

# Agriculture in Pakistan



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- Pakistan's principal natural resources are arable land and water.
- About 25% of Pakistan's total land area is under cultivation
- Largest canal irrigation system

# Composition of Agriculture Sector

The agriculture sector consists of various sub-sectors which include:

- Crops
- Livestock
- Fisheries
- Forestry

# Basic Facts about Pakistan

- Agriculture contributes 21.4 % to GDP of which 54% is associated with Livestock.
- A huge tract of land is arid with low rainfall and higher solar radiation.
- Lies in the temperate zone with climate varying across seasons and days.
- Almost 70 % population depend on agriculture.
- 60 % of rural population derives its livelihood from Agriculture.
- Employs about 45% of the labor force.
- Contribute more than 60% of the total export earnings.

# Basic Facts about Pakistan Contd...

- Pakistan relies on a **largest network of canals** and ground water to run its agricultural economy.
  - **Major Crops:** Wheat, cotton, rice, sugarcane.
  - **Major Fruits:** mangoes, oranges, bananas, apples
  - **Main Resources:** natural gas, coal, salt & iron.
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- Cotton, textiles, sugar, cement & chemicals are the major players of economy
  - Account for 25.24 percent of agricultural value addition and
  - Registered a growth of 2.3 percent compared to a growth of 7.4 percent last year.

# Production of Important Crops

(in thousand)

Year	Cotton		Sugarcane		Rice		Maize		Wheat	
	Prod. Bales	Area Ha.	Prod. Tons	Area Ha.	Prod. Tons	Area Ha.	Prod. Tons	Area Ha.	Prod. Tons	Area Ha.
2006-07	12,856	3,075	54,742	1,029	5,438	2,581	3,088	1,017	23,295	8,578
	-		-	-	-		-		-	
2007-08	11,655	3,054	63,920	1,241	5,563	2,515	3,605	1,052	20,959	8,550
	(-9.3)		(16.8)		(2.3)		(16.7)		(-10.0)	
2008-09	11,819	2,820	50,045	1,029	6,952	2,963	3,593	1,052	24,033	9,046
	(1.4)		(-21.7)		(25.0)		(-0.3)		(14.7)	
2009-10	12,914	3,106	49,373	943	6,883	2,883	3,261	935	23,311	9,132
	(9.3)		(-1.3)		(-1.0)		(-9.2)		(-3.0)	
2010-11	11,460	2,689	55,309	988	4,823	2,365	3,707	974	25,214	8,901
	(-11.3)		(12.0)		(-29.9)		(13.7)		(8.2)	
2011-12	13,595	2,835	58,397	1,058	6,160	2,571	4,338	1,087	23,473	8,650
	(18.6)		(5.6)		(27.7)		(17.0)		(-6.9)	
2012-13	13,026	2,879	62,472	1,124	5,541	2,311	4,631	1,085	24,231	8,693
	(-4.2)		(7.0)		(-10.0)		(6.8)		(3.2)	

## Livestock Population (Million Nos.)

Species	2010-11	2011-12	2012-13
Cattle	35.6	36.9	38.3
Buffalo	31.7	32.7	33.7
Sheep	28.1	28.4	28.8
Goat	61.5	63.1	64.9
Camels	1.0	1.0	1.0
Horses	0.4	0.4	0.4

Source Pakistan Bureau of Statistics



# Milk and Meat Production (000 tonnes)

Species	2010-11	2011-12	2012-13
<b>Milk (Gross Production)</b>	<b>46,440</b>	<b>47,951</b>	<b>49,512</b>
<b>Cow</b>	16,133	16,741	17,372
<b>Buffalo</b>	28,694	29,565	30,462
<b>Sheep</b>	36	37	37
<b>Goat</b>	759	779	801
<b>Camels</b>	818	829	840
<b>Milk (Human consumption)</b>	<b>37,475</b>	<b>38,690</b>	<b>39,945</b>
<b>Cow</b>	12,906	13,393	13,897
<b>Buffalo</b>	22,955	23,652	24,370
<b>Sheep</b>	36	37	37
<b>Goat</b>	759	779	801
<b>Camel</b>	818	829	840
<b>Meat</b>	<b>3,095</b>	<b>3,232</b>	<b>3,379</b>
<b>Beef</b>	1,711	1,769	1,829
<b>Mutton</b>	616	629	643
<b>Poultry Meat</b>	767	834	907



