with agriculture and livestock experts on June 27, 2024. The session aimed to gather expert insights on census methodologies and discuss ways to improve data collection. The key topics discussed included:



Questionnaire Development:

Experts reviewed and provided feedback on the structure and content of the questionnaire to ensure it captured comprehensive and relevant agricultural data.

Training Videos for Enumerators:

The importance of developing and utilizing training videos for census enumerators was highlighted to enhance their understanding of survey methodologies and improve data accuracy.





Technological Enhancements:

Discussions included the potential use of Al-driven tools to assist in data verification and reducing human errors.

Field Challenges and Solutions:

Practical field challenges faced by enumerators were addressed, and experts suggested potential solutions for efficient data collection.





1.9 Pilot Survey

After successful conduct of Population and Housing Census 2023, Leveraging a collaboration between expert statisticians and high-tech IT professionals, PBS developed a comprehensive plan for the First Digital Agricultural Census. As part of its strategic planning, PBS launched a Pilot Survey in July 2024 before training of Master Trainers, to simulate the actual field environment before initiating training for the Census Master Trainers. This pilot survey was critical in assessing the functionality and practicality of census technologies and processes, identifying potential implementation challenges, and ensuring the system's readiness. Conducted in selected rural Mouzas, the survey aimed to evaluate the preparedness of digital tools and gather insights for improving field operations, with its findings playing a vital role in shaping the timeline and methodology of the main census.

The Pilot Survey aimed to evaluate the effectiveness, applicability, and timeliness of new procedures introduced for the 7th Agricultural Census—particularly digital data collection tools such as the "Android House Listing Application" and the "Android Enumerator Data Collection Application." The survey's objectives included testing the clarity and sequence of the census questionnaire, assessing the workload and time required for enumeration, and examining the performance and durability of tablets and

associated hardware. Additionally, it sought to verify the reliability and security of census software and GIS tools, evaluate the functionality of high-resolution digital maps for field navigation, and ensure the compatibility of hardware with software. It also tested secure data transmission. real-time monitoring capabilities, and the overall coordination between PBS's IT and field teams. The feedback gathered from the Pilot Survey was intended to refine operations ahead of the nationwide census rollout. Pilot Survey was held in different rural Mouzas:

Islamabad: Gurahmast

Rawalpindi: Dhalla

• Jhelum: Bhataya

Chakwal: Chawali

Attock: Jamgha



Pakistan Bureau of Statistics , Pilot Testing for 7th Agricultural Census 2024



1.10 Training of 7th Agricultural Census

A two-tier training program was implemented for the 7th Agricultural Census to ensure the effective preparation of census staff at different levels.

First Tier - Master Trainers Training (July 2024)

- A specialized training session was conducted at the National Institute of Banking and Finance (NIBAF) in July 2024.
- Around 352 Master trainers were equipped with depth knowledge of census methodology, digital data collection tools, and statistical validation techniques.
- The training included workshops, hands-on exercises, and expert-led discussions on best practices in agricultural data collection.

Second Tier - Field Staff Training Sep-2024 (Phase-I), Dec-2024 (Phase-II)

- Following the training of Census Master Trainers, first phase training of enumerators and supervisors in September while second phase training was conducted in December, 2024 at district levels.
- 7686, Field staff were trained by master trainers to ensure uniform understanding and execution of census protocols.
- The training covered field data collection techniques, ethical considerations, digital tool usage, and troubleshooting common challenges in data gathering.
- Role-playing and simulated interviews were conducted to enhance enumerators' interaction skills with farmers.

The Agricultural Census Training served as a crucial platform for evaluating the census progress



Inauguration of the 7th Agricultural Census Training, Minister PD&SI, Professor Ahsan Iqbal



Second Tier – Field Staff Training (December 2024)



and implementing corrective measures. The resolutions adopted during training are expected to enhance the accuracy and efficiency of the census process. Enumerator and Supervisors reaffirmed their

Table 1.1: Number of Trainers trained at NIBAF, Isla	mabad
Department	No. of Participants
Pakistan Bureau of Statistics (PBS)	320
Crop Reporting Services (CRS)	7
Agriculture Extension (AE)	13
Agriculture Research (AR)	1
Education Department (ED)	6
Information Technology (IT)	1
Livestock (LS)	1
Provincial Bureau of Statistics (BoS)	3
Total	352

1.11 Field Operations

The 7th Agricultural Census of Pakistan was conducted in two distinct phases to account for varying climatic conditions across the country. This comprehensive national exercise aimed to collect up-to-date and accurate agricultural data to support policy formulation and strategic planning for the agricultural sector.

1.11.1 Inaugurations

Formal launch ceremonies were held at federal and provincial levels, marking the nationwide rollout of census activities. The Minister of Planning, Development and Special Initiatives, Mr. Ahsan Iqbal, oversaw the inauguration events and Inaugurated the Field Operations at National Level. In Khyber Pakhtunkhwa, the Minister of Agriculture, Major (Rtd.) Sajjad Barkwal, inaugurated the field operations. In Azad Jammu and Kashmir (AJK), the Minister for Livestock and Dairy Development, Sardar Mir Akbar Khan, presided over the

inauguration. In Balochistan, the Chief Minister, Sarfaraz Bugti, inaugurated the event, while in Punjab, the Finance Minister, Mian Mujtaba Shujaur-Rehman, inaugurated the field operation on behalf of the Chief Minister. In Sindh, Mr. Nasir Hussain Shah, Minister for Local Government, Forests, and Religious Affairs, led the inauguration. Senior officials from the Pakistan Bureau of Statistics (PBS) in the respective provinces also attended the ceremonies. At District level the field operations were inaugurated by the respective Deputy Commissioners.

1.11.2 Phase I: Cold Areas Field Operations (September 2024)

The first phase of field operations was conducted in September 2024 in 24 districts identified as cold and mountainous areas. These areas were prioritized early due to harsh weather conditions expected in the winter months, which would hinder effective data collection. Covered 24



districts in Gilgit-Baltistan, Balochistan, Azad Jammu & Kashmir, Chitral, Upper Dir, and other northern high-altitude regions of Khyber Pakhtunkhwa. Enumerators conducted in-person interviews with farmers and landowners to collect information on landholding size, ownership, cropping patterns, livestock, irrigation sources, and agricultural machinery. Local administrations provided logistical support for access to remote and rugged terrains. Special training was given to enumerators for data collection in cold-climate conditions in September, 2024. Immediately, after training the enumeration work was started.



Phase 1: Cold Areas Field Operations —September 2024

1.11.3 Phase 2: Nationwide Field Operations (January 2025)

The second phase of field operations was launched in January 2025, with official inaugurations held across Pakistan. Field data collection continued till 10th February 2025 in this phase.



Phase 2: Nationwide Field Operations January 2025



Field Operations Gallery 7th Agricultural Census 2024



























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2. WHAT'S NEW: DIGITAL ASPECTS

2.1 Digital Aspects

After the successful conduct of 7th Population and Housing Census digitally, it was imperative to conduct 7th Agricultural Census on the same grounds by utilizing advanced technology. Modern technology permits end-toend embedding of processes in the census value chain which ranges from planning, monitoring and implementation to evaluating outcomes. prime digital aspect of the 7th Agricultural Census 2024 includes integration of three censuses (Agricultural, Livestock and Machinery census) by utilizing advanced technology, using tablet-based data collection, geo-tagging of agricultural households, real-time online dashboard for monitoring, use of digital maps, task management system, publicity campaigns through social media



and hotline complain system. These digital tools improve data accuracy, reduce errors, time and cost reduction, enhance efficient processing and analysis that are the essential requirements of any census and survey to be conducted successfully.



2.2 Census Software Modules

In an increasingly digital world, organizations are seeking more sustainable and economically viable technology oriented solutions. Given the nature, timeliness and the scope of agricultural census, it is difficult to manage census activities without providing a digital solution for effective implementation and control. That's why, Pakistan Bureau of Statistics has developed indigenous software modules—locally developed applications tailored to the specific needs of Agricultural Census. This solution provided significant cost advantages by minimizing complexities of process according to locally tailored





needs, avoiding additional licensing fees, enabling faster; more affordable support and customized solutions while enhancing digital sovereignty. This approach not only ensured better alignment with local requirements but also contributed as strategic investment in long-term digital resilience.

Pakistan Bureau of Statistics has developed the whole software in-house and it has contributed a lot in terms of cost optimization as well as efficiency. As PBS's own team of developers better understand the requirements of the field and the experiences gained during "Digital Census". These Software Modules have not only overcome the deficiencies of Digital Census but also contains improvements in the process. This technology stack enabled a seamless transition from data collection to validation and reporting, optimizing processing timelines and reducing reliance on third-party Tools:

2.2.1 Potential Features of Software Packages

All administrative tasks are systematically managed in respective software modules developed by in-house PBS experts. These modules not only minimize the cost but also enhance the efficiency of the whole process enabling the PBS to successfully complete this national activity. Some of the potential features of these software applications are discussed in detail such as:

A comprehensive *HR Management System* streamlined field team deployment through automated block assignment, dynamic replacement, user access control to minimizing delays and administrative workload. It ensured that staff operated within authorized geographic

boundaries, helping maintain data integrity and operational discipline.

The *Inventory Management System* tracked the issuance, location, and return of tablet devices in real-time, reducing device loss and misuse, supported swift redistribution where needed, and automated reconciliation at the end of field operations while ensuring optimized use of available resources.

The *GeoMonitor360 Dashboard*, a webbased GIS monitoring tool, allowed tracking of centralized operational statistics, real-time monitoring of census progress and field activities at all administrative levels—reducing the need for costly field inspections and enabling quick response to ground-level issues. This platform provided spatial validation capabilities, flagging unvisited areas to identify uncovered structures and real time progress insights to uphold enumeration integrity.

Data Cleaning Module is a robust, query-based automated data cleaning app that replaced the traditional manual review methods, enabling faster, repeatable, and scalable error correction. Alassisted cleaning tools were used at initial scale to detect data anomalies, contributing to more consistent and reliable datasets.



2.3 Census Hardware and IT Infrastructure

a. State of the Art Datacenter

Fortunately, a huge cost reduction could be possible due to the start of operationalization of PBS own's datacenter. PBS recently upgraded its own datacenter to meet the international standards for power backups, network and server security, precision cooling, fire suppression systems, environmental monitoring and control, disaster recovery capabilities and access control systems. A well-established in-house datacenter infrastructure was utilized for this exercise to provide round-the-clock support.



b. Tablets and Allied Devices for Data Collection

The hardware and IT related requirements for this integrated census include 10,000 tablet devices with allied accessories were re-used from population census to minimize cost. Along with these devices 156 laptops, printers, and internet SIMs were provided at 156 census support centers throughout the country. Three data recovery sites, intranet and internet recovery with online and offline support, network SIMs along with internet devices and mobile data provided extensive support throughout the process of field operation.



c. Call Center for Complaint Management and Data Quality Assurance

A call center with latest concepts and technologies were established at PBS HQ where 50 well-trained call agents worked to address all the complaints timely by providing IT support round-the-clock and also ensuring data collection quality during census process. However, the main task of this center was complaint management and to handle the non-response from big agricultural holdings.



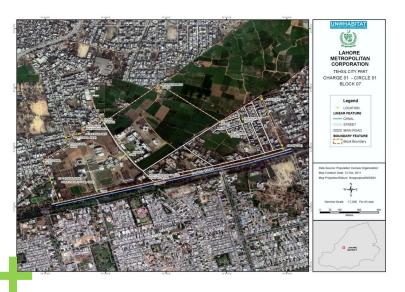


d. SMS Gateway

In order to strengthen communication and coordination throughout the 7th Agriculture Census, the Pakistan Bureau of Statistics integrated a centralized SMS Gateway into its operational framework. This system played a pivotal role in facilitating rapid and reliable information exchange between the PBS headquarters, regional offices, supervisors, and field enumerators across the country. By leveraging mobile communication networks, the SMS Gateway enabled swift dissemination of updates, technical instructions, operational alerts, and critical deadlines, thereby streamlining field operations and supporting time-sensitive decision-making.

2.4 Utilization of Digital Block Boundaries

PBS has already digitalized all area frame boundaries comprising 185509 blocks and PBS is conducting all surveys through tablets by using these digitalized block boundaries. Mouza Census Frame 2020 mapped with updated sampling frame of 7th Population and Housing Census 2023 for the 7th Agricultural Census 2024. The sampling frame consists of 45,752 Mouzas 103,972 Rural Enumeration Blocks and 39,985 Urban Enumeration Blocks. However, for the sample size of total of 11,054 Mouzas/Blocks selected in the 7th Agricultural Census 2024, the same digital block boundaries developed through GIS technology, are utilized in the listing and enumeration software modules.



2.5 Geo-Tagging of Agricultural Household Structures



While developing Listing and enumeration software modules for 7th Agricultural Census 2024, it is considered essential to geo-tag each house during listing. The android-based listing application has a feature to geo-tag structures within the mouza or block assigned to an enumerator as it is a GIS based application enable enumerator to geo tag houses and households. Alerts can be generated on in/out from relevant blocks.





2.6 Establishment of Census Support Centers

To run the field operation smoothly and efficiently, 157 dedicated Census Support Centers were established at each Census District Level. The role of these CSCs was very crucial to support and facilitate the census field operation. These CSCs are responsible in managing the range of tasks including and retrieval of tablet devices. distribution installation configuration of software and applications, acting as control rooms at district level, and handling complaints at district level. These centers were equipped with furniture, fixture and technical staff mostly from PBS. These staff are instructed to facilitate the field operation staff (enumerators and supervisor).

