



# *Improving the Statistical Capacity of Agriculture Sector in Pakistan*



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# PAKISTAN



A F G H A N I S T A N

C H I N A  
F R O N T I E R U N D E F I N E D

I N D I A

I R A N

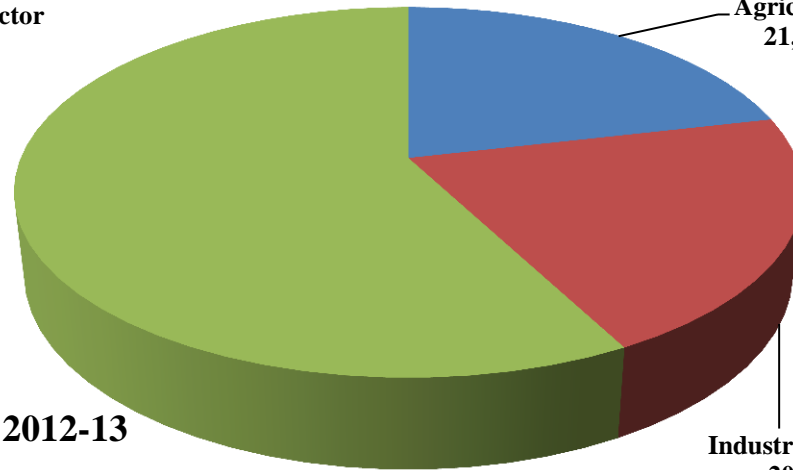


