



Save The Plants

There are over 380,000 plants species recorded in the world and many more waiting to be discovered and named. Yet although the threat to the existence of many wild animals is now widely recognized, not many people are aware that plants are also in danger. In fact 22% of the world's plants are threatened with extinction, that's over one in every 5 plants!

Large areas of desert around the world bear testimony to people's destruction of vegetation. Most of the biblical 'land of milk and honey' in the Middle East is now desert or is being rehabilitated at great expense. Many bare and eroded lands around the Mediterranean once supported forests. In many parts of Africa and India cattle and goats wander the stony plains eating up any scrap of green that manages to appear on what were once good pastures. Overgrazing by domestic and feral stock is, in fact, the greatest menace to plants, although 'raids' by botanists and other enthusiasts on some beautiful plants have sometimes exacted a serious toll on rare species.

Perhaps people forget that all our domestic crops and garden flowers spring from wild stock. Just as important is the fact that plants provide a high proportion of medicines in modern use. Who knows what secrets of value to mankind are still locked away among plants awaiting discovery. Tropical rainforests are where a quarter of the active ingredients in modern medicines were first discovered. Yet they are the most threatened habitat in the world containing 63% of the world's threatened plant species.

One of the greatest threats to plant species is the conversion of natural habitats to land for agricultural and livestock use, for example where rainforests are destroyed in order to graze cattle or grow soya, an animal feed or palm oil. Britain's ancient woodlands are also under threat, many areas having already been planted with conifer trees instead. Ancient woodlands are special because they must have been there for at least 400 years and are a niche of biodiversity supporting plentiful wildlife, specialist eco-systems which have been operating for hundreds of years.

When it comes to food, people have worked through the centuries developing the strains of wheat, rice, barley and other crops from wild varieties. Having used the primitive stocks, the wild varieties have been neglected with the result today that many are being lost as natural vegetation is cleared for cultivation. Does it matter? Yes! The experts are already sounding warnings that new varieties which are helping to feed our growing numbers are often less resistant to disease, and that it may be only reaching back to genes in the wild stocks that diseases can be fought.

A large proportion of our diet is supplied by four cereals - wheat, rice, maize and sorghum. Imagine, if you can, the scope of the disaster if one of these should fail or if some new virulent disease should appear with

which we are unable to cope in time. In a very real sense the fate of the human species depends on our ability to understand and exploit the gene bank of cultivated plants.

In Britain alone there are over sixty-one plants that have become so rare that they are protected by law. Some of these are:

Alpine gentian

Killarney fern

Spiked speedwell

Oblong woodsia

Ghost orchid

Snowdon Lily

Blue heath

Diapensia

Wild gladiolus

Red helleborine

Alpine woodsia

Mezereon

Monkey orchid

Tufted saxifrage

Alpine sow-thistle

Drooping saxifrage

Spring gentian



Cheddar Pink

Ladies Slipper Orchid

Kew Garden's Millenium Seed Bank Partnership is an ambitious project with a mission - to collect and store the seeds from a quarter of the world's plant species by 2020. They've made a good start and already have 10% of the world's rarest and most useful plants and eventually hope to have over 1 billion seeds in their bank!

Coming soon....

download the latest version of the Yippittee, all about plants!

Useful Links:

Acid Rain

<http://www.ypte.org.uk/environmental/acid-rain/1>

Britain's Disappearing Habitats

<http://www.ypte.org.uk/environmental/britain-s-disappearing-habitats/40>

Britain's Rare Flowers

<http://www.ypte.org.uk/environmental/britain-s-rare-flowers/16>

Desertification

<http://www.ypte.org.uk/environmental/desertification/22>

Genetically Modified Foods

<http://www.ypte.org.uk/environmental/genetically-modified-foods/6>

Rainforests

<http://www.ypte.org.uk/environmental/rainforest/89>

Useful Websites:

IUCN Red List

<http://www.iucnredlist.org/>

Kew Gardens Seed Bank

<http://www.kew.org/support-kew/donate-now/global-conservation/>

Explore the state of the world's plant life

<http://www.kew.org/science-conservation/search-rescue/mapping-plants/plants-at-risk/explore-plant-life/index.htm>

The Woodland Trust

<http://www.woodlandtrust.org.uk/en/Pages/default.aspx>

Botanical Society of the British Isles

<http://www.bsbi.org.uk/>

Natural England - Biodiversity

<http://www.naturalengland.org.uk/ourwork/conservation/biodiversity/importance/default.aspx>

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