

Weave Distance

Safety & Operations

Weave Distance is one of six safety and operations factors ODOT may consider when evaluating a highway approach application.

Points of Interest

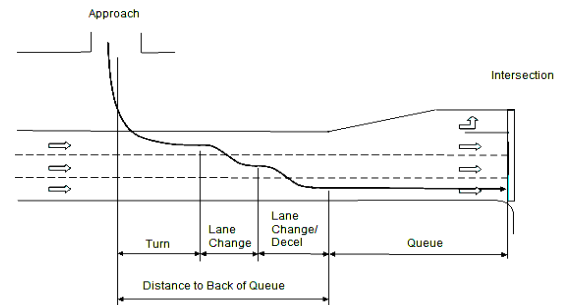
What is weave distance?

Factors considered in weave distance.

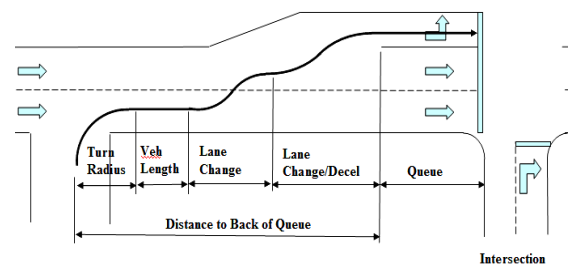
Why is ODOT concerned about weave distance?

What is Weave Distance? Weave distance is the distance from a driveway to a nearby intersection or interchange ramp, where a driver exits a driveway, merges into the nearest lane and then “weaves” across lanes, one at a time, in order to turn at an intersection on the opposite side of the roadway.

- More weave distance is needed when traffic volume **OR** traffic speed is high.
- Less weave distance is needed when traffic volume **AND** traffic speed is low.



Left Turn Weave Movement



Right Turn Weave Movement

Factors Considered in Weave Distance

- ✓ Vehicle Length
- ✓ Vehicle Turn
- ✓ Radius
- ✓ Number of Lane Changes
- ✓ Lane Change Deceleration
- ✓ Traffic Speed
- ✓ Traffic Queue

Why is ODOT Concerned About Weave Distance? ODOT is concerned about driver safety when weave distance is too short near major intersections, signalized intersections and interchange ramps. Weaving creates conflicts when weaving vehicles slow the speed of through traffic and block travel lanes while maneuvering into a queue to make a turn.

- More crashes occur at intersections where the weave distance is too short.
- More crashes occur where there are more driveways close to intersections.