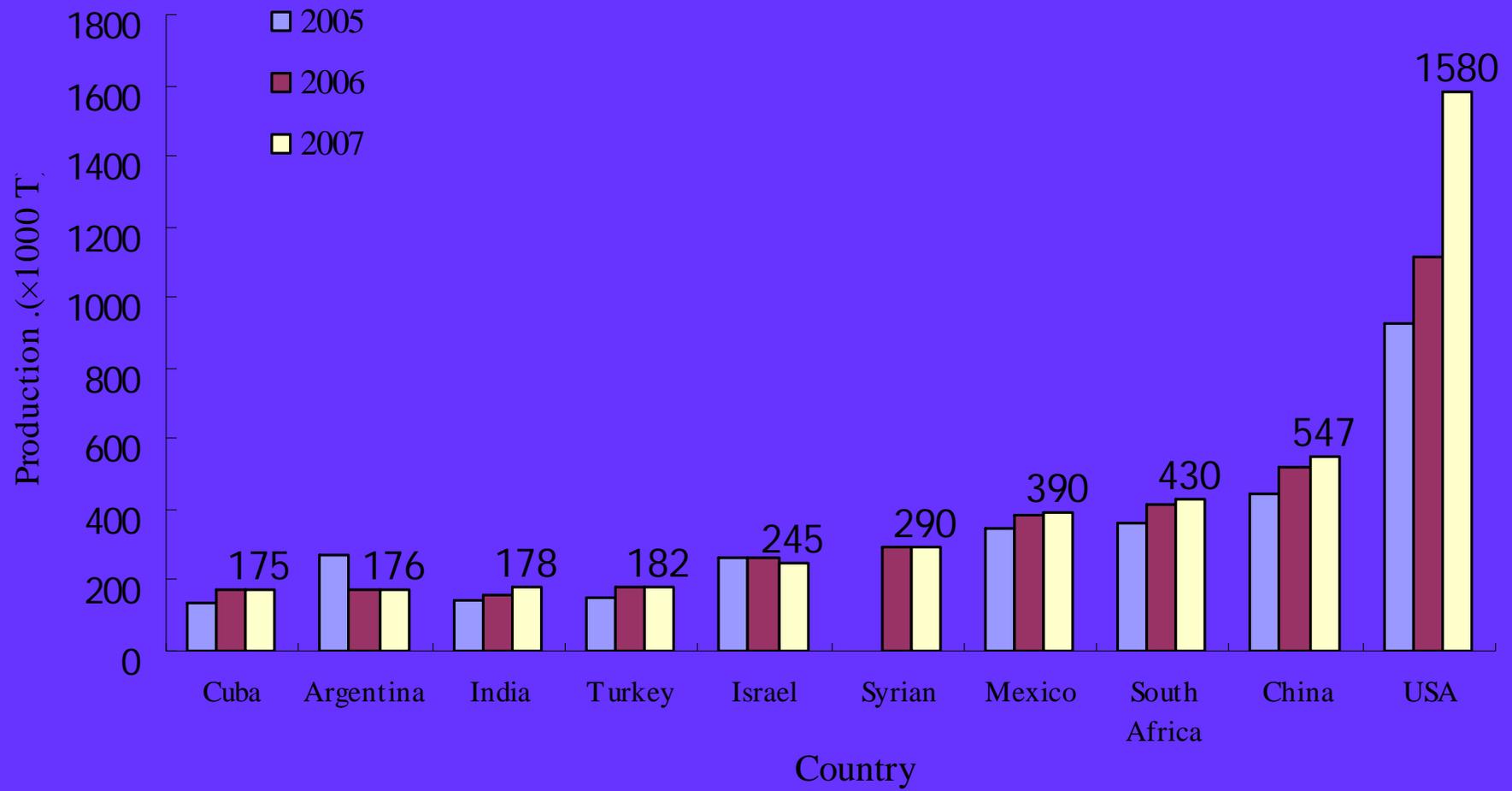


# The Pomelo Industry in China

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