

The Current Situation of Orchids' PVP in Taiwan



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Taiwan Seed Improvement and Propagation Station (TSIPS)

Introduction of TSIPS-1

OBJECTIVES

- Taiwan Seed Improvement and Propagation Station (TSIPS) is a institute for **research** and **production** on seeds / seedlings of plant.
- In order to fulfill the government's policies for **propagation** and **providing** seeds /seedlings, to assist the development of seeds / seedlings industry and to elevate the competitive capacity of seeds / seedlings industry, TSIPS is responsible for **studying on related seeds / seedlings technologies**.



The Sea of Flowers in Xinshe Festival, held every year in TSIPS.

Location of Taiwan



Location & Climatic condition of TSIPS



■ Headquarters

(Xinshe, Taichung)

Elevation: 500m

Average annual temperature: 21.1°C

Highest: 30.5°C (July & August)

Lowest: 9.6°C

(January & December)

Annual precipitation: 2,432mm

Area: 105ha

■ Pingtung Seed and Seedling Research Center

(Linluo, Pingtung)

Average annual temperature: 25.1°C

Highest: 29.1°C (July)

Lowest: 18.7°C (January)

Annual precipitation: 2,289mm

Area: 12.77ha

Introduction of TSIPS

■ Main functions:

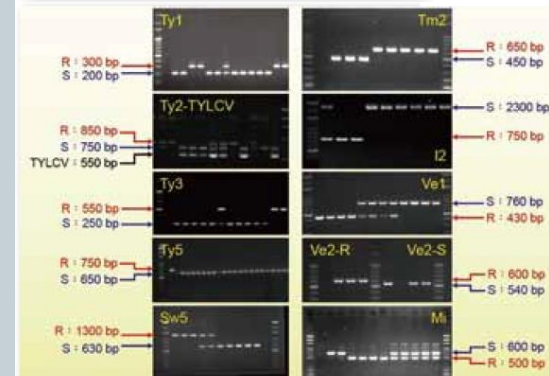
1. **Breeding** for new plant varieties with high quality and disease resistances.
2. Studies on efficient **propagation technologies** and systems of seeds / seedlings to increase the competitive capacity of seeds / seedlings industry.
3. Researches on **biotechnologies** and **bio-safety tests** to keep the leading advantages of seeds / seedlings industry.
4. Establishment and implementation of **plant varieties protection** to protect the breeders' rights.
5. **Providing novel information** and technical services of seeds / seedlings to implement techniques innovated by research in industry.
6. **Mass propagation** and providing high quality and healthy seeds / seedlings to implement government's policies.



○ 進行ISTA出口種子取樣與種子批封籤。
Sampling and sealing of exporting seed lot for ISTA certificate.



○ 組織培養用塑膠培養瓶之開發。
Plastic vessel for tissue culture.



Screening tomato genotypes for viruses or pests resistance gene.

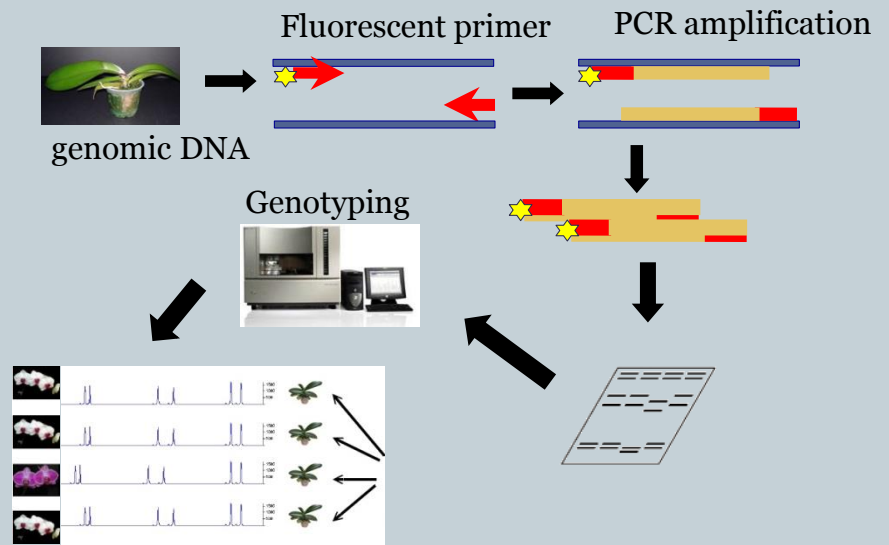


○ 馬鈴薯種苗4號
Potato- 'TSS No.4'

