

DESCRIPTION

There is a significant need to **estimate the demand for truck parking that a shipper/receiver facility may generate**. Using the rates outlined in this Fact Sheet's accompanying White Paper, professionals can **plan for sufficient truck parking** on site or at a shared lot for warehouse developments based on the number of truck trips generated by the facility.

For example, a traffic impact study might estimate that a new distribution warehouse would generate 1,000 daily truck trips. Approximately 106 trucks (10.6% of the 1,000 truck trips) would need parking, with 39 of those trucks needing parking simultaneously (106 trucks X 0.37). Therefore, the facility should provide about 39 parking spaces to meet the demand generated by its operations.



APPLICATIONS

- » **Responsible Party:** Permitting agencies, freight industry professionals, developers, and planning professionals.
- » **Needs:** On-site parking and 2+ hour staging.

BENEFITS

- » **Smarter, cost-effective development** since jurisdictions or the private sector can more appropriately set minimum truck parking requirements for new freight facilities.
- » **Adequate parking based on demand** will reduce undesignated parking. This benefits drivers, business operators, and the community.
- » **Greater understanding and awareness of truck parking needs from new or existing facilities.** The private and public sectors can justify the number of new truck parking spaces needed to offset demand.

IMPLEMENTATION

- 1** *Estimate the number of daily truck trips to the distribution warehouse. Traffic impact studies for new developments or actual count data at existing distribution warehouses help determine the number of daily truck trips.*
- 2** *Estimate truck trips that need parking. Multiply the daily truck trips by the parking rate (10.6%) to quantify the number of trucks that need parking.*
- 3** *Estimate peak parking need. Not all truck trips happen at once, but many overlap. To find the parking needs at peak time, multiply the number of trucks parked by the peak parking rate (37%).*

FOR MORE INFORMATION

To learn more, please visit www.txdot.gov and search for "truck parking."
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