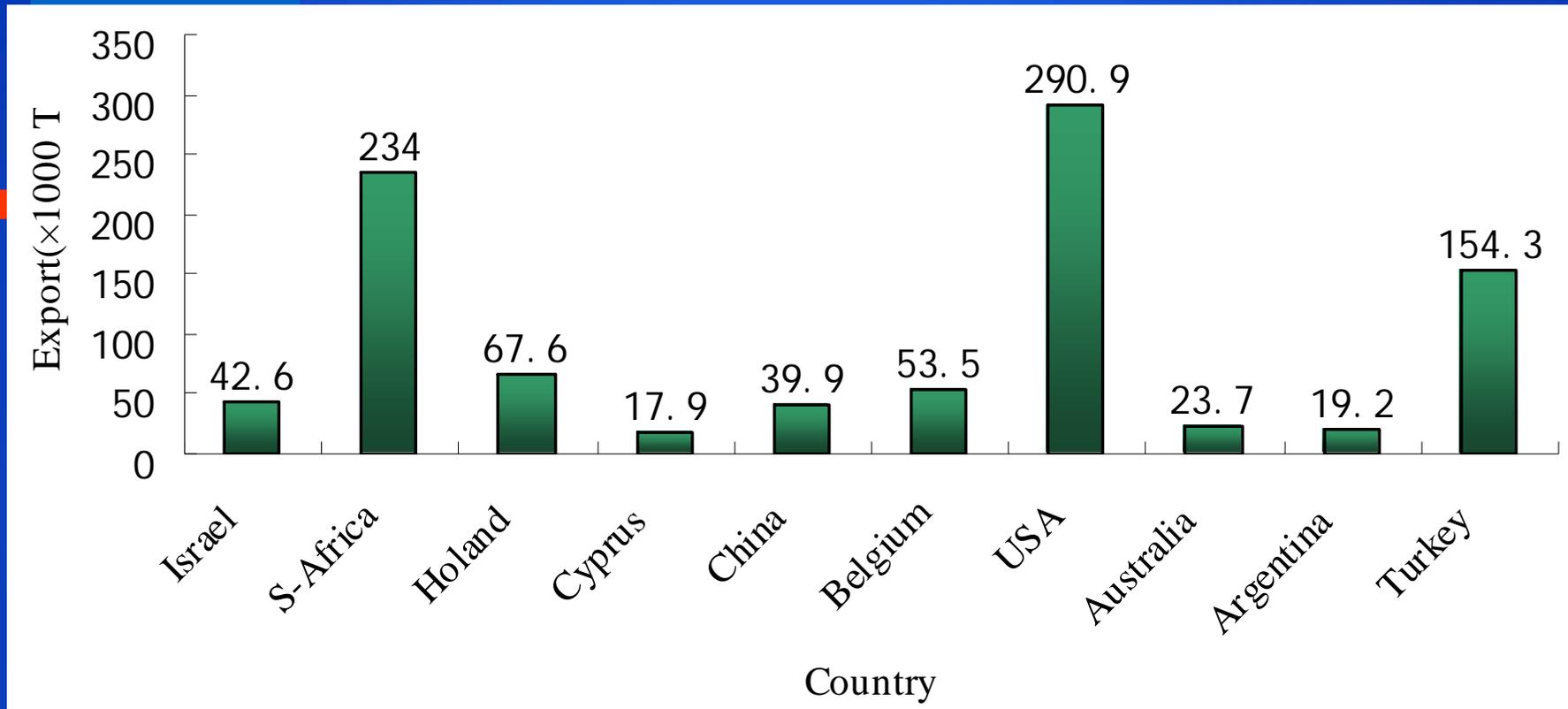
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