2.7 Extensive Social Media Campaigns

For ensuring the successful conduction of census activities, a nationwide publicity campaign was planned on electronic, print, and social media platforms to highlight the importance of the 7th Agricultural Census and its objectives. Use of social media through identification and creating communication with influential, notables, academia, famous personalities from all walks of life and celebrities etc. from all districts and requested them to share their pictures and videos of giving data to enumerators with various mentioned Hashtags to highlight its importance. It was also requested to endorse all census related important information from Social Media handles of PBS by retweeting and sharing. Throughout the agricultural census, PBS officers and officials themselves run the PBS social media pages.



facebook.com/PBSofficialpak



x.com/PBSofficialpak



Instagram.com/pbsofficialpak



linkedin.com/company/pbsofficialpak



@PBSofficialpak



@PBSofficialpak



2.8 Digital Inauguration by Ministers

The First Ever Digital Agricultural Census 2024 was inaugurated by Prof. Ahsan Iqbal, Federal Minister of Planning, Development and Special Initiatives, Mr. Awais Manzur Sumra, Secretary, Ministry of Planning, Development and Special Initiatives and Mr. Muhammad Sarwar Gondal, Member (SS/RM) at federal level. On the same grounds, provincial ministers inaugurated the 7th Agricultural Census 2024 in their respective provinces. Some of the glimpses of inaugural ceremonies of the census are highlighted:















2.9 Listing and Enumeration at Same Time (Single Visit)

For hard areas as well as for some specific areas, where complete enumeration of agricultural households was required, it was decided that listing and enumeration will be completed at the same in one go. After listing, the enumerator was not required to revisit the enumeration area for enumeration purpose. These areas include:

- i. Gilgit Baltistan & Azad Jammu & Kashmir
- ii. Cholistan Area
- iii. Urban Blocks
- iv. NCH (Big Farmers, Preidentified)
- v. MCH (Big Farmers found during listing)
- vi. Only Machinery Households
- vii. Gypsy and Nomads

Listing and Enumeration at same time (single Visit) resulted in following benefits;



By combining both tasks in a single visit, eliminated the need for multiple trips to the same area, saving significantly on transportation and logistic costs, labour costs- including per diems, accommodation, and wages for field staff



Respondents were not contacted multiple times resulted in mutual cooperation, reduced respondent's fatigue, and controlled non-response chances



Data collection starts along with listing, reducing the lag time and risk of units moving, which lowers the missing respondents



Coordinating one visit was easier than managing two separate ones, especially in remote and hard-to-reach areas

PBS has developed in-House ERP Solution covering all aspect of digital integrated agricultural census.



ERP Software's

- Data Collection Software
- Administrative Modules
- Visualization Dashboards



Infrastructure

- Primary Sites
- Disaster Recovery Sites
- Backup Site



Connectivity

- Suitable Network SIMs
- Internet Devices
- Mobile Data and Wi-Fi Support



Hardware

- 10,000 Tablets & Accessories
- 156 Laptops, 156 Printers
- Barcode Scanner for Inventory



2.10 Data Center Services for Hosting of Services

The successful execution of the 7th Agriculture Census was underpinned by the deployment of robust and resilient Data Center Services, which played a critical role in hosting, managing, and securing the digital infrastructure required for this large-scale national operation. Recognizing the immense data processing and storage needs associated with modern census activities, the Pakistan Bureau of Statistics (PBS) established a state-of-the-art Tier-3 Data Center at its headquarters, the Statistics House in Islamabad. This facility was specifically designed to address the growing demand for digital transformation within the organization and to support increasingly complex requirements in the fields of data analytics, artificial intelligence (AI), machine learning, and big data processing.

The Tier-3 classification signifies adherence to international standards, offering 99.982% uptime with full redundancy for power, cooling, and network connectivity, ensuring the high availability, fault tolerance, and operational reliability necessary for mission-critical government functions. This level of infrastructure not only provided uninterrupted support during the Agriculture Census operations but also acted as a backbone for broader egovernance initiatives, centralized data integration, real-time dashboards, and informed policy-making. With multiple layers of security protocols and advanced firewall protections in place, the PBS Data Center ensured data confidentiality, integrity, and accessibility for authorized users throughout the census period.

During the conduct of the 7th Agriculture Census, the Data Center's hosting capabilities were instrumental in enabling smooth operation of all digital services, including the central server management of field-collected data, secure remote access for field officers and regional teams, and real

-time data synchronization from thousands of tablet devices deployed across the country. The infrastructure also incorporated a robust disaster recovery and business continuity mechanism, which safeguarded against unexpected failures or external threats, thereby minimizing the risk of data loss or service disruption.

Moreover, the hosting environment supported virtualization technologies and scalable cloud-based solutions, allowing PBS to dynamically allocate computing resources based on the census workload and traffic patterns. This flexibility ensured optimal performance even during peak data transmission hours. The centralized hosting services also facilitated centralized monitoring, troubleshooting, and technical support, enabling PBS to promptly address any IT-related challenges in the field.

In essence, the PBS Data Center served as the digital command center of the entire census operation, offering a secure, scalable, and resilient IT environment that was vital for the successful, accurate, and timely execution of the 7th Agriculture Census across Pakistan.





2.11 Development of Web Portals and Dashboards

In order to ensure, timely and maximum outreach of the data, field monitoring and update of important information, multiple cyber based developments have been carried out. These digital products are also developed by the PBS experts. The details are given below:

Mouza Census 2020 Dashboard

The Mouza Census is the initial part of the Agricultural Census, this was completed in 2020 under challenging conditions of Covid-19 pandemic. The primary objective of the Mouza Census-2020 is to provide updated frame for Agricultural Census. Apart from this it provides huge rural development statistics of all over the country.

On the basis of these rural development statistics, an interactive dashboard have been developed through which data and infographics may be observed from National, Provincial level to basic level of any Mouza of the country. Microdata to the Mouza level are also available. This already live on PBS website.



NCH Portal of Big Land and Livestock Holdings

As per methodology of Agricultural Census, the big land and livestock holders are necessarily enumerated. PBS has updated list of such big farmers or holders. Technically these holders are termed as National Certainty Holdings (NCH) in order to signify their mandatory counting during the census. However this list needs a continuous update because of various dynamics. An NCH portal has been developed, primarily for the purpose of updating list of NCH throughout the country.

Decision Support System

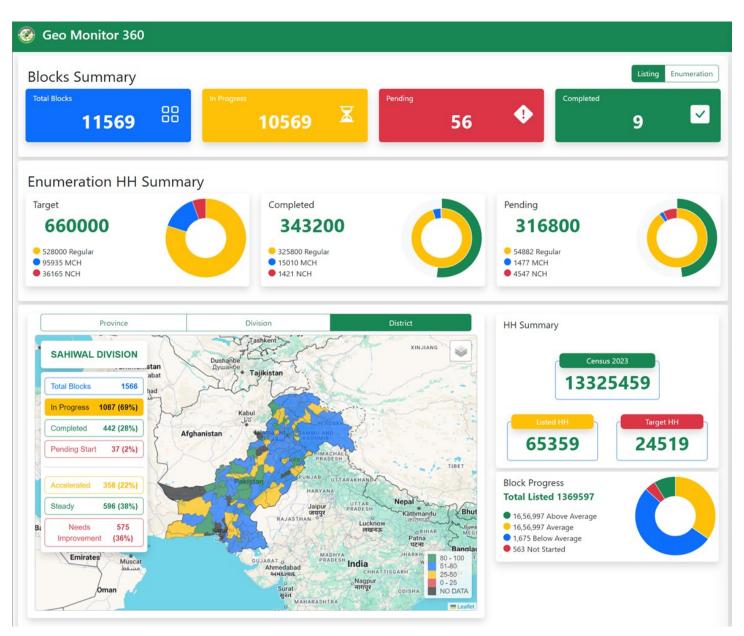
Dashboard on the basis of current Agricultural Census data have been developed utilizing statistics and infographics in order to get insights from 7th Agricultural census 2024. The Decision Support System developed from the 7th Agricultural Census 2024 will serve as a vital tool for evidence-based planning, policy formulation, and resource allocation in the agriculture and livestock sectors. By offering real-time access to key indicators—such as landholding patterns, crop distribution, irrigation sources, and livestock ownership—the dashboard enables planners, researchers, and government institutions to identify regional disparities, forecast trends, and design targeted interventions. This data-driven approach enhances transparency, improves service delivery, and ensures that national development initiatives are aligned with ground realities and the goals of sustainable agricultural growth.



2.11 Agricultural Census Monitoring Dashboard

Role Based Dashboard for District Focal Person, Divisional In charge, Provincial In charge and Higher Management to track progress and monitor the listing and enumeration.

- Listing Progress
- Enumeration progress
- Enumerator Tracking
- GIS Monitoring
- Quality Monitoring



Chapter 3 Sample Design

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3. SAMPLE DESIGN

3.1 Introduction

Pakistan Bureau of Statistics (PBS) successfully conducted 7th Agricultural Census 2024 "Integrated Digital Count" by merging three past censuses i.e. Agricultural Census, Livestock Census and Agricultural Machinery Census. three Previously, separate censuses on Agriculture, Livestock and Agricultural Machinery were conducted using separate methodologies, various sample designs, and at different timings. Pakistan has rich experience of carrying out separate agriculture related three censuses using a mixture of two methods i.e. complete and sample counts, for each of the census but with varying methodologies.

Pakistan Bureau of Statistics decided to cover the agricultural activities in one go using single effort of agricultural census under the same logistic operation instead of three separate censuses. For this purpose, a new sample design was the prerequisite. The FAO supported PBS by hiring the services of an International Sampling Expert to prepare the sample design for merged and 7th Agricultural Census of Pakistan. In the light of various discussions and online meetings between the PBS sampling team and FAO Sampling Consultant, the sample design for 7th Agricultural Census of Pakistan was developed in 2021. The new sample design is efficient as compared with previous designs that it targets only the agricultural households through stratification approach rather cluster approach. The stratification has been applied on the basis of land operators, livestock holders, and agricultural machinery owners while other households has been segregated being out of the scope of the census..

The universe of the census consists of all urban and rural areas of Pakistan. Results are representative at overall district level.



3.2 Sampling Frame

In order to prepare the sampling frame of Agricultural Census (AC), Mouza Census 2020 was conducted. Each mouza also contains Enumeration Blocks (EBs)/block; the mouza may consist of one or more than one block. After conduct of latest Population & Housing Census 2023, the updated information used in the frame of Agricultural Census. Therefore, the mapping of Mouza Census Frame 2020 and P&HC 2023 has been carried out. The latest information of EBs against each mouza of Mouza Census Frame has

Table 3.1: Mouza Census Frame 2020

	Name of Province	No. of Mouza	No of Blocks
1	Khyber Pakhtunkhwa	9,290	21,515
2	Punjab	22,637	53,426
3	Sindh	5,432	16,380
4	Balochistan	6,166	7,686
5	Islamabad	92	576
	Total-I	43,617	99,583
1	Azad Jammu & Kashmir	1,563	3,326
2	Gilgit-Baltistan	573	1,063
	Total-II	2,136	4,389
	Grand Total (I+II)	45,753	103,972

Table 3.2: Blocks with Agri. Information from Population & Housing Census-2023

	Name of Province	No. of Mouza	Blocks with Agricultural information
1	Khyber Pakhtunkhwa	3,885	2,655
2	Punjab	34,464	19,823
3	Sindh	24,253	15,161
4	Balochistan	2,596	1,428
5	Islamabad	833	485
	Total-I	66,031	39,552
1	Azad Jammu & Kashmir	693	329
2	Gilgit-Baltistan	174	104
	Total-II	867	433
	Grand Total (I+II)	66,898	39,985



been updated. Later on, Mouza Census Frame 2020 mapped with updated sampling frame of 7th Population and Housing Census 2023 for the 7th Agricultural Census 2024. The sampling frame consist of 45,753 mouzas and 103,972 blocks.

3.3 Sample Size Estimation

Sample size estimation has been carried out at district level using 15% Margin of Error at 95% confidence interval. The sample size of 7th Agricultural Census and Livestock Census in each district has been considered along with information of cultivated land and livestock concentration based on Mouza Census 2020. Initially, sample size of total 11,054 mouzas/blocks was estimated, however, later on, it was enhanced with the addition of 53 mouzas/blocks/Gawala colonies, as details below:

Table 3.3: Summary of Estimated Sample Size								
Name of Province	No of Mouza	No of Blocks	Total					
1 Khyber Pakhtunkhwa (KP)	1,999	179	2,178					
2 Punjab	3,624	879	4,503					
3 Sindh	1,474	767	2,241					
4 Balochistan	1,341	129	1,470					
5 Islamabad	27	25	52					
Total-I	8,465	1,979	10,444					
1 Azad Jammu & Kashmir	360	39	399					
2 Gilgit-Baltistan	212	28	240					
Total-II	572	67	639					
Grand Total (I+II)	9,037	2,046	11,083					

3.4 Stratification

Various stratification strategies have been adopted for the 7th Agricultural Census according to the ground realities in Pakistan. For stratification purpose, two main strata were identified, however, some other strata were also identified within the selected enumeration areas

a) National Certainty Holdings (NCH): these are national level big agricultural holdings or agricultural households (HHs) having at least 100 acres of agricultural land OR 50 cows / buffaloes c) or both OR 200 goats / sheep or both OR 25

camels. These HHs are enumerated on 100 % enumeration basis throughout the country. Complete enumeration of big holdings is an important strategy and part of sample design to control the variation for the 7th Agricultural Census.

- o) Other Holdings: the stratum of other than NCH agricultural households is comprised of less than limits of NCH holdings. These HHs are enumerated through sample selection of Mouzas / blocks and then households.
 - Mouza Certainty Holdings (MCH): is another stratum within the selected Mouzas / block. The



agricultural HHs having at least 20 acres of agricultural land OR 20 cows / buffaloes or both OR 50 goats / sheep or both OR 20 camels. These HHS are enumerated on 100 % count basis within the selected Mouza / block.

For selection of Mouzas and blocks in stratum (b), further stratification has been made out of rural and urban areas independently.

3.4.1 Stratification in Rural Areas

In sampling frame, rural Mouzas are classified into settled and unsettled areas. Two way classification has been developed based on agricultural information in each Mouza on the basis of Mouza Census Frame 2020.

- i. Cultivated land in the Mouza
- ii. Livestock concentration in the Mouza

In first way stratification, Mouzas without and with cultivated land are stratified as Z₁, and Z₂ respectively as shown in Table 3.4.

Table 3.4: Stratification of Rural Mouzas

labto	rabto of it offatilloation of marati rougas									
Area	Mouza Status	First Way								
Alea	Mouza Status	Stratification								
Settled and	Without cultivated land	Z1								
Unsettled	With cultivated land	Z2								

Livestock Concentration: Second way stratification is based on livestock concentration in stratum Z2 against each Mouza as per Mouza Census Frame 2020. Rural area frame in each district is stratified keeping in view the livestock concentration in each Mouza, according to the information about livestock category, collected in Mouza Census Frame 2020. Detailed stratification

is elaborated in Table 3.5.

