

BIODIVERSITY FOR A BETTER WORLD

Wild Ideas Worth Sharing

St. Louis, MO • April 26-May 1, 2015

BGCI's 9th International Congress on Education in Botanic Gardens



















Traditional knowledge amongst local people about plants, nature and their environment is one of the world's most valuable and most endangered resources













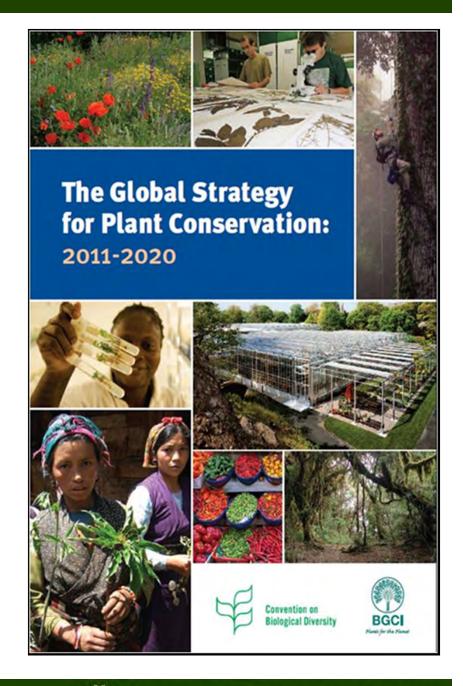






Global Strategy for Plant Conservation

- Target 13: Indigenous and local knowledge, innovations and practices associated with plant resources maintained or increased, as appropriate, to support customary use, sustainable livelihoods, local food security and health care.
- Target 14: The importance of plant diversity and the need for its conservation incorporated into communication, education and public awareness programmes.



International Workshop at the Missouri Botanical Garden



PETER WYSE JACKSON

WYSE JACKSON

> HE PAST AND PRESENT USES OF WILD PLANTS IN Ш Z D S G ENE ROUS NATURE IRELAND



IRELAND'S GENEROUS NATURE











- Conserve disappearing traditional knowledge on wild plants and their use in Ireland
- Make it accessible and available to support public awareness of native plants
- Raise awareness of the value and utility of wild plants
- Provide a botanic garden source book for education and interpretation
- Complete a compendium of ethnobotanical knowledge and vernacular names in Ireland



Ethnobotany and Botanic Gardens

- Important and accessible entry point for visitors to wild plant diversity
- Seeing the familiar through different eyes
- Intersection of science, botany, history, folklore, agriculture, horticulture ...
- Supporting a growing interest in foraging and wild food and herbal healthcare









Taraxacum officinale

Dandelion

- Leaves as a vegetable or salad
- Roots roasted as vegetable or for coffee
- Flowers as fritters and to make Dandelion syrup
- Liqueur



... nine traditional and locally grown & wild harvested botanicals:

Juniperus communis – juniper Coriandrum sativum - coriander Sorbus aucuparia - rowan berry Fuchsia magellanica – fuchsia Myrica gale - bog myrtle Erica cinerea – heather Anthriscus cerefolium - chervil Crataegus monogyna – hawthorn Angelica sylvestris - angelica



















Collections of artefacts







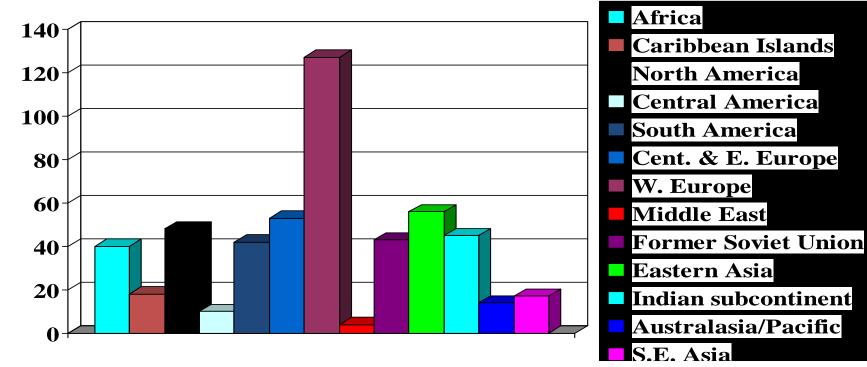






Distribution of medicinal plant collections in botanic gardens





First European botanic gardens – Physic Gardens

- Pisa (1543)
- Padua (1545)
- Florence (1545)
- Bologna (1547)
- Zurich (1560)
- Valencia (1567)
- Leiden (1577)
- Leipzig (1579)
- Paris (1597)
- Montpellier (1598)
- Oxford (1621)
- Uppsala (1655)
- Edinburgh (1670)
- Chelsea (1673)
- Berlin (1679)
- Amsterdam (1682)
- Trinity College Dublin (1687)









