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Protection of the Maltese Top-shell, an Extremely Rare and Endangered Species

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Abstract

The most characteristic terrestrial ecosystems are those represented by the Mediterranean scrubland, of which the marquis, garage and steppe are the main types present - evergreen woodlands are all but extinct and only four relict patches occur. Marine communities include those characteristic of both hard and mobile substrata. Human impact is significant, and human ecology, the population density is the highest in and built-up areas have increased from in the past. Some is agricultural land and of the area is undeveloped, but even so, no wilderness areas remain. The management practices of the islands include mainly that c concerned with agriculture, animal husbandry and herding, and the use of fire, which all proved to be detrimental to the local biota, mainly through habitat destruction, the removal of competing species and the introduction of alien ones, particularly goats, rabbits and sheep

Keywords: Mediterranean • Agricultural • Species

Introduction

All these human activities have put great stress on the Maltese biodiversersity, with a consequent impoverishment of the flora and fauna. Other animals are collected for food, mainly to be eaten in situ as in the case of many seafood's particularly limpets, Patella spp., sea urchins, particularly, and some types of the Algerian hedgehog the Maltese freshwater crab fluviatile the painted frog and occasionally snakes. In the past both the frog and the freshwater crab were used as food and it is recorded that a broth made from frogs used to be given to sickly children [1]. It was also a common practice for children to catch skinks, oscillates, which were then sold to apothecaries who used them for the preparation of pharmaceuticals. In spite of it being covered by protective legislation, the loggerhead turtle carta is still caught for food. Over the centuries a large of wild plants has been exploited on a considerable scale. Many species have been and some are still, used medicinally examples are Maltese, and rue. Of special note is the inappropriately named "Malta Fungus", a parasitic flowering plant to which were attributed a variety of medicinal and magical properties and which was once a valued product, the distribution of which was entirely under the control of the Order of the Knights of St. John. There have been sporadic attempts to grow some medicinal plants commercially, examples being squirting cucumber, elaterium and seaside, and it seems that renewed attempts in this direction are under way. Medicinal plants are often prescribed by traditional herbalists, whose knowledge has been transmitted by word of mouth over the generations. This breed of herbalists is dying out to be replaced by a new breed of more sophisticated but not necessarily any more efficacious practitioners [2].

Several species are used for food or fodder [3]. The carob, olive, fig and pomegranate trees were probably introduced in antiquity. The carob is still used, mainly for animal fodder, but also for human consumption as and for sweetmeats. The olive used to be grown for its oil, but is now no longer

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The milk-vetch Astragalusbaeticus used to be grown on a limited scale and used like coffee, either on its own or mixed with real coffee. In the case of traditional fodders, it is often difficult to establish whether they are wild plants which were taken into cultivation, or cultivated fodders which have run wild [5]. Apart from the most commonly grown species, Hedy arum, which was almost certainly imported, one may mention the white vetch, Lathrup and the common vetch, Viciasativa. This last is also sown around Christmastime and grown in the dark for blanching. It is then used for decorating Christmas cribs [6]. The great reed, around Dana, was probably introduced in antiquity and has become widely naturalized. It is still harvested to be used for fencing, basketry and curtain making [7]. The narrow springy twigs of the chaste-tree, Vitec Agnus, were used and are still, to a very limited ex tent, owing to its rarity as supports for basketwork, in mu the same manner as willow twigs are used elsewhere, were, and to a limited extent still are, used for be sentry as were the leaves of Biodiversity Conservation and Utilisation in the dwarf fanpalm, Chimaeras homilist, now extinct in the wild. The sea-grass, ocean, sheds its leaves which accumulate as thick masses, known as banquettes, on the

seashore. This material is sometimes used as a fertilizer. Wild plants have also been widely y used as firewood. Whenever there were wars and invasions, trees were cut down for burning a practice which must have contributed greatly to the loss of Malta's tree cover. Other plants have also been regularly used as kindling, notably the yellow rest harrow, Onions matrix , while the phagnalons, Phagnalon spp. and some bracket fungi, mainly Phellinus., have been used as tinder [8].

The Mediterranean thyme, Thymus capitates, is frequently collected around Christmastime to decorate cribs, notwithstanding the fact that it enjoys legal protection, while leafy olive twigs, mainly of cultivated origin, are used during Eastertide particularly for Palm Sunday celebrations. Many species of indigenous plants are also cultivated as ornamentals. This includes a number of indigenous trees including holm oak, Quercusilex, Tamarin, sandarac tree, Tetraclinis articulate Aleppo pine, Pinups halepensis and dwarf fan-palm, Chimaeras homilies. The last two are virtually extinct as wild plant s, but the pine has been reintroduced in afforestation schemes and is regenerating, and there is no reason why the palm cannot also be reintroduced. In public gardens one may see the Mediterranean heath, which has become popular as an ornamental plant since, in, it was declared the National Plant of Malta. The seaside shrub, a triplex thalamus is widely cultivated as a hedge. Attractive wild flowers, particularly French daffodil, Narcissus gazette, are often picked in large quantities to be sold. Others include branched asphodel, Asphodels aestival common pyramidal orchid, Anacamptis pyramidalis Mediterranean heath, Erica multiflora corn-flags, Gladiolus southern iris [9].

Pheasant's eye, Adonis microcap, has been driven to near extinction as a result of this practice. Also, leaves of the giant fennel, Ferula communism, are often used as greenery by florists. Human Influence on local Biodiversity the Maltese Islands were settled around by an agricultural pastoral society. The islands have been experience ng considerable, and at times intense, anthropic pressure ever since. The present population is of about with a population density of as the highest in open and is projected to reach by the year. Such a high population density is augmented further by tourist arrivals, which are currently about one million annually. Such a high population density creates a considerable e stress on natural Biodiversity Conservation and Utilisation in the Maltese Islands. Habitats and their biota, and the islands' biodiverse risky are under threat and ever decreasing [10]. In fact, human influence is a key feature of the islands' ecology. Human activities have created a variety of habitats such as cultivated and abandoned fields, private and public gardens, road verges, and land cleared of the natural vegetation cover for a variety of purposes. Much of the land area is given either to agriculture or is built over and only some of the land area can be descry bed as undeveloped, although even this is greatly influenced by hum and activities.

Conflict of Interest

None.

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