

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

TITLE: AGRICULTURAL CENSUS 2010 AND VILLAGE CENSUS 2008

- Outline:
- a) Methodology and sampling plan of Agricultural Census 2010.
 - b) Importance, methodology and scope of Village Census 2008.
 - c) Linkage between Agricultural Census and Village Census
 - d) Future plans, lessons learnt and issues faced.

AGRICULTURAL CENSUS

- **1960 Agricultural Census – First**
- **1972 Agricultural Census – Second**
- **1980 Agricultural Census – Third**
- **1990 Agricultural Census – Fourth**
- **2000 Agricultural Census – Fifth**
- **2010 Agricultural Census – Sixth**

METHODOLOGY

- The enumeration agency was provincial revenue departments in settled areas and in unsettled areas the agriculture, livestock and education departments worked as enumeration agencies in addition to revenue staff.
- District meetings were convened at each district to finalize the enumerator assignments and training arrangements.
- All the enumerators and supervisors were trained in the concepts and procedures of the Agricultural Census by the well trained Census Master Trainers(CMTs) of ACO at tehsil / Taluka level.

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METHODOLOGY

- Agricultural Census was sample based and was conducted only in sampled Villages which were selected through appropriate sampling techniques.
- After training, the enumerators started listing of households (HHs) in selected villages.
- After completion of listing the CMTs selected HH clusters of approximately 30 HHs.
- Then the enumerators filled detailed census questionnaires only from selected HHs.

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METHODOLOGY

- During the entire census period CMTs remained in the field for supervision, sample selection of HHs and for technical guidance.
- Officers from ACO also supervised the field operation through personal inspections and verifications of data during field operation.
- The district / tehsil management also ensured accuracy and in time completion of census.
- Retrieval of filled-in questionnaires was managed by ACO after completion of field operation for data processing.

SAMPLE DESIGN

The entire country was divided into four parts for sampling.

- **Part 1:** Three stage weighted sample design for rural settled areas in Punjab, Sindh and Khyber Pakhtunkhwa.
- **Part 2:** Single stage weighted sample design for settled rural districts of Balochistan.
- **Part3:** Two stage sample design using systematic sampling for the entire urban areas throughout the country.
- **Part 4:** Single stage systematic sample design for the entire rural unsettled areas of Punjab, Balochistan and Khyber Pakhtunkhwa.

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SAMPLE DESIGN

Sampling Frames used:

- Up-dated list of Villages by administrative order.
- List of urban blocks for urban areas.
- List of households in selected Villages / urban blocks.
- List of big holdings i.e. National Certainty Holdings(NCH) at country level for complete enumeration. The lists were prepared at district level comprising land owners / operators having farms of 100 acres and above and all the government agriculture and livestock farms.

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SAMPLE DESIGN

List of Villages Certainty Holdings (VCH) at sampled Villages / urban block level for complete enumeration. It included livestock holders having 25 or more cattle and or buffaloes, 25 or more camels, 50 or more sheep and or goats. It also included households operating 20 acres or more land and all the gipsy / nomads / migratory people found in the boundary of selected Villages or urban block.

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SAMPLE DESIGN

Stages of Sample Selection:

- **First Stage:** Patwar circles were selected at the first stage.
- **Second Stage:** Villages were selected at the second stage.
- **Third Stage:** H.Hs.clusters were selected at the third stage.
- Samples of first two stages were selected with Probability Proportional to Size (PPS) taking Geometric Mean of cultivated area and households of sampling units. The third stage sample of household clusters (approximately 30 HHs in a cluster) was selected by using systematic sampling technique. Urban blocks as well as their households were also selected through systematic sampling technique.

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SAMPLE DESIGN

The ultimate sample of HHs selected for enumeration included:

- The households in the selected clusters at final stage of selection.
- In selected urban blocks, every fifth household.
- All the households located in the selected Villages of unsettled areas.
- All households located in selected Villages of settled areas of Balochistan.
- The households located in the selected Villages / urban blocks designated as Villages Certainty Holdings.
- The households located anywhere in the country designated as National Certainty Holdings.