# Pakistan Economy

## Contribution of Diff. Sector in GDP (%) 2012-13

Services Sector  
57,7%

Agriculture  
21,4%



Industrial Sector  
20,9%

## Sectoral Share in Agricultural GDP 2012-13

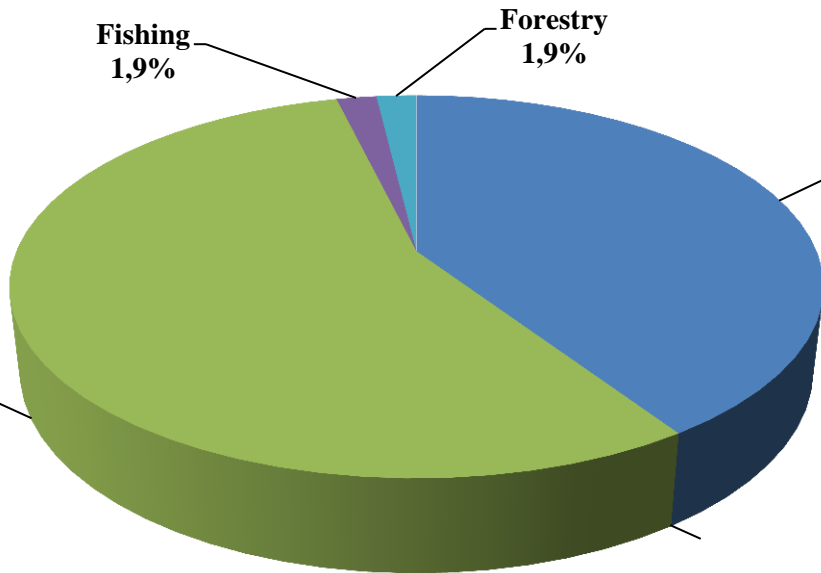
Fishing  
1,9%

Forestry  
1,9%

Crops  
40,7%

Livestock  
55,5%

0,0%

