

Food and Agriculture Organization of the United Nationals



International Tropical Fruits Network



Ministry of Agriculture and Rural Development



Southern Fruit Research Institute

International Symposium on Superfruits: Myth or Truth?

# DEMAND TREND, MARKET, PRICE DEVELOPMENT AND PROMOTIONAL REQUIREMENTS FOR DRAGON FRUIT

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## **1. Dragon fruit production in Vietnam**





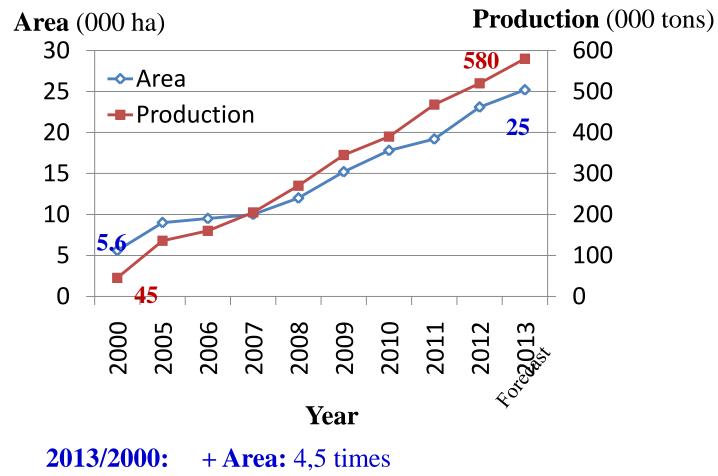




- The tropical climate, soil, water conditions... in southern of Vietnam are favorable for dragon fruit production.
- Farmers had lots of experience in fruits production.
- Extension system was developed.
- In recent years, dragon fruit is considering of major fruits in Vietnam.



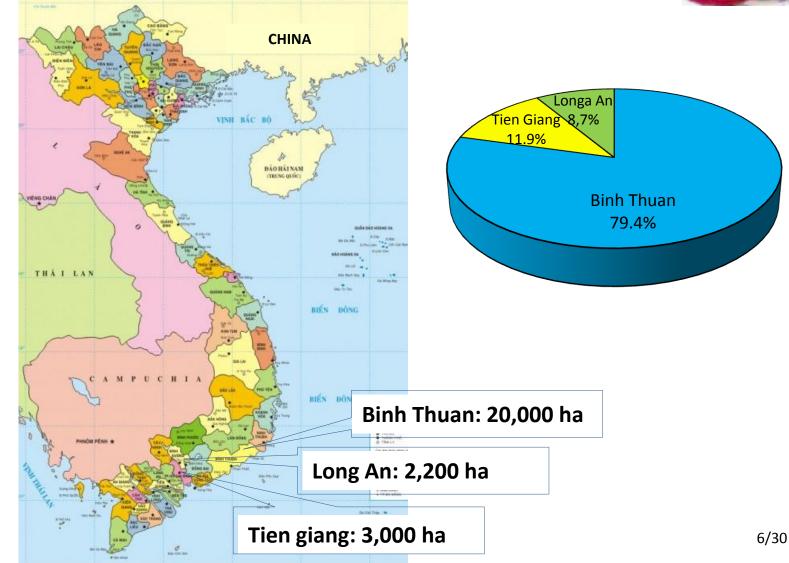
#### Area and production of Dragon fruit in Vietnam



+ **Production:** nearly 13,0 times



## **Distribution of Dragon fruit in Vietnam**







There are three varieties of dragon fruit viz. + White flesh: 95% of total area + Red flesh: 5% of total area + Pink flesh (new variety)











### **GAP** standards for Dragon fruit

- To enter and meet demand of international markets, Vietnam's dragon fruit had applied the GAP standards since 2002.
- End of 2012, there was reached 6,800 ha of dragon fruit GAP certificated, with 8,200 famers (VietGAP: 6580 ha and GlobalGAP: 223 ha).









# 2. Demand trends, market and prices of dragon fruit









- Consumption of fruits and vegetables in Vietnam: 78.0 kg/person/year.
- Average increase: about 10% / year.
- Dragon fruit: fresh consumption.
- Domestic markets: consumed only 20% of total production.