Number of Total and Selected Units in Agricultural Census 2010

| Administrative units | Total Units | | | | Selected Units | | | |
|----------------------|----------------|----------|--------------|---------------------------------|----------------|----------------|---------------|------------------|
| | Patwar Circles | Villages | Urban Blocks | Listed HHs in Selected Villages | First Stage | Second Stage | | Third Stage |
| | | | | | Patwar | Villages | Blocks | HHs |
| Pakistan | 11298 | 53838 | 27487 | 2787639 | 3959 (35 %) | 9080 (17 %) | 1893 (7 %) | 809808 (29 %) |
| Khyber Pakhtunkhwa | 1444 | 14700 | 1908 | 402150 | 890 | 2201 | 196 | 139237 |
| Punjab | 8006 | 26086 | 17006 | 1559743 | 1940 | 3933 | 1108 | 411743 |
| Sindh | 1467 | 5717 | 8019 | 710329 | 774 | 1589 | 442 | 163259 |
| Balochistan | 381 | 7335 | 554 | 115417 | 355 | 1357 | 147 | 95569 |

VILLAGE CENSUS

Eight Village censuses had so far been
conducted in Pakistan

- First 1971
- Second 1979
- Third 1983
- Fourth 1988
- Fifth 1993
- Sixth 1998
- Seventh 2003
- Eighth 2008

IMPORTANCE OF VILLAGE CENSUS

1. Updating the list of villages as per latest administrative order for use as sampling frame for Agriculture Census / surveys.
2. It provides information to the planners about the current status of the socio-economic development of villages, revenue circles, tehsils, districts and provinces.
3. The information may be used for development ranking by administrative unit, identifying gaps and to set the merit for allocation of development funds.

METHODOLOGY

- Census was carried out on 100% basis.
- Approval of the questionnaire and tabulation plan from the Advisory Committee comprising of all stakeholders.
- ACO provided necessary census material, training, monitoring and supervision.
- The Provincial Revenue Departments acted as enumerating / supervising agencies for data collection.
- The filled-in questionnaires were processed jointly by ACO and Data Processing Centre, FBS.

SOCIO-ECONOMIC INDICATORS COVERED IN VILLAGE CENSUS 2008

Facilities Available in Village

- | | | | |
|-----|--|-----|---|
| 1. | Status of Village | 13. | Taste of Sub-soil Water |
| 2. | Name and Number of Union Council* | 14. | Water Treatment Facility* |
| 3. | Number of Settlements, and Their Names* | 15. | Facility of Toilet* |
| 4. | Total / Cultivated / Uncultivated / Acreage* | 16. | Pacca Streets |
| 5. | Important Crops of Village* | 17. | Pacca Drains and Sewerage* Facilities |
| 6. | Sources of Irrigation | 18. | Availability of Energy* |
| 7. | Water Course Improvement Scheme | 19. | Media Facilities* |
| 8. | Credit Facility by Gender* | 20. | Housing Condition (Pacca / Kacha)* |
| 9. | Market Place (Bazar)* | 21. | Play Grounds & Sports Teams by Gender* |
| 10. | Sources of Employment by Gender* | 22. | Development Organizations by Gender* |
| 11. | Type of Industries* | 23. | Dispute Resolution Mechanism* |
| 12. | Sources of Drinking Water | | |

* Were Covered First Time

Contd.

SOCIO-ECONOMIC INDICATORS COVERED IN VILLAGE CENSUS 2008

Facilities Available in Village or at Distance From Village

1. Veterinary Health Coverage
2. Cattle Market, Grain Market, Fruit & Vegetable Market & Wheat Procurement Centre
3. Agricultural Inputs (Fertilizers / Seeds / Pesticides)
4. Commercial Banks and On-line Banking*
5. Post Office
6. Health Facilities
7. Availability of Electricity
8. Diesel and Petrol Pump / Depot / Agency
9. CNG / LPG Availability*
10. Metalled Road
11. Transport Facility*
12. Telecommunication / Internet*
13. Education Facility by Gender (Primary / Middle / High School & College and Vocational Centre)
14. Police Station

* Were Covered First Time

FUTURE PLAN

1. Obviously, intentions are to continue conduct of both of these censuses with the improved methodology and sampling plan.
2. Improvement / change of the data collection agency.
3. Bringing improvement in data processing and minimizing data processing time.

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THANKS