

LEHD Methodology Template

Title: Redfin Opportunity Score

Question your work tried to answer	How accessible every address is to get to quality nearby jobs without a car.
Local Employment Dynamics data sources used	<input checked="" type="checkbox"/> X_ LODES/OnTheMap <input type="checkbox"/> ___ QWI <input type="checkbox"/> ___ J2J Flows <input type="checkbox"/> ___ Industry Focus <input type="checkbox"/> ___ PSEO <input type="checkbox"/> ___ Raw data files from CD or VRDC <input type="checkbox"/> ___ Other:
Other data sources used	Walkscore Travel Time API, Redfin listings, Walkscore rentals, Census Bureau population estimates
Software/ data processing tools used	Python, Javascript, PostgreSQL, PostGIS, Digital Ocean
Brief description of methodology <i>(if someone wanted to do a similar analysis, how should they approach it?)</i>	Uses a binomial distribution to create an Opportunity Score value proportional to the probability of getting a transit commutable job.
Benefits of methodology/ data	It's not just a job heatmap. It's about the shot you have at getting a good job if you don't have a car, relative to everybody else in the area, even the folks who have cars.
Drawbacks/problems with methodology/data	Slow to process for the first time and doesn't easily reflect new changes to transit and jobs. Treats all jobs paying over \$40k the same.
Anything else?	Supplements with housing and rental data from Redfin.com & Walkscore.com (a subsidiary of Redfin) that allows users to connect housing choices to job accessibility
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