



Welcome

Fruits of Bangladesh

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Bangladesh at a glance

- Area : 147570 sq. km
- Population : about 160 million
- Population growth rate : 1.4%
- Density of population per sq. km : 980
- Total cultivable area: 8.5 million hectare
- Net cultivable area : 7.45 million hectare
- Cropping intensity : 190%
- Agriculture: Main contributor of GDP 20%

- Surrounded by India around 3 sides and Bay of Bengal at the south.
- It lies in the South Asia sub-continent between 20-26°N latitude and 88-92°E longitude



Climate

Bangladesh enjoys a sub-tropical monsoon climate - short and dry winter from November to February.

- **Rainfall**

Yearly : 1400 mm to 4500 mm.

Average: 2300 mm.

- **Temperature**

In winter : Minimum average temp. : 15°C
Maximum average temp. : 26°C

In summer: Minimum average temp. : 25°C
Maximum average temp. : 32°C

- **Solar radiation**

Maximum (Winter) : 9 hrs/day.

Minimum (Monsoon) : 4-5 hrs/day.

Agriculture of Bangladesh

Agriculture is the dominant economic activity in Bangladesh and regarded as the lifeline of the nation's economy. Agriculture contributes about 20% to the country's GDP (crop sector 12.3%, fisheries 3.7%, livestock 4%), sustains the livelihood of about 48% of the labor force. **Agriculture sector is concerned with the countries' food security.**



- ❖ The primary concern of the government is to ensure food & nutritional security and alleviate poverty through sustainable growth and development of agriculture.
- ❖ The productivity and the production resources, especially the land, water and genetic resources are gradually shrinking and degrading.
- ❖ In the years ahead, we will need to produce more diversified food with the implementation of greater shares of fruit production.

Present Scenario of Fruit Production and Consumption

➤ No. of fruits grown	70
➤ Area	2.43 lakh ha
➤ Production (inside and outside garden)	45.21 lakh MT
➤ Production inside garden	21.33 lakh MT (47%)
➤ Production outside garden	23.88 lakh MT (53%)
➤ Present consumption	78 g/day/person (39%)
➤ Recommendation	200 g/day/person
➤ Requirement (as per recommendation)	118.68 lakh MT
Source : BBS 2013	73.47 lakh MT (61%)

Annual Distribution of Fruit

Time	Availability (%)
January-April	19
May-August	60
September-December	21
Total	100

