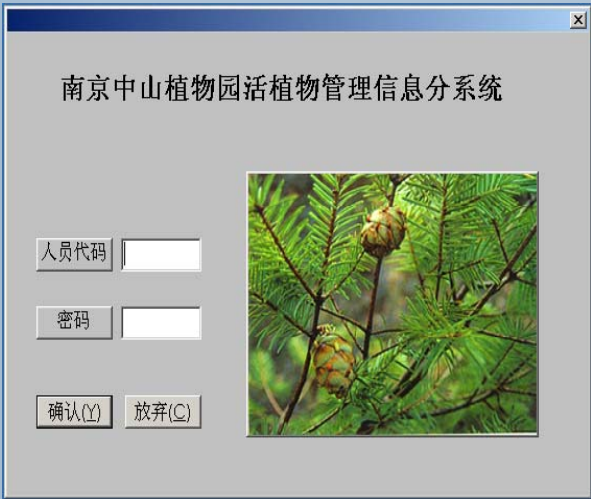# Management System of Living Collections Information and Planting maps for Nanjing Botanical Garden Mem. Sun Yat-Sen

Xia Bing, Chen Yinghui, Sheng Ning, He Shanan, Gu Yin
Nanjing Botanical Garden Mem. Sun Yat-Sen

Software development environment

Operating system: MICROSOFT WINDOWS 98/ME/XP/2000/2003
Database: MICROSOFT SQL SERVER 2000

Tool for software development

Programmable aids for database : POWERBUILD 9.0
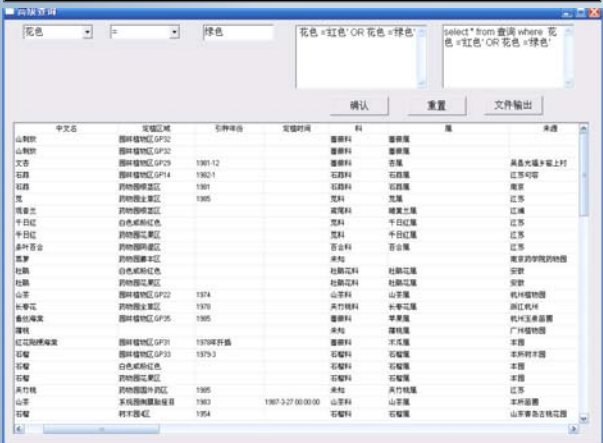**GIS graphic system:** MAPINFO

Main functions

Living Collections Information database has three parts: character of plant, introduction and planting. Every part has the function of entering, retrieve, maintenance, printing.
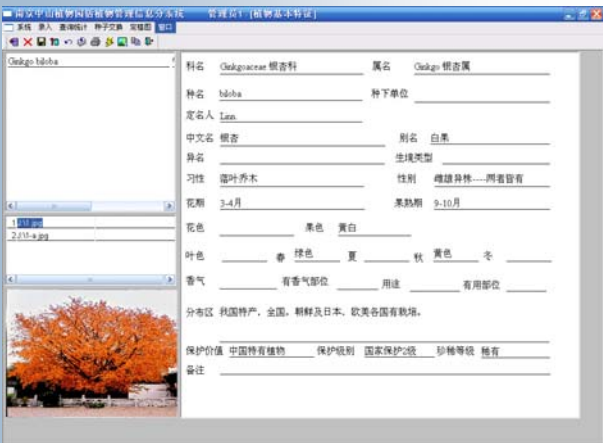
Various retrieve:
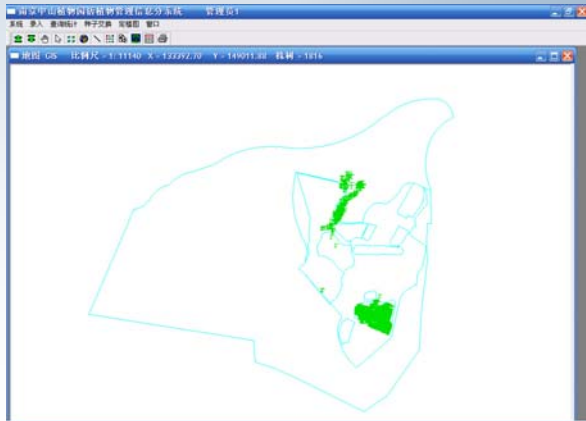- Full screen retrieve
- Fuzzy retrieve
- Penetrated retrieve
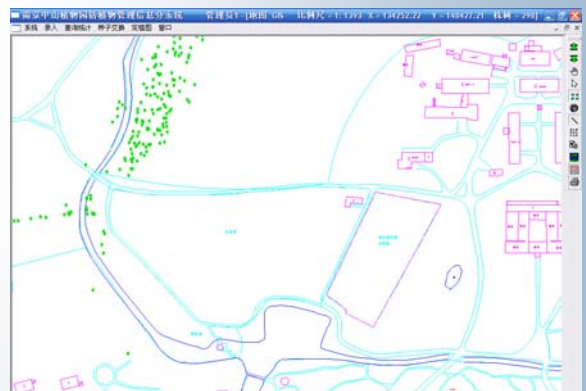
- Advanced retrieve with combined conditions

Comprehensive authority management

Depending on the coordinate values measured by wild plants, Management System of Planting maps dynamically generates map layers at real time.

Stepless zoom

Distance measurement
Flash function
Neighbor function
Layer control

The two-way inquiry between space data and property data

CONCLUSIONS

The data is visualized by fully utilizing the map information management ability of MapInfo and the powerful data access and operating ability of PowerBuilder. The two-way inquiry realizes combination for space data and property data. The system is greatly improves the capability of managing, querying, processing and analyzing the living plant information.