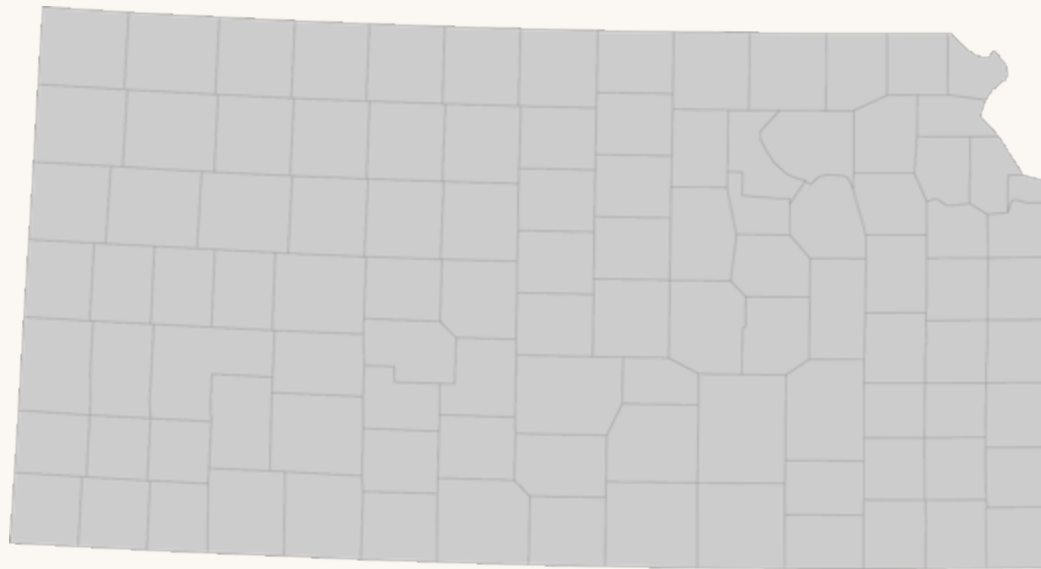


SPATIAL CLUSTERING

in

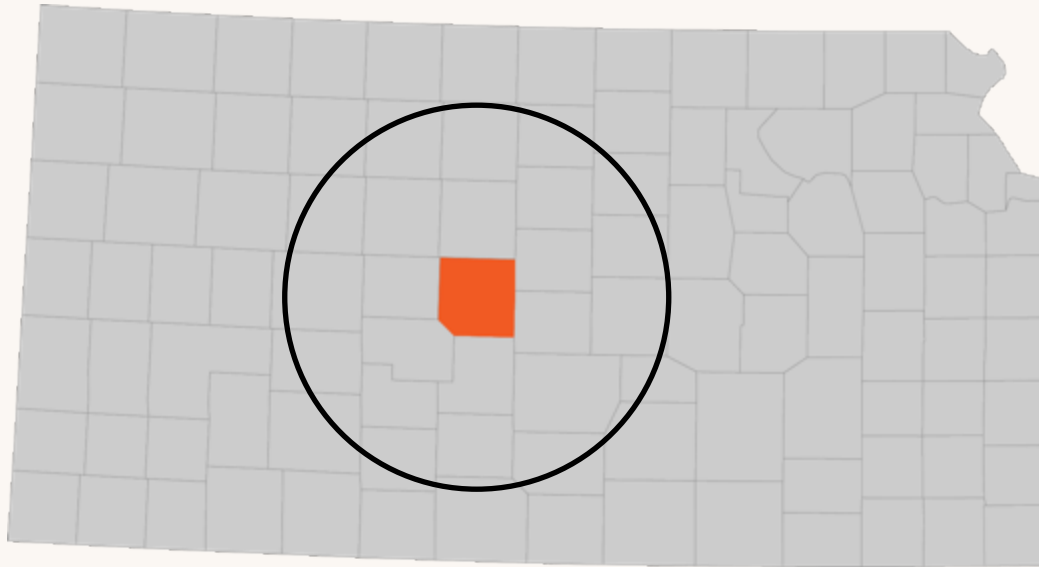
U.S. FOOD SUPPLY CHAINS

● ————— | Bivariate Local Moran's I | ————— ●



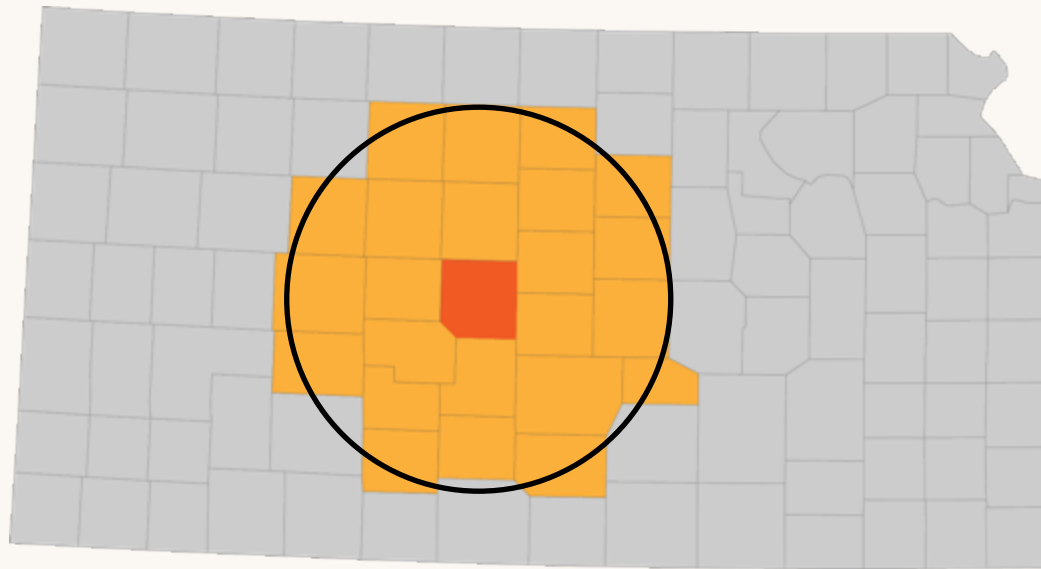
For Univariate Moran's I, see Anselin (1995). "Local indicators of spatial association – LISA." *Geographical Analysis*

Bivariate Local Moran's I



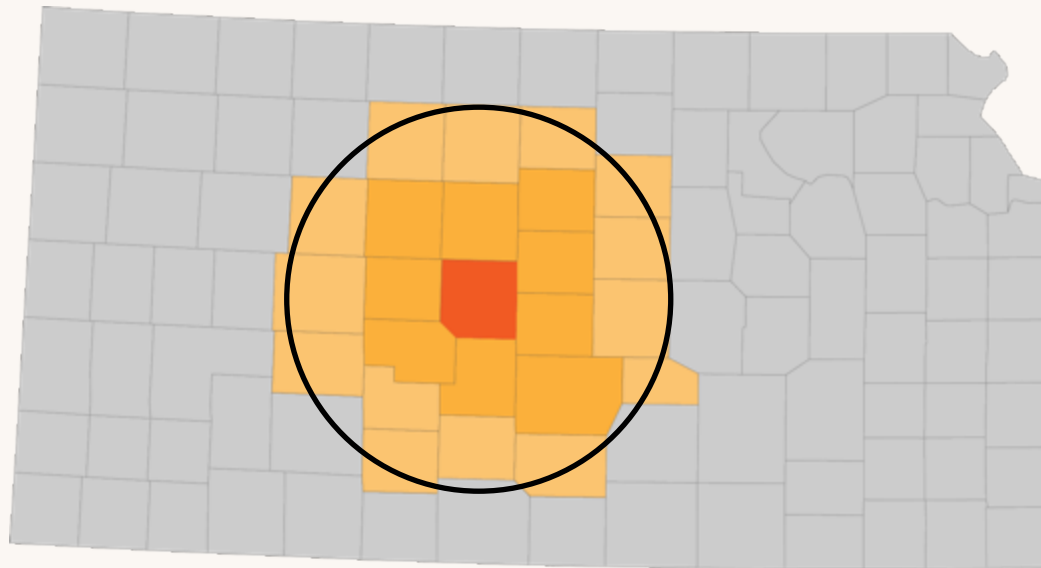
For Univariate Moran's I, see Anselin (1995). "Local indicators of spatial association – LISA." *Geographical Analysis*