Source : BBS 2013

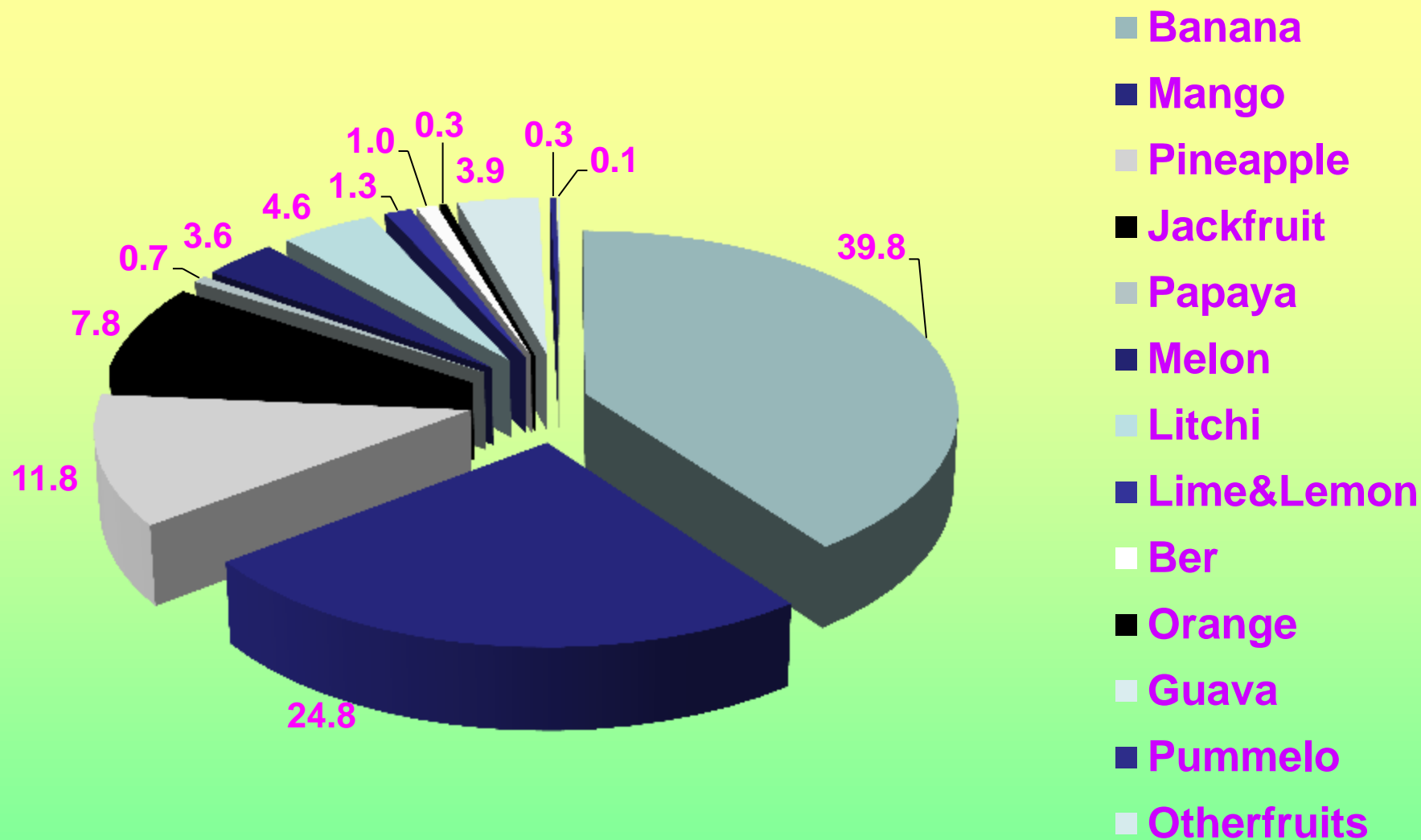


Fig. Percentage of land area under different fruits (2011-2012)

(Source: BBS 2013)

