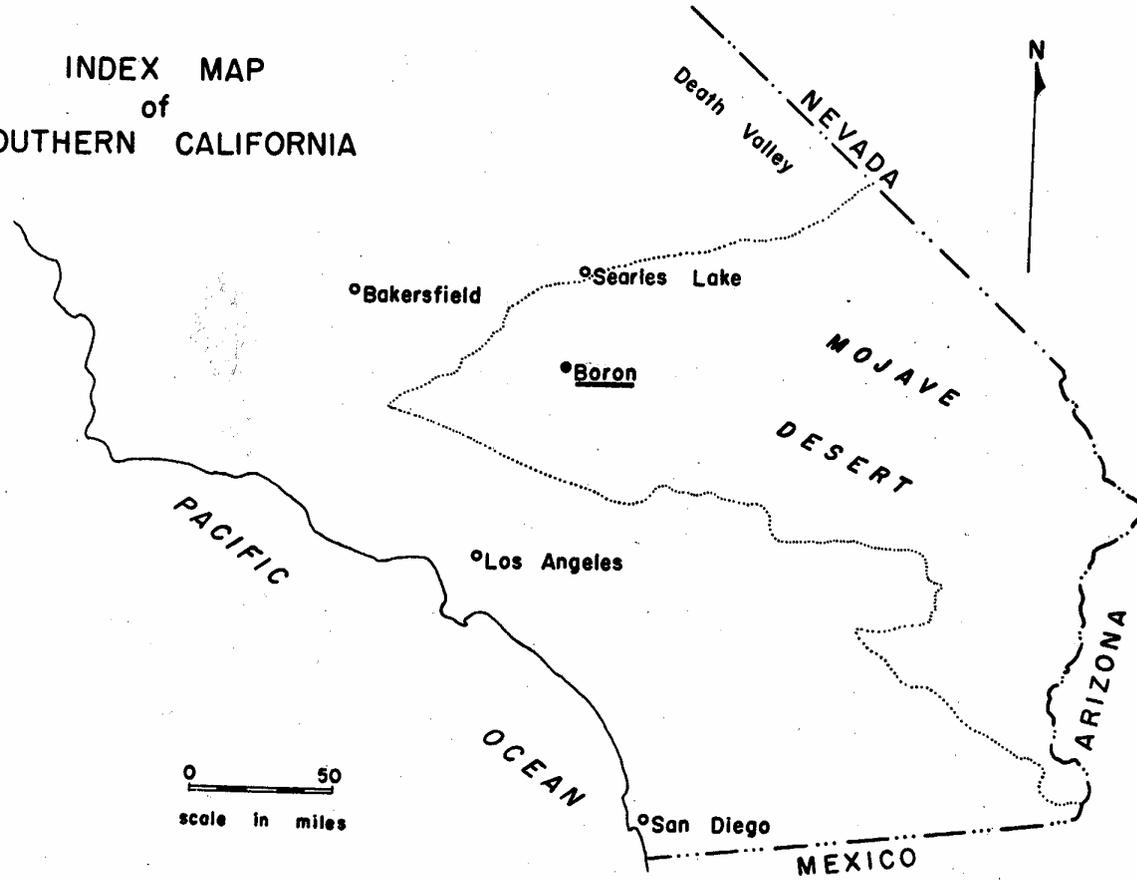


**RECLAMATION PROGRAM
U.S. BORAX OPEN PIT MINE
BORON, CALIFORNIA**

Location Map

INDEX MAP
of
SOUTHERN CALIFORNIA



BORON MINE RECLAMATION

- **Gather Data**
- **Soil and Seed**
- **Design and Monitor**

GATHER DATA

- **Visit Project Sites**
- **Evaluate Site With Transects**
- **Install Test Plots**

1998 View Southwest of Boron Operations, Rogers Lake in Distance



Saltbush and Creosote Bush Scrub Vegetation



Plant Specie List

PRELIMINARY LIST OF PLANT SPECIES FOR TEST PLOTS

Scientific Name	Common Name	Type ¹	Seed Count ²	Weight: lbs. PLS (pure live seed)/Acre
<i>Ambrosia dumosa</i>	White bursage	S	85,000	1
<i>Atriplex canescens</i>	Four-wing saltbush	S	55,000	2
<i>Atriplex confertifolia</i>	Shadscale	S	65,000	2
<i>Atriplex lentiformis</i>	Quailbush	S	500,000	1
<i>Atriplex polycarpa</i>	Allscale	S	800,000	1
<i>Atriplex spinifera</i>	Spiny saltbush	S	40,000	2
<i>Chrysothamnus nauseosus</i>	Rabbit-brush	S	400,000	0.5
<i>Grayia spinosa</i>	Spiny hopsage	S	N/A	0.5
<i>Hymenoclea salsola</i>	Cheesebush	S	110,000	0.5
<i>Krascheninnokovia lanata</i>	Winterfat	S	56,700	1
<i>Larrea tridentata</i>	Creosote bush	S	80,000	0.5
<i>Lepidium fremontii</i>	Desert alyssum	S	N/A	1
<i>Lycium sp.</i>	Desert thorn	S	N/A	0.5
<i>Oryzopsis hymenoides</i>	Indian rice-grass	PG	97,000	0.5
<i>Sphaeralcea ambigua</i>	Desert-mallow	PH	500,000	0.25

¹ S-shrub; AG-annual grass; AH-annual herb; PH-perennial herb; PG-perennial grass

² Seed count per pound of pure seed (S&S Seeds, 1992)

Evaluating Test Plots



SOIL AND SEED

- **Identify Growth Medium**
- **Design Tillage Equipment**
- **Collect Seed**

Pit South Wall – View East



Pit Extension K5, South Wall, 50' Benches



North Overburden Pile at Pit Crest, View East



Four Row Rippers, Lister Shovels, Seeders



Loading Seed



Site Seed Collection



DESIGN AND MONITOR

- **Design Life-of-Mine Plan**
- **Set Future Goals – Creosote Partnership**
- **Monitor**

1992 Boron Operations, View Southwest



South Overburden Pile, View Southeast



Creosote Bush Scrub



Students Transplanting Creosote



Victor Valley College and U.S. Borax Field Team



Reclaimed Slope



Plug Dump Surface Treatment

