

## LEHD Methodology Template

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### Title: **Minding Our P's and Q's: Using LODES Data to Explore the Impact of the Paycheck Protection Program (PPP)**

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Question your work tried to answer	Moving the operationalization of “impact” beyond a focus on loan amounts by linking PPP loan transactions to the LODES crosswalk file and LODES data.
<b>Local Employment Dynamics</b> data sources used	<input checked="" type="checkbox"/> 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	Transaction files for the PPP and EIDL programs; ACS PUMS
Software/ data processing tools used	STATA, Maptitude, and QGIS
Brief description of methodology <i>(if someone wanted to do a similar analysis, how should they approach it?)</i>	<ul style="list-style-type: none"> <li>• Geocode each valid address of provided in each of the three transaction datasets made available             <ul style="list-style-type: none"> <li>• PPP</li> <li>• EIDL</li> <li>• EIDL-Advance</li> </ul> </li> <li>• Create spatial joins to existing boundary files to allow aggregation of data at different levels of geographic specificity             <ul style="list-style-type: none"> <li>• LODES crosswalk file</li> <li>• PUMA boundaries</li> <li>• Economic areas boundaries (BEA)</li> <li>• Local geography (councils of government, WIOA regions, county planning areas, school districts,)</li> </ul> </li> <li>• Use geoids in spatially joined data to create unique datasets designed to transaction data aggregated to</li> </ul>

	<p>different levels of geography, e.g., WIOA boundaries, PUMAs, council districts, block groups</p> <ul style="list-style-type: none"> <li>• LODES</li> <li>• ACS PUMS</li> </ul>
Benefits of methodology/ data	The augmentation of the PPP loan significantly improves the ability to identify
Drawbacks/problems with methodology/data	While using the augmented PPP loan transaction data significantly improves the ability to operationalize the concept of “impact” by making it easier to address the basics questions of who, what, when, where, and how, front-end data management is cumbersome as is working across multiple geographies to really get at the underlying spatial relationships within the data.
Anything else?	
Who and how to contact for more information:	<p>Curtis L. Askew  President and Principle  DataNgin Consulting LLL  Grvllaskew@yahoo.com</p>