Bivariate Local Moran's I



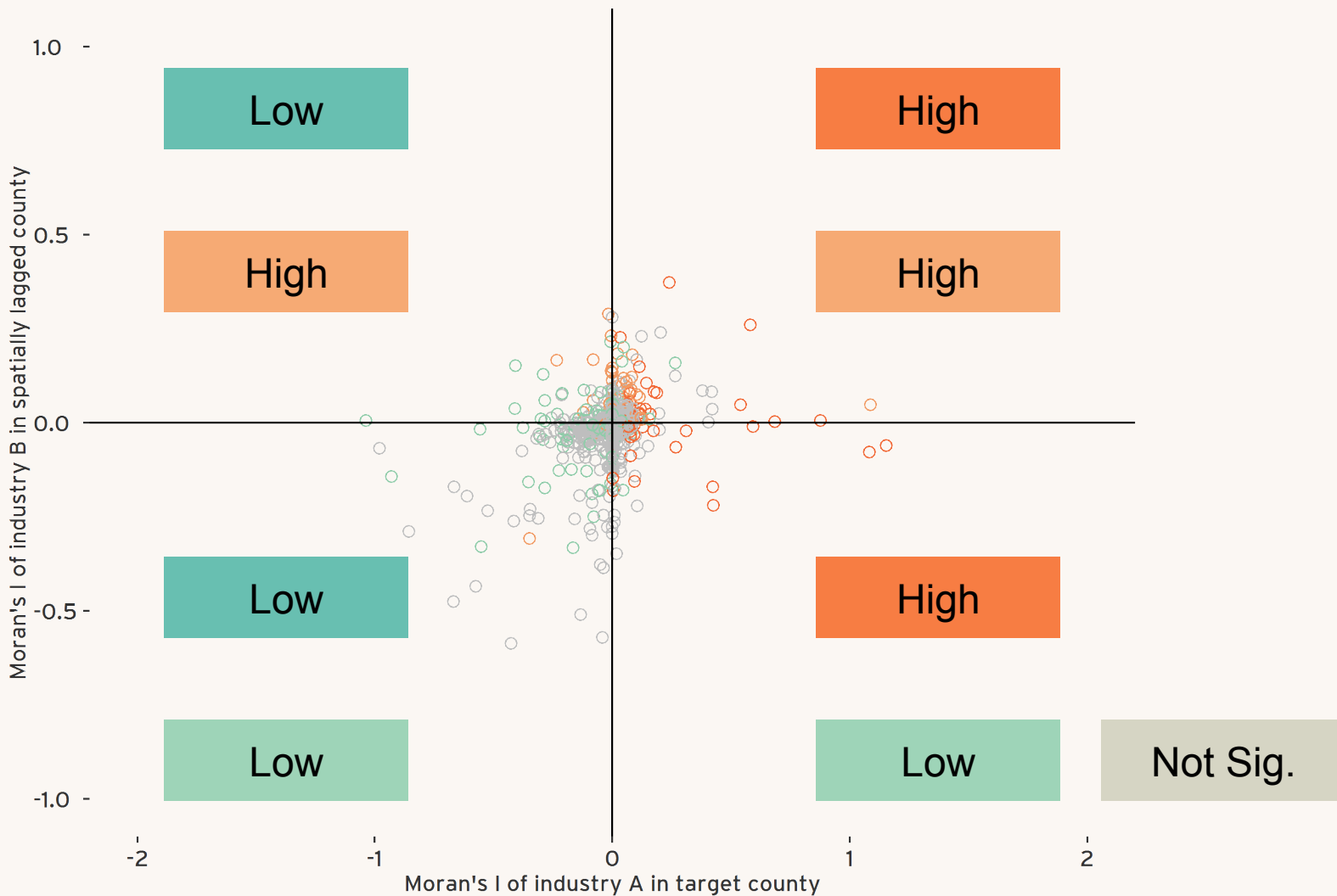
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Bivariate Local Moran's I



For Univariate Moran's I, see Anselin (1995). "Local indicators of spatial association – LISA." *Geographical Analysis*