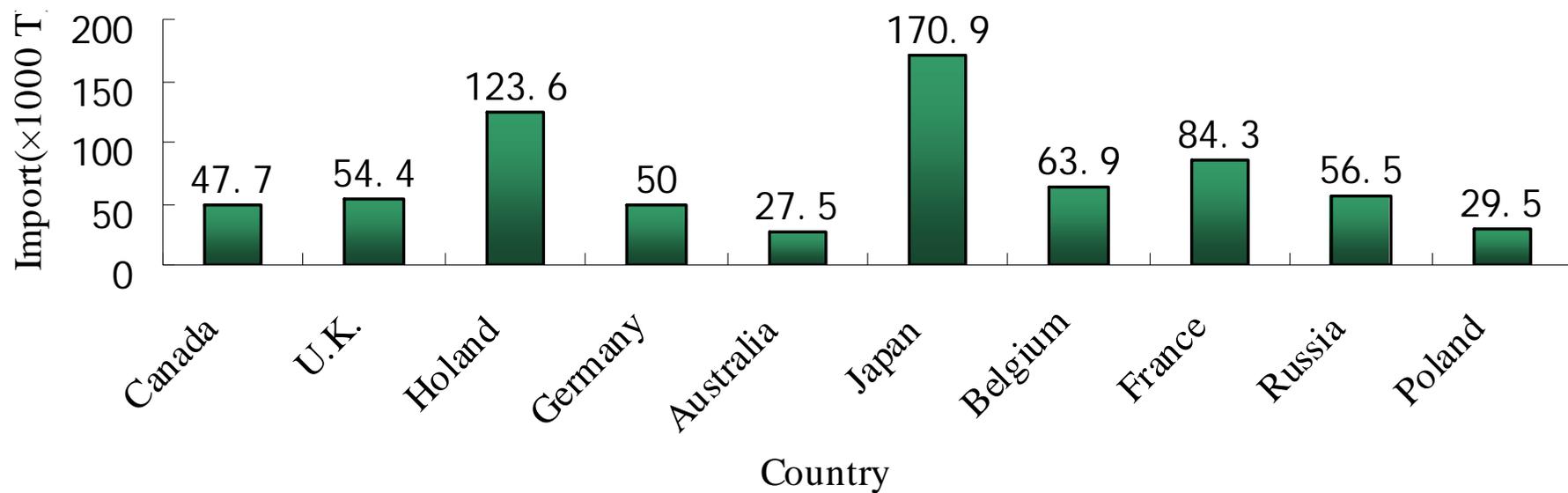
## The top 10 pomelo production countries (2005-2007)

