Leading Pedestrian Interval

A leading pedestrian interval (LPI) gives pedestrians the opportunity to enter the crosswalk at an intersection 3-7 seconds before vehicles are given a green indication. Pedestrians can better establish their presence in the crosswalk before vehicles have priority to turn right or left.

LPIs provide the following benefits:

• Increased visibility of crossing pedestrians.
• Reduced conflicts between pedestrians and vehicles.
• Increased likelihood of motorists yielding to pedestrians.
• Enhanced safety for pedestrians who may be slower to start into the intersection.

FHWA’s Handbook for Designing Roadways for the Aging Population recommends the use of the LPI at intersections with high turning vehicle volumes. Transportation agencies should refer to the Manual on Uniform Traffic Control Devices for guidance on LPI timing and ensure that pedestrian signals are accessible for all users.¹ Costs for implementing LPIs are very low when only signal timing alteration is required.

An LPI allows a pedestrian to establish a presence in the crosswalk before vehicles are given a green indication. Source: FHWA

LPIs reduce potential conflicts between pedestrians and turning vehicles. Source: FHWA

¹ Manual on Uniform Traffic Control Devices (MUTCD), Section 4I.06. FHWA, (2023).