Lines, G.C., and Bilhorn, T.W., 1996, Riparian vegetation and its water use during 1995 along the Mojave River, southern California

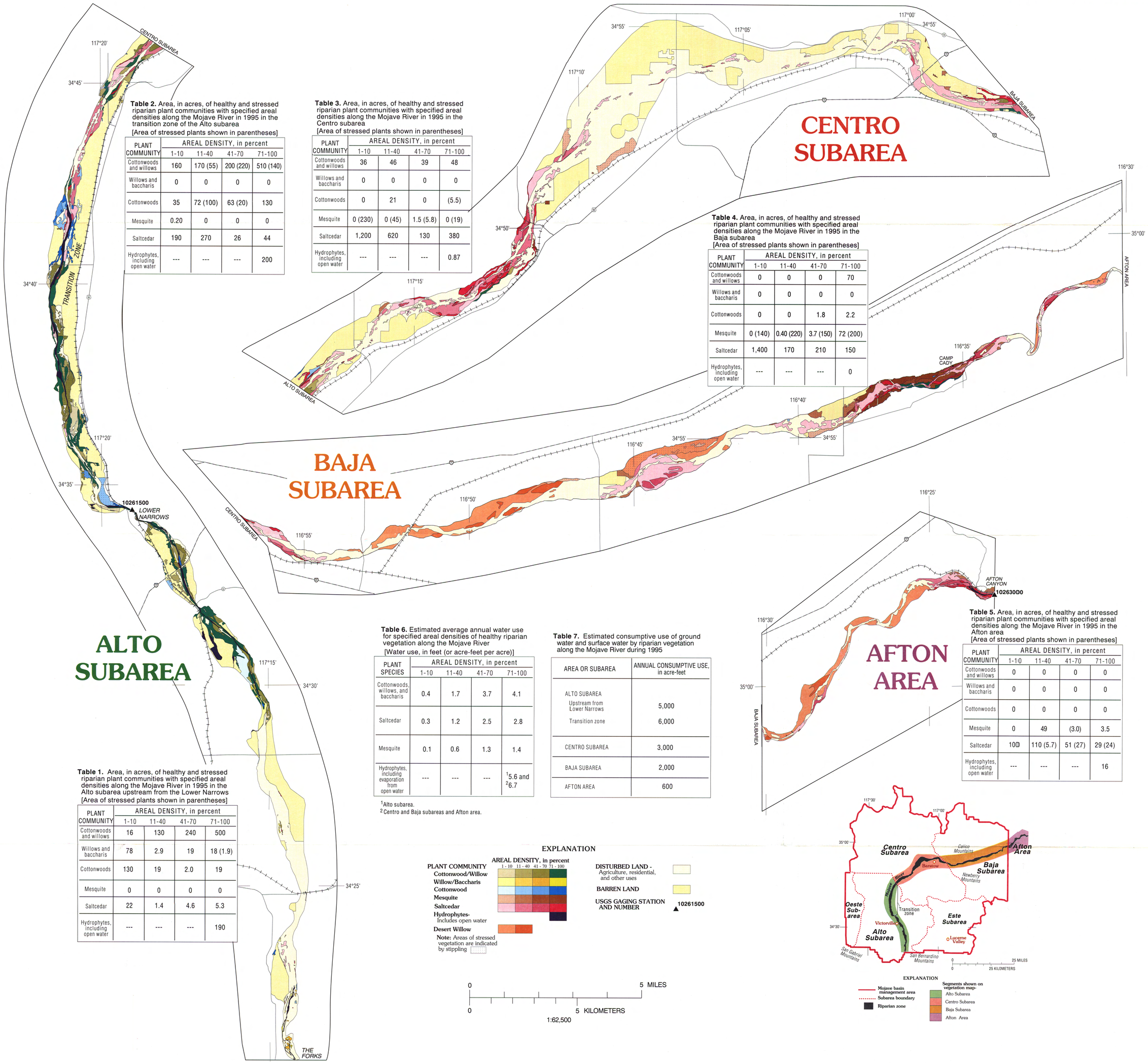

Table 1. Area, in acres, of healthy and stressed riparian plant communities with specified areal densities along the Mojave River in 1995 in the Alto subarea upstream from the Lower Narrows
[Area of stressed plants shown in parentheses]

PLANT COMMUNITY	AREAL DENSITY, in percent			
	1-10	11-40	41-70	71-100
Cottonwoods and willows	16	130	240	500
Willows and baccharis	78	2.9	19	18 (1.9)
Cottonwoods	130	19	2.0	19
Mesquite	0	0	0	0
Saltcedar	22	1.4	4.6	5.3
Hydrophytes, including open water	---	---	---	190

