

TRIP GENERATION MANUAL

9th Edition • Volume 2: Data

Trip Generation Rates, Plots and Equations

- Port and Terminal (Land Uses 000–099)
- Industrial (Land Uses 100–199)
- Residential (Land Uses 200–299)
- Lodging (Land Uses 300–399)
- Recreational (Land Uses 400–499)



Institute of Transportation Engineers

Land Use: 413

State Park

Description

State parks are owned and operated by a state. The state parks surveyed vary widely as to location, type and number of facilities, including beaches, hiking trails, boating or swimming facilities, ball fields, soccer fields, campsites, picnic facilities and general open space. Seasonal use of the individual sites differs widely as a result of the varying facilities and local conditions, such as weather. For example, some of the sites are used primarily for boating or swimming; others are used for hiking or camping. Soccer complex (Land Use 488) is a related use.

Additional Data

The percentage of the park area that is used most intensively varies considerably within the studies contained in this land use; therefore, caution should be used when using acres as an independent variable.

The sites were surveyed in the 1970s, mostly in California.

Source Numbers

11, 12, 13, 18, 213

State Park (413)

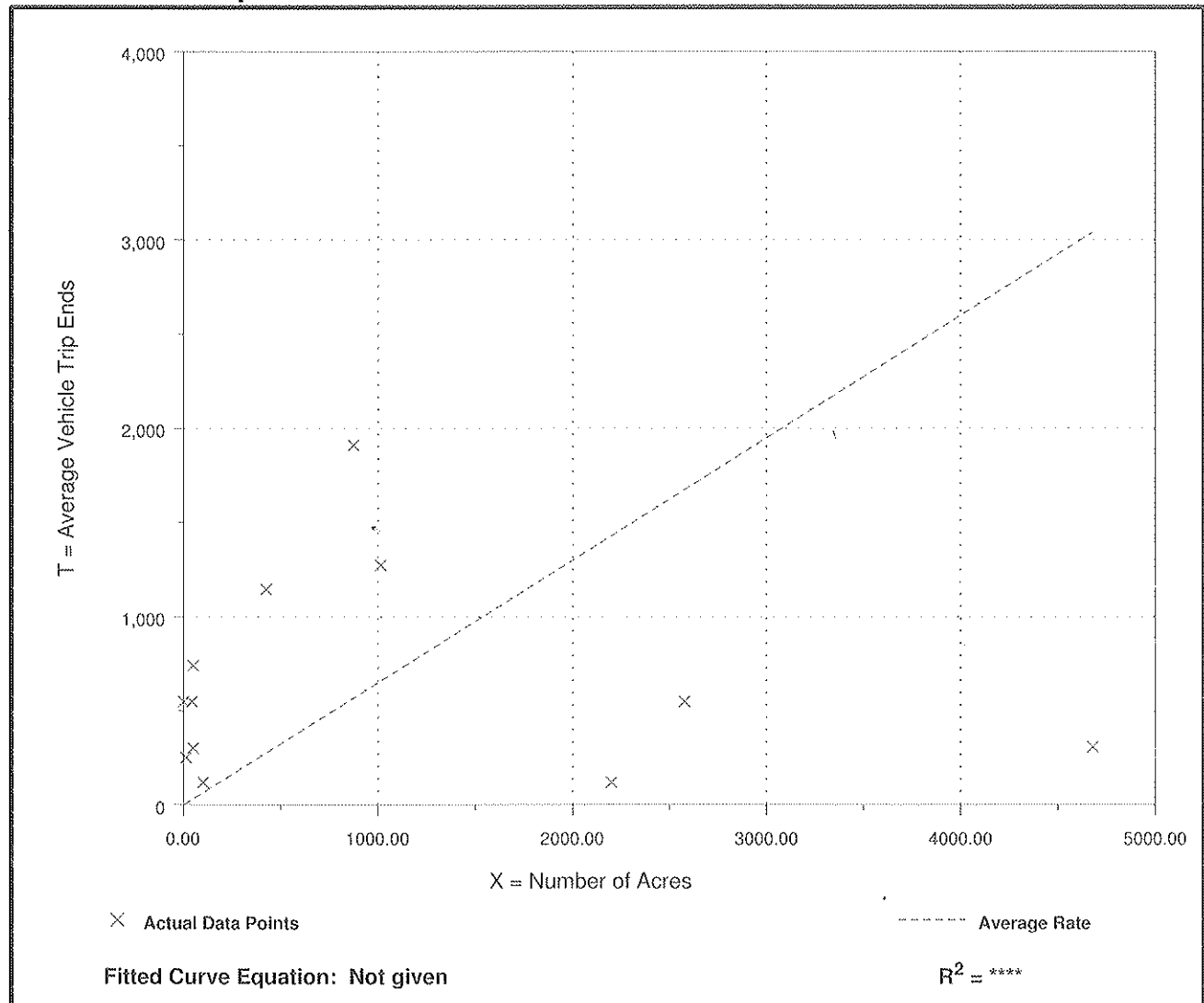
Average Vehicle Trip Ends vs: Acres
On a: Weekday

Number of Studies: 12
Average Number of Acres: 1,004
Directional Distribution: 50% entering, 50% exiting

Trip Generation per Acre

Average Rate	Range of Rates	Standard Deviation
0.65	0.05 - 183.33	3.36

Data Plot and Equation



Land Use: 412

County Park

Description

County parks are owned and operated by a county. The county parks surveyed vary widely as to location, type and number of facilities, including boating or swimming facilities, ball fields, soccer fields, camp sites, picnic facilities and general open space. Seasonal use of the individual sites differ widely as a result of the varying facilities and local conditions, such as weather. For example, some of the sites are used primarily for boating or swimming; others are used for softball games. Soccer complex (Land Use 488) is a related use.