Table 3.5: Categories on the Basis of Livestock

Types of Animals /	Category with Livestock Concentration					
Categories	1	2	3	4		
Cows/ Buffaloes	Nil	1-100	101-250	251 more		
Sheep/Goats	Nil	1-200	201-500	501 more		
Camels	Nil	1-25	26-100	101 more		

Mouzas classified with category code 1 present no livestock, Mouzas classified with category code 2 have animals between 1 and 25 heads of camels, OR between 1 and 100 heads of cows/buffaloes, OR between 1 and 200 sheep/goats and so on. Four strata are created as:

Stratum L1: Mouzas having at least one type of animals in category 4.

Stratum L2: Mouzas having no animal in category 4 but at least one type of animals in category 3.

Stratum L3: Mouzas that have neither category 4 nor category 3 but having at least one type of animals in category 2.

Stratum L4: Mouza without livestock as indicated category 1.

Strata L1, L2 and L3 are target livestock holders, also having auxiliary information regarding cultivated land whereas, L4 do not have livestock information but Mouzas have also be selected from this stratum as they are from Z2 having cultivated land. Proportional allocation has been used for number of Mouzas to be selected from each stratum. Stratification is devised considering the larger category for each Mouza as indicated at Table 3.6.



Table 3.6: Stratification of Rural Mouzas on the Basis of Livestock Concentration

Mouza (Village)	Cow/ Buffalo	Sheep/ Goat	Camel	Stratum classification
CHAK NO 039/12-L	4	2	1	"Max"=4 L1
CHAK NO 021/11-L	2	3	1	"Max"=3 L2
CHAK NO 037/12-L	4	4	1	"Max"=4 L1
CHAK NO 038/12-L	4	4	1	"Max"=4 L1
CHAK NO 040/12-L	2	2	1	"Max"=2 L3
CHAK NO 034/12-L	4	4	1	"Max"=4 L1
CHAK NO 041/12-L	4	4	1	"Max"=4 L1

3.4.2 Stratification in Urban Areas

The PHC 2023 provided an overall idea about the agricultural activities in urban as well as rural blocks. This information at block level is not only used to identify urban blocks having agriculture activities but also used for block selection from selected Mouzas in rural areas. Therefore, various strata were constituted using livestock rearing and self agriculture activities in urban areas.

Stratum 1: 1-9 livestock rearing households in a block.

Stratum 2: 10 and above livestock rearing households in a block.

Stratum 3: 1-9 households in a block reporting self agriculture.

Stratum 4: 10 and above households in a block reporting self agriculture.

Stratum 5: It includes blocks having absence of livestock from which no block was selected.

3.5 Allocation Plan

Sample of rural Mouzas has been proportionally allocated according to number of

Mouzas falling in strata Z1 and Z2 and afterwards within the Z2 according to each of the four stratum L1, L2, L3, and L4. The stratum 5 in urban areas has been allocated with zero blocks being absence of agricultural HHs while rest of the four strata i.e., St-1, St-2, St-3, and St-4 have been considered and sample blocks have been allocated by using power allocation using 0.5 alpha quotient.

3.6 Sample Design

3.6.1 First Stage Selection of Rural Mouzas and Urban Blocks:

Mouzas have been selected in the first stage by using various sampling techniques through proportional allocation for each stratum.

Mouzas in stratum Z₁ have been selected using Simple Random Sampling (SRS) in the first stage as these Mouzas have no cultivated land.

The remaining Mouzas having cultivated land greater than zero in stratum **Z2** have been selected using Pareto sampling technique with cultivated area as measure of size through PPS design.

Urban Blocks have also been selected using Simple Random Sampling (SRS) in the first stage and a single stage design have been proposed for urban areas being low agricultural activities. All the agricultural HHs have been enumerated in selected urban blocks.

3.6.2 Second Stage Selection of Blocks from Selected Big Rural Mouzas

From selected big size Mouzas having two or more blocks already identified through PHC



2023, a single block has been selected through Multivariate Probability Proportional to Size (MPPS) method using livestock rearing households and self agriculture households as measure of size with Systematic Random Sampling.

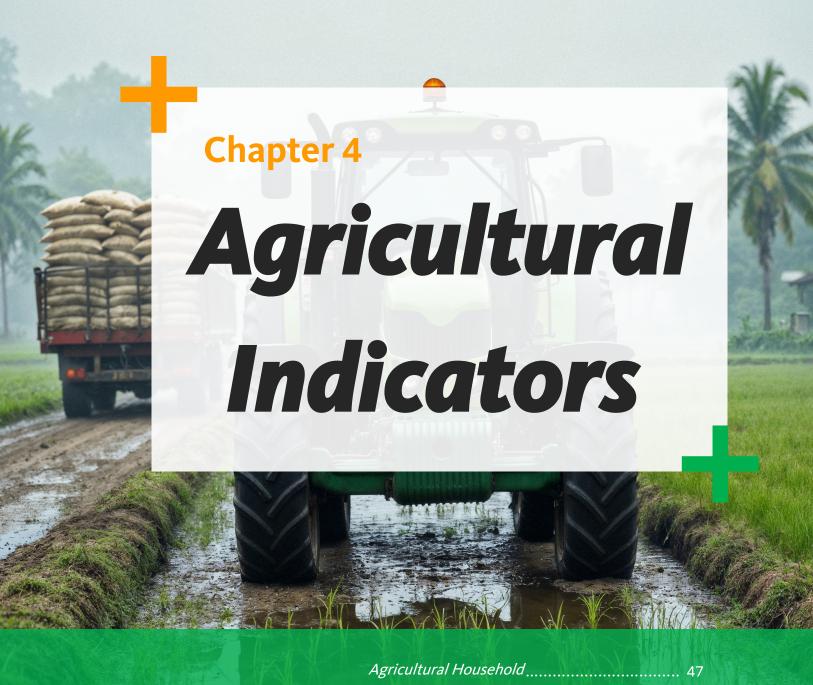
3.6.3 Third Stage Selection of Households from Selected Rural Mouzas and Blocks

Complete listing of all the households in selected Mouzas and / or Blocks has been prepared showing variables to be used for (HHs) selection at third stage viz HHs having agricultural land, livestock, and agricultural machinery. After completion of HHs lists in each Mouza or Block, following categories of HHs have been identified:

- i. Households under National Certainty Holdings (NCHs).
- ii. Households under Mouza Certainty Holdings (MCHs).

- iii. Households reporting agricultural land under occupation with or without livestock and agricultural machinery
- iv. Only livestock households with or without agricultural machinery.
- v. Households showing ownership of only agricultural machinery.
- vi. Nomads and Gypsy have been listed and enumerated at any stage of listing or enumeration, if found in the boundary of selected Mouza or Block.

The households in categories NCH, MCH, only agricultural machinery, and nomads/gypsy (i, ii, v, & vi) have been enumerated on 100 % count basis with certainty. However, certain number of HHs from categories iii & iv have been selected using Systematic Random Sampling for detailed interviews to get the data for development of estimates for various indicators.



	Agricultural Household	1 7
	Head of Agricultural Household	1 7
	Crop Land Holding Households	1 7
	Land Tenure Classification	18
	Cultivated Area	19
	Irrigation5	51
rigated A	Area by Type and Province (Acres) 5	53
	Cropped Area 5	55
	Major Crops Land Utilization	55
op's Shar	e in Cropped Area with Provinces	58

Major Cr



4. AGRICULTURAL INDICATORS

4.1 Agricultural Household

A rural or urban household who operate agricultural land or have livestock or agricultural machinery is considered as agricultural household (HH).

4.1.1 Head of Agricultural Household

Out of the 19,799,443 agricultural households, 98.5% (19,501,431) are male head of HHs, while 1.5% (298,012) are female heads. The distribution reflects a significant gender gap in agricultural household decision-making roles in the country.





4.1.2 Crop Land Holding Households

A total of 11,701,584 agricultural households, with members aged 10 years or above, possess or operate cropland.



4.1.3 Land Tenure Classification

In 2024, Pakistan had around 11.7 million total farms, significantly increase from 8.26 million in 2010. Most farms were owner-operated—about 10.38 million, compared to 6.74 million in 2010—indicating a strong shift toward farm ownership. Owner-cum-tenant farms declined to 0.55 million from 0.60 million, and tenant-only farms dropped to 0.77 million in 2024 from 0.91 million in 2010, showing a sharp reduction in tenancy-based farming. The data highlights a national trend toward land ownership and away from tenant farming.

Land Tenure Classification







10,386,504 Farm Holders

547,977 Owners cum

Tenant

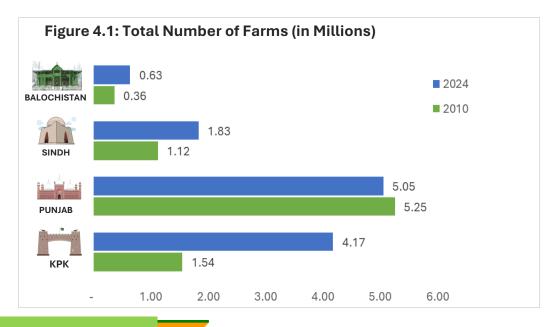
767,103 Tenants

. ,

Table 4.1: LAND TENURE CLASSIFICATION OF FARMS (No. of Farms in "000")										
ADMIN. UNIT	TO ⁻	ΓAL	OWN	ER	OWNE TEN		TEN	IANT		
YEARS	2024	2010	2024	2010	2024	2010	2024	2010		
PAKISTAN	11,702	8,264	10,386	6,744	548	604	767	916		
KPK	4,174	1,539	3,907	1,340	117	93	150	106		
PUNJAB	5,050	5,249	4,376	4,293	339	452	335	472		
SINDH	1,826	1,115	1,545	784	49	45	233	286		
BALOCHISTAN	633	359	542	296	43	14	49	50		
ICT	17	*	17	*	#	*	#	*		

^{*} ICT values included in Punjab Province in 2010

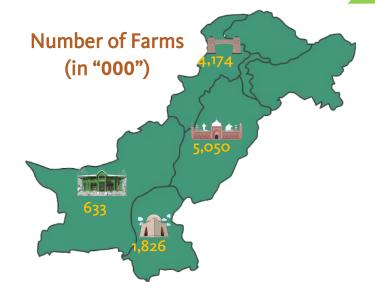
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Across provinces, Punjab had the highest number of farms (5.05 million), followed by KPK (4.17 million), Sindh (1.83 million), and Balochistan (0.63 million), with the majority in each province being owner-operated farms.

Even in Islamabad, nearly all of the 16,589 farms being owner operated.



4.1.4 Cultivated Area

The cultivated area of Pakistan refers to the land actively used for agricultural purposes, including crop production and livestock farming. The total cultivated area of Pakistan was reported to be 52,787,664 acres.

In 2024, the total number of farms across Pakistan was 11.7 million, showing an increase from 8.3 million in 2010. Along with increase in the total number of farms, the total farm area also increased,





rising from about 52.9 million acres in 2010 to 59.3 million acres in 2024.

Similarly, the total cultivated area has increased from around 42.6 million acres in 2010 to 52.8 million acres in 2024. On average, each farm in 2024 was about 5.1 acres in size, down from 6.4 acres in 2010. The average cultivated land per farm also decreased from 5.2 acres in 2010 to 4.5 acres in 2024, reflecting the same tend of average farm size.

Breaking it down by province, Punjab had the highest number of farms at about 5.05 million in 2024, with a farm area of 31.04 million acres and 29.6 million acres under cultivation. The average farm in Punjab was 6.1 acres, with 5.9 acres cultivated — showing high efficiency. Khyber Pakhtunkhwa followed with 4.17 million number of farms, but had a significant total farm area of 8.8 million acres, and 7.2 million acres of cultivated land area. The average farm size here was 2.1 acres, with 1.7 acres cultivated.

Balochistan, although having only 0.63 million farms, had the largest average farm size of 16.1 acres in 2024, slightly lower than 22.7 acres in 2010. However, only 12.2 acres per farm were cultivated, which may indicate challenges in bringing all land into productive use. Sindh had about 1.83 million farms, with an average size of 5.0 acres and 4.4 acres cultivated.

Finally, Islamabad had the smallest share with 17,000 farms. The average farm size is 3.2 acres in 2024, and cultivated area per farm is 2.8 acres.

Overall, data indicates a trend toward fewer but larger and more efficiently cultivated farms in Pakistan, with provincial differences varying agricultural land availability.

