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## Dasylirion wheeleri

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### Dasylirion wheeleri

Colin C. Walker

Dasylirion is a genus that is not often encountered in cultivation in this country, because the plants are generally largegrowing and hence not readily accommodated in pots in our usually smallish greenhouses. The plants are drought tolerant or xerophytic rather than true succulents. The genus was first described in 1838 and now includes 22 species according to the latest survey (Hochstätter, 2011). It currently belongs to the family Ruscaceae or the Asparagaceae, depending on whether you adopt a narrow or broader view of families. Until recently it was part of the much smaller family, the Nolinaceae, that included just four genera, but as a result of recent molecular studies this family is no longer recognised. The most familiar genus closest to Dasylirion is Beaucarnea, of which B. recurvata, with its large swollen stem is a very common plant in cultivation, since it is often found for sale in garden centres (Walker, 2001).

Dasylirions are short perennial shrubs with thick unbranched stems crowned with dense rosettes of leaves with flowers on tall, thin spikes. The name Dasylirion comes from the Greek: "dasy" means "shaggy" and "lirion" is lily. This relates to the shaqqy, unkempt appearance of the plants, in which old specimens have large numbers of dead leaves clothing the stem. Plants have a fountain-like arrangement of the long, narrow, flat leaves.

The key feature that characterises plants from eating them! of this genus is that the leaf margins are usually prickly. The individual prickles can be straight, curved forward or recurved towards the leaf base. Some species have a mixture of different prickle arrangements and some have smaller prickles between the large ones. These I encountered Dasylirion wheeleri in prickles are vicious, giving the leaves the cultivation at the Lady Bird Johnson appearance and feel of small serrated Wildflower Center in Austin, Texas. The kitchen knives that clearly deter animals species was named for Lieutenant G.M.



Colin admiring Dasylirion wheeleri flowering in June at the Lady Bird Johnson Wildflower Center, Austin, Texas. Photo: Marjorie Thorburn.

The genus is distributed throughout Mexico as far south as Oaxaca, and north into the southwest USA in Arizona, New Mexico and Texas, but it is absent from California.



Rosette of Dasvlirion wheeleri showing the long slender leaves armed with vicious prickles.

Wheeler, who was leader of the geological and geographical survey of SW USA during which the species was So, D. wheeleri is an attractive plant discovered in 1875 in Arizona. It is now known to be one of the most widespread root room to enable it to reach its full species, occurring in Arizona. New potential. My own single potted specimen Mexico and Texas and south into Mexico (Sonora and Chihuahua), where it grows become if it could be bedded out. I in grassland, open woodlands and scrubland. It reaches its eastern limit in more space than I do. But be warned: if the Franklin Mountains north of El Paso, Texas, where the plants are especially because it bites back with a vengeance! large and robust. It forms an attractive Finally, I thank Marjorie for the photo of shrub with a single, unbranched stem up me with a splendid specimen of D. to 1.5 m tall with large numbers of arching, recurved leaves up to 1 m long but only about 2.5 cm across. The leaves are blue-green (glaucous) and nearly smooth, but as is typical for the genus, References the leaf margins are armed with sharp, slender, straight to recurved prickles. The flower spike is slender and rises dramatically up to 4 m in height, as can be seen in the accompanying photo, and carries thousands of very small greenish- Walker, C.C. (2001) Dasylirion. In U. white flowers. Each plant produces only Eggli (ed.) Monocotyledons. Illustrated either male or female flowers and hence Handbook of Succulent Plants. Springeris described as being dioecious.

In cultivation the plant apparently has a tendency to rot in heavy soils and so requires good drainage.

Dasylirions have many uses and are commonly known by the Indian name of "sotol". The stems were used for building (posts in houses and corals) and for fuel. The leaves are trimmed off the stem and the remaining stump is roasted or boiled and then allowed to ferment to produce an alcoholic beverage, in much the same way that agaves are used to produce pulgue, mescal and

tequila. The leaves are much used for thatching, or are woven into mats or baskets, whilst the dried and varnished expanded leaf bases, so-called "desert spoons", are used in flower arrangements.

when it can be grown with unrestricted is merely a shadow of what it might recommend this plant to those who have you ever encounter it, treat it gently

wheeleri.

#### Colin

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Hochstätter, F. (2011) Dasylirion Zucc. (Nolinaceae) Revisione del genere/ Revision of the genus. 1-3. Piante Grasse *31*(1): 25-30; (3): 106-122; (4): 162-181.

Verlag, Berlin.



### More on Dasylirion from Roland

Roland had a preview of this mag and noticed a blank space. Now filled thanks!

Roland saw this flowering Dasylirion at Kew. The information board noted that flowering is rare in the UK. Also the plant is dioecious and male flowers are white. females pink.

Kew commented that the flower spike was growing at a tremendous rate. Before the glass was removed, it grew nearly 50cm in 24 hours!



#### Update on Viscum minimum Llovd Gordon

Ed: You will remember that Lloyd wrote us an interesting account of how he 'sowed' seeds of Viscum minimum on Euphorbias. (with inherent problems as he lives in Canada). We left the account waiting for something to happen.

After a few months, I figured the seedlings were on their own. No misting, just the usual plant care. I noticed some seedlings withered and dried up, others stayed green and plump. The haustoria on the

Euphorbia horrida seemed to be coming a bit off despite the epoxy glue. Nothing happened for a long time.

Then I noticed a green bump on the more have shown up on the E. polygona Yet.

while the E. horrida just has two growth points, one right next to a haustorium and one a bit away.

#### LLovd

whitish integument of the E. polygona. Ed: You can guess I rushed to inspect Sure enough, there were multiple growth my own sowing of Viscum. Not a points on both plants. Success! More and sausage! Well no sign of new growth.