Introduction of TSIPS



- TSIPS has been assigned as the coordinator of the DUS organizations since May 1, 2008. The main tasks, including conducting **DUS test**, establishing **variety databases** and developing **variety identification** techniques for infringement.

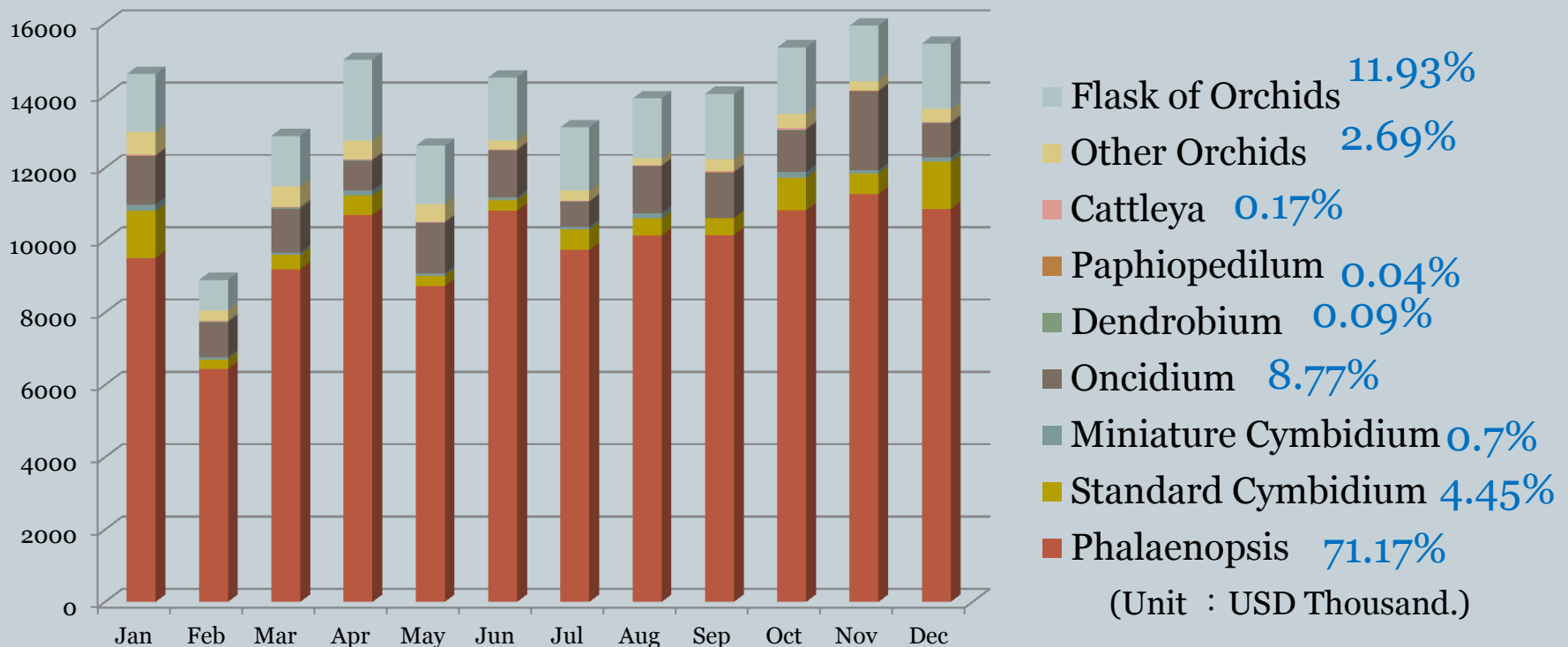


Development of genotype identification system using SSR markers.

