

# EASTERN BYPASS STUDY CORRIDOR SCREENING --- BENEFITS AND IMPACTS

## Corridors Listed In Order

Updated November 2012

### BENEFITS

	P-2	T-6	M-10	D-13	Units of Measure
Support Land Use Plans	2	3	5	1	Numerical index (-5 to +5), based on the proportion of each corridor's proximity to planned growth areas. (Higher is better.)
Improved Multi-Modal (Bikes)	53	44	27	15	Percentage of each corridor that would benefit non-motorized travel.
Support Economic Development Plans	3	1	1	1	Ranking, based on the Economic Development Council for Central Illinois Analysis. (Lower is better.)
Improved Multi-Modal (Hubs)	0.39	0.07	0.26	0.23	Reduction in travel time (minutes), on a per vehicle basis, between eleven multi-modal hubs (82 total trips) (no-build = 18.8 minutes).
Improved Travel Flow	0.033	0.022	0.019	0.013	Reduction in congestion as expressed by the sum of changes in the V/C ratios on 21 representative roads in the study area.
Improve Local / Regional Mobility (PV)	2.8	2.6	3.1	2.9	Average time savings (minutes) per vehicle/trip. (Average time per vehicle/trip for no-build = 27.2 minutes.)

Note: Please refer to the separate document entitled "Traffic Volume Overview (Updated for Six Corridors)" for a comparison of the corridors' expected traffic volumes.

### IMPACTS

	P2	T6	M10	D13	Units of Measure
Wetlands*	29	32	27	22	Acres
Crop Diagonal Severences*	8.9	8.8	10.6	7.7	Miles
Agricultural*	828	1061	1391	1390	Acres
Residential Relocations	61	34	18	18	Potential Number Required
Forest	520	362	158	183	Acres
Proximity Effects - Institutional	8	7	6	5	Number of Developed Parcels
Proximity Effects - Residential	884	853	561	445	Number of Developed Parcels
Conservation / Park Land*+	2	1	1	1	Acres
100-Year Floodplains*	73	61	85	72	Acres
Institutional Relocations	3	1	1	0	Potential Number Required
Comm / Industrial Relocations	7	9	9	2	Potential Number Required
Interchanges	8	8	8	8	Potential Number Required
Steep Terrain	7.1	6.5	2.4	3.5	Miles
Proximity Effects - Comm / Indust	33	44	42	33	Number of Developed Parcels
Historic Sites*	0	0	0	0	Potential Number of Sites
Stream Crossings*	9	9	8	7	Potential Number Required
Total New R.O.W. (500 ft wide)	1691	1764	1766	1803	Acres
Community Cohesion / Division	0	0	0	0	Potential Occurrences
Proximity Effects - Historic Sites	0	0	0	2	Number of Sites
Estimated Construction Costs	667	648	601	620	Millions of Dollars

\* Categories in red are those requiring permits or are otherwise under the jurisdiction of state or federal agencies.

+ Excluding the Illinois River