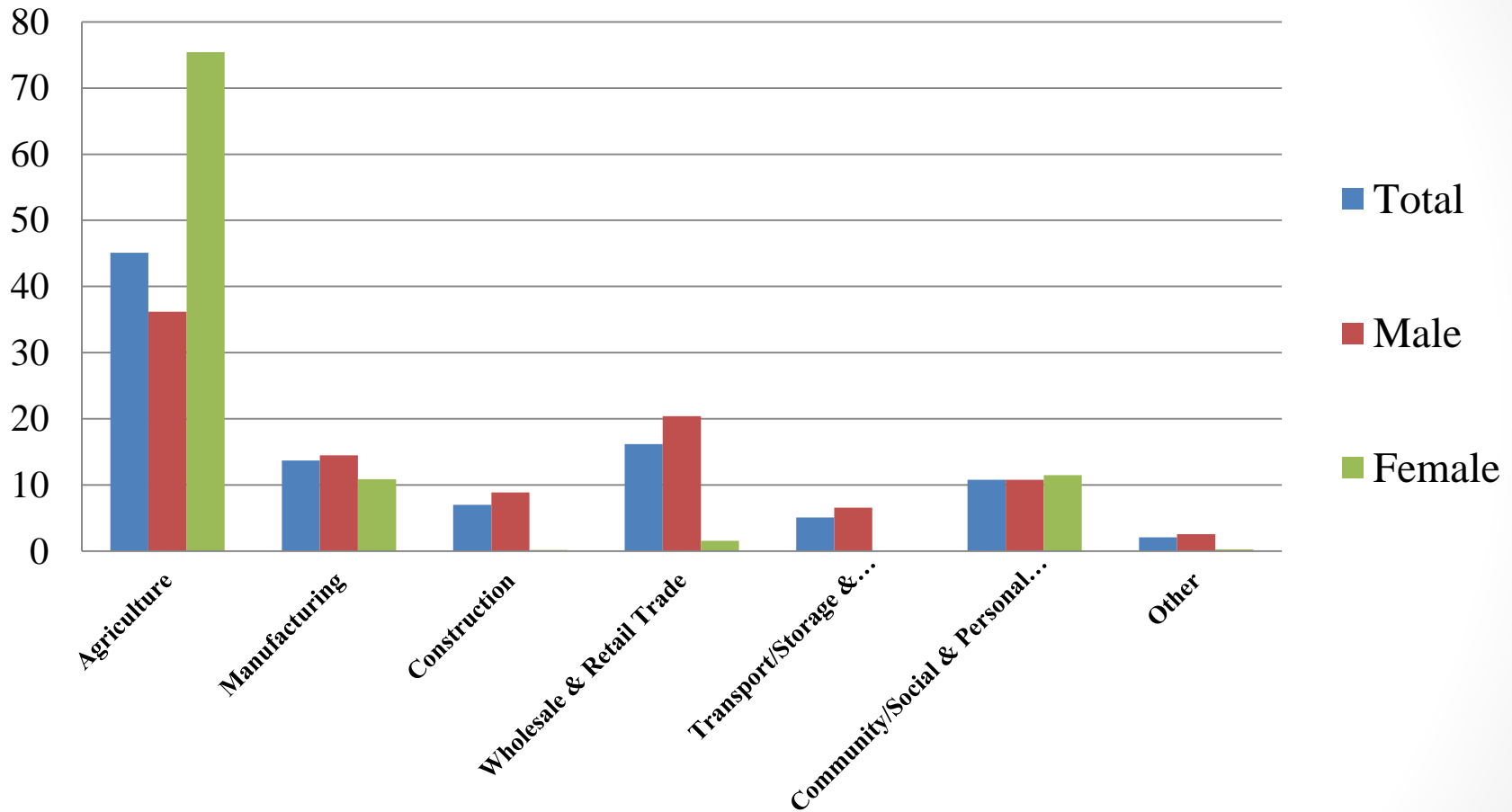


# AGRICULTURE IN PAKISTAN

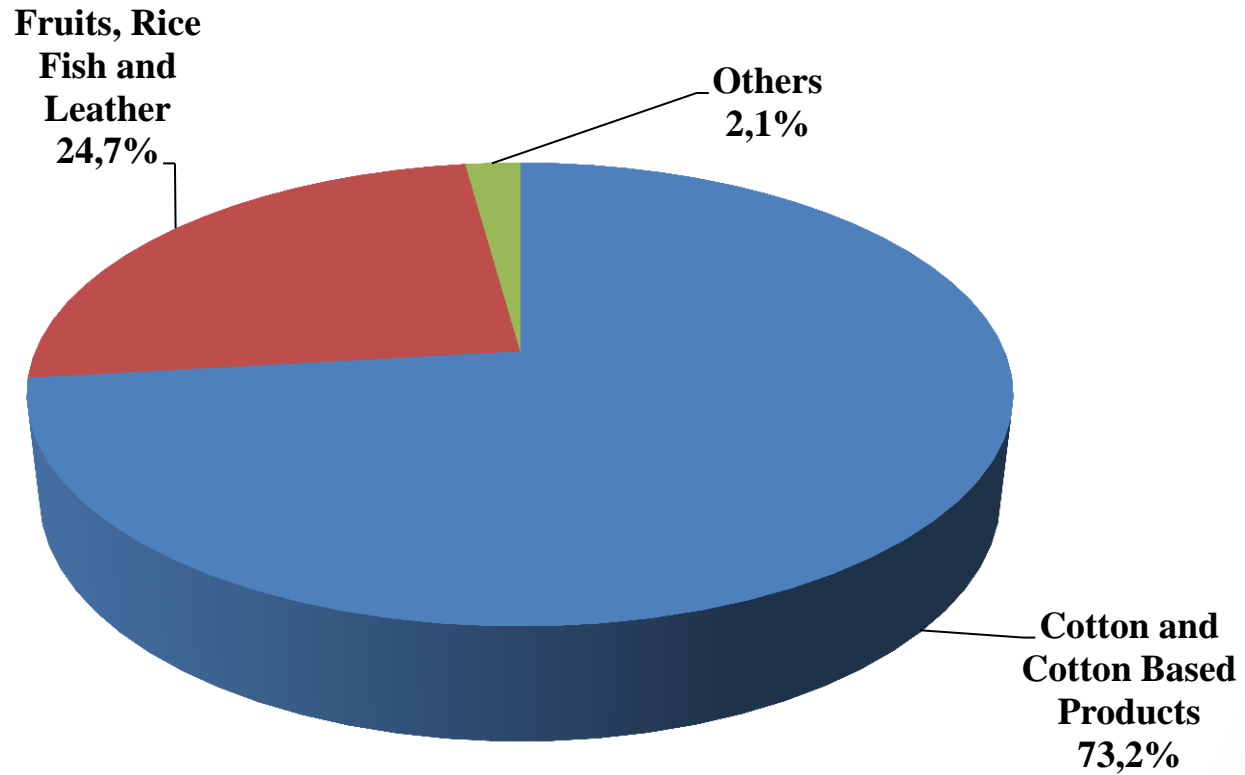
## “AT A GLANCE”

□ Total Area:	79.61 M. Ha
□ Cropped Area	27%
□ Contribution to GDP:	22%
□ Raw material to Industries	65%
□ Work Force Employed:	50%
□ Share in Exports:	65%
□ Livelihood to Rural Population:	60%