Source: The data come from <http://www.fao.org> )



## The top 10 pomelo export countries(2006)

Source: The data come from <http://www.fao.org> )



## The top 10 pomelo import countries (2006)

Source: The data come from <http://www.fao.org> )

- **China is the country of the largest acreage of pomelo production, and its output rank second in the world, just next to USA**
- **There is a very long history (more than 3000 years) of pomelo cultivation.**
- **More than 200 cultivars recorded in China, including local and introduced . About ten cultivars are planted for commercially (Shatianyou, Guanximiyou, Wendanyou, Long'anyou and so on)**
- **In 2008: Cultivated area = 60060 ha,**
- **Production = 540546. tons, Yield = 9.0 tons/ha**
- **96% produced for domestic consumption**

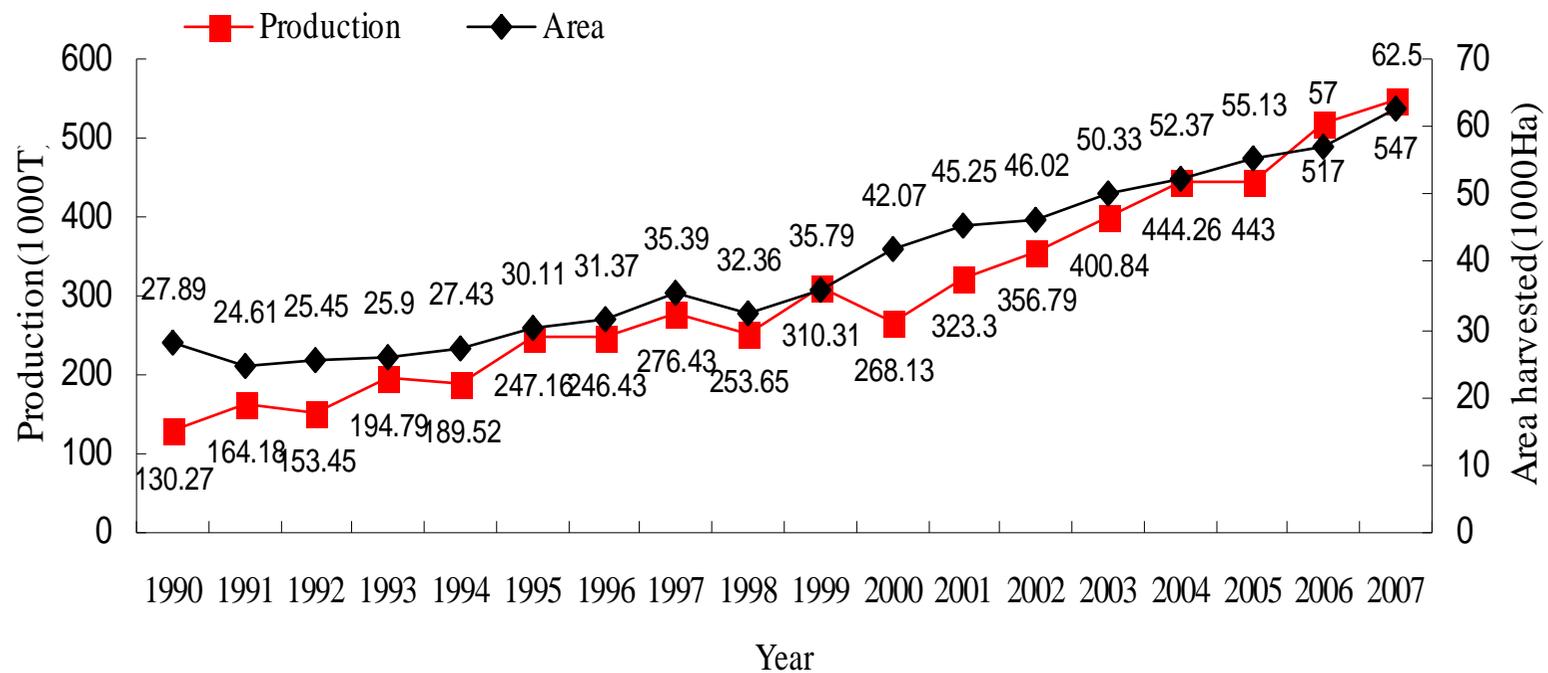
According to geographical feature , the climate and cultivars, the Chinese pomelo area has formed three cultivation centres.



**Southeast pomelo area** , including Fujian,Zhejiang and Taiwan, the main cultivars are Guanxi honey pomelo,Yufan pomelo,shiji pomelo and Wanbai pomelo, Hu Pomelo etc.