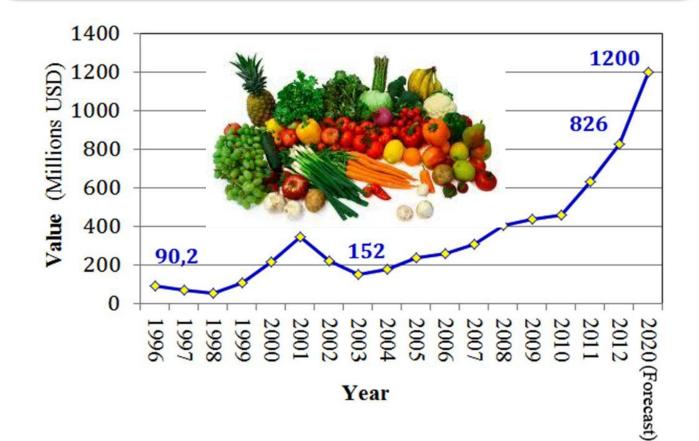


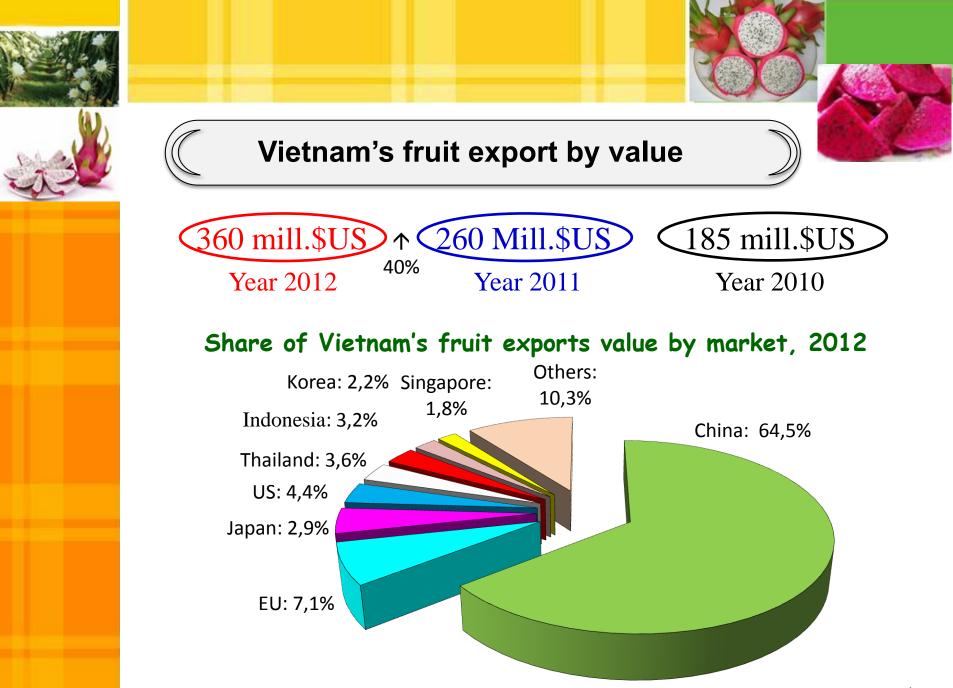
- Vietnam's Dragon fruit is mainly exported to the international markets, contributed 80% of total production.
- The world market is high demand for dragon fruit.
- Vietnamese dragon fruit are highly export competitive in international markets.
- The average growth rate of dragon fruit export value: 70%-80%/year.





### Vietnam's fruit and vegetable export by value

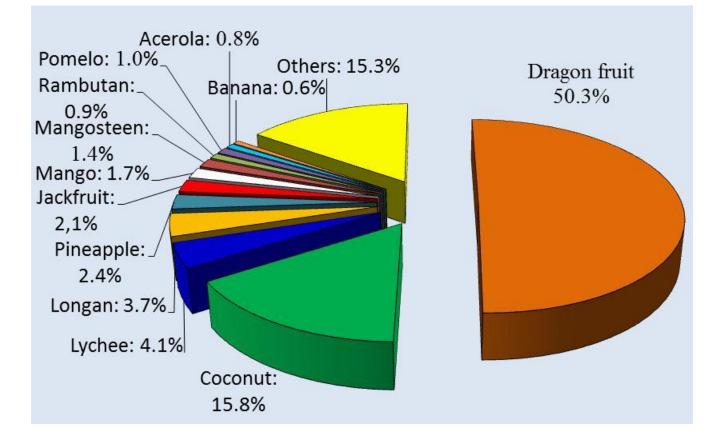






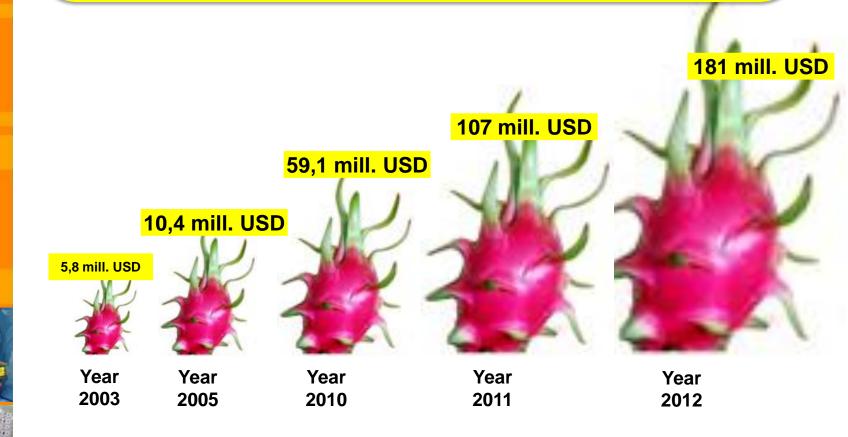


### Composition of fresh fruit exports by value, 2012





### Vietnam's dragon fruit exports by value, 2003-2012









- Vietnam' dragon fruit exports to 30 countries in the world.
- Mainly exported to China by the border trade.
- Export to other countries: ASEAN countries, EU, US, Japan, Korea, Hongkong...