# Employment Share by Sector and Gender 2010-11



# Share in Export Earning



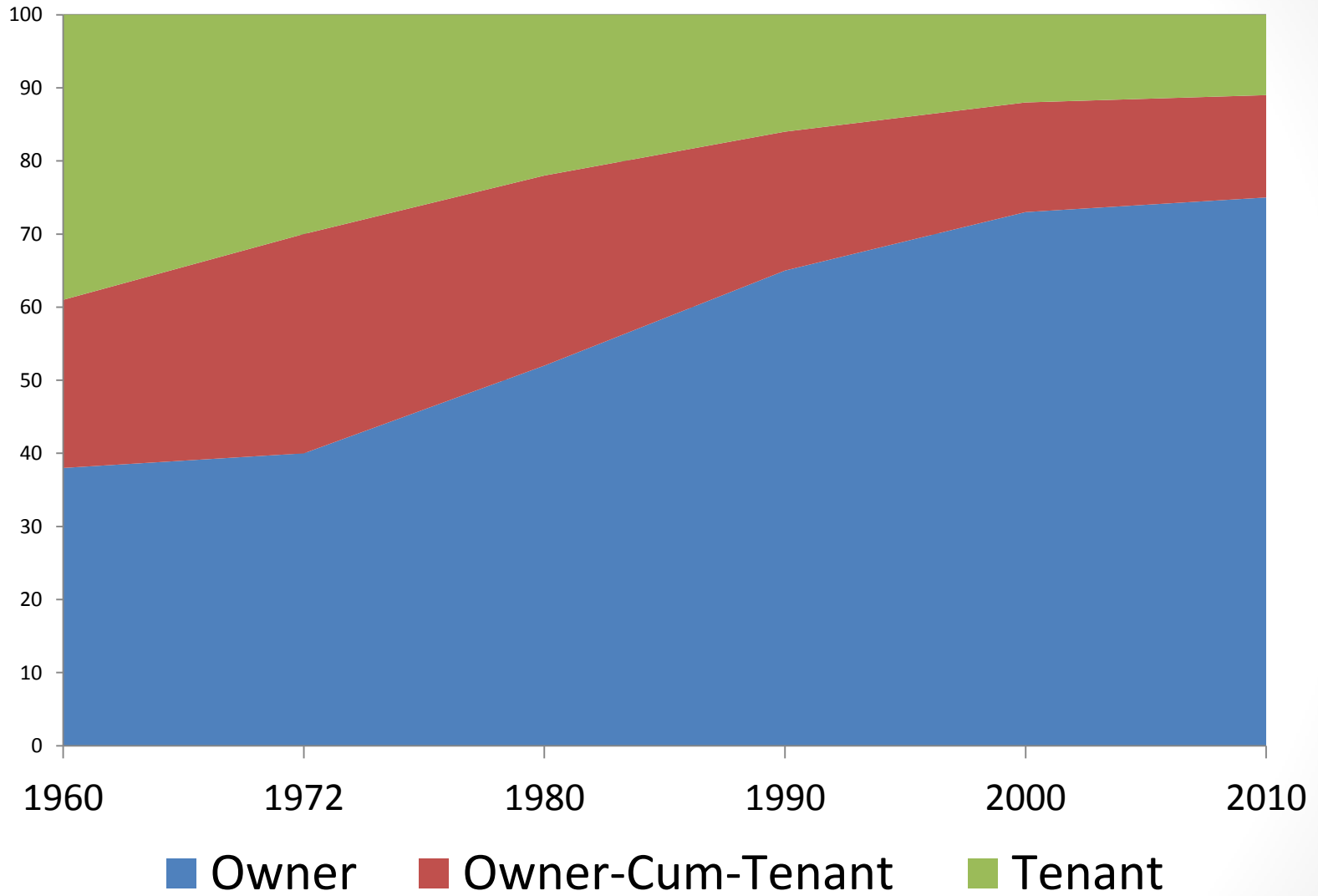


## Area, Production and Yield of Cereals in Pakistan in 2010

Cereals	Area		Production		Yield (Kg/Ha)
	(Million Ha)	% of Total	(Million Tons)	% of Total	
Total Cereals	13332	100	34810	100	2611
Wheat	9132	68.50	23310	66.96	2553
Rice	2365	17.74	7235	20.78	3059
Maize	974	7.31	3707	10.65	3806
Sorghum	229	1.72	141	0.41	616
Millet	548	4.11	346	0.99	631
Barley	84	0.63	71	0.20	845