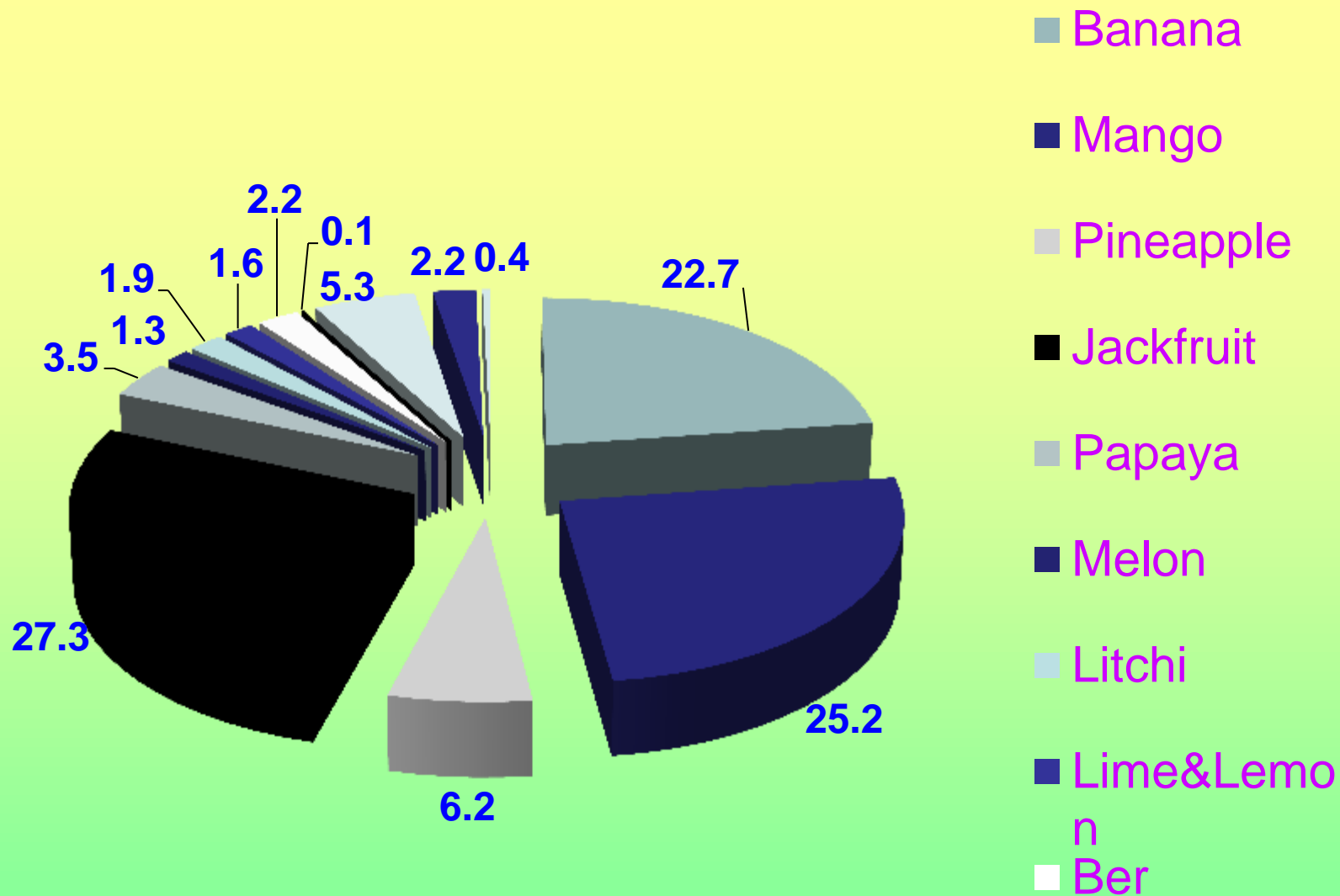


Fig. Percentage of production of different fruits (2011-2012)

(Source: BBS 2013)