Production and Marketing of Orchid



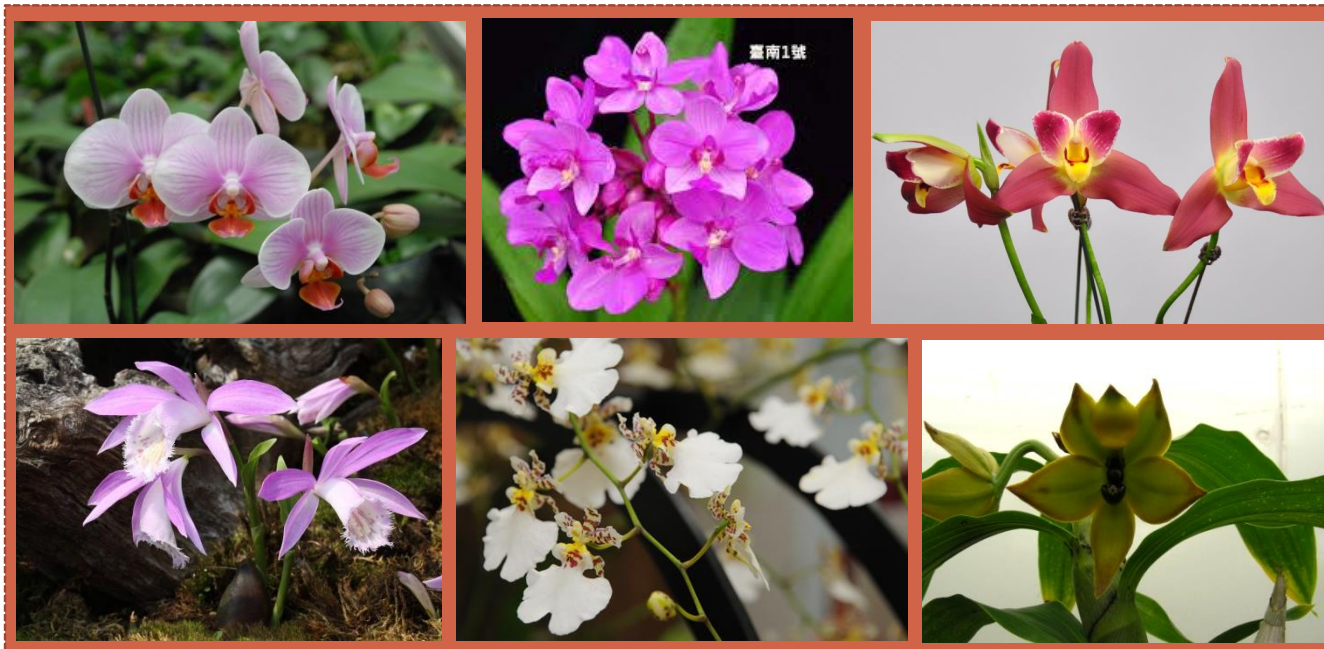
- Taiwan is the world's largest orchid exporter, export value of 2013 is **166.3 million USD**.
- Although orchid planting covers only **4%** of the overall flower cultivation area, the sales value covers **23** percent of the floral production value in Taiwan.



Monthly export value of Taiwan orchids in 2013.