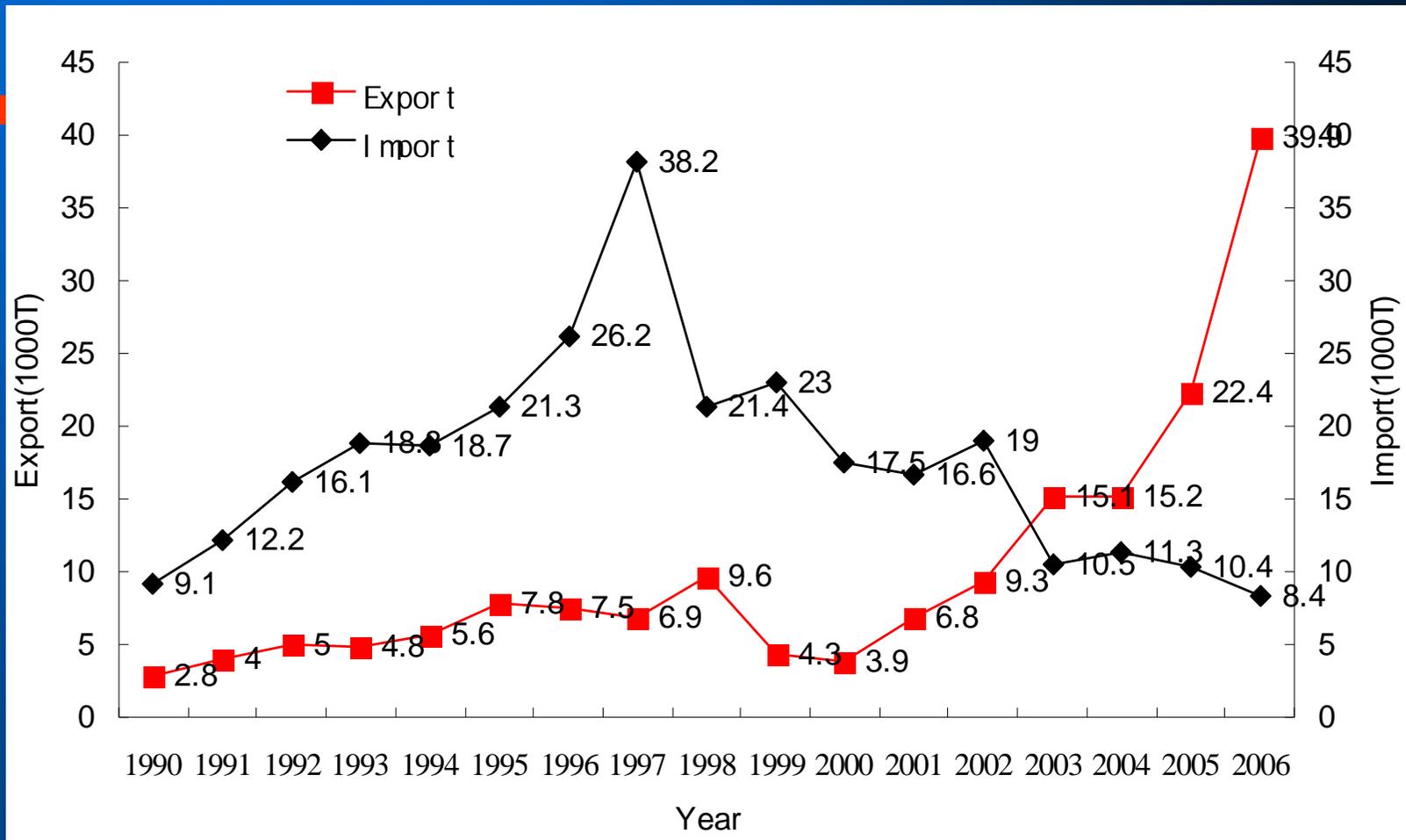
**South China pomelo area**, including Guangdong, Guangxi ,main cultivars is Shatian pomelo

**Southwest pomelo area**, including Sichuan, Chongqing, Hunan, Guizhou, main cultivars are Tongxian pomelo, Chuixiang pomelo and Dianjiangbai pomelo etc.



## The production and area of pomelo in China (1990-2007)

Source: The data come from <http://www.fao.org> )



## The change of import and export of pomeloes in China(1990-2006)

Source: The data come from <http://www.fao.org> )

**Export :** Holand, Belgium, Roumania,  
kraine, Canada Russia, United Arab  
Emirates ,The U.K. Japan , France,  
Germany , Poland

