

National Park Service
U.S. Department of the Interior
Lake Mead National Recreation Area



2005-NPS-609E

Interlocal Agreement for Inventory, Research, and Monitoring for
Covered Plant Species Technical Conditions

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Five 1 meter plots in each of the 3 density types along the transect



Perennial vegetation inventory in high, low, and no density



Vegetation Data Collected

5 Sandy sites

- Percent cover recorded within a 5 m radius from the center of the plot:
 - all perennial vegetation
 - dead/alive tamarisk
 - dead/alive russian thistle
- Percent cover recorded within the 1 m plot:
 - rock
 - gravel
 - sand

7 Gypsum sites

- The 6 closest rare plants from the center of each 1 m plot were recorded with:

- species
- distance
- compass bearing
- whether the plant was alive or dead

- Percent cover data recorded within the 1 m plot

- species of perennial vegetation
- rock/gravel
- disturbance
- biological crust (as well as a crust sample at each plot)

- A penetrometer was used to record how compact the soil was along the transect at each plot

- A 20 m belt transect on either side of the main transect was used to record perennial vegetation within each of the density types. The number of individuals per species was recorded.

Soil Data Collected

- Depth in inches for the 3 horizons (gypsum sites) and 1 horizon-6 inches (sandy sites)
- The Munsell color system was used to record the color of the soil for each horizon
- Compliant cavity technique was used to gather data for bulk density and soil samples
- Soil analysis performed:
 - water soluble ions
 - %CaCO₃
 - total C & N
 - Organic Carbon
 - pH & EC
 - particle size analyses LASR
 - bulk density
 - available P

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