## Vietnam's dragon fruit exports to European United market

- 2005: Enter to the European United market.
- Market requirements:
  + Global GAP standards
  - + Packing house code

Iterms/Year	<b>'2</b> 009	<b>'2010</b>	<b>'2011</b>	<b>'2012</b>	2012/2009
Value (mill. \$US)	4,1	5,4	7,8	6,7	+ 2,6







## Vietnam's dragon fruit exports to United State market

- 2008: Permitted enter to the United State market.
- Market requirements:
  - + Irradiation
  - + Production code
  - + Packing house code
  - + VietGAP standards

Iterms/Year	<b>'2009</b>	<b>'2010</b>	<b>'2011</b>	<b>'2012</b>	2012/2009
Quantity (tones)	100	890	1,200	1,650	+ 1,550
Value (mill. \$US)	0,7	2,5	3,6	5,2	+ 4,5







- 2009: Permitted enter to the Japan market.
- Market requirements:
  - + VHT (Vapor Heat Treatment)

Iterms/Year	<b>'2</b> 009	<b>'2010</b>	<b>'2011</b>	<b>'2012</b>	2012/2009
Value (mill. \$US)	0,8	1,4	2,1	2,5	+ 1,7





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# Vietnam's dragon fruit exports to Korea market

- End of the year 2010: Permitted enter to the Korea market.
- Market requirements:

+ VHT (Vapor Heat Treatment)

• Export value to Korea: 1,5 millions \$US per year.







- Minimum requirements: clean, free of pest and damage...
- Classification:
  - + Grade I: > 460g /per fruit + Grade II: 300-460g /per fruit
- Shape and colour;
- Packing;







# Price of Dragon fruit

### Average export price of dragon fruit by month (Unit: \$US/ton)

Sr.	Month/year	Year 2009	Year 2010	Year 2011	Year 2012
1	January	470	390	390 462	
2	February	550	457	550	780
3	March	490	553	555 -	940
4	April	610	575	615	725
5	May	520	584	500	600
6	June	410	523	479	522
7	July	410	415	445	426
8	August	390	389	420	574
9	September	390	457	430	630
10	October	530	423	513	675
11	November	460	473	589 -	702 -
12	December	400	541	619	781 🜙
	AVERAGE	469	482	515	676







# Price of Dragon fruit

#### Average domestic price of dragon fruit by month (Unit: VND/kg)

Sr.	Month/year	Year 2009	Year 2010	Year 2011	Year 2012
1	January	9,467	11,510	14,100	15,300
2	February	11,190	12,070	12,670	16,000
3	March	15,460	13,380	15,620	19,000
4	April	12,600	7,700	17,450	14,500
5	May	4,860	7,300	8,150	12,200
6	June	3,295	6,190	5,290	10,600
7	July	4,530	3,870	2,500	7,500
8	August	4,680	6,540	5,400	11,600
9	September	7,370	8,000	4,200	12,500
10	October	8,690	5,875	11,200	13,200
11	November	5,725	7,900	16,500	14,100
12	December	5,396	15,700	17,350	15,400
	AVERAGE	7,772	8,836	10,869	13,533







# Price of Dragon fruit

### **Export price of Dragon fruit by regions**

No.	Regions	Price	Notes	Domestic price (in imported countries)
1	ASIA	0.7-1.5	Depend on	
	(including	USD/kg	quality and time	1.5-2.5 USD/kg
	China)			
2	European	2.5 USD/kg	Shipping	1.5-2.5 USD/fruit
	United	5,5USD/kg	By air	1.3-2.3 USD/IIult
3	United	5.5-6.0	Main season	11-15 USD/kg
	State	8.5-9.0	Off season	11-15 USD/kg
4	Japan	4-6		12-16 USD/kg





## **Overview: Vietnam's dragon fruit export markets**

Markets	Deman d	Price	Quality	Market Acces s	Competitio n	Risk
China	High	Low	Low, medium	Easy	Low	High
US	Medium	High	High	Hard	Medium	Medium
EU	Medium	High	High	Hard	Medium	Medium
Japan, Korea	Medium	High	Very high	Hard	Low	Low





## 3. Results on Vietnam's dragon fruit







### **Results on Vietnam's Dragon fruit**

- To establish the concentrated area of dragon fruit, improving productivity and quality, supply large quantities.
- Vietnam can produced dragon fruit year around.
- United State had granted production code for Vietnam's dragon fruit.
- Export value of dragon fruit was sharply increased in the last ten years.
- There are 4 treatment factories (Irradiation and VHT).











- Small land holder (farm size 0.3-0.5 ha per household).
- Packing house and storage facilities are limited.
- Transportation costs is higher than other countries in the region.
- Limit to export the dragon fruit to the far markets.
- Promoting Vietnamese fruit in the international markets is limited.





- Imlementing GAP standards for dragon fruit area remaining.
- Exploiting seasonal factor in produce of dragon fruit.
- Policy support to build the packing house (international standards).
- Boost exports to United State, Korea, Japan... and searching new market.
- Promotion on Vietnamese dragon fruits in the world markets.

