

01 Expanding Urban Growth Boundary in Lancaster

Lancaster County, Pennsylvania is known for its rolling farmland and its historic urban core. The towns in the county have agreed to engage in some regional planning initiatives including an Urban Growth Boundary (UGB). Inside the boundary are areas where the regional government wishes to encourage high density development, while development outside the boundary is restricted for agriculture, recreation etc. Lancaster County is to extend the UGB in one town that is best suited for new, infill development just outside of the UGB. The motivation is to extend the UGB in an area that already features high density development.

This study mainly use land cover , buildings, parking lots, municipal boundaries, road centerlines and Urban and village growth boundary data to analyze the development difference between each borough in the Lancaster County. Spatial analysis and conversion operations are conducted to deal with both raster and vector data. In the end, Columbia Borough is selected because of its greater difference between inside and outside of UGB in traffic counts and building areas.