# Major Fruits (000 Tons)

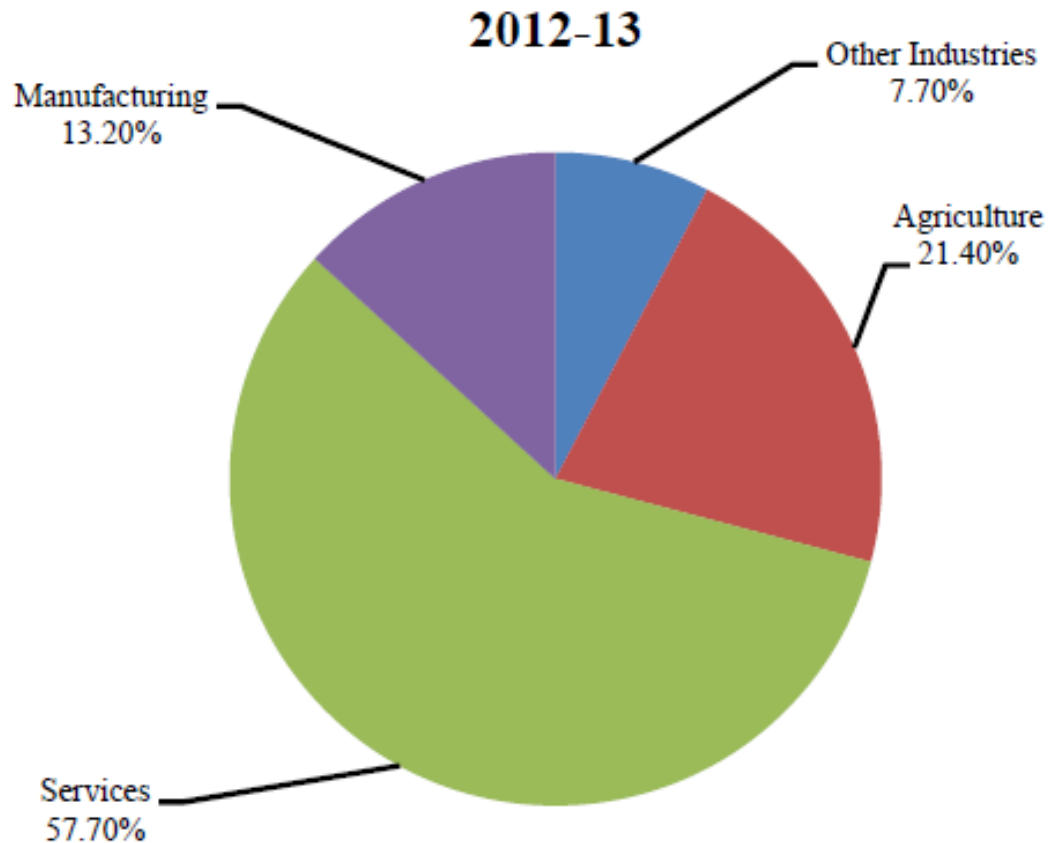
Year	Citrus	Mango	Apple	Banana	Apricot	Guava
2006-07	1,472	1719	348	151	177	555
2007-08	2294	1754	442	158	240	539
2008-09	2132	1728	441	157	238	512
2009-10	2150	1846	366	155	194	509
2010-11	1982	1889	526	139	190	547
2011-12	2147	1700	599	97	189	495
2012-13	2334	1680	684	69	189	508

# Sectoral Share of (GDP)

Sectors/Sub-Sectors	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
<b>A. Commodity Producing Sector (A+B)</b>	<b>44.0</b>	<b>43.9</b>	<b>44.0</b>	<b>43.4</b>	<b>43.1</b>	<b>42.9</b>	<b>42.4</b>	<b>42.3</b>
Agriculture	23.0	22.5	21.9	22.5	22.0	21.7	21.5	21.4
1. Crops	9.9	9.8	9.3	9.7	9.1	8.8	8.7	8.7
Important Crops	5.8	5.9	5.4	5.8	5.4	5.3	5.5	5.4
Other Crops	3.3	3.2	3.2	3.3	2.9	2.9	2.6	2.6
Cotton Ginning	0.8	0.7	0.7	0.7	0.7	0.6	0.7	0.6
2. -Livestock	12.1	11.7	11.6	11.8	11.9	11.9	11.9	11.9
3. -Forestry	0.5	0.4	0.5	0.5	0.5	0.5	0.5	0.4
4. -Fishing	0.6	0.5	0.6	0.6	0.6	0.5	0.5	0.4
<b>B. Industrial Sector</b>	<b>20.6</b>	<b>21.4</b>	<b>22.1</b>	<b>20.9</b>	<b>21.0</b>	<b>21.2</b>	<b>20.9</b>	<b>20.9</b>
1. Mining & Quarrying	3.3	3.4	3.3	3.2	3.2	3.0	3.0	3.1
2. Manufacturing	13.8	14.3	14.4	13.8	13.6	13.4	13.2	13.2
-Large Scale	11.7	12.2	12.3	11.5	11.3	11.0	10.7	10.6
-Small Scale	1.2	1.2	1.2	1.3	1.4	1.5	1.5	1.6
-Slaughtering	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
3. Electricity Generation & Distribution & Gas Distt	1.4	1.2	1.5	1.3	1.5	2.5	2.4	2.3
4. Construction	2.4	2.6	2.8	2.5	2.7	2.4	2.3	2.4
<b>C. Services Sector</b>	<b>56.0</b>	<b>56.1</b>	<b>56.0</b>	<b>56.6</b>	<b>56.9</b>	<b>57.1</b>	<b>57.6</b>	<b>57.7</b>
1. Wholesale & Retail Trade	19.7	19.8	19.9	19.3	19.1	18.8	18.3	18.2
2. Transport, Storage and Communication	12.4	12.6	12.7	13.3	13.3	13.1	13.7	13.7
3. Finance & Insurance	3.7	3.8	3.8	3.5	3.3	3.0	2.9	3.0
4. Housing Services (Ownership of Dwellings)	6.5	6.4	6.4	6.6	6.7	6.7	6.7	6.7
5. General Government Services	5.5	5.4	5.1	5.4	5.7	6.2	6.6	6.8
6. Other Private Services	8.1	8.1	8.1	8.6	8.9	9.1	9.3	9.3
GDP (fc)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Source: Pakistan Economic Survey 2012-13