**Import:** USA (grapefruit ), Thailand,  
Mexico, Israel, India ,South Africa

表 1 我国柚类主要品种及其分布  
Tab. 1 Pummelo cultivars and its distribution in China

品种名	原产地	分布区	品种名	原产地	分布区
沙田柚	广西容县	广西、广东、四川、江西、湖南、云南等地	官溪蜜柚	福建平和	福建、广东、广西柳州等地
长泰文旦柚	福建漳州	福建漳州、广东梅县等地	玉环文旦柚	浙江玉环	浙江、福建、湖南、四川等地
五布柚	四川巴县	四川巴县	梁平早贡柚	四川梁平	四川梁平
下河蜜柚	福建云霄	福建云霄	坪山柚	福建华安	福建、广东等地
四季柚	浙江苍南	浙江温州、福建福鼎等地	慈江白柚	四川慈江	四川慈江
安江香柚	湖南黔阳	湖南怀化地区各县	脆香甜柚	四川苍溪	四川苍溪
渡口柚	福建同清	福建同清	金香柚	湖南慈利	湖南慈利、常德、石门等地
渡尾文旦	福建仙游	福建仙游	高梁柚	江西南康	江西南康
晚白柚	马来半岛	台湾、福建、四川、广西	麻豆文旦	台湾	台湾、福建
永嘉早香柚	浙江永嘉	浙江永嘉	八月柚	福建华安	福建华安、长泰
书都柚	福建龙海	福建漳州、华安、长泰	龙回早熟柚	江西南康	江西南康
凤凰柚	四川达县	四川达县	芦芝柚	福建漳平	福建漳平
岳柚 5 号	四川岳池	四川岳池	桑麻柚	广东顺德	广东博罗、顺德、紫金
村头柚	江西南康	江西南康	江坝柚	江西南康	江西南康
安江糯米柚	湖南黔阳	湖南黔阳	金兰柚	广东广州	广东、江西永新
安江石榴柚	湖南黔阳	湖南黔阳	毛橘红柚	江西南康	江西南康
夔府红心柚	四川东部	四川万县、涪陵、江津等地	红庙红心柚	湖南黔阳	湖南黔阳
蓬溪柚	四川蓬溪	四川各地	段氏柚	四川重庆	四川重庆、江津等地
大湖 5 号	广东大埔	广东大埔	早禾柚	广西桂林	广西桂林
特早熟柚	四川石棉	四川石棉	金沙 1 号柚	江西樟树	江西樟树
大马八斤柚	广东梅县	广东梅县	罗定无核柚	广东罗定	广东罗定
白富早柚	广东梅州	广东梅州	桔板柚	广西容县	广西、广东
化州橘红柚	广东化州	广东化州、广西玉林	白芽柚	广东梅州	广东
新都柚	四川新都	四川新都	丝线柚	广东南海	广东南海
红柚	湖南零陵	湖南零陵	东试早柚	西双版纳	西双版纳
赫白甜柚	湖北赫白	湖北赫白	横城甜柚	湖北枝城	湖北枝城
菊花心柚	湖南大庸	湖南大庸	通贤柚	四川内江	四川内江
湖滨蜜柚	福建古田	福建古田	桂花柚	福建漳平	福建漳平
小甜柚	云南西双版纳	西双版纳	曼赛龙柚	西双版纳	西双版纳
彭县道罗柚	四川彭县	四川彭县	祁东香甜柚	湖南祁东	湖南祁东
沙翁柚	湖南大庸	湖南大庸	常山胡柚	浙江常山	浙江常山
			酸柚	广东、广西、四川、湖南	

More than 200 cultivars recorded in China, including local and introduced

## Assessment of the Genetic Diversity of Pummelo Germplasms Using AFLP and SSR Markers

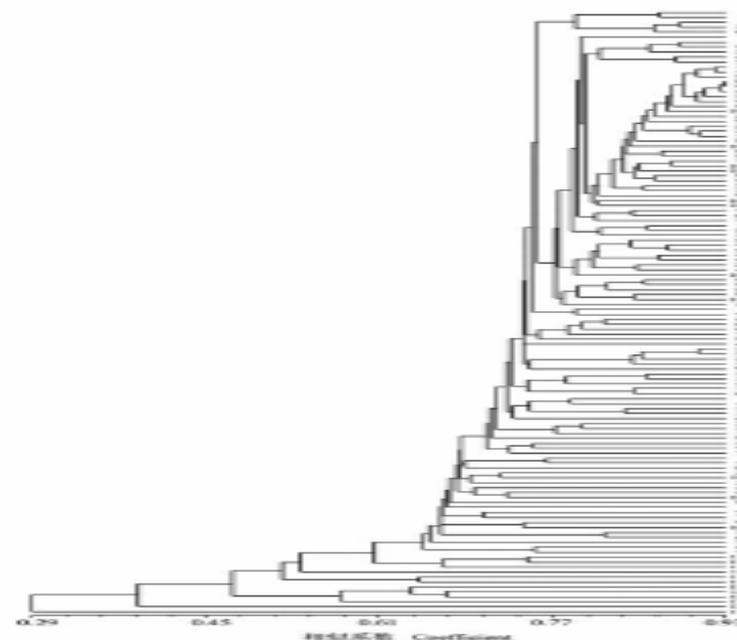


图 3 122 份柚及近缘种 UPQMA 聚类图  
Fig. 3 Dendrogram of cluster analysis for 122 pummelo genotypes and their related varieties based on AFLP and SSR markers