Additional Data

The percentage of the park area that is used most intensively varies considerably among the studies contained in this land use; therefore, caution should be used when using acres as an independent variable.

The sites were surveyed between the 1970s and the 2000s in New Jersey, California and North Carolina.

Source Numbers

13, 18, 186, 213, 407, 729

County Park (412)

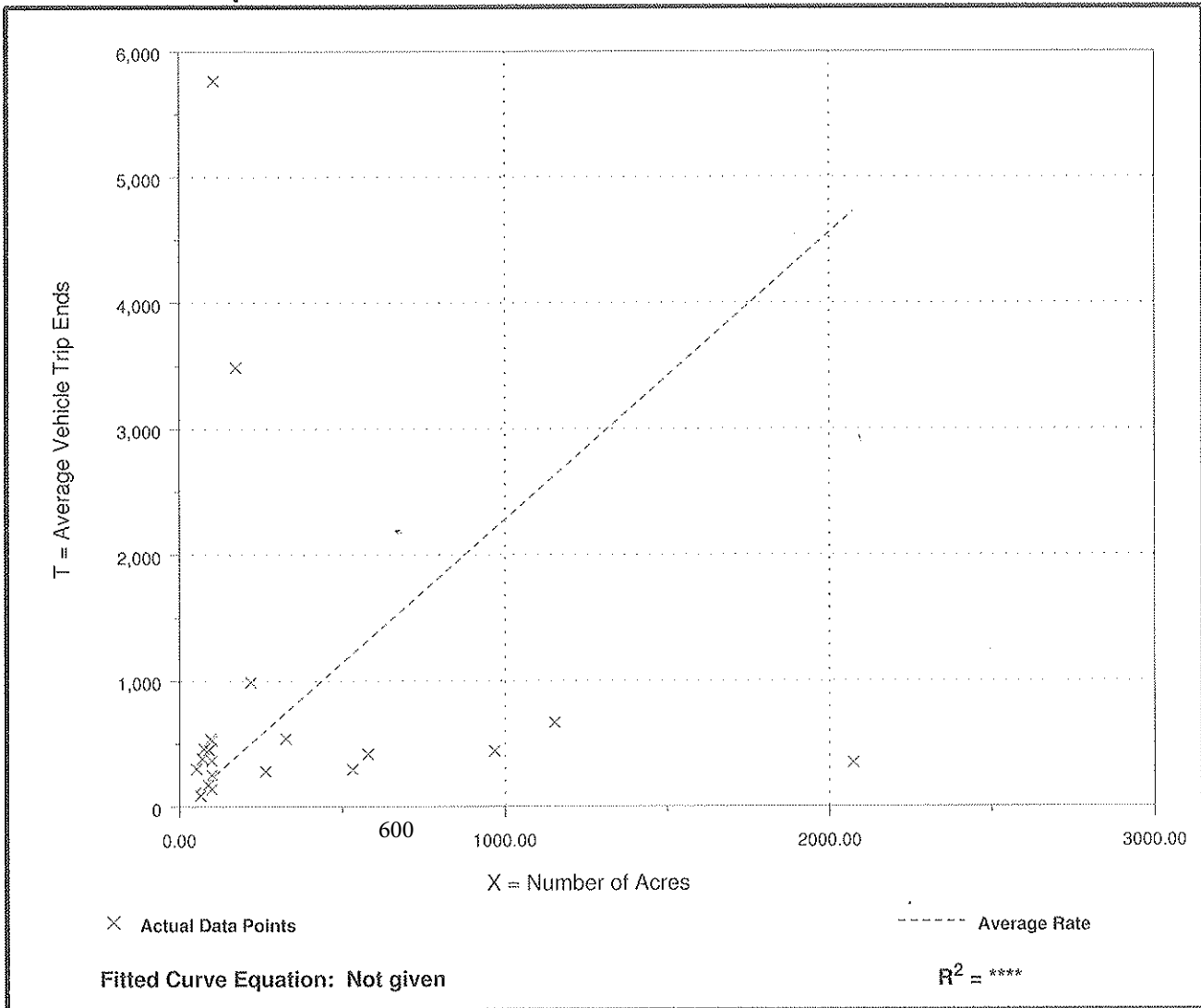
Average Vehicle Trip Ends vs: Acres
On a: Weekday

Number of Studies: 22
Average Number of Acres: 349
Directional Distribution: 50% entering, 50% exiting

Trip Generation per Acre

Average Rate	Range of Rates	Standard Deviation
2.28	0.17 - 53.41	7.04

Data Plot and Equation



County Park (412)

Average Vehicle Trip Ends vs: Acres
On a: Weekday,
Peak Hour of Adjacent Street Traffic,
One Hour Between 7 and 9 a.m.