# Contribution to GDP



**Source:** Pakistan Economic Survey 2012-13

# Other Crops

Other crops contributed

- 12.34 percent to value addition in overall agriculture
- Growth in the production of this sub-sector is recorded at 6.7 percent against the negative growth of -7.7 percent last year.
- This growth is picked up mainly by the growth in Gram by 136.6 percent against the negative growth of -42.7 percent last year and Potatoes by 11.0 percent against -2.8 percent last year.
- The positive growth is also observed in Vegetables and other minor items. The negative growth is observed in Mango, Banana, Dates, Orange, Watermelon, Apricots, Canola and Tobacco etc.

# Cotton Ginning

- Ginning is the process for separating lint from the cotton seed
- Cotton Ginning has a 2.91 percent share in overall agriculture sector
- Cotton Ginning has recorded a growth of -2.9 percent as compared to 13.8 percent growth in last year due to its less production as compared to last year.
- Previously Cotton Ginning was a component of manufacturing sector, now in rebasing of national accounts 2005-06, it is included in the agriculture sector.

# Crop Seasons

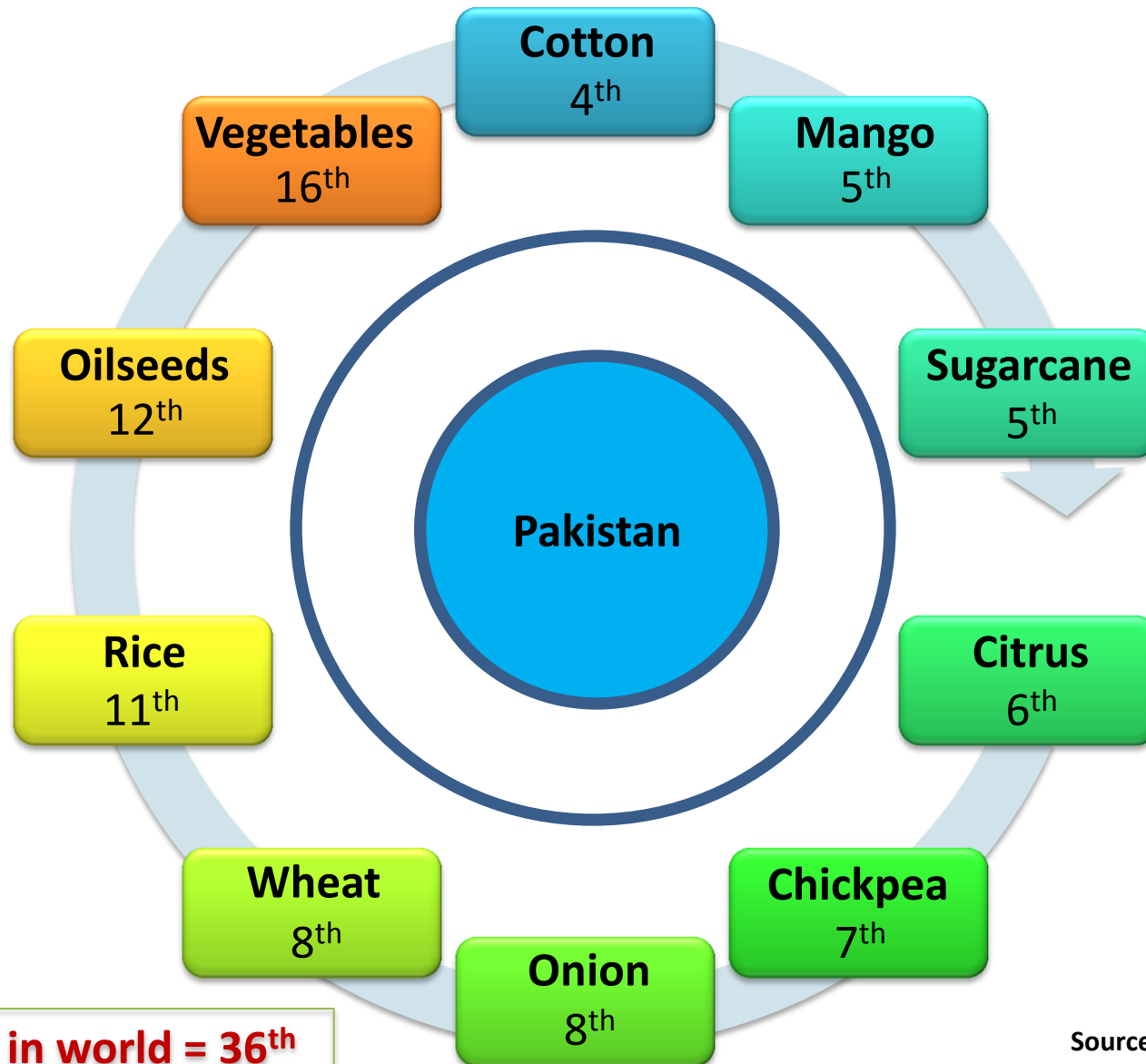
## **Kharif (Summer)**

- April-June to October-December.
- Rice, Sugarcane, Cotton, Maize, Moong, Mash, Bajra and Jowar are “Kharif” crops.

## **Rabi (Winter)**

- October-December to April-May.
- Wheat, Gram, Lentil (masoor), Tobacco, Rapeseed, Barley and Mustard are "Rabi" crops.

# Pakistan Ranking in the World



Source: FAOSTAT (2012)



# Exports of Pakistan

<b>Sr. No.</b>	<b>Commodity</b>	<b>2011-12</b>	<b>2012-13</b>
1	Cotton	50.0	51.4
2	Rice	8.8	7.8
3	Leather	4.8	4.5
	Sub-Total	63.6	63.7
4	Sport Goods	36.4	36.3
5	Synthetic Textile		
