

# Express Lanes toll rate as determined by the UDOT dynamic toll algorithm

The UDOT Express Lanes operates with a dynamic toll algorithm to allow the toll rate to remain low as long as there is available capacity in the Express Lanes. As more vehicles enter the Express Lanes, the toll is set to reflect the value of the available space in the lane.

$$\text{Toll Rate} = \frac{\text{Zone Value}}{\text{Vol}_{\text{threshold}} - \text{Vol}_{\text{max}}}$$

Where,

- Zone Value** Theoretical value of using the Express Lanes relative to the general lanes. Zone Value increases as speeds in the Express Lanes and general lanes fall below a speed threshold (typically 50-55 miles per hour).
- $\text{Vol}_{\text{threshold}}$**  Express Lanes volume threshold. Typically 1675 vehicles per hour.
- $\text{Vol}_{\text{max}}$**  Maximum volume measured at any Express Lanes plaza in each zone.

Express Lanes tolls are computed for each zone every 5 minutes using data from the previous 5 minutes. Tolls can range from \$0.25 to \$2.00. Toll will increase no more than \$0.25 at a time, unless volumes in the Express Lanes exceed the volume threshold parameter ( $\text{Vol}_{\text{threshold}}$ ).

## Toll rate determined by volume in the Express Lanes