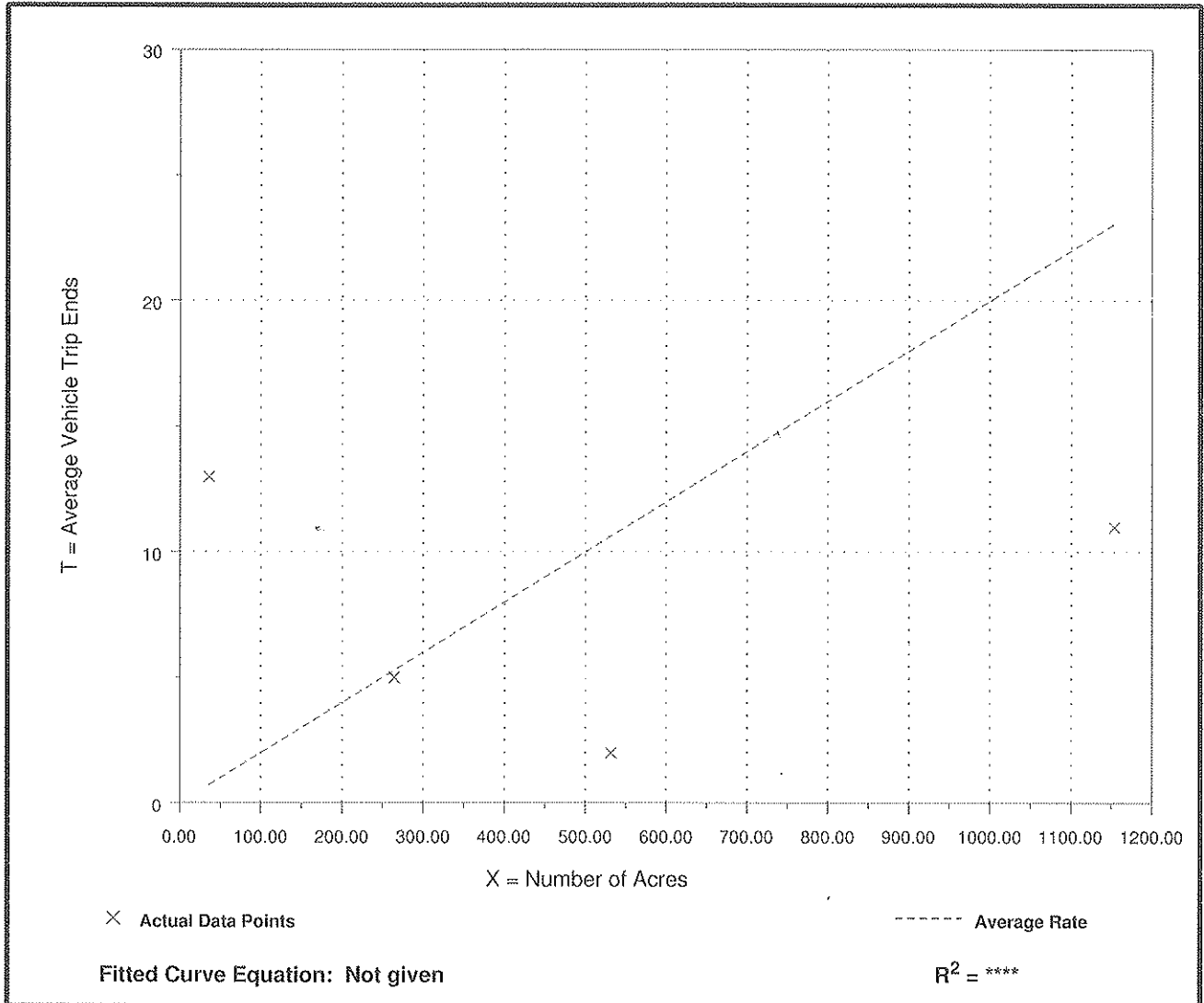
Number of Studies: 4
Average Number of Acres: 497
Directional Distribution: 61% entering, 39% exiting

Trip Generation per Acre

Average Rate	Range of Rates	Standard Deviation
0.02	0.00 - 0.36	0.13

Data Plot and Equation

Caution - Use Carefully - Small Sample Size



County Park (412)

Average Vehicle Trip Ends vs: Acres
On a: Weekday,
Peak Hour of Adjacent Street Traffic,
One Hour Between 4 and 6 p.m.

Number of Studies: 4
Average Number of Acres: 497
Directional Distribution: 61% entering, 39% exiting

Trip Generation per Acre

Average Rate	Range of Rates	Standard Deviation
0.09	0.05 - 1.75	0.38

Data Plot and Equation

Caution - Use Carefully - Small Sample Size