6	Others		
	Total	100	100

Source: Economic survey of Pakistan 2012-13

## Comparative Growth Rates of Agriculture in South Asia

Countries	Average Annual Growth (%)
China	4.4
Bangladesh	3.7
Sri Lanka	3.5
India	3.3
Nepal	3.3
Pakistan	3.1
Afghanistan	3.0

Source: World development Indicators 2012, The World Bank

## Pakistan's Place in World Cotton and Textiles

	<b>Percent</b>	<b>Rank</b>
Production	9.5	4 <sup>th</sup>
Consumption	10.0	3 <sup>rd</sup>
Yarn Production	9.0	3 <sup>rd</sup>
Yarn Export	26.0	2 <sup>nd</sup>
Cloth Production	7.0	3 <sup>rd</sup>
Cloth Export	14.0	3 <sup>rd</sup>

Source: ICAC, Washington DC, USA.

# Land Use and Cropping Intensities

<b>Administrative Units</b>	<b>Land Use Intensities</b>	<b>Cropping Intensities</b>
<b>Pakistan</b>	<b>85</b>	<b>142</b>
Khyber Pakhtunkhwa	83	142
Punjab	96	154
Sindh	77	130
Balochistan	53	78

**Source:** Agricultural Census Organization (ACO), 2000

# Major Developments in Punjab Agriculture

1. **Green Revolution (Wheat)**
2. **Bt Cotton Revolution**  
**(Reduction in use of boll worm Pesticide)**
3. **Rice Revolution**
4. **Cotton Revolution**
5. **High Crop Intensity**
6. **Sugar Revolution**
7. **Hybrid Maize Revolution**
8. **Kinnow Revolution**
9. **Potato Revolution**
10. **Introduction of Mechanization**
11. **Expansion in Agro Based Industry**

# CONTRIBUTION IN PRODUCTIVITY ENHANCEMENT

<b>Crop</b>	<b>Production 1947-48 (000 tons)</b>	<b>Production 2012-2013 (000 tons)</b>	<b>Increase (Times)</b>
Wheat	2637	18587	7
Rice	253	3478	14
Cotton lint (000 Bales)	735	9526	13
Sugarcane	3972	42982	11
Maize	168	3353	20
Potato	24	3639	152
Citrus (1957-58)	79	1930	24
Mango(1957-58)	102	1280	13
Guava (1957-58)	15	379	25

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