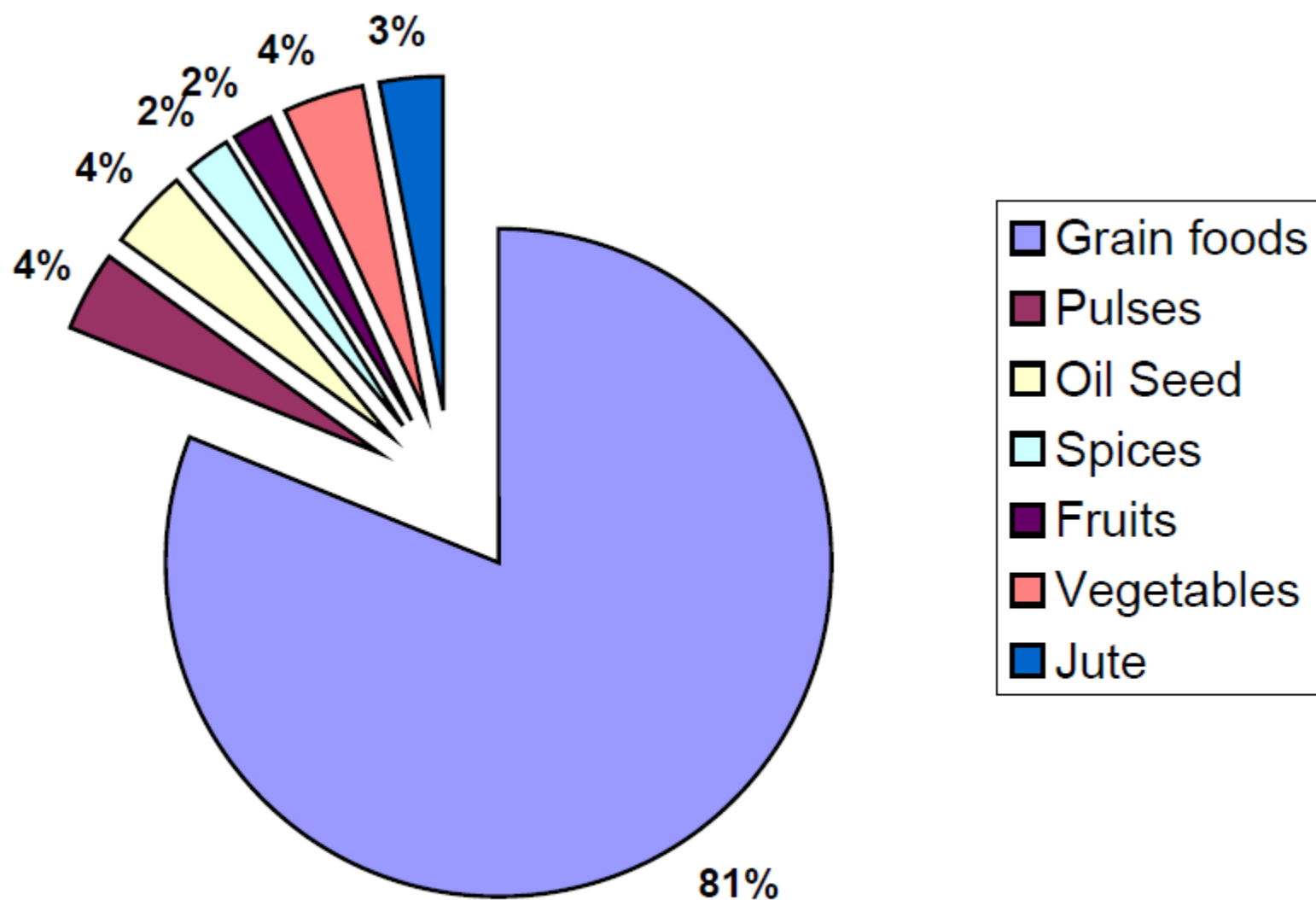


Fig. 1. Share of domestic crop sector

Table 1. Area and Production of Major Fruits in Bangladesh

Fruits	2009-2010		2010-2011		2011-2012	
	Area (000 ha)	Production (000 mt)	Area (000 ha)	Production (000 mt)	Area (000 ha)	Production (000 mt)
Banana	133305	818254	130589	779380	121718	745927
Mango	79066	842312	58193	889213	75780	945059
Pineapple	39583	234493	37007	218582	34543	180938
Jack fruit	25166	1005164	26310	962558	23174	928962
Ripe Papaya	2790	112770	3042	124404	2452	119645
Water Malon	32713	216497	29848	204514	38483	284845
Lithchi	4259	64995	4612	55538	13828	56687
Guava	12542	181950	12061	271309	12112	190074
Ber	2709	76040	2746	78205	2895	77873
Lime & lemon	5280	53987	4083	54613	4230	63330
Bangi	11376	43279	11479	45895	11153	43411
Coconut	5800	389094	4923	375845	5367	408567

Export Statistics of Fresh Fruits in Bangladesh

Fiscal Year (FY)	Quantity (in MT)	Value (in Million US\$)
2005-2006	2242	6.67
2006-2007	1528	4.89
2007-2008	2695	8.65
2008-2009	5204	16.67
2009-2010	5411	17.37
2010-2011	11757	37.68
2011-2012	17835*	57.16
2012-2013	22431*	71.89
2013-2014	19292*	61.83

Note: *Quantity estimated by Hortex Foundation as per average export price of fruits @ 3205 \$ / MT on FY2010-11 due to export quantity data is not available since FY2011-12 from Export Promotion Bureau.