Table 2. Area, in acres, of healthy and stressed riparian plant communities with specified areal densities along the Mojave River in 1995 in the transition zone of the Alto subarea
[Area of stressed plants shown in parentheses]

PLANT COMMUNITY	AREAL DENSITY, in percent			
	1-10	11-40	41-70	71-100
Cottonwoods and willows	160	170 (55)	200 (220)	510 (140)
Willows and baccharis	0	0	0	0
Cottonwoods	35	72 (100)	63 (20)	130
Mesquite	0.20	0	0	0
Saltcedar	190	270	26	44
Hydrophytes, including open water	---	---	---	200

Table 3. Area, in acres, of healthy and stressed riparian plant communities with specified areal densities along the Mojave River in 1995 in the Centro subarea
[Area of stressed plants shown in parentheses]

PLANT COMMUNITY	AREAL DENSITY, in percent			
	1-10	11-40	41-70	71-100
Cottonwoods and willows	36	46	39	48
Willows and baccharis	0	0	0	0
Cottonwoods	0	21	0	(5.5)
Mesquite	0 (230)	0 (45)	1.5 (5.8)	0 (19)
Saltcedar	1,200	620	130	380
Hydrophytes, including open water	---	---	---	0.87

Table 4. Area, in acres, of healthy and stressed riparian plant communities with specified areal densities along the Mojave River in 1995 in the Baja subarea
[Area of stressed plants shown in parentheses]

PLANT COMMUNITY	AREAL DENSITY, in percent			
	1-10	11-40	41-70	71-100
Cottonwoods and willows	0	0	0	70
Willows and baccharis	0	0	0	0
Cottonwoods	0	0	1.8	2.2
Mesquite	0 (140)	0.40 (220)	3.7 (150)	72 (200)
Saltcedar	1,400	170	210	150
Hydrophytes, including open water	---	---	---	0

Table 5. Area, in acres, of healthy and stressed riparian plant communities with specified areal densities along the Mojave River in 1995 in the Afton area
[Area of stressed plants shown in parentheses]

PLANT COMMUNITY	AREAL DENSITY, in percent			
	1-10	11-40	41-70	71-100
Cottonwoods and willows	0	0	0	0
Willows and baccharis	0	0	0	0
Cottonwoods	0	0	0	0
Mesquite	0	49	(3.0)	3.5
Saltcedar	100	110 (5.7)	51 (27)	29 (24)
Hydrophytes, including open water	---	---	---	16

Table 6. Estimated average annual water use for specified areal densities of healthy riparian vegetation along the Mojave River
[Water use, in feet (or acre-feet per acre)]

PLANT SPECIES	AREAL DENSITY, in percent			
	1-10	11-40	41-70	71-100
Cottonwoods, willows, and baccharis	0.4	1.7	3.7	4.1
Saltcedar	0.3	1.2	2.5	2.8
Mesquite	0.1	0.6	1.3	1.4
Hydrophytes, including evaporation from open water	---	---	---	[1]5.6 and [2]6.7

[1]Alto subarea.
[2]Centro and Baja subareas and Afton area.

Table 7. Estimated consumptive use of ground water and surface water by riparian vegetation along the Mojave River during 1995

AREA OR SUBAREA	ANNUAL CONSUMPTIVE USE, in acre-feet
ALTO SUBAREA	
Upstream from Lower Narrows	5,000
Transition zone	6,000
CENTRO SUBAREA	3,000
BAJA SUBAREA	2,000
AFTON AREA	600

EXPLANATION

PLANT COMMUNITY — AREAL DENSITY, in percent (1 - 10, 11 - 40, 41 - 70, 71 - 100)
- Cottonwood/Willow
- Willow/Baccharis
- Cottonwood
- Mesquite
- Saltcedar
- Hydrophytes- Includes open water
- Desert Willow

Note: Areas of stressed vegetation are indicated by stippling

DISTURBED LAND - Agriculture, residential, and other uses

BARREN LAND

USGS GAGING STATION AND NUMBER 10261500

0 5 MILES
0 5 KILOMETERS
1:62,500

MAP AND TABLES SHOWING THE EXTENT, DIVERSITY, AREAL DENSITY, AND WATER USE OF RIPARIAN VEGETATION ALONG THE MOJAVE RIVER, SOUTHERN CALIFORNIA, 1995