An Arid Zone Trees Publication

www.aridzonetrees.com

2008 Volume 14 Issue 2

Thorns and **Pedestrians**

To protect their tender tissues and the precious reserve of moisture stored there, many desert adapted plant have evolved thorns along branches and trunks to prevent predation by thirsty animals. These thorns range from large and numerous, as in the case of saguaro and cholla cacti, to small and disperses like Sweet Acacia or Blue Palo Verde. Many of the well most popular and adapted shade trees in the desert landscape palette have thorns including Cercidium floridum (Blue Palo Verde), C. praecox (Sonoran Palo Verde), Acacia smallii (Sweet Acacia). Olneva tesota (Ironwood), Prosopis velutina Mesquite) and (Native glandulosa (Honey Mesquite).

Concerns about the presence of thorns have, in some instances, limited the use of certain desert adapted tree species. While the risk of serious injury is minimal, architects and developers must carefully considering the use placement of thorned tree. It is interesting, though, that thorns have never proven a deterrent to the landscape



Arid Zone Trees Dedicated to providing quality trees to the landscape industry, that are appropriate to the desert Southwest.

not typically walk into tree (Prosopis velutina) generally

Because thev are adapted to the often harsh specimens, playground equipment plazas should and patios), landscape archi- broad

consideration. In some respects trees with large conpose the spicuous thorns least risk of injury because thorns are obvious and highly visible to the pedestrian. They serve as a visual warning about the tree, much the way cacti do with their displays of thorns. Small thorns are more easily overlooked by pedestrians but rarely cause more than а scratch.

The structure. form. and use of roses, both in tree and placement of trees along with shrub form. As with roses, other design considerations people recognize that some can significantly reduce risks desert trees have thorns. For associated with thorned spethat matter, pedestrians do cies. As species like Native branches. That is not to say Honey Mesquites (P. glanduthat accidents do not occur losa) mature the thorns are but it is clear that the "hazard" gradually consumed by the presented by tree thorns is radial growth of the branches exaggerated. so that mature branches are nearly or completely thorn well free. Upright, multiple trunked when properly conditions of extreme heat pruned and thinned to raise and drying winds, many de- the height of branches, are sert adapted species are the pedestrian friendly and, offer trees of choice for certain the greatest wind resistance. landscape applications. When During the growing season, placing trees near pedestrians any young thorned branches (e.g. sidewalks, seating areas, that grow down into foot traffic be removed. spreading tects and designers must take most desert species can be the presence of thorns into easily planted some distance

from sidewalks, play equipment and outdoor seating areas and still offer ample shade.

In parking lot settings, making landscape cut-outs large enough to support the long term growth of trees, should create enough distance from parking cars to safely accommodate pedestrians. Again in this application, properly maintained upright, multiple trunked trees are recommended over single trunked specimens. These recommendations are applicable to both thorned and thornless trees planted in parking lots.

In situations where desert species are desired but thorns cannot be tolerated a number of species are available. These include Thornless Mesquite (*Prosopis sp.*), Thornless Cercidium Hybrid (*Cercidium sp.*), Desert Museum Palo Verde (*Cercidium sp.*), Shoestring Acacia (*Acacia stenophylla*), Coonavittra Waddle (*A. jennerae*), Mulga (*A. aneura*), Guajillo (*A. berlandieri*), Desert Willow (*Chilopsis linearis*), Desert Oak (*A. coriacea*), Leather Leaf Acacia (*A. craspedocarpa*), Palo Blanco (*A. willardiana*), Mexican Bird of Paradise (*Caesalpinia mexicana*), Thornless Honey Mesquite (*Prosopis sp*) and Texas Mountain Laurel (*Sophora secundiflora*).

Ed Mulrean Ph.D., Editor

Visit our website at www.aridzonetrees.com to see the most current literature on Variety 'AZT'.