Source: Agricultural Statistics of Pakistan 2012

## Classification of Farm Area by Tenure



Source: Census of Agriculture various issues



# Importance Agricultural Statistics

- Agriculture sector --- driving force for economy
- Timely availability of reliable information agric. data bases are required
  - Policy makers
  - Planners
  - Development practitioners
  - Researchers
  - Business community
- To ensure food security and economic development of the country

# STATISTICAL ACTS

## Objectives

- To provide legal protection and support to the statistical activities in the country.
- Following Acts have been passed
  - Industrial Statistics Act 1942 (adopted after independence)
  - General Statistics Act, 1975 --- enacted to collect reliable and quality statistics
  - Agricultural Census Act, 1958 and
  - Population Census Ordinance, 1959

## STATISTICAL COUNCILs

- **National Statistical Council (NSC)**
  - Established for setting statistical priorities for different statistical activities at national level.
- The Statistics Division is Secretariat of the National Statistical Council
- **Provincial Statistical Councils**
  - Constituted in the provinces for coordinating provincial statistical activities.
- Provincial Bureaus of Statistics act as the secretariat of concerned Provincial Council

# Structure of Statistical System

- Pakistan Statistical System of Pakistan is a combination of:
  - Centralized --- Federal Level and
  - Decentralized --- Provincial Level
- Federal level
  - Statistics division (now replaced with PBS) was comprised of three departments
    - Federal Bureau of Statistics (FBS)
    - Population Census Organization (PCO)
    - **Agricultural Census Organization (ACO)**
- Provincial level
  - Bureau of Statistics --- an attached departments of respective Planning and Development Departments

# Pakistan Bureau of Statistics

Government of Pakistan has established Pakistan Bureau of Statistics, by merging

- ❖ Federal Bureau of Statistics
- ❖ Population Census Organization
- ❖ Agriculture Census Organization and
  - ❖ Technical wing of Statistics Division
- ❖ All are now placed at one place called Statistical House

# Agricultural Census Organization

- Agricultural Census Organization (ACO) was established in 1958 under the M/O Agriculture and Works initially to conduct Agricultural Census.
- It was transferred to Statistics Division in 1978 and since then its scope has been expanded.
- ACO wing had conducted agriculture related censuses in Pakistan to fulfill the requirements of Agricultural Census Act 1958 (defunct now).
- The Agricultural Census, Livestock Census, Agricultural Machinery Census and Mouza / Village Census are the main activities of ACO wing.

# Main Activities of ACO

- Decennial Agricultural Censuses conducted in the years ending with digit zero.
- Decennial Agricultural Machinery Censuses in the years ending with digit four.
- Decennial Livestock Censuses conducted in the years ending with digit six.
- Quinquennial Mouza / Village Censuses, once before Agricultural Census in the digit eight and once in the digit three before every livestock census, to update sampling frame of Mouzas / Dehs / villages.
- Any other census / survey if directed by the Federal Government.

# Geographical Coverage

The Agricultural Census Organization wing covers whole of the country for all the above mentioned censuses as:

- a. Khyber Pakhtunkhwa province including FATA and PATA.
- b. Punjab province including Cholistan and Islamabad district.
- c. Sindh province.
- d. Balochistan province.
- e. The geographic coverage also extended to the Gilgit Baltistan and Azad Jammu and Kashmir each as a separate entity.



## **Main statistical series of PBS**

- Main statistical series like monthly statistical bulletin, statistical yearbook, economic survey, etc. are regularly updated and disseminated to users in the areas of Agriculture, Climate, Balance of Payments, Education, Energy and Mining, Health, Manufacturing, Money and Banking, National Accounts, Population, Prices, Public Finance, Social Statistics, Stock Exchange/capital market, Foreign Trade and Labour etc.

