



Project Profile: Maricopa Flood Control District Revegetation/Red Mountain/Spookhill Project

Project: Plants grown from seed gathered from specific sites and grown using 'Tall-pot technology'.

Challenge/Goal: Successfully vegetate remote areas, washes and basins, using seeding for scrubs and tall pot technology for trees. Areas are remote, arid (up to 117-degree daytime temperatures) with no irrigation, receiving floods during monsoon seasons which can wash away smaller plants or keep plants under several feet of water for up to two weeks. .

Solution: Grow out trees using hand collected site specific seed grown out in tall-pots for a minimum of 6 months but no more than 18 months. Plants are preferred to be a minimum of 20-24-inched tall allowing for enough photo-synthesis to support root system. Roots are 3-feet deep and air pruned for a more natural root system. Containerized plants are watered within 24-hours of planting. Augers are used to dig deep holes for tall pot containerized plants. Holes are filled with water and drained twice within 48 and 24 hours of planting. Soils are heavily clayed so 3-pounds of gypsum is placed in the bottom of each planting hole with one quart of DriWater completely removed from carton and placed on top of the gypsum. Plants are removed from containers, placed in the holes and backfilled. Four DWP containers are placed around the perimeter of the plant and the plants are then watered again. The contractor is required to check DWP containers at 30-days, if DW is at 50% or less (due to the high temperatures) the contractor is required to replace DWP-QT by day 45. Plants on Flood Control sites are provided moisture for a maximum of 90 -days and survivability is checked at year one.

Results: DriWater/watering occurs in year: Maximum of 90-days. One, two or three applications depending on what time of year plants went into ground and what temperatures are presented. Type of conventional watering that would be used for this project.

Summary: Areas are remote and arid (up to 117-degree daytime temperatures) with no means to set up traditional irrigation. Using truck watering is discouraged due to keeping 'roads' open encouraging the use of ATV's.



Palo Verde Seedlings in Tallpots, FCDMC



Chilean mesquite - *Prosopis chilensis*