PVP of Orchids in Taiwan

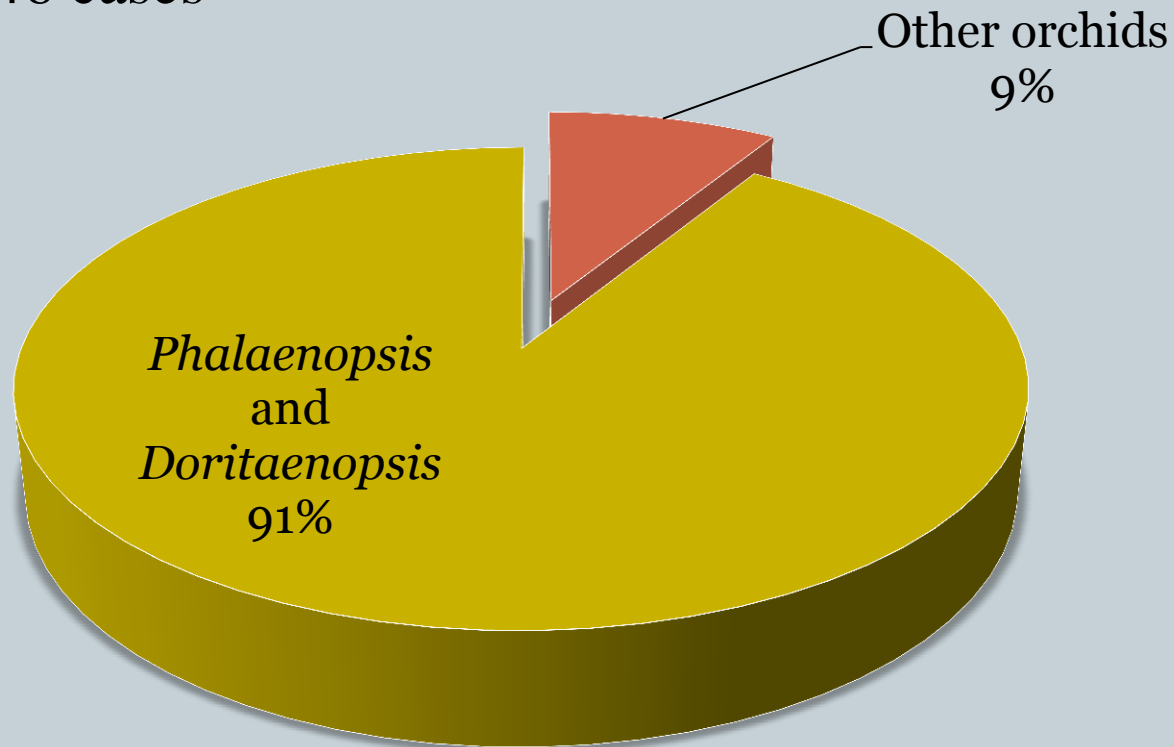
There are 14 orchid species have been public announced in Taiwan which could be applied for PBR , including *Phalaenopsis*, *Doritaenopsis*, *Oncidium*, *Cattleya*, *Dendrobium*, *Pleione* , *Cymbidium*, *Anoectochilus*, *Ludochilus*, *Epidendrum*, *Spathoglottis*, *Lycaste*, *Calanthe* and *Catasetinae* (including *Cynoches*).



TG of *Paphiopedilum* is in development.