# ● The selection and breeding of variety



red-fleshed  
sweet pomelo



'Hushouyou'  
鄂审果  
2008002

Chuhongyou

# The pest and diseases prevention and control

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- **Molecular pathology and detection of citrus diseases**
  - **Techniques for establishing virus-free propagation system**
  - **Selecting and applying of natural enemies of insect pests**
  - **Selecting and developing of bio-pesticides**
-

# Eliminate virus



stock growing from seeds



Shoot-tip micro-grafting



Culturing in tube



Transfer-grafted to disease-free stock



Transplantation



Nursery of Disease-free Seedlings



**New  
Techniques to  
control pest**



# The Fruit storage and processing

- **Development of new products and by-products;**
- **Comprehensive utilization of processing residues, equipments and facilities;**
- **Post-harvest physiology and new technology of storage and shipment to keep fruit fresh;**
- **Development of new commercial packing technology and storage facilities and equipments**



**Washing**

**Packaging**



**storage**



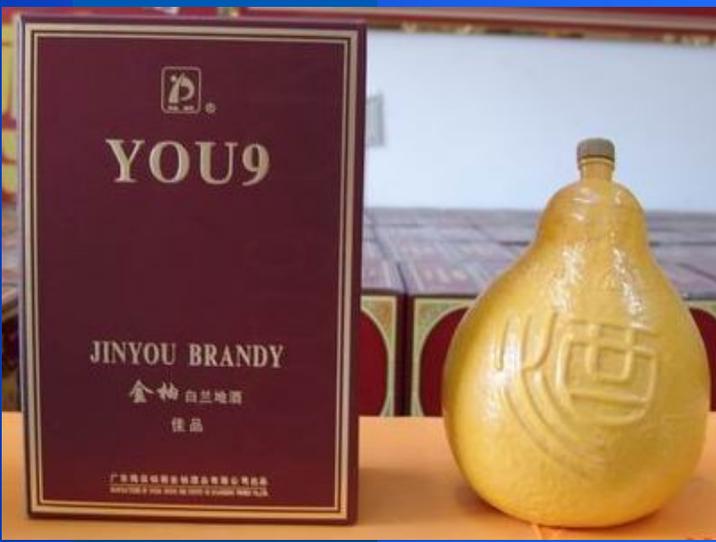
**Simple package , only  
for domestic market**





# Shatian Pomelo juice





Many kinds of Pomelo Wine

# Many kinds of pomelo processing Product



# Current main challenges of Chinese pomelo industry

## • The challenges of domestic market

The consumer have a lot of choice.

**Fruit species:** Apple, citrus, pear, grape, peach, litchi, longan.

**Citrus:** pomelo, Mandarin, sweet orange, navel orange, grapefruit

**Annual Production:** Facilities Cultivation technology adopted, papaya, banana in Beijing, Citrus in Shanxi province, pear grafted cultivation in southern area

**Prolong harvest season:** Navel orange (Nov. to April ), annual banana cultivation,

**Chinese changed their taste every more ten years.** Sweet to sour, red to green.

- Lack of the new excellent cultivars
- There are various disease , HLB , CTV、 CEV and so on