Dipartimento di Scienze Botaniche



Orto Botanico di Pisa 🥞





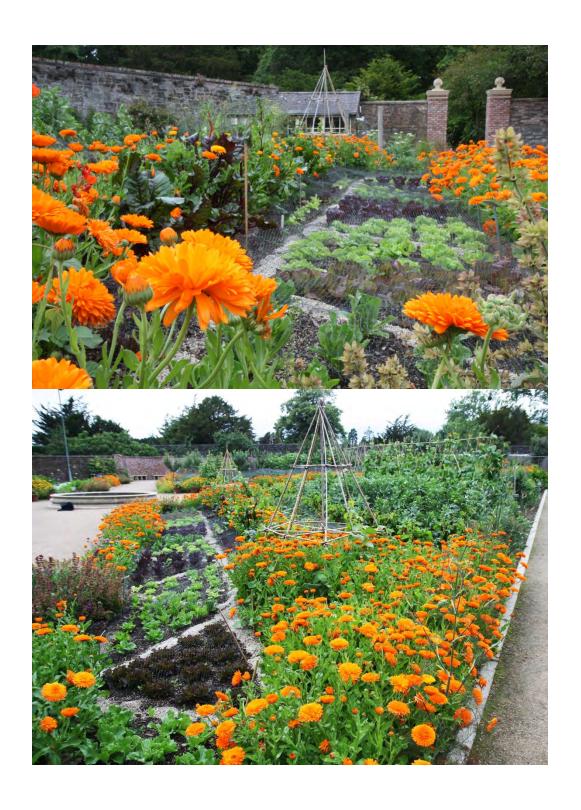
National Botanic Gardens of Ireland,

Glasnevin, Dublin





Organic fruit and vegetable garden











Great opportunities for hands-on classes, demonstrations – Making *Arbutus unedo* jam





Trying to piecing together a picture of plant use in Ireland when many of the pieces are missing.

Apparently little knowledge on wild plant use survives today in Ireland as part of an oral tradition.

Is present day usage of wild plants in Ireland a part of an unbroken tradition or a rediscovery of former knowledge?



Ireland's tragic disaster

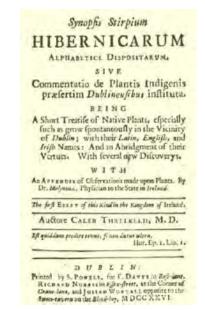
- The Potato Famine (1845-1852)
- 1 million people died
- 1 million people emigrated

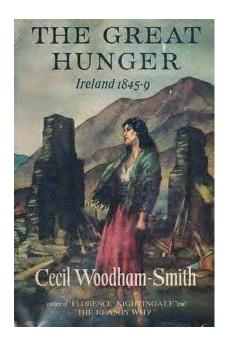
Methodologies – Gathering the traditional knowledge

- Literature sources
 - Botanical publications
 - Folklore texts
 - Historical travelogues
 - Biographies
 - Topographical and agricultural descriptions
 - Image collections (photographs and paintings)

- Place names
- Plant names
- Museum collections
- Interviews,
 questionnaires
 and other
 contemporary
 sources



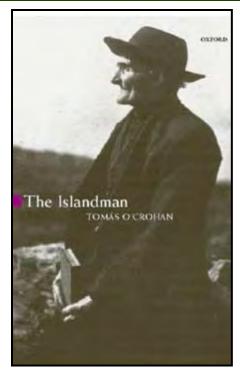




Plants were the greatest renewable natural resource in Ireland – food, shelter, fuel, fibers, medicines, timber

• Literary sources are often the only evidence of former use. E.g. Tomás Ó Crohan (*The Islandman - the Blasket Islands, Co. Kerry*)













	468 species used (>50%)	Total	%
•	Aphrodisiac	10	1 %
•	Aromatic	10	1 %
•	Beverage	78	8 %
•	Dye	102	11 %
•	Food	173	18 %
•	Fibre (including basketry, ropes and thatch)	47	5 %
•	Insecticide, pesticide or protection from vermin	12	1 %
•	Intoxicant or narcotic	5	0.5 %
•	Medicinal	292	33 %
•	Poison	4	0.4 %
•	Religious symbolic or as a protective talisman	42	5 %
•	Tanning leather	9	1 %
•	Timber	31	3 %
•	Ornamental	61	7 %
•	Other uses	137	15 %



Nature's Medicine Chest: Medicinal Plants in Ireland's Folk Tradition

Medicinals – 292 species used



"In every plant a cure; for every cure a plant"

 C. one third of all native Irish plants formerly used for medicinal purposes

Ethnobotany and traditional knowledge

- an opportunity for more botanic gardens
- Clear opportunities for many more botanic gardens to develop new and innovative education and awareness programmes related to ethnobotany
- Demonstrating the relevance of plants in people's lives
- Promoting greater connections between people, plants and the natural environment
- Contribution to conservation of traditional knowledge about the use of native and introduced plants
- Revitalisation of awareness of the utility of wild plants



