With regard to the Conditional Use Permit application for a veterinary clinic proposed to be located at 3525 Hampton Highway, Yorktown, Virginia, attached are excerpts from the International Traffic Engineers' Trip Generation Manual that project AM and PM peak traffic generation for an animal hospital/veterinary clinic.

This proposed facility will be 7,200 square feet of gross floor area.

These charts reflect a range of between 1.31 – 7.19 trips per 1,000 square feet of gross floor area in the am peak, with an average of 3.73.

The charts also reflect a range of between 0.53 and 4.90 trips per 1,000 square feet of gross floor area in the pm peak, with an average of 3.53.

Even utilizing the maximum expected trips per hour, the proposed facility does not come close to generating 100 vehicle trips in either the am or pm peak. Those maximum trip generation numbers would be as follows:

- AM peak: 7,200 square feet divided by 1,000 equals 7.2 times 7.19 maximum am peak trips equals **52 maximum am peak trips.**

- PM peak: 7,200 square feet divided by 1,000 equals 7.2 times 4.90 maximum pm peak trips equals **36 maximum pm peak trips.**

Please let me know if you have any questions or need additional information.

Sincerely,

Land Use: 640
Animal Hospital/Veterinary Clinic

Description

An animal hospital or veterinary clinic is a facility that specializes in the medical care and treatment of animals.

Additional Data

Time-of-day distribution data for this land use are presented in Appendix A. For the six general urban/suburban sites with data, the overall highest vehicle volumes during the AM and PM on a weekday were counted between 7:30 and 8:30 a.m. and 3:15 and 4:15 p.m., respectively.

The sites were surveyed in the 2000s and the 2010s in California, New Jersey, and Texas.

Source Numbers

597, 662, 878

7.19 x 7.2 (7,200 ÷ 1,000) =

52 TRIPS / AM PEAK

Animal Hospital/Veterinary Clinic
(640)

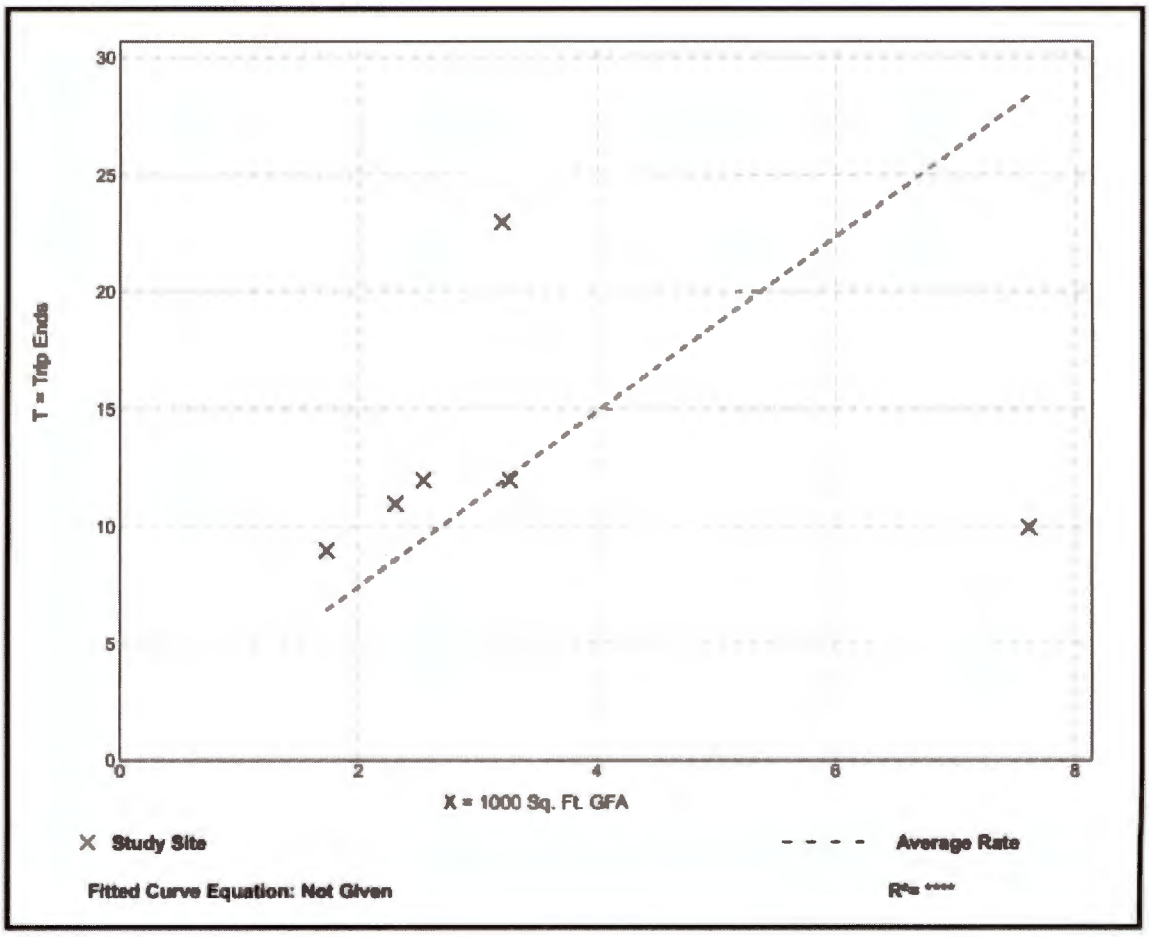
Vehicle Trip Ends vs: 1000 Sq. Ft. GFA
On a: Weekday,
AM Peak Hour of Generator

Setting/Location: General Urban/Suburban
Number of Studies: 6
1000 Sq. Ft. GFA: 3
Directional Distribution: 53% entering, 47% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
3.73	1.31 - 7.19	2.31

Data Plot and Equation



4.90 x 7.2 = 36 TRIPS / PM PEAK.

Animal Hospital/Veterinary Clinic
(640)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA
On a: Weekday,
Peak Hour of Adjacent Street Traffic,
One Hour Between 4 and 6 p.m.
Setting/Location: General Urban/Suburban
Number of Studies: 8
1000 Sq. Ft. GFA: 6
Directional Distribution: 40% entering, 60% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
3.53	0.53 - 4.90	1.80

Data Plot and Equation