Table 4.2: Cultivated Area (in "000 acres")										
ADMIN UNIT	DMIN UNIT NUMBER OF FARMS		FARM AREA		CULTIVATED AREA		AVERAGE SIZE OF FARM			
	тот	TOTAL TOTAL TOTAL		TOTAL		ΓAL	AREA		CULTIVATED AREA	
Year	2024	2010	2024	2010	2024	2010	2024	2010	2024	2010
PAKISTAN	11,702	8,264	59,301	52,910	52,788	42,622	5.1	6.4	4.5	5.2
KPK	4,174	1,540	8,837	5,570	7,236	4,453	2.1	3.6	1.7	2.9
PUNJAB	5,050	5,217	31,040	29,248	29,645	26,974	6.1	5.6	5.9	5.1
SINDH	1,826	1,115	9,190	9,868	8,108	7,644	5	8.8	4.4	6.9
BALOCHISTAN	633	360	10,178	8,145	7,750	3,492	16.1	22.7	12.2	9.7
ICT	17	*	56	*	48	*	3.2	*	2.8	*

^{*} ICT values included in Punjab Province in 2010



Figure 4.2: Farm Area (in Millions)

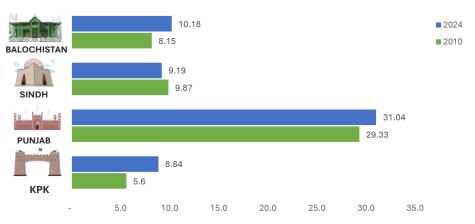
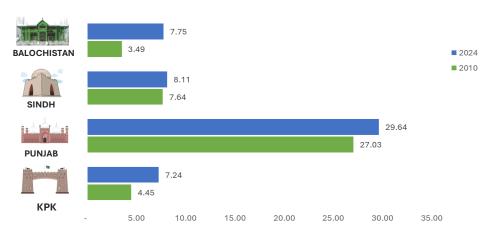


Figure 4.3: Cultivated Area (in Million)



4.1.5 Irrigation

Table 4.3: CULTIVATED AREA CLASSIFIED BY MODE OF IRRIGATION AND BY SIZE OF FARM (in "000 acres")

ADMIN UNIT		ultivated ea	Total Iri Are	0	Canal	Only	Canal, T		Tank/B On		- •	ing/ hi Only
YEARS	2024	2010	2024	2010	2024	2010	2024	2010	2024	2010	2024	2010
PAKISTAN	52,788	42,622	45,937	34,114	14,483	12,316	13,498	13,894	1,159	600	811	912
КРК	7,236	4,453	5,262	2,557	2,963	1,329	302	124	381	419	334	349
PUNJAB	29,645	26,974	27,092	22,264	4,019	4,200	12,036	12,959	140	42	263	129
SINDH	8,108	7,644	7,321	7,113	5,172	6,132	766	733	201	16	35	38
BALOCHISTAN	7,750	3,492	6,226	2,171	2,323	653	388	76	432	121	178	394
ICT	48	*	37	*	7	*	4	*	3	*	#	*

^{*} ICT values included in Punjab Province in 2010

[#] Vale less than 1000

Continued Table 4.3

ADMIN UNIT	Karae	z Only	-	nkle/ rip/ l Pivot	Un-Spe Source (Total I Irriga		Sala	ba	Bara	ni
YEARS	2024	2010	2024	2010	2024	2010	2024	2010	2024	2010	2024	2010
PAKISTAN	162	54	41	-	1,663	247	4,961	8,408	113	540	4,815	7,867
КРК	-	-	7	-	352	33	1,647	1,861	17	12	1,623	1,848
PUNJAB	-	-	25	-	626	39	1,934	4,750	9	30	1,918	4,720
SINDH	-	-	#	-	414	73	502	503	25	4	466	499
BALOCHISTAN	162	54	7	-	261	101	866	1,292	60	492	795	800
ICT	-	-	#	*	9	*	10	*	#	*	9	*

^{*} ICT values included in Punjab Province in 2010

In 2024, Pakistan's total irrigated area is 45.9 million acres out of total, 14.4 million acres was irrigated by canals, as compared to 12.3 million acres in 2010. A slight decrease was observed in combined irrigation methods (canals, tube wells, pumps) 13.5 million acres in 2024 in comparison to 13.9 million acres in 2010. Punjab has the largest irrigated area with 27.09 million acres in total, followed by Sindh with 7.3 million acres. Although in KPK and Balochistan areas are irrigated by canal but other sources are also used. Interestingly traditional methods like Rod Kohi and Karez are still functional in Balochistan.

Non-irrigated (rain-fed) farming saw a sharp decline to 4.9 million acres in 2024, from 8.4 million in 2010, reflecting a shift toward irrigated agriculture nationwide.

45,937,412 acres



4,961,636 acres



Non Irrigated land

\rrigated land

[#] Vale less than 1000



Irrigated Area by Type and Province (Acres)

Figure 4.4: Irrigation by Canal only by Province (in Million)

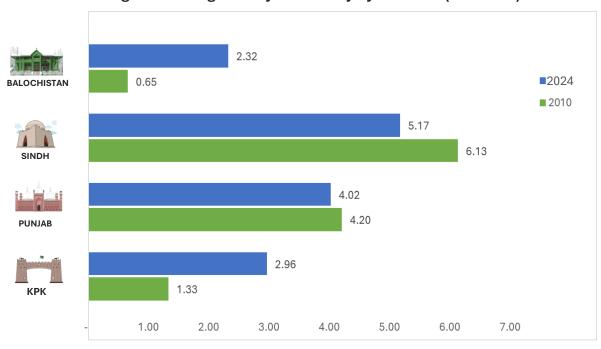


Figure 4.5: Irrigation by Tubewell only by Province (in Million)

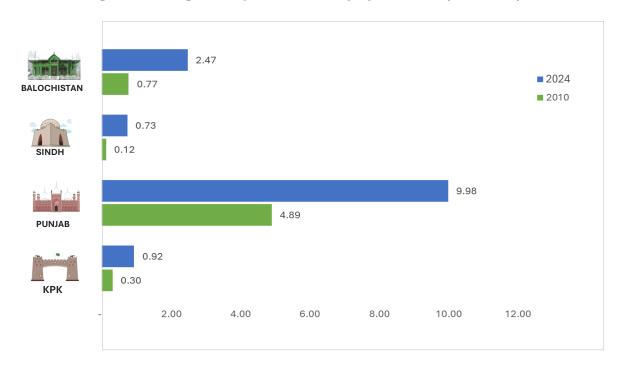




Figure 4.6: Irrigation by Canal, Tubewell & Pump by Province (in Million)

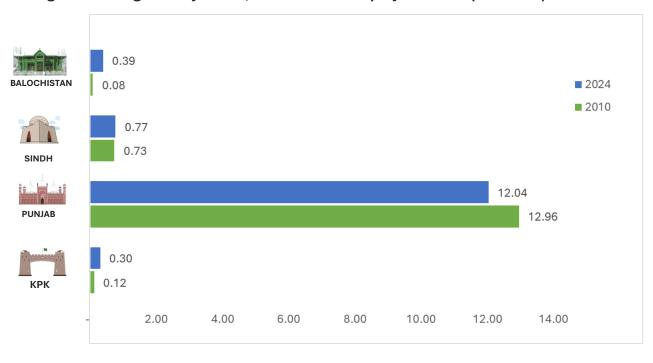
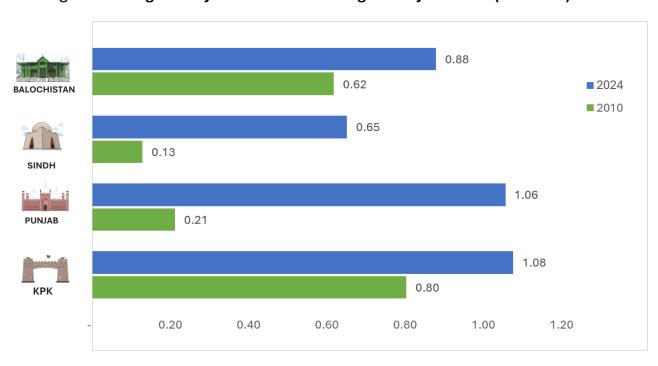


Figure 4.7: Irrigation by other sources of irrigation by Province (in Million)





4.1.6 Cropped Area

Pakistan's total cropped area increased significantly from 67.91 million Acre in 2010 to 82.8 million Acre in Census 2024, showing a growing confidence on agriculture sector. Among all major crops, share of Wheat cropped area remained the dominated crop share in country, with its contribution rising slightly from 42.0% to 43.3% in overall Pakistan.

Cropping area of Rice has been seen slight decline from 14.0% to 12.9%, while Maize increased from 4.0% to 5.1%. The Cotton share dropped sharply from 14.0% to 7.9%. Sugarcane share in cropped area has also been declined from 4.0% to 3.3%. The Fodder crop's share slightly increased from 9.0% to 9.5%, while the share of remaining other crops includes Jawar, Barley, Tobacco, Oil-Seeds, Pules and Orchards has also increased from 15.0% to 15.6%.

82,771,463 acres
Cropped Area



Major Crops Land Utilization



Wheat land usage slightly up from 42% in 2010 to 43.3% in 2024



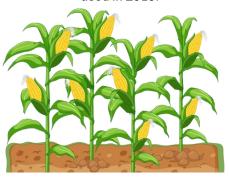
3.31% of the cropped area used for sugarcane in 2024 while 4% was used in 2010.



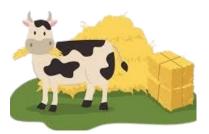
13% of the cropped area used for rice in 2024 while 14% was used in 2010.



Land used for cotton dropped from 14% in 2010 to 7.9% in 2024



5.1% of the cropped area used for the cultivation of Maize in 2024 while 4% was used in 2010



9.5% of the total cultivated area is being utilized for fodder production in 2024.



Punjab province contributes the highest share of cropped area in all provinces, expanded from 45.0 million Acre in 2010 to 49.7 million Acre in 2024. The Wheat continued to be the most leading share in cropped area, maintaining a stable share around 41.5%. Rice/ Paddy share of cultivation slightly decreased from 14.0% to 13.4% in 2024, while Maize showed a notable increase from just 1.0% to 4.3% in region. The Cotton's share in Punjab declined steeply from 15.0% to 7.7%, while Sugarcane share dropped from 4.0% to 3.7%. The Fodder share in crops increased from 11.0% to 13.4% and all Other crops are slightly increased in share of crops.

RP holds considerable increase in total cropped area from 6.9 million acre in 2010 to 10.5 million Acre in 2024. Wheat cultivation increased from 47.0% to 50.0%, remaining the province's dominant crop share. Rice share rose modestly from 3.0% to 4.3%. However, Maize cultivation share declined from 24.0% to 18.4%. The Cotton cropped area share remained negligible 0.001 million acre. Sugarcane crop share dropped significantly from 6.0% to 3.0%, while Fodder crop's share minutely decreased from 6.0% to 5.5%. The share of Other crops dropped slightly from 16.0% to 15.7%.

Sindh's total cropped area grew slightly from 12.4 million Acre in 2010 to 13.1 million Acre in 2024. Wheat cultivation increased from 38.0% to 40.8%. Rice continued to be a major cropped share in the province, increasing from 20.0% to 21.5%. Maize remained minimal, with area 0.001 million acre. Cotton remained significant despite

a sharp drop from 20.0% to 14.0%, while sugarcane cropped area declined from 5.0% to 3.9%. Fodder share has dropped from 4.0% to 2.7%, while the share of Other crops grew slightly from 13.0% to 15.3% in the province.

Balochistan showed the most significant increase in total cropped area from 3.6 million acre in 2010 to 9.4 million acre in 2024. The Wheat crop share remained dominant with share from 45.0% to 48.3% in 2024. However, Rice crop share shows a notable drop from 13.0% to 8.2%, and Maize share sharply declined from 2.0% to 0.3%. The Cotton crop share shows increasing trend from 1.0% to 9.0%. The Sugarcane crop share remained 0.2% in 2024. The Fodder's share remained stable at 3.0%, in 2024 while Other crops share showing declining from 35.0% in 2010 to 24.8% in 2024 in the province.



Table 4.4: SHARE OF MAJOR CROPS AREA IN TOTAL CROPPED AREA (%)

ADMIN UNIT	TOTAL CROPPED AREA (000) Acres		WH	WHEAT		RICE/ PADDY		MAIZE	
	2024	2010	2024	2010	2024	2010	2024	2010	
PAKISTAN	82,771	67,908	43.3	42.0	12.9	14.0	5.1	4.0	
КРК	10,502	6,937	50.0	47.0	4.3	3.0	18.4	24.0	
PUNJAB	49,720	45,046	41.5	41.0	13.4	14.0	4.3	1.0	
SINDH	13,103	12,353	40.8	38.0	21.5	20.0	0.6	#	
BALOCHISTAN	9,372	3,573	48.3	45.0	8.2	13.0	0.3	2.0	
ICT	74	*	55.4	*	6.9	*	10.8	*	

ADMIN UNIT	СОТ	TON	SUGAF	RCANE	FODI	DERS	OTHER C	ROPS
	2024	2010	2024	2010	2024	2010	2024	2010
PAKISTAN	7.9	14.0	3.3	4.0	9.5	9.0	15.6	15.0
КРК	#	#	3.0	6.0	5.5	6.0	15.7	16.0
PUNJAB	7.7	15.0	3.7	4.0	13.4	11.0	14.1	13.0
SINDH	14.0	20.0	3.9	5.0	2.7	4.0	15.3	13.0
BALOCHISTAN	9.0	1.0	0.2	#	3.0	3.0	24.8	35.0
ICT	0.4	*	0.7	*	3.3	*	14.4	*

^{*} ICT value is included in Punjab province in 2010 # Value less than 1 thousand



Major Crop's Share in Cropped Area with Provinces

Wheat

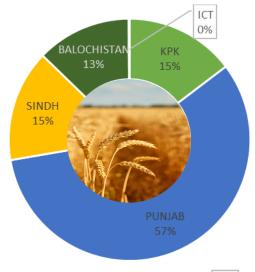
The regional contribution of Wheat crop in Pakistan for the year 2024 highlights. 57% in Punjab, 15% Sindh & Khyber Pakhtunkhwa and 13% in Balochistan and Islamabad Capital Territory negligible contributes in Agriculture Census 2024.

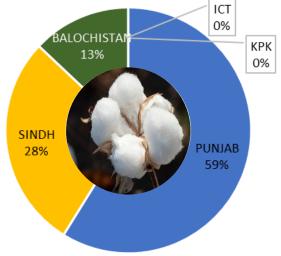
Cotton

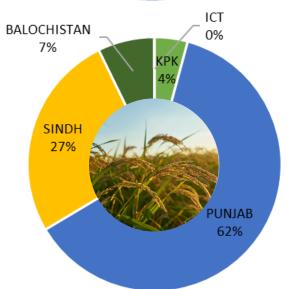
The regional contribution of Cotton crop in Pakistan for the year 2024 highlights. 59% in Punjab, 28% Sindh, 13% in Balochistan, Khyber Pakhtunkhwa & Islamabad Capital Territory negligible contribution in Agriculture Census 2024.

Rice

The regional contribution of Rice crop in Pakistan for the year 2024 highlights. 62% in Punjab, 27% Sindh, 4% in Khyber Pakhtunkhwa and 7% in Balochistan and Islamabad Capital Territory contributes negligible in Agriculture Census 2024.