Major Fruits of Bangladesh



Major quick growing fruits



Underutilized Fruits of Bangladesh



Baccaurea sapida



Artocarpus lakoocha



Averrhoa caribaea



Garcinia cowa



Diospyros delavayi

Late
Summer

Underutilized Fruits



Annona reticulata



Annona squamosa



Averrhoa bilimbi



Carissa coranda

Peoples involved in fruits production and marketing in the region

Activities	Places	% peoples of total population
Production and managements	Homestead, rural and urban areas, road side plantations	25.5
Harvesting	In all places	10.5
Marketing	Rural and urban areas	20.5
Processing	Home level and	27.6

Fruit varieties Developed by BARI

Name of fruit	No. of variety		Name of fruit	No. of variety
Mango	10		Pear	1
Banana	5		Wax Jambu	2
Litchi	5		Passion Fruit	1
Guava	3		Carambola	2
Lemon	3		Burmese grape	1
Jackfruit	3		Satkara	1
Sapota	3		Toikar	1
Ber	4		Strawberry	3
Pummelo	4		Tamarind	1
Coconut	2		Rambutan	1
Papaya	1		Amloki	1
Mandarin	2		Velvet apple	1
Sweet orange	1		Sweet lime	1
Golden apple	2		Olive	1
Longan	2		Dragon Fruit	1
Wood apple	1			
Total 70 varieties of 31 fruit crops				

Fruit in Market

- In City Area Beside the Road Everywhere there is Unorganized Fruit shop, Most of the Fruit are imported like – Apple, Orange, Grapes, Pomegranate, Sweet Orange, Dragon Fruit, Strawberry, Avocado, Rambutan, Date Palm, Pear etc.
- Locally Produced Seasonal Fruits are also available in Local Market like- Banana, Mango, Pineapple, Jackfruit, Litchi, Jujube, Guava, Papaya, Carambola, Pummelo, Coconut, Wax apple etc.

Contd.

Fruits which are available in the Market is not Hygienic because of Chemical used as Preservator and Ripening like Calcium Carbide, Formalin etc.

BAU-GPC the Largest Fruit Repository in Bangladesh

- **10500 Mother Trees;**
- **61 Fruit Yielding Species;**
- **21 Major Fruits;**
- **49 Minor/Undertilized Fruits;**
- **67 Fruit Yielding Medicinal Plants.**

Recent Development

- Introduction of Nursery GuideLine-2008;**
- Registration of Nursery in DAE;**
- Already 12000 Nursery are Registered;**
- Mother Plant Supply-BARI, BADC, DAE, Agricultural University, BRAC, Proshika;**
- Tagging of Planting Material;**
- Fair of Quality Planting Material in National & Regional Level.**
- Every year Govt. Organise 16-30 June Fruit Trees Plantation Fortnight.**
- This year Slogan was `Din Badaler Bangladesh Fol Brikhey Varbo Desh`**

Constraints of Fruit Production

- **Lack of High Yielding Variety;**
- **Lack of well-adapted variety;**
- **Seasonal Availability;**
- **Irregular Fruit Bearing;**
- **Lack of Quality Planting Materials;**
- **Insufficient Nutrition, Irrigation & Management;**
- **Diseases & Insects Infestation;**
- **Poor Post-harvest Technology and Storage Facilities;**
- **Lack of Awareness of Farmers for Fruit Production;**
- **Adverse climatic condition like high temperature, humidity;**
- **Farmers are not getting real price of Fruits.**

Constraints of Fruit Marketing

- **Traditional Storage System;**
- **Lack of Supply Chain Knowledge;**
- **Poor Transport Facilities;**
- **Poor Packaging Technology;**
- **Adoption of Modern Marketing Facilities;**
- **Knowledge of Marketing Information;**
- **Lack of Value Chain;**
- **Awareness of Modern Marketing.**

Recommendations

- **Bangladesh is most Suitable for Tropical Fruit Production;**
- **Strengthening Research on Variety Development & Post Harvest Technology;**
- **Demonstrations & Extension Work for Fruit Production;**
- **Certification of Planting Material;**
- **Increase Value Chain, Supply Chain System Create & Storage Facility.**

Thank You