Hanging in There by a Fall – The Oncocyclus Irises of Lebanon
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Respectfully submitted to the British Iris Society, 4th August 2003
Status: accepted

Introduction
Ask someone to name a plant from Lebanon, and the first one that often comes to mind is the majestic Cedar of Lebanon (see Talhouk et al., 2001 for a recent review). However the Mediterranean basin is one of the world’s hotspots for plant diversity, and there are many plants native to Lebanon that merit equal attention. Amongst these are the extraordinary wild irises of the Levant.

Oncocyclus irises are rhizomatous irises with showy large flowers that are native to the Middle East and Transcaucasia. The flowers vary in colour from a very dark purple to white, and are often veinated. Oncocyclus is a Greek word, with onco- meaning mass, or bulk, and -cyclus meaning circle. This is believed to be in reference to the single dark patch on the falls of oncocyclus flowers.

These beautiful flowers have fascinated horticulturists since ancient times. There are references to them in documents not only from ancient Egypt and Persia, but also in the Holy Bible and Dioscorides, the classic 6th century medical herbal.

Irises in Lebanon
It is difficult to state with any accuracy the exact number of iris taxa native to Lebanon, since the taxonomy of irises in the region suffers from a lack of field and phylogenetic research and an associated taxonomic ambiguity. Mouterde (1966) lists 8 Iris species that are native to Lebanon; however, this work is in fundamental need of updating. Two examples of Iris species currently found in Lebanon are I. histrio and I. palaestina.

There are four oncocyclus iris species described from Lebanon, but today only two species can be confirmed as surviving in the wild, Iris sofarana and I. cedretii. The status of the two remaining species in Lebanon is unclear but it is suspected that they are highly threatened (see below).

Oncocyclus species
Iris sofarana is the most widespread species of oncocyclus iris in Lebanon, with two subspecies I. sofarana subsp. sofarana and I. sofarana subsp. kasruwana. Both grow on rocky slopes at high elevations (1300 m -1700 m). The subsp. sofarana is a tall (40 cm) plant with flowers lightly marked with purple to maroon veins and dots on a white to blue ground (picture 1). The subsp. kasruwana differs by having the standards paler in colour than the falls. The colour nuances are numerous and the two subspecies are usually found growing in the same locality.

Iris cedretii is found in the Cedars area above Bsherri at elevations going up to 1900 m. It likes a sunny, well drained, rocky habitat. For the inexperienced eye, it could be easily taken for a shorter variant of I. sofarana.
Iris westii and I. lortetii are two species described in Mouterde (1966) and Dinsmore (1934), both of whom record their distribution in the southern hills. However, heavy mining during the recent war has meant that the localities mentioned are not accessible and we therefore cannot verify the status of these two species.

Our field work on oncocyclus irises has revealed that several populations that were previously recorded in floras and travelogues up to the late 1960s no longer exist. This is primarily due to urbanisation. Other effects of the recent war in Lebanon (1974-1990) have had their toll on natural habitats and native plant species, in particular the increase in quarrying and in the unsustainable harvesting of the iris flowers.

What’s in a name
The collective name for irises in Arabic is sawsan, with the singular being a sawsana (pronounced saū-san). This name has its roots in Aramaic, the parent language of both Arabic and Hebrew. The name in Hebrew is shoshana. The ancient Egyptians had a flower they called sushan, and in ancient Persia there is a susi or soosamn. Evidence that these are probably the same as sawsan comes from an illustration of an iris from the medicinal herbal written in 512 A.D. by Dioscorides, a Greek physician of the time and arguably the father of botanical study. This manuscript, which is housed at the National Library of Austria in Vienna, was found by the Austrian court in Constantinople in 1562 (Hobhouse, 1996), and has writing on it in Arabic script, which was the alphabet used by the Turks up until Atatürk introduced the Latin alphabet in 1928. The transliterations of the Arabic writings on this picture are, in order from the top: īreess, sawsana sama-nijwana, and īrsā. These are probably the various vernacular names of this plant at the time. The first and last names are reminiscent of Iris, pronounced as in the French Iris, and the middle name starts with the Arabic name sawsan and then has a suffix suma-nijwana. It is unclear what this suffix means, the authors are in consultation with an expert in ancient Turkish who might be able to help.

There are several references to sawsan in the Old Testament, and they are mostly in the context of beauty, tranquility and perhaps strength. Some refer to architectural motifs (1 Kings 7:19, 22, 26; 2 Chronicles 4:5) and others to natural or human beauty (Song of Songs 2:1, 2, 16; 4:5; 5:13; 6:3; 7:2; Hosea 14:5). These references were found in an Arabic language Bible, where the term sawsan is used. In the English language Bible that was referred to, however, the names used were not iris, but lily of the valley, lily and lilies. The authors wonder whether the misnomer in English began with the Fleur de Louis of the 11th century, which was an iris motif adopted by the French military of the time. The name has since been shortened to Fleur de Lis, or simply the lily. Hence we suggest that this is the same name as Susan in English, Suzanne in French, and Azucena in Spanish.

In fact, there is a horticultural taxon of oncocyclus irises called Iris susiana which was the first to be cultivated in Europe. It was brought from Istanbul in 1573, where it was already in cultivation. Iris susiana is thought to have originated in Syria, which in the 16th century included the lands of Lebanon. Since there are no records of any populations in
the wild, some experts think it is a domesticated variant of *I. sofarana*. Nevertheless, its name is a further indication of the prevalent common name of the plant in that area.

**Conclusions**
The oncocyclus irises are some of Lebanon’s most interesting and most threatened plants. A thorough assessment of the distribution, population viability and genetic diversity is being undertaken in order to protect these beautiful, rare plants and the habitats in which they live.

**Acknowledgements**
The authors thank Dr. Gregory Mahy, Faculté Universitaire des Sciences Agronomiques de Gembloux, Belgium, Dr. Salma Talhouk, American University of Beirut, Lebanon, Dr. Mike Maunder, Fairchild Tropical Garden, Florida, USA, and Mr. Tony Hall, Royal Botanic Garden, Kew, UK, for valuable discussions. Our thanks also to Dr. Johann Heise, University of Göttingen, Germany, for the illustration from the Vienna Dioscorides.

**Bibliography**


