

The application of aquatic plants in leisure agriculture

Yueh-Shiah Tsay and Wen-Hwa Lin

Hualien District Agricultural Research and Extension Station

Abstract

Aquatic plant consists of a wide range of species. This paper discusses the required features of an aquatic plant applicable for leisure agriculture including: with special flowering characters or special colors, long ornamental period, with appropriate reproductive capacity but without damaging the natural ecology, with special story and so on. Using cyclic watering system and water purification principle, to construct an ecological aquatic garden, the combination of an eco-pond and landscape leisure facilities was available to use for leisure agriculture. The maintenance and management methods for aquatic plants and ecological park are also described in this paper, so that the aquatic plants can be sustainable. Finally, according to the results of observational studies in recent years, some aquatic plants suitable for local leisure farms were recommended: *Nuphar Shimadai* Hayata., *Nymphoides indica*, *Nymphoides coreana*, *Typha latifolia* 'Variegata', *Juncus effuses*, *Hemigraphis alternata* 'Exotica', and *Iris* spp.