## DISSEMINATION OF DATA THROUGH WEBSITES

- Data are also disseminated through websites developed by FBS, M/O Finance and SBP
- Socio Economic data along with details of tables and methodologies are easily downloadable from government of Pakistan official websites  
<http://www.pbs.gov.pk/>
- Pakistan is one of the participating countries in the GDDS- General Data Dissemination System and provides providing all requested data
- GDDS Site of IMF provides data/ information on data produced and disseminated by member countries that participate in the GDDS,

# Agricultural Statistics and their sources

Agricultural Commodities	Source of Publication
Agricultural growth	Pakistan Bureau of Statistics
Production of Important Crops	Pakistan Bureau of Statistics
Area & Production of Major Oilseed Crops	Pakistan Oilseed Development Board
Fertilizer Situation	National Fertilizer Development Center
Seed Availability	Federal Seed Certification & Registration Department
Prices of Locally Manufactured Tractors	Tractor Manufacturers Association
Rainfall	Pakistan Meteorological Department
Actual Surface Water Availability	Indus River System Authority
Canal Head Withdrawals	Indus River System Authority
Major Water Sector Projects under Implementation	Planning Commission of Pakistan
Supply of Agricultural Credit by Institutions	State Bank of Pakistan

# Agricultural Statistics and their sources

<b>Agricultural Commodities</b>	<b>Source of Publication</b>
<b>Livestock Population</b>	Ministry of National Food Security & Research
<b>Milk and Meat Production</b>	Ministry of National Food Security & Research
<b>Domestic/Rural &amp; Commercial Poultry</b>	Ministry of National Food Security & Research

## **CAPACITY BUILDING THROUGH TECHNICAL/FINANCIAL ASSISTANCE**

- Efforts are underway for statistical capacity building with the support of donors and international organizations, for improvement in statistical quality, timeliness and data dissemination.
- However, still there is a great scope for improvement in the statistical system to achieve international standards.
- Presently, World Bank, Asian Development Bank (ADB), IMF, DFID and the GTZ are providing technical/ financial support for the improvement of socio-economic statistics through training of officers and provision of equipment etc.
- Statistical Department in different universities in the country is producing manpower while agricultural universities have specifically supporting agric. statistical capacity building
- PARC through its SSRIs in coordination and collaboration with provincial system also supporting capacity building in statistical analysis

# Functions of PARC

- To undertake, aid, promote and coordinate agricultural research
- To arrange expeditious utilization of research results
- To establish research establishments mainly to fill in the gaps in existing programs of agricultural research
- To arrange the training of high level scientific manpower in agricultural sciences
- To generate, acquire and disseminate information relating to agriculture
- To establish and maintain a reference and research library.

# Pakistan Agricultural Research Council

- PARC is the apex national organization working in close collaboration with other federal and provincial institutions in the country to provide science based solutions to agriculture of Pakistan through its statutory functions.

## Research Establishments

- NARC, Islamabad
- BARC, Quetta
- SARC, Karachi
- AZRI, Bhawalpur
- NSCRI, Thatta
- NTHRI, Mansehra
- SARS, Kaghan
- MARC, Gilt
- AZRI, DI Khan
- SSRIs, Islamabad, Peshawer, AJK, Gilgit, Quetta, Tando Jam, Faisalabad

**Scientists capacity Building in Statistical Analysis Through Training**

# PARC Research Establishments





# Challenges

1. **Population: 180 to 335 million in 2050**
2. **Climate Change: Temperature, rainfall pattern, more drought/floods/cold & frost and soil degradation**
3. **Brain drain and labour shortage**
4. **Insect Pests, Diseases and Weeds**
5. **Depletion of Water**
6. **Small Holdings and Fragmentation of Farm Land**
7. **Consistent diversion of cultivate land for non-agricultural use**
8. **Vigorous growth in the other sub-sectors of Agriculture such as livestock, poultry and fisheries**
9. **Unstable Market**
10. **Illiteracy**
11. **Energy crisis**
12. **Regulatory frame work**
13. **Farmers and Scientist friendly policies**

Thank You