Maize

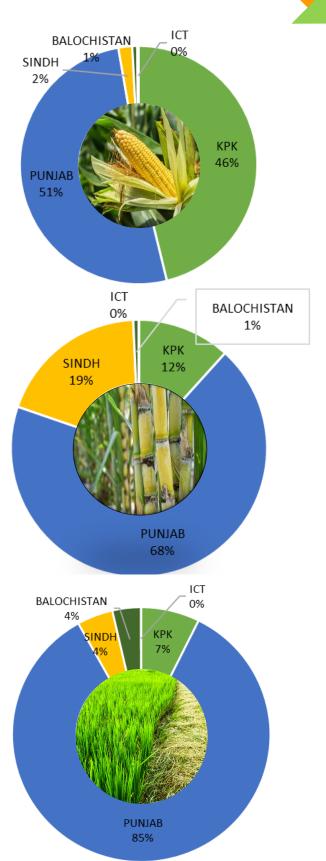
The regional contribution of Maize crop in Pakistan for the year 2024 highlights. 51% in Punjab, 2% Sindh, 46 in % in Khyber Pakhtunkhwa and Balochistan and Islamabad Capital Territory have minute contribution in Agriculture Census 2024

Sugarcane

The regional contribution of Sugarcane crop in Pakistan for the year 2024 highlights. 68% in Punjab, 19% Sindh, 12% in Khyber Pakhtunkhwa, Balochistan 1% and Islamabad Capital Territory contributes negligible in Agriculture Census 2024.

Fodder

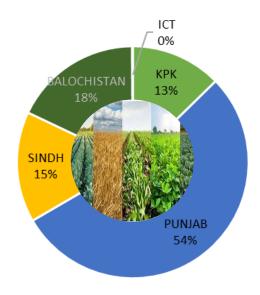
The regional contribution of Fodder crop in Pakistan for the year 2024 highlights. 85% in Punjab, 4% Sindh, 4% in Balochistan, 7% Khyber Pakhtunkhwa & Islamabad Capital Territory negligible contribution in Agriculture Census 2024.





Other Crops

The regional contribution of Other Crops includes (Jowar Tobacco, Barley, Oil Seeds, Pulses etc.) in Pakistan for the year 2024 highlights. 54% in Punjab, 15% Sindh, 18% in Balochistan, 13% Khyber Pakhtunkhwa in Agriculture Census 2024.





63	Livestock
65	Livestock Population Prevalence in Pakistan
69	Livestock Population in Punjab
71	Livestock Population in Sindh
73	Livestock Population in Khyber Pakhtunkhwa
74	Livestock Population in Balochistan



5.LIVESTOCK INDICATORS

5.1 Livestock Indicators

The figures below provides a view of animal populations across country 2024, covering cattle, buffaloes, sheep, goats, camels, horses, mules, and asses.

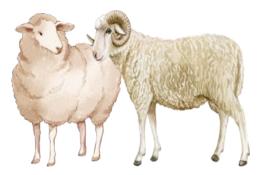


55,862,560

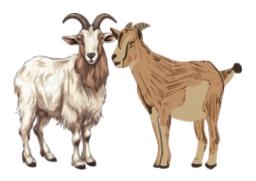


47,738,367





44,584,926



95,827,177



1,511,340



553,256



296,135



4,899,392



1,923



5.1.1 Livestock Population Prevalence in Pakistan

Table 5.1: Livestock Population 2024 Prevalence in Pakistan (In Millions)

Admin Unit	Cattle	Buffalo	Sheep	Goats	Camel
Pakistan	55.863	47.738	44.585	95.827	1.511
KPK	13.509	3.936	7.639	22.492	0.123
Punjab	26.968	29.561	13.385	31.309	0.252
Sindh	11.206	13.458	4.742	19.013	0.365
Balochistan	4.075	0.664	18.814	22.887	0.772
ICT	0.105	0.120	0.005	0.127	0.0038

Table 5.1: Livestock Population 2024 Prevalence in Pakistan (In Millions)

Admin Unit	Horses	Mules	Asses	Yak/ Zomo	Total Animals
Pakistan	0.553	0.297	4.899	0.002	251.3
KPK	0.176	0.088	0.782	0.002	48.7
Punjab	0.251	0.096	2.403		104.2
Sindh	0.052	0.035	1.081		49.9
Balochistan	0.073	0.079	0.630		47.9
ICT	0.001	0.00	0.004		0.36

In 2024, Pakistan's overall livestock population reached 251.3 million. Where Punjab province holds the largest share with 104 million animals, leading in Cattle, Buffaloes, Horses and Asses population in Pakistan. Balochistan province with 47.9 million total animals out of that 18.8 million sheep, 22.9 million Goats and 0.772 million Camels due to its arid terrain and pastoral landscape.

Khyber Pakhtunkhwa province report total 48.7 million animals' population with 22.492 million highest number of Goats and is the only region reporting 0.002 million Yak/Zomo/ Dzomo.



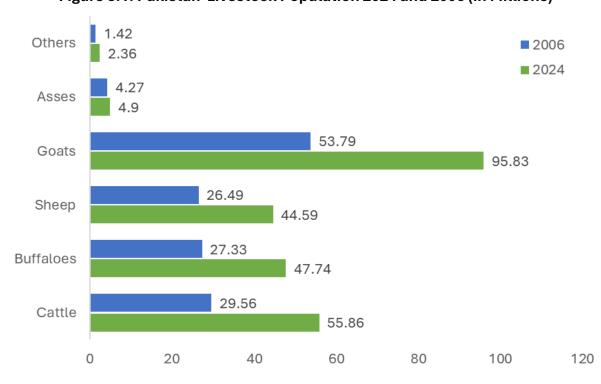
Sindh contributes 49.966 million animals, with vigor 13.458 million in Buffaloes and have 11.206 million Cattle, 19.013 million Goats and 4.742 million Sheep population and notable share of working animals 0.052 million Horses, 0.035 Mules and 1.081 million Asses as shown in table.

Islamabad Capital Territory is first time been reported separately earlier it was tagged with Punjab province has minimal livestock population and took-up less than 1% of the national total livestock population. The results pattern highlights the ecological and functional diversity of livestock across Pakistan's.

5.2: Pakistan: Livestock Population in 2006-2024 (in Million)

	Cattle	Buffaloes	Sheep	Goats	Camels	Horse	Mules	Asses	Yak/ Dzo/ Dzomo
2006	29.56	27.33	26.49	53.79	0.92	0.34	0.16	4.27	-
2024	55.86	47.74	44.59	95.83	1.51	0.55	0.3	4.9	0.002

Figure 5.1: Pakistan Livestock Population 2024 and 2006 (In Millions)



^{*} Others include Horses and Mules



Figure 5.2: Livestock (Cattle) Population Pakistan from 7th Agricultural Census 2024

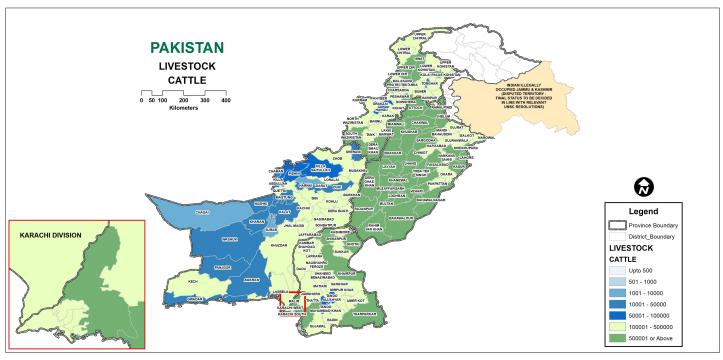


Figure 5.3: Livestock (Buffalo) Population Pakistan from 7th Agricultural Census 2024

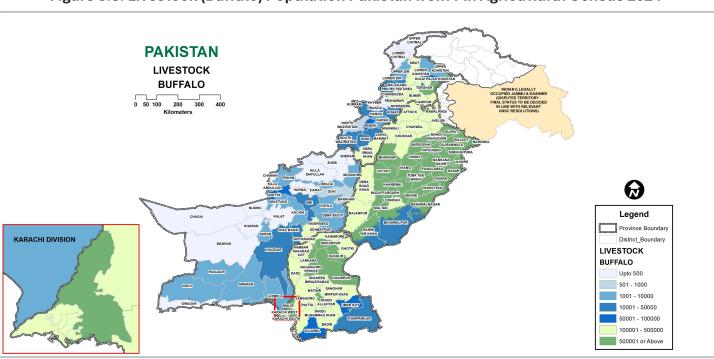




Figure 5.4: Livestock (Sheep) Population Pakistan from 7th Agricultural Census 2024

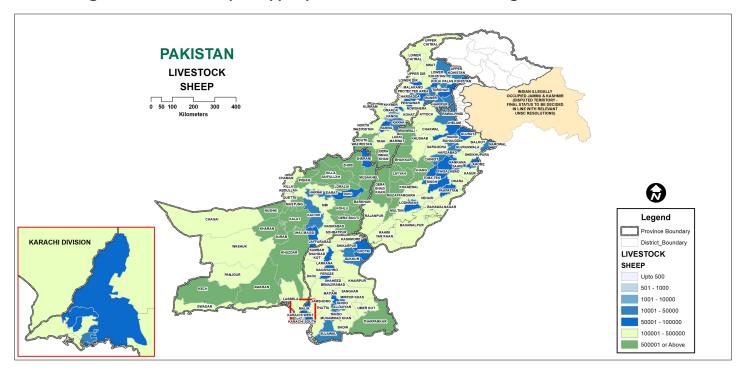
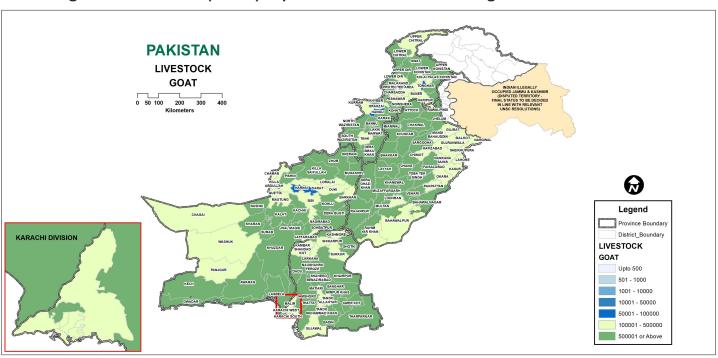


Figure 5.5: Livestock (Goats) Population Pakistan from 7th Agricultural Census 2024





Livestock Population in Punjab

The Punjab livestock for the year 2024 and 2006 is given in table below:

Table 5.3: Livestock Population in Punjab (In Millions)					
Livestock Punjab	2006	2024			
Cattle	14.412	26.968			
Buffaloes	17.747	29.561			
Sheep	6.362	13.385			
Goats	19.831	31.309			
Camels	0.199	0.252			
Asses	2.232	2.403			
Others*	0.226	0.347			

^{*} Others include Horses and Mules

Note: ICT values are covered in Punjab

Between 2006 and 2024, Punjab witnessed a significant increase in its livestock population, reaching approximately 104 million animals in 2024. This remarkable growth reaffirms Punjab's position as the leading province in Pakistan's livestock sector. The province has shown consistent progress in both dairy and meat-producing animals, owing to its fertile land, better infrastructure, and focus on integrated farming.

The Cattle population grew impressively from 14.4 million in 2006 to 27 million in 2024, reflecting an increase of over 87%. Similarly, Buffaloes, which are key to milk production in the region, increased from 17.7 million to 29.6 million during the same period. This rise is linked to improved breed management, veterinary services, and the increasing market demand for dairy products.



Small ruminants also exhibited strong growth trends. Sheep more than doubled, rising from 6.4 million to 13.4 million, while Goats climbed from 19.8 million to 31.3 million. These gains highlight the growing role of mixed crop-livestock systems and the adaptability of small ruminants to diverse farming conditions.

In addition to food-producing animals, draught and working animals saw steady growth. Horses increased from 0.163 million to 0.251 million, Mules from 0.063 million to 0.096 million, and Asses from 2.23 million to 2.40 million. These animals remain crucial in rural livelihoods, particularly in areas with limited mechanization.

Camels, though limited in number, rose slightly from 0.199 million to 0.252 million, reflecting their persistence in Punjab's drier southern and western zones. Overall, this growth reflects Punjab's intensive agriculture, high rural population density, and strong market linkages that continue to support and sustain livestock-based livelihoods.

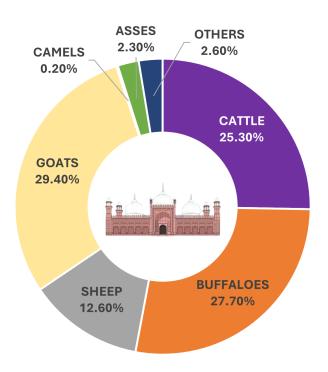


Figure 5.2: Punjab Livestock Population Proportion 2024

Note: ICT values are covered in Punjab



Livestock Population in Sindh

The Sindh livestock for the year 2024 and 2006 is given in table below:

Table 5.4: Livestock Population in Sindh (In Millions)

	, ,	
Livestock Sindh	2006	2024
Cattle	6.925	11.206
Buffaloes	7.340	13.458
Sheep	3.959	4.742
Goats	12.572	19.013
Camels	0.278	0.365
Asses	1.005	1.081
Others*	0.065	0.087

^{*} Others include Horses and Mules

Sindh province has shown steady growth in its livestock sector over the 18-year period from 2006 to 2024, reaching a total livestock population of over 49.9 million animals. This growth reflects the province's adaptive livestock practices under semi-arid and irrigated conditions, supported by access to the Indus River and the agro-pastoral traditions of rural communities.

The Cattle population increased from 6.93 million in 2006 to 11.2 million in 2024, while Buffaloes—an essential source of dairy in the region—rose significantly from 7.34 million to 13.46 million. These gains point to improved breed selection, access to water resources, and strong dairy market integration around urban hubs like Karachi and Hyderabad.

Among small ruminants, Goats exhibited robust growth, rising from 12.57 million to 19.01 million, consistent with the province's dryland herding systems and demand for goat meat during religious and cultural events. Sheep, however, grew modestly from 3.96 million to 4.74 million, suggesting a more localized role in Sindh's livestock economy, particularly in the Thar and desert regions.



Camel population increased from 0.278 million to 0.365 million, reflecting their importance in desert transportation and traditional livelihoods, especially in Tharparkar and surrounding districts.

In terms of working animals, Horses (0.052 million), Mules (0.035 million), and Asses (1.081 million) showed small but steady increases. These animals continue to play a role in local transport, especially in rural and peri-urban settings where mechanization is limited.

Overall, Sindh's livestock sector reflects a balance between traditional herding and modern dairy farming, supported by water access, urban market demand, and resilient pastoral systems.

