Food Access Analysis
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A Geographic Information System-Based Approach to Evaluate Access to Healthful Food Resources in San Jose, California
Data Source and Data Type:
1. Socio-economic Characteristics (Census 2010, Polygons)
2. Bus Stops (Valley Transportation Authority, Points)
3. Supermarkets and Farmers' Market Locations (Field Study, Points)
is there a Correlation Between Race, Ethnicity, and Income and a Family's Access to Healthful Food?
Asian populations are dominant in the north and northeast tracts, and another pocket to the far west side of the city.
The racial composition of San Jose, CA, is shown in the map. The west census tracts of San Jose are predominantly (50% or more) of white race population.
The distribution of the population classified as "Other" is closer to downtown San Jose and in the eastern census tracts.
The central census tracts include a high density of Hispanic population.
Highly populated Hispanic census tracts overlap with tracts that include households in poverty.

- **Blue**: Households earning above 100% of median income
- **Yellow**: Households earning 80% to 100% of median income
- **Pink**: Households earning less than 80% of median income

Population in poverty:
- **Pink**: Households earning less than 80% of median income
Support Urban Residents to Shop for Groceries
A. Public Transit

1. In terms of food access vulnerability, the level of service provided by public transit a significant factor.
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Density calculation of bus stops in San Jose

GIS Density Tool

Census tracts with high Hispanic population and lower-income levels, mostly, receive moderate public transit service.
Available Food Resources: food-related retailers (North American Industry Classification System)
### Table 1: North American Industry Classification System

<table>
<thead>
<tr>
<th>Sector</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>445110</td>
<td>Supermarkets and Other Grocery (Except Convenience) Stores</td>
</tr>
<tr>
<td>445120</td>
<td>Convenience Stores</td>
</tr>
<tr>
<td>445210</td>
<td>Meat Markets</td>
</tr>
<tr>
<td>445220</td>
<td>Fish and Seafood Markets</td>
</tr>
<tr>
<td>445230</td>
<td>Fruit and Vegetable Markets</td>
</tr>
<tr>
<td>445291</td>
<td>Baked Goods Stores</td>
</tr>
<tr>
<td>445292</td>
<td>Confectionary and Nut Stores</td>
</tr>
<tr>
<td>445299</td>
<td>All Other Specialty Food Stores</td>
</tr>
<tr>
<td>445310</td>
<td>Beer, Wine, and Liquor Stores</td>
</tr>
</tbody>
</table>

The directional distribution tool allows a circle or ellipse around the location of a cluster of points.

This shows their pattern of distribution as well as the direction in which they spread.
Supermarkets and Other Grocery Stores in San Jose have a nearly circular distribution around Downtown.
Census tracts with 50% or more Hispanic population and households earning less than 80% of median income

Planning in general and food system planning in particular should include different approaches for central and eastern census tracts in San Jose when compared to areas occupied by a single race of non-Hispanic origin.
Reason:
research confirms that consumers have different fresh fruit and vegetable preferences based on race and ethnicity.