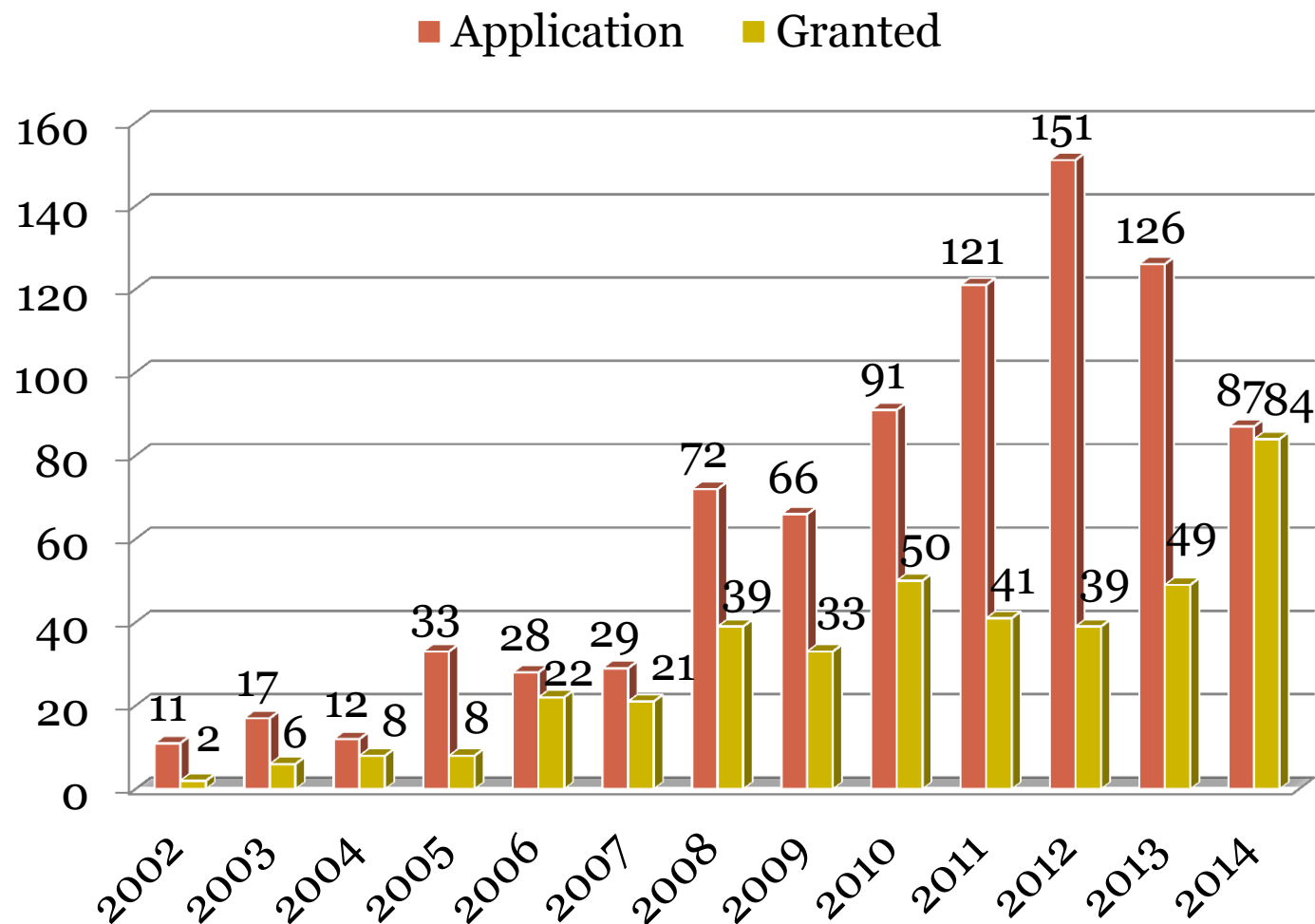
PVP of Orchids in Taiwan

Total=846 cases



Applications of orchids for PVR in Taiwan from 1991 to 2014.12.31

Numbers of Application and Granted cases of *Phalaenopsis* and *Doritaenopsis*



(~2014.12.31)

Number of Application and Granted cases of other orchids.

Types of Orchids	Application	Granted
<i>Oncidium</i>	61	42
<i>Pleione</i>	6	4
<i>Dendrobium</i>	5	5
<i>Cattleya</i>	3	2
<i>Ludochilus</i>	1	1
<i>Lycaste</i>	1	1
<i>Cymbidium</i>	3	1
<i>Spathoglottis</i>	2	2
Total	82	58



Den. Hamana Lake.
'Taichung No.1 New
Dream'



▲ A new hybrid species of medicinal dendrobium from interspecific hybridization- *Dendrobium* Taiseed Tosnobile cv. Taiseed Emperor No. 1.

(~2014.12.31)

Thank you for your attention.



The
Moment
臺灣國際蘭展
Taiwan International Orchid Show

2015/3/7 ▶ 2015/3/16

Business Hall Open: 3/6-3/11

國際蘭展
International Orchid Show

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✦ The first prize of Taiwan international orchid show (TIOS) in 2013. *Den. Usitae' L.S.F'*