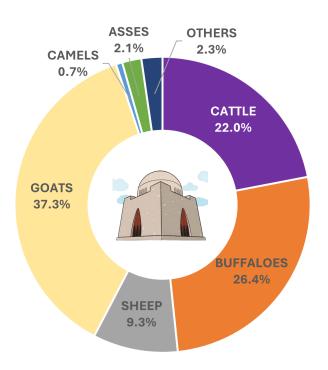


Figure 5.6: Sindh Livestock Population Proportion 2024



Livestock Population in Khyber Pakhtunkhwa

The KPK livestock for the year 2024 and 2006 is given in table below:

stock	2006	2024
Table 5.5: Livestock Po	pulation in Khyber Pakhtı	ınkhwa (In Millions)

Livestock	2006	2024
Cattle	5.968	13.509
Buffaloes	1.927	3.936
Sheep	3.363	7.639
Goats	9.599	22.492
Camels	0.064	0.123
Asses	0.560	0.782

0.143

Others*

Khyber Pakhtunkhwa's livestock population grew significantly from 2006 to 2024, reaching 48.7 million animals. Cattle increased from 5.97 to 13.51 million, and Buffaloes doubled from 1.93 to 3.94 million, reflecting improved dairy practices.

The province now holds the third largest number of Goats in the country, rising from 9.6 to 22.49 million, while Sheep more than doubled from 3.36 to 7.64 million, benefiting from the province's hilly and grazing-friendly terrain.

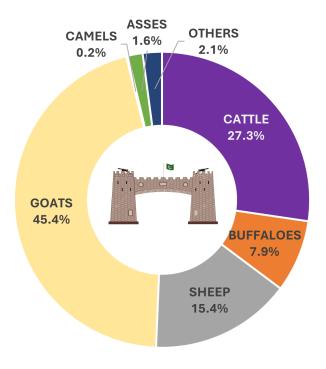
Working animals also saw steady growth: Horses, Mules, and Asses collectively increased, maintaining their importance in remote areas. Camels grew modestly, and Yak/Zomo (0.002 million) were reported exclusively from KPK, highlighting its high-altitude livestock diversity.

0.264

^{*} Others include Horses and Mules



Figure 5.7: Khyber Pakhtunkhwa Livestock Population Proportion 2024



Livestock Population in Balochistan

The Balochistan livestock for the year 2024 and 2006 is given in table below:

Table 5.6: Livestock Population in Balochistan (In Millions)									
Livestock	2006	2024							
Cattle	2.254	4.075							
Buffaloes	0.320	0.664							
Sheep	12.804	18.814							
Goats	11.785	22.887							
Camels	0.380	0.772							
Asses	0.472	0.630							
Others*	0.066	0.15							

^{*} Others include Horses and Mules



Balochistan's livestock population reached 47.9 million in 2024, showing steady growth across all animal categories. The province remains dominant in Sheep and Goats, which increased from 12.8 to 18.8 million and 11.8 to 22.9 million, respectively. This reflects its arid, pastoral landscape and reliance on extensive grazing systems.

Cattle grew from 2.25 to 4.08 million, and Buffaloes doubled from 0.32 to 0.66 million, indicating gradual shifts toward mixed farming in settled regions.

Camel population rose from 0.38 to 0.77 million, the highest in Pakistan, underlining their key role in desert transport and livelihoods.

Working animals such as Horses, Mules, and Asses also showed moderate growth, supporting rural mobility in the province's rugged terrain.

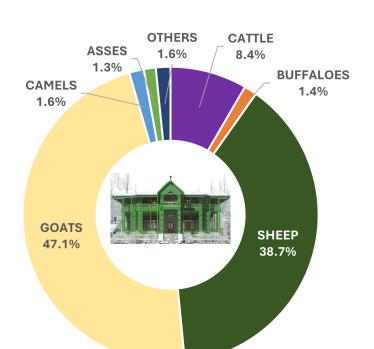


Figure 5.8: Balochistan Livestock Population Proportion 2024



ANNEX1: NUMBER AND AREA OF FARMS BY SIZE OF FARMS

(AREA IN ACRES)

								(.	AREA IN ACRES)
SIZE OF FARM	NUMBER C)F FARMS	FARM	AREA	CULTIVATE	ED AREA	CULTIVATED AREA AS % OF	AVERAGE	SIZE OF FARM
(ACRES)	TOTAL	PERCENT	TOTAL	PERCENT	TOTAL	PERCENT	FARM AREA	AREA	CULTIVATED AREA
1	2	3	4	5	6	7	8	9	10
PAKISTAN									
PRIVATE-FARMS TOTAL	11,701,584	100	59,300,6	96 100	52,787,6	64 100	89	5	5
UNDER 1.0	2,979,985		2,102,0		1,805,1			1	1
1.0 TO UNDER 2.5	4,044,180	35	8,245,4	45 14	7,684,3	65 15	93	2	2
2.5 TO UNDER 5.0	2,244,729	19	9,249,7	64 16	8,611,2	43 16	93	4	4
5.0 TO UNDER 7.5	1,144,045	10	9,352,9	93 16	8,569,0	75 16	92	8	8
7.5 TO UNDER 12.5	782,928	7	11,872,2	78 20	10,621,8	87 20	90	15	14
12.5 TO UNDER 25.0	357,145	3	9,382,2	19 16	8,160,1	38 16	87	26	23
25.0 TO UNDER 50.0	98,680	1	3,332,0	51 6	2,885,0	98 6	87	34	29
50.0 TO UNDER 100.0	32,934	0	2,114,1	11 4	1,786,0	60 3	85	64	54
100.0 AND ABOVE	16,958	0	3,649,7	43 6	2,664,6	19 5	73	215	157
MINDERDAMITTIANIA NAVA									
KHYBERPAKHTUNKHWA PRIVATE-FARMS TOTAL	4 174 406	100	0 026 7	E1 100	7 226 2	20 100	0.0	2	2
UNDER 1.0	4,174,496		8,836,7		7,236,3			2	2
1.0 TO UNDER 2.5	1,731,535 1,407,447		1,229,9 2,252,1		1,020,9 1,982,0			1 2	1 1
2.5 TO UNDER 5.0	776,705		1,774,7		1,484,0			2	2
5.0 TO UNDER 7.5	129,333		1,123,2		876,6			9	7
7.5 TO UNDER 12.5	93,170		1,187,7		935,4			13	10
12.5 TO UNDER 25.0	27,730		820,2		634,0			30	23
25.0 TO UNDER 50.0	5,378		185,2		113,9			35	21
50.0 TO UNDER 100.0	2,550		154,6		105,0			61	41
100.0 AND ABOVE	648		108,7		84,2			168	130
PUNJAB									
PRIVATE-FARMS TOTAL	5,050,236		31,039,9		29,644,8			6	6
UNDER 1.0	1,141,007		825,3		745,1			1	1
1.0 TO UNDER 2.5	1,689,757		4,062,5		3,960,9			2	2
2.5 TO UNDER 5.0	948,710		5,107,6		4,968,1			5	5
5.0 TO UNDER 7.5	566,150		5,143,4		4,973,7			9	9
7.5 TO UNDER 12.5	408,086		6,128,5		5,868,8			15	14
12.5 TO UNDER 25.0	206,059		4,927,1		4,618,6			24	22
25.0 TO UNDER 50.0	64,114		2,162,8		2,029,5			34	32
50.0 TO UNDER 100.0	18,612		1,212,8		1,143,4			65	61
100.0 AND ABOVE	7,742	0	1,469,4	41 5	1,336,3	29 5	91	190	173



NUMBER AND AREA OF FARMS BY SIZE OF FARMS

(AREA IN ACRES)

	NUMBER C)F FARMS	FARM	1 AREA	CULTIVAT	FD ARFA	CULTIVATED		SIZE OF FARM
SIZE OF FARM (ACRES)		CIVILIVIS	173111		SSERVAL		AREA AS % OF		CULTIVATED
(ACRES)	TOTAL	PERCENT	TOTAL	PERCENT	TOTAL	PERCENT	FARM AREA	AREA	AREA
1	2	3	4	5	6	7	8	9	10
SINDH									
PRIVATE-FARMS TOTAL	1,826,420	100	9,190,4	182 100	8,108,2	200 100	88	5	4
UNDER 1.0	57,824	3	25,2	239 0	22,9	940 0	91	0	0
1.0 TO UNDER 2.5	729,086	40	1,173,2	281 13	1,139,7	786 14	97	2	2
2.5 TO UNDER 5.0	405,834	22	1,322,1	176 14	1,271,1	143 16	96	3	3
5.0 TO UNDER 7.5	344,300	19	1,522,4	103 17	1,454,0	35 18	96	4	4
7.5 TO UNDER 12.5	193,668	11	1,711,1	175 19	1,539,8	397 19	90	9	8
12.5 TO UNDER 25.0	69,686	4	1,272,5	502 14	1,123,8	389 14	88	18	16
25.0 TO UNDER 50.0	15,318	1	498,3	354 5	409,1	122 5	82	33	27
50.0 TO UNDER 100.0	5,409	0	334,5	522 4	286,9	906 4	86	62	53
100.0 AND ABOVE	5,295	0	1,330,8	331 15	860,4	183 11	65	251	163
BALOCHISTAN									
PRIVATE-FARMS TOTAL	633,307	100	10,177,9	960 100	7,750,2	215 100	76	16	12
UNDER 1.0	38,717		10,177,5		7,750,2 12,9			0	0
1.0 TO UNDER 2.5	215,024		752,3		597,5			4	3
2.5 TO UNDER 5.0	112,194		1,040,0		883,4			9	8
5.0 TO UNDER 7.5	103,560		1,558,8		1,260,0			15	12
7.5 TO UNDER 12.5	87,395		2,838,1		2,271,1			33	26
12.5 TO UNDER 25.0	53,326		2,356,3		1,778,0			44	33
25.0 TO UNDER 50.0	13,636	2	477,0	010 5	325,0		68	35	24
50.0 TO UNDER 100.0	6,273	1	406,5	537 4	246,2	286 3	61	65	39
100.0 AND ABOVE	3,182	1	731,4	140 7	375,6	554 5	51	230	118
ISLAMABAD CAPITAL TERRITORY									
PRIVATE-FARMS TOTAL	17,125	100	55,5	31 100	48,0	56 100	87	3	3
UNDER 1.0	10,902	64	4,2	287 8	3,2	267 7	76	0	0
1.0 TO UNDER 2.5	2,866	17	5,0	041 9	4,0)72 9	81	2	1
2.5 TO UNDER 5.0	1,286	8	5,0	049 9	4,4	156 9	88	4	4
5.0 TO UNDER 7.5	701		5,0	9 9	4,5	552 10	89	7	7
7.5 TO UNDER 12.5	609	4	·	530 12	•	192 14		11	11
12.5 TO UNDER 25.0	345			082 11	•	184 11		18	16
25.0 TO UNDER 50.0	234			515 15	•	141 16		36	32
50.0 TO UNDER 100.0	90		·	529 10	•	382 9		61	49
100.0 AND ABOVE	92	1	9,3	304 17	7,9	909 17	85	102	86



ANNEX 2: AGRICULTURAL CENSUS 2024 QUESTIONNAIRE

FORM-2 Questionnaire for Agricultural Household



Confidential GOVERNMENT OF PAKISTAN PAKISTAN BUREAU OF STATISTICS

Part- 1	IDENTIFICATION	ON & BA	SIC INFO	ORMATIO	N	•			
1. District		2. Tehsil/Tal		J. (110	-	3. Tehsil/Taluka	Code	T	
4. Kanungo Circle/		5. Patwar Ci				6. Selected Mou:			
Supervising Tapa		Tapa	1016/			Code	Za/ Diock		
7. Name of selected						8. Serial No. of s			
Mouza/Block 9. Name of head of hous	ahald					household (For	m-1 Col .23) . Contact no/Pl	2000 001	
with father's name & ca	I					10	. Contact no/Pi	ione no:	
11. Gender of head of the	Ι΄,	① Male ②	Female	12. Househo	old	① NCH ②	MCH 3 Go	vt 4 Oth	ners
13. Operational Status	1 11 11 1		Tomalo	category:					
of the household	1 Individual Farming	2 Joint fa	arming	No Cultiva	ation	14. If answer of 0 number of house		arming the	
Part- 2	AGRICULTURA	L LAND	DETAILS	3		<u>'</u>			
Details of agricultural land				ultural land	Land	d in this mouza	Land in o	other mouz	zas
(Including cultivated & un		No	Acre	Kanal	Acre		Acre Ka		strict
, ,	,	$+$ \Box \dagger		1		2		3	
Total owned area by the state of the st		\perp \sqcup \downarrow							
Owned area given to c share cropping, lease or		·, \square							
Balance of owned area									
Area taken on share co	, ,								
possession									
5. Area taken on contract	t or rent or lease basis								
under possession 6. Any other area under p	nossession but not	+ = +							
included above	possession but not								
7. Total area (cultivated									
8. Number of fragments of		and uncultiv	vated)						
under possession (Q.7,	col.1)								
NOTE: If the answer of C	Q.7 is "No" then skip Pa	art-3 to Part-	6 and go to	Part-7 of the	questio	nnaire.			
	LAND USE								
Detail of land	•	Acre	Kanal			of land use during	g	Acre	Kanal
the current 1. Area sown during current				5 011 111		current crop year			
(net sown area including o	orchard area)			5. Other culti	vable wa	aste area			
Area remained fallow in c year but was cultivated for				6. Wood land	l area (fa	arm forest)			
once during previous crop					,	<u> </u>			
3. Total cultivated area	(1+2)					ncluding area under el, eroded by rivers/s			
o. Total cultivated area	(1.2)					able for cultivation	oca ana		
Cultivable waste area due logging and salinity	e to water			8. Total unc	ultivated	d area (4+5+6+7)			
	IRRIGATION								1
Detail of irrigated and un		e .	1	Detail of it	rrigated	and unirrigated are	a during the		
	crop year	Acre	Kanal			urrent crop year		Acre	Kanal
Area irrigated by canal or				8. Area irriga	ated by o	ther sources			
Area irrigated by canal as tubewell / pump (mixed irri				9. Total irrig	jated are	ea (1+2+3+4+5+6+7-	+8)		
Area irrigated by tubewel	· /			10. Out of to is flooded	,	gated area how mucl	า		
Area irrigated by ponds of (bandat) or rivulet only	or small dams				tal unirri	gated area how much	ı		
Area irrigated by spring or	or hill ravines only			12. Cultivate	d area h	aving irrigation facilit e reason(s) in the cur			
6. Area irrigated by karez or	nly			13. Total un	irrigated	d area (10+11+12)			
7. Area irrigated by modern (Sprinkle / Drip / Centre Pi									