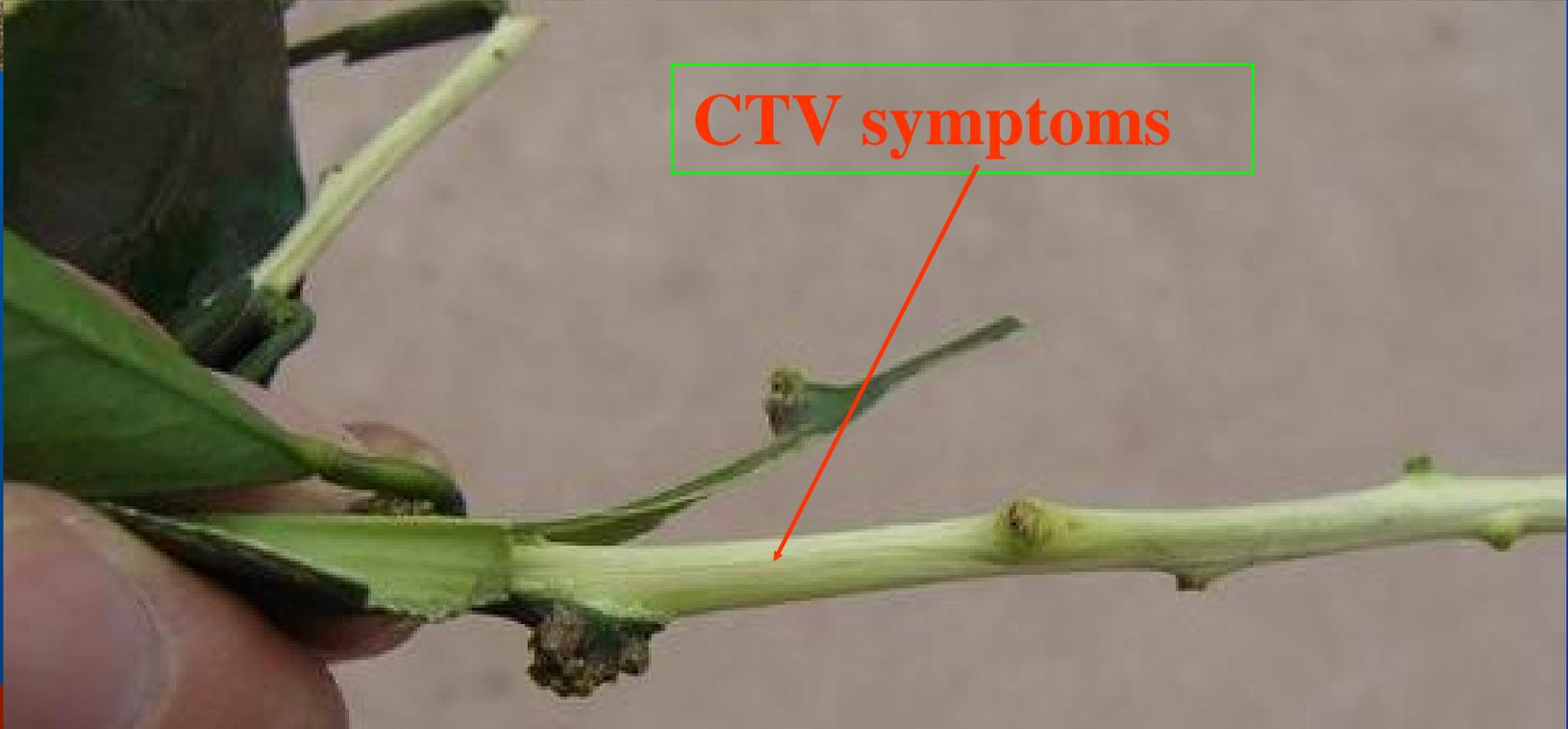


**Huanglongbing symptoms**

**Most characteristic leaf symptoms: blotchy mottle.**



## Huanglongbing symptoms



**CTV symptoms**

# Conclusion

- ✓ Because of the influence of diseases and disastrous weather, the pomelo production began to decrease from 2004. The world production quantity in 2005 dropped nearly 1/5 compared to that in 2004,
- ✓ China is the country of the largest acreage of pomelo production, and its output rank second in the world, just next to USA. In China, the production area and output increased steadily, and the growth rate speeded up gradually.

# Conclusion

- ✓ The production in China mainly supplies the domestic market. However, after 2000 the export quantity of pomelo rose quickly, so it indicated that the pomelo products of our country was accepted by the international market gradually and its potential was great.
- ✓ There are main challenges of Chinese pomelo industry

**Thank You !**