Part	- 5	0	RCH	ARD	ARE	A, FRL	JIT & NO	N FRU	IT TR	EES						
1. Is there any	orch	nard area	under	your po:		on?	No	2. If C)-1 is " \	Yes" the	n repor	t the orcha	ard ar	ea below:		
3. Total orcha	rd Ar	ea		Acre _		Kan		4. Ord	chard Iri	rigated a	area	Ac	re		Kar	nal
5. Are there a	ny sc	attered fr	uit tree	s in the	area u	nder you	r possessio	n?		① Ye	s	(2)	No			
6. If answer to	Q- 1	or 5 is "\	es" the	en write	below	fruit nam	e and code	, the num	ber of fi	ruit trees	s accord	ding to the	type	and age.		
Note: In case	of Gr	apes and E	Banana	write are				1,,								
Fruit tre	e nar	ne	Code	<u> </u>		mber of fr			umber o trees o		Number trees of	of non-				Codes for Q-6
1	ı		No.	In ord	chard	Scatter 4		otal 5	bearing a	age	bearin	y aye	01. Ma 02. Gu	-		Papaya Cherry
				<u> </u>)	-		5				-	03. Da	ites ilta/Mosami	19.	
														no/Fruiter		Loquat Mulberry
												1	06. Lei	mon veet Lime		Percimen Almond
													07. Sw 08. Ap			Walnut
												1	09. Plu 10. Pe			Olive Shereefa
													11. Po	megranate		Falsa
				Ar	ea								12. Ap 13. Pe		28. 29	Fig Other fruit tree
0			20	Acres	Kanal								14. Jai	mun	30.	Grapes
Gra	_		30	+									15. Lite 16. Ch		31.	Banana
Ban 7. Are there a		n fruit tro	31	ho area	undor	vour pos	ecceion?									
If the answer	-							ne type	1	① Ye	S	2	No			
Type of tre	e	Shesh	um	Kik	ar	Nim, Dr	' I (.IFI	us/Sarian	s	imbal		Poplar,		ine species (Chir, Parrtal,	С	ther Non-Fruit
ļ		1		2		Baka 3		4		5	+-	uclyptus 6	+	Kele, Dwedar) 7	+	trees 8
Numbers of t	ree															
Part	- 6		CRO	PS IN	THE	CURF	RENT YE	AR								
1. How much	area	covered	with Tu	unnel Fa	arming	Green H	louse Techr	nology in	ast 12 ľ	Months?) (1) Yes		② No)	
If answer is	"Yes	" then wri	te the a	area Ac	re		Kanal									
	2. [Did you so	w any	crop du	ring cu	rrent "Ra	ıbi"?			3. Did	you so	w any cro	p duri	ing current	"Kh	arif"?
Rabi		① Ye	es	2	No				arif	1) Yes	3) N	10		
Crops		nswer is "Y nber and a						Cr	ops					the name, o		to Part 7
Crop Name	Hull	Total Cı		•	TI, Ollie	Irrigate		Crop	Name			op Area	30WII		_	d Area
& Code		Acre	Ka	anal	Å	Acre	Kanal	<u>&</u> (ode	Ac	re	Kanal		Acre		Kanal
1			2			3)		1			2			3	
Total Rabi Crops									Kharif ops							
Rabi Crop	s &	Codes 1	for Q-	2				Kha	rif Cro	ps & (Codes	for Q-3	3			
01. Wheat			'. Soya			16. Othe			ice Bas	mati		Moong				f tomatoes
02. Barley 03. Gram			8. Castr 9. Toba	o Seed		Vegetabl 17. Rabi			ice Irri ice othe	ar.		Mash Other Kha	arif	67. N Melo		n, Water-
04. Rabi Maiz	ze for			Virginia	a)	18. Strav		varie		51		ses	arii			arma, etc.
grain 05. Sunflowe	r		Rabi p. Peas .	ootatoes	;	19. Rabi (Oats, Ba	Fodders	54. K	harif Ma	aize for		Sesamum		68. G		ara f Fodders
06. Mustard,			. reas 2. Suga			Lucerne,			ugarcar	ne		Other Kha				awar, Bajra,
Canola,	iro o	13	B. Toma L. Onior	atoes		20. Othe	r Rabi Crop		otton	aira for	See	ed Kharif Pot	totoor	etc.))thai	· Kharif
Raya, Taram	па, В		i. Onloi 5. Bamb					grain	awar, B	aji a 101		Chillies	aioes	Crop	s	
														71. C Vege		· Kharif
														vege	iaul	53



Part- 7	OV	WNERSHIP AND	USE	OF AGE	RICU	LTU	RAL	MA	CHIN	ERY				
1. Did you u	ise tract	or, bullocks (or oth	er anir	nals) or l	ooth	durin	g last	: 12	month	ıs? (N	1arke	ed rele	evan	t box)
① Only tract	tor ②	Only bullocks or othe	er anima	ıls ③	Tract	or and	bulloc	ks et	tc. 4	No	ne	If Q1=	2 or 4	4, skip to Q.10
2. Do you ow	n a tract	or or use on rent?	① (owned	② F	Rent	(3 Bc	th If	Q2=2 ,	, skip	to Q.9)	
3. Number of	owned Tra	actors (workable condi	ition)	Numb	ers:									
4.Name of tra	actor ?	5. Model of tracter?		6.Tract		lorse	1		of Owne vidual t	ership				nt out your tractor ng last 12 months?
(Listed on pag	e.7)	(Listed on page.7)		(Listed	on pa	age.7)	3	Coo	perative	!		① Y	'es	② No
							-							
9. Mark from	listed be	elow works, for which	h tracto	r used du	ring l	ast 12	mon	ths:	(N	lore th	nan d	ne op	ions	are possible)
🛭 Land Repair & leve	ling	■ Crop sowing	☐ Hoe	ing	1	ertilize eading	r		E Crop	thres	hing		- 1	Used trolly for griculture purpose
© Ploughing		☐ Crop spraying	Ⅲ Ban	d making	шс	rop cu	tting				oump		- 1	Other vork(specify)
10.Do you ow	n Tubewel	ll or use on rent?	① (Own ②	Rent	3 B	oth	4 1	None			If Q1	0=2 o	or 4, skip to Q.17
11. Number of	f Tubewel	I/Pumps owned (worka	ıble con	dition)		Num	ber:			_				
12: Types of tu	ubewell		13. O	perating Po	wer:		14. El Moto Powe	r/En	c gine Ho			ype of ership:	un	Depth of derground water feet):
Centrifugal Tu	bewell	Turbine Tubewell	Electr	icity	Die	sel	Horse F	Dower			Indivi	dual	Ī	Feet(s)
Submersible P	ump	Pump Installed on Well	Solar		Pet	rol	TIOI3E F	Owei		<u> </u>	Joint			
Lift Pump			Other								Соор	erative		
			(speci	fy)		_								
17. Please indi	icate agric	ultural machinery and	impleme	ents used o	during	last 12	2 mont	ths:	(List a	t Page	No.8)		
									Rent			-		
Name of r	nachine	and implements		Code					mber)			Ov	vned	(Number)
	1			2					3					4
Part-8	3 (Cattle, Buffalo	es											
Cattle: 1- Do	oes this	household possess	any ca	attle?	① Ye	es ②	No							
If "Yes" the	n write r	number of animals	in rele	vant bre	ed co	lumn	, If "N	Vo"	skip to	Q. 13	3.			
				Total	W	rite be	low br	eed	name &		and n	umber	of	Cattle breeds and
] 7	Type of C	attle Animals	-	Animals				-	animal				10	their codes 01.Sahiwal
Breed names	s and cod	ρ ■		1	2	3	4	5	6	7	8	9	10	02.Red Sindhi
Breed Harries		years and above for breed	ling	,										03.Thari
Bullocks	only													04.Bhag Nari 05.Rojhan
		ullocks 3 years and above	:											06.Dhanni
		years and above in milk												07.Kankrej
Cows		vs 3 years and above												08.Lohani 09.Achai
		years and above not yet o	calved											10.Gabrali
Youngstock		attle under 1 year attle1 year and above but	locc											11.Wilayti
Male	than 3 ye		1633											12.Cross Breed 13.Cholistani
Youngstock	9. Female												14.Dajal	
Female	10.Femal less than	out											15.Haryana	
11. Total cattle												16.Balochistan 17.Nari Master		
42 T-: 11"		+6+7+8+9+10)	- 10s - 3											18.Others
12. Total daily (morning+eve		ow(s) reported in Q.4.(i I hours	n liters)											(Specify)



	Type of Bu	ffalo An	imals						Total nimal	s	Nilli R	avi		ndi	AzaKha	ali	Others (Specify)
Buffalo	14. Buffalo bulls 3	3 years &	abov	e for	bree	ding o	only		1		2			3	4		5
Bulls	15. Other buffalo	-					<u> </u>										
	16. Buffaloes 3 ye	ears and	above	in m	ilk												
Buffaloes	17. Dry buffaloes	3 years a	and at	oove													
	18. Buffaloes 3 ye	-			et c	alved											
	19. Male buffaloe																
Youngstock Male	20. Male buffaloe				but	less th	nan 3										
Youngstock	21. Female buffa	loes unde	er 1 ye	ear													
Female	22. Female buffa	loes 1 yea	ar and	abov	/e bu	ut less	than										
 23. Total buffa	3 years iloes (male, female	& young	stock))													
	(14+15+16+17+1	8+19+20+2	1+22)		c /·	10.											
	y milk of buffalo(ening) in 24 hour		ted ir	1 Q.1	6. (ı	n litei	rs)										
Part-9	Sheep,	Goats															
Sheep: 1 Do	es this househo	old poss es" then						Yes			If "N	o" ski	in to () 6			
Type of Shee		Total						& code					_		d and the	ir cod	les
Dunnal Name		1	2	3	Ε.	4	5	6	7	8	9	10	01	_ohi	12.Hashtn	ngari	23.Kairi
Breed Name a					\vdash								02.	Cajli Fhalli	13.Balk	hi	24.Madak Lashti
above	. ,												04.	Buchi	15.Rakhs	hani	25.Ramghar 26.Ariri/ Kutta
Female she above	eep 1 year and												06.	Becanery Harrnai	16.Koka 17.Kach		27.Terahi 28.Ghalji
4. Youngstoc	k under 1 year												08.	3alochi 3ibrik	18.Kail 19.Mun		29.Mazai 30.Quraqul
5.Total Sheer														Damani Waziri	20.Salt R 21.Sipli		31.Dumbhi 32.Machani 33.Other
	ingstock) (2+3+4)												11.	Awasi	22.Khad	aali	(Specify)
Goats: 6. Th	nis household po If "Yes	ossess a	, ,						ıt col.,	If "No	o" skip	to Par	t 10.				
Type of Goat	Animals		Tot	al	Writ	e belov	w Bree	d name	& cod	e and	numbe	r of ani	mals	C4.1			
			1		2	3	4	5	6	7	8	9	10	Goat	oreeas a	and th	neir code
Breed Name a	nd code		7														
7. Male goa	ts 1 year and ab	oove												01.Te	ddy	11.L	.ehrri
8. Female go	oats 1 year and	above												02.Be	•		Chaparr
in-milk in hu													03.Ka	mori		Nukri Makhi	
9. Female go in-milk	oats 1 year and	above												04.Ka	_	Chir	
	ale goats 1 year	and												05.Da			Jattal
above	.	+	\perp										06.De			Khurasan Surgalai	
11. Female above and o												Din Pa 07.Na			Guddi		
12. Youngst												08.Jat			Angora		
	·	41												09.Ba			hari Others
13. Total Goat Youngstock)	s (Male, Female& (7+8+9+10+11+12)													10.Pa			cify)
4.4. Takal aladi	nilk of goats reported													`'	••		



Part- 10	Camels	, Horses	, Mul	es & A	Asses										
Camels- 1. Does this	househ	old posse	ess any	/ came	el? ①	Yes (② No	If "Yes" t	hen write	number o	of animals in	relevant co	ol., If "No"	skip to Par	t 9.
Types of Camel Animal	Total	Barhela 2	Marhe		hwi	Kharani 5	Laasi 6	Raidi	Kohi 8	Raigi 9	Galmani 10	Guddi	Maya 12	Khadeer 13	Others
2. Male camels 3 years and above	•	•						,			10	**	**	15	147
3. Female camels 3 years and above in milk															
4. Other dry female camels 3 years and above															
5. Male camels less than 3 years															
6. Female camels less than 3 years															
7.Total Camels (2+3+4+5+6)															
8. Total daily milk of fem camel(s) reported in Q.3 hours (in Liters)															
Horses- 9. Does this I	househo	old posse	ss any	horse	e?			•	Тур	es of H	orses			Num	bers
If "Yes" then wri	te numl	per of an	mals.				10. F	lorses/m	ares 3	years a	nd above	9			
If "No" skip to	Q.13.						11. +	lorses/m	ares le	ss than	3 vears				
① Y	'es ②	No						otal hors			-				
MULES / ASSES 13. D	oes thi	s househ						mals. If "No	o" skip to	Part-11					
Type of	Mules				Num	ber			Тур	e of As	ses			Numbe	r
14. Mules 3 years and	d above	!						17. Asse	s 3 yea	rs and	above				
15. Mules less then 3	years							18. Asse	s less t	hen 3 y	ears				
16. Total Mules (14-	·15)							16. Tota	l Asses	(17+1	8)				
Part-11		Yak/D	zo/D	zomo)										
1. Does this househo	ld posse							Yes nals. If "No"	② No "Skip to						
				ı	Numbe	_								Numbe	
Type of Yak/Dzo/Dzo	mo Ani	mal	<u> </u>	Total 1	Yak 2	Dz Dzo	mo	Type of Y	ak/Dzo)/Dzom	o Animal		Total	Yak 2	Dzo/ Dzomo 3
2.Male Yak/Dzo 3 years	and abo	ove						6. Female	Yak/Dz	omo les	s then 3 ye	ears			
3. Female Yak/Dzomo 3 In-milk	years a	nd above						7. Total Ya		Dzomo (- 3+4+5 +6		male)			
4. Other Female Yak/Dz above	zomo 3 y	ears and						8. Total da reported i					s)		
5. Male Yak/Dzo less th	en 3 yea	rs													



Part-12	Changes & Veterinary Treatment of Animals During Last 12 Months																	
Note: The fo	ollowing qu	uestions must be asked even if no animal is reported on the day of enumeration.																
During Last 1	2 months	Bulls/ Bullocks	Cows	Cattle Youngstock		Male Buffaloes	Female Buffaloes	Buffalo Youngstock Male	Buffalo Youngstock	Sheep (male/female)	Sheep		Goat Youngstock	Camels (Male/Female)	Camel Youngstock	Yak Breed	Dzo Breed	Total Animals
1.Vaccinated		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
2. Fallen sick																		
3. Treated																		
4. Artificially In	seminated																	
S. On Eid 5. On oth																		
ਲੁੱ 6. On oth 7. Sold	ner days																	
8. Purchased																		
9. Died																		
10. Born																		
Part-13	Agricultu	ıral lo	an an	d sc	ources	of inc	ome											
1. Did your h			any lo	an f	or agric					oses d		ng the la	ast 12	2 mon	ths			
2. If the answ	er of Q.1 is	"Yes",	then	wha	t was th	ie pur	pose o	f the lo	oan.	(More th	an o	ne answer	s are po	ossible)				
А	For Agricultu	ural	■ For Livestock □ For Agricultural Machinery															
3. If Q.1 answ	er is "Yes" t	than ti	ck the	rele	evant bo	x of d	ebt so	urce.	(M	ore than	one	answers a	re pos	sible)				
A Commissio	n agents				₿ Oth	er finaı	ncial in	stitutio	ns		0	☑ Zari T	araqia	ti Bank				
☐ Relatives/fr	iends				E All n	NGO's					[E All co	mmer	ial ban	ks			
4. If any memb marking the re							s other	than o	wn agr	iculture	or li	ivestock,	identi	fy that	source	by		
A Service/ Pens	ion			Trade/sale/purchase/ pkeeping / handicrafts					☐ Agricultural labor						ultural	labor		
E Foreign remit	tances				rom prope shop rent		ri.	G In		om agric	ultur	ral	⊞р	⊞ Poultry farming				
I Fancy birds			□ Ostr □	ich fa	rming			K Fis	h Farmi	ng			Шо	ther sou	ırces			
M None																		
5. If any sourc						n indic	cate th	e basi	c sour									
	① Own a	agricul	ture /	lives	stock				2	Select	the	possible	ansv	ver fro	m que	stion	No.4	
			ATTESTATION															
Name of Resp	oondent & (Cell No).					Respo	ondent	s Relat	ion	to Own	er					
Enumerators	Name							Name	of Ch	ecker								
Enumerators	Designation	n						Desig	nation	of Che	cke	r						
Enumerators	Cell/Phone	No.						Check	cers Ce	ell/Phor	ne N	lo.						
Date of Intervie	ew Date of Checking																	

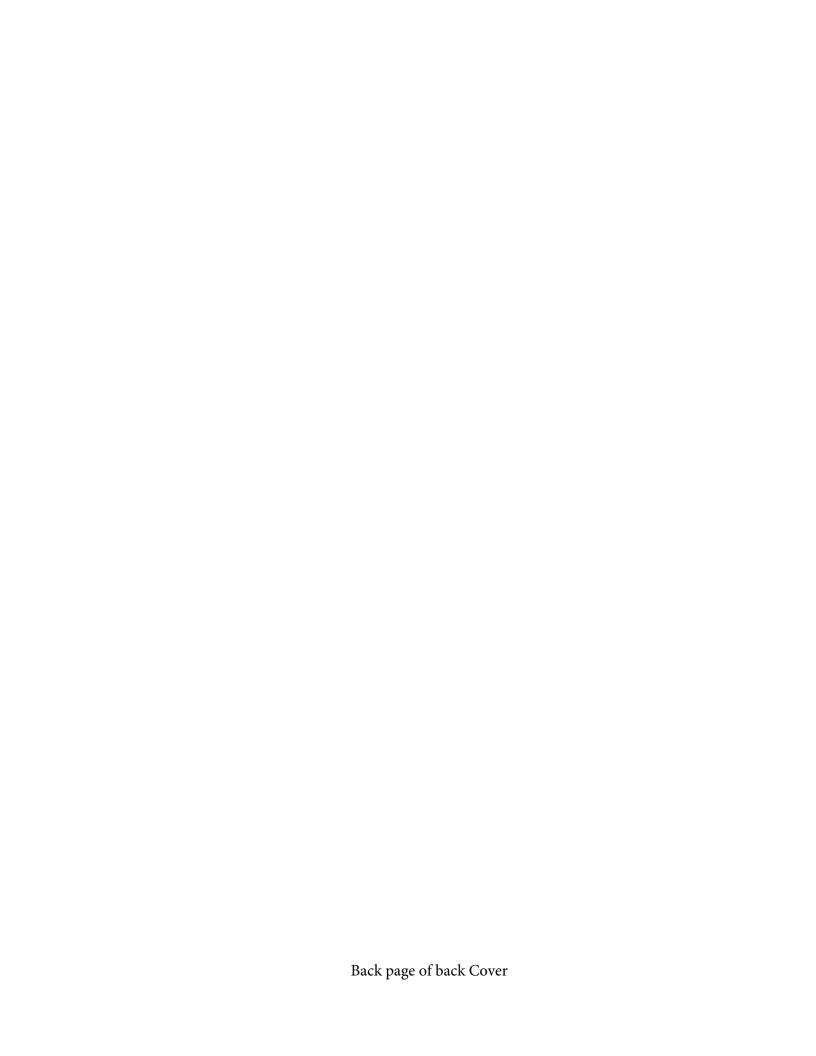


فہرست ٹریکٹر و کوڈ فارم - 2 ، حصہ 7 کے سوال 4 ، 5 اور 6 میں اندراج کیئے

ہارس یاور	ژ یکثر ماژل	ماۋل كوۋ	ٹر یکٹر کا نام	ٹر یکٹر کوڈ	ہارس پاور	ٹر یکٹر ماڈ ل	ماڈل کوڈ	ٹر یکٹر کا نام	ٹر یکٹر کوڈ
55 60 57 62 57 80	MTZ-50 UMZ-60 Belarus-510 Belarus-520 Belarus-511 Belarus-800 Others	46 47 48 49 50 51	یلارس BELARUS	6	99 120 100 85 75 60	MF 590 MF 470 MF 455 MF 385& 385 4WD MF 375 & 375 S MF 360	01 02 03 04 05 06		
52	U-520 U-335 Others	53 54 55	يونيورسل Universal	7	50 90 65 60 50	MF 350 MF 290 MF 265 MF 260 MF 240	07 08 09 10 11	میسی فرگوسن Massey Ferguson	1
50 60 75	2812 3512 4512 Others	56 57 58 59	اد کسس URSUS	8	60 60 45	MF 210 MF 465 MF135 Others	12 13 14 15		
95 95 95 85	TUMO-8095 2WD TUMO-8095 4WD TUMO-8195 4WD TUMO-8185 4WD Others	60 61 62 63 64	ٹوموسون TUMOSAN	9	55 60 85 35 105	NH 55-56 NH 60-56 NH 70-56 NH 304 NH Td 95 s Others	16 17 18 19 20 21	نيو بالينڈ New Holland	2
80 80 80 60	YTO-EX-800 2WD (HM) YTO-EF-804 4WD YTO-EF-800 2WD YTO-EMF-604 4WD Others	65 66 67 68 69	واکی ٹی او YTO	10	75 85 50 55 65	NHF 640 NHF 640-S NHF 480 NHF 480S AL-Ghazi Others	22 23 24 25 26 27	فیٹ/نیو بالینڈ فیٹ /الغازی Fiat/ New Holland fiat / Alghazi	3
55 64 75	RAHI-SR-550 RAHI-SR-650 RAHI-SR-750 Others	70 71 72 73	رابی RAHI	11	80 64 64	EF 5880 EF 4610 EF 4600	28 29 30		
55 65	DEW-DF-550 DEW-DF-650 Others	74 75 76	د يوان DEWAN	12	60 62 50 47	EF 4560 EF 4000 EF 3850 EF 3610	31 32 33 34	نوردُ/يُورو فوردُ Ford / Euro ford	4
		77	انٹر نیشنل INTNATIONAL	13	45 46	EF 3600 EF 3000 Others	35 36 37		
		99	و بگر Others	99	85 41 52 50	BP 585 BP 533 BP 540 BP 549	38 39 40 41	آئی ایم ٹی/ بل یاور	
					67 60 76	BP 560 BP 565 BP 577 Others	42 43 44 45	IMT/BULL POWER	5



		, ,
49-رائس سٹر اشریڈر	25- پوٹیٹو (آلو) پلانٹر	01- کمبائن ہاویسٹر
49-Rice Straw Shredder	25- Potato Planter	01-Combined Harvester
50-سرٹرابیکر	26- كاڭن پلانٹر	02- بلڈوزر
50- Straw Bailer	26- Cotton Planter	02- Bulldozer
51- سائيليج بيلر	27- ملٹی کراپ پلانٹر	03- کلٹیویٹر (بل)
51- Silage Bailer	27- Multi Crop Planter	03- Cultivator
Hay-52	28-و يجيشيبل سيڈر	04- بېلڈ (کراہ) فرنٹ/بیک
52-Hay Bailer	28- Vegetable Seeder	04-Blade (Front/back)
53- چاره کثر کم چاپر	29- کہسن پلانٹر	05- ليزرليولر
53- Fodder Cutter cum chopper	29- Garlic Planter	05-Laser Leveler
54- چاره کثائی مشین	30-رائس ٹرانسیلانٹر	06- ایم بی بلو (مٹی بلٹنے والا ہل)
54- Fodder Cutter	30- Rice Transplanter	رن عي مي الله الله الله الله الله الله الله الل
55- چاره کیلیے ٹوکا		00 - ڈسک پلو (تھالی والاہل)
55- Fodder Chopper	31- يىپى سىڈر 31- Happy Seeder	۰۵۰- وسک پیور های والانان) 07- Disk Plough
1		
56- سپرے مشین (دستی/بیٹری) د سلام کالا میں مصری کا مصری کا کا مصری کا کا مصری کا کا مصری کا کا کا مصری کا کا کا مصری کا کا کا کا کا کا ک	32- رائس نرسری ریزنگ مثنین مورندار میلاد مینوند کاری میروند کاری میروند کاری میروند	08- چيزل پلو
56- Spray Machine (Manual/Bettry)	32- Rice Nursery Raising Machine	08- Chisel Plough
57- بوم سپريئر	33- آلوژ گر	09- سب سوئلر
57- Boom Sprayer	33- Potato Digger	09- Subsoiler
58- پاورنیب سیک سپریئر	34- مونگىچىلى ۋىگر	7.) -10
58- Power Knapsack Sprayer	34- Peanut Digger	10- Ridger
59-مىڭ بلوئر	35- گئے کیلئے بیلنا	11- ياور ٹلر
59- Mist Blower	35- Sugarcane Crusher	11- Power Tiller
60- بائڈر ولک بلوئر	36- كارن پكر خود كار	12- يُدلر
60- Hydraulic Blower	36- Corn Picker Auto	12- Puddler
61-ويل بير و	37- قمريشر	13- روڻاويثر
61- Wheel Barrow Sprayer	37- Wheat Thresher	13- Rota waiter
62- آرچرڈ گن سیریئر	38-رىيىر/كثر بائتثرر	14- ڈسک ہیرو
62- Orchard Gun Sprayer	38- Reaper/Cutter Binder	المراد 14- Disk Harrow
63- آرچر ڈایئر بلاسٹ سپریئر	39- ميز شيار	15- ملنی کراپ ڈرل
63- Orchard Air Blast Sprayer	39- Maize Sheller	ا 15- Multi Crop Drill
	40- شو گر کین ہارویسٹر	16- پلسز ڈرل 16- پلسز ڈرل
64. آرچر ڈٹریلڈ سپریئر 64. Orobord Troiled Sproyer	40- Sugarcane Harvester	16- پیمرورن 16- Pulses Drill
64-Orchard Trailed Sprayer		
65- کنوواشر گریڈر	41- شوگر کین بذکر م 41. Sugaraana Bud Cuttar	17- رىقۇرل 17. Dohi Drill
65- Citrus Washer Grader	41- Sugarcane Bud Cutter	17- Rabi Drill ئامارا
66- کھاد بکھیرنے والا	42-مونگیهلی تقریشر	18- زیرونگن دُرل Williams Daill
66- Fertilizer Broadcaster	42- Peanut Thresher	18- Zero Tillage Drill
67- پوسٹ ہول ڈ گر	43- کہن ہار ویسٹر 43- Garlic Harvester	19- كولٹر ۋرل
67- Post Hole Digger	43- Garlic Harvester	19- Coulter Drill
68- ٹری پرونر	44- گاجر بإرويسشر	20- بىينۇ پلىيىمىن ۋرل
68-Tree Pruner	44- Carrot Harvester	20- Band Placement Drill
69- ٹرالی	45-سبزی/ گاجر واشنگ مشین	21- ڈرائی ڈرل
69- Trolley	45- Vegetable/Carrot Washing Machine	21- Dry Drill
70- ياني کاڻينک	46-سیڈ گریڈراکلیز	22- گراؤنڈ نٹ پلانٹر/ڈرل
70- Water Tank	46- Seed Grader/Cleaner	22- Peanut Drill/Planter
70- پانی کا ٹینگ 70- Water Tank 99- دیگر (وضاحت کریں)	47- شو گر کین سٹبل شیور	23- ميز ملانثر
99- Other (Specify)	47- Sugarcane Stubble Shaver	23- Maize Planter
	48- ويث سٹر اڇاپر بلور	23- ميز پلانثر 23- Maize Planter 24- شو گر کين پلانثر
	48- Wheat Straw Chopper Blower	24- Sugarcane Planter
	15 Titloat Straw Shopper Blower	2. Sugarouno i funtor







7th AGRICULTURAL CENSUS 2024

Integrated Digital Count















Government of Pakistan

Ministry of Planning Development and Special Initiatives

PAKISTAN BUREAU OF STATISTICS

Statistics House, 21- Mauve Area, G-9/1, Islamabad www.pbs.gov.pk