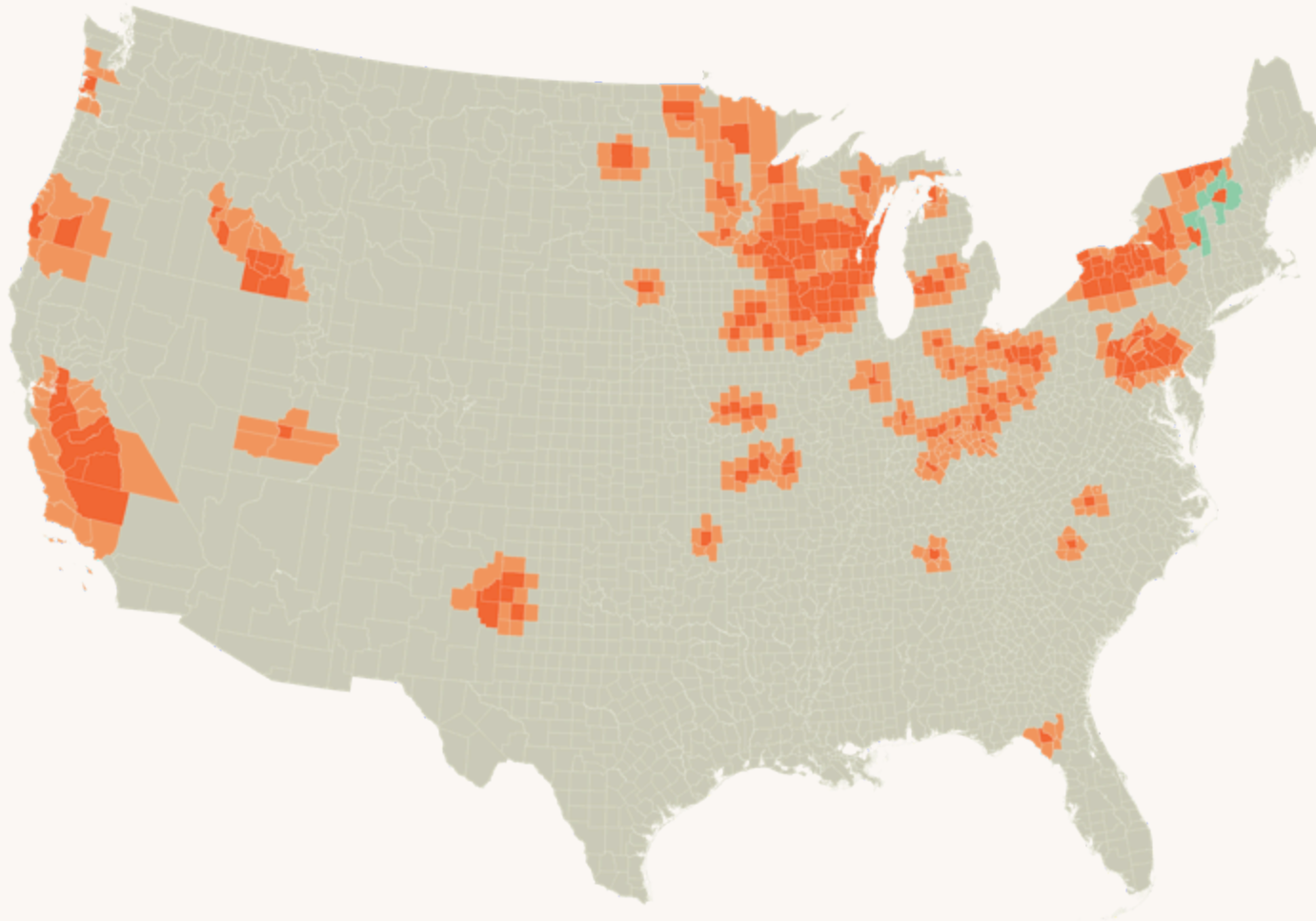
Bivariate Moran Scatterplot



Example data compares dairy herd density and total employment in nearby fluid milk manufacturing
See Anselin (1996). "The moran scatterplot as an ESDA tool to assess local instability in spatial association". In: *Spatial analytical perspectives on GIS*.

Dairy Supply Chain Clusters

2010



Dairy cows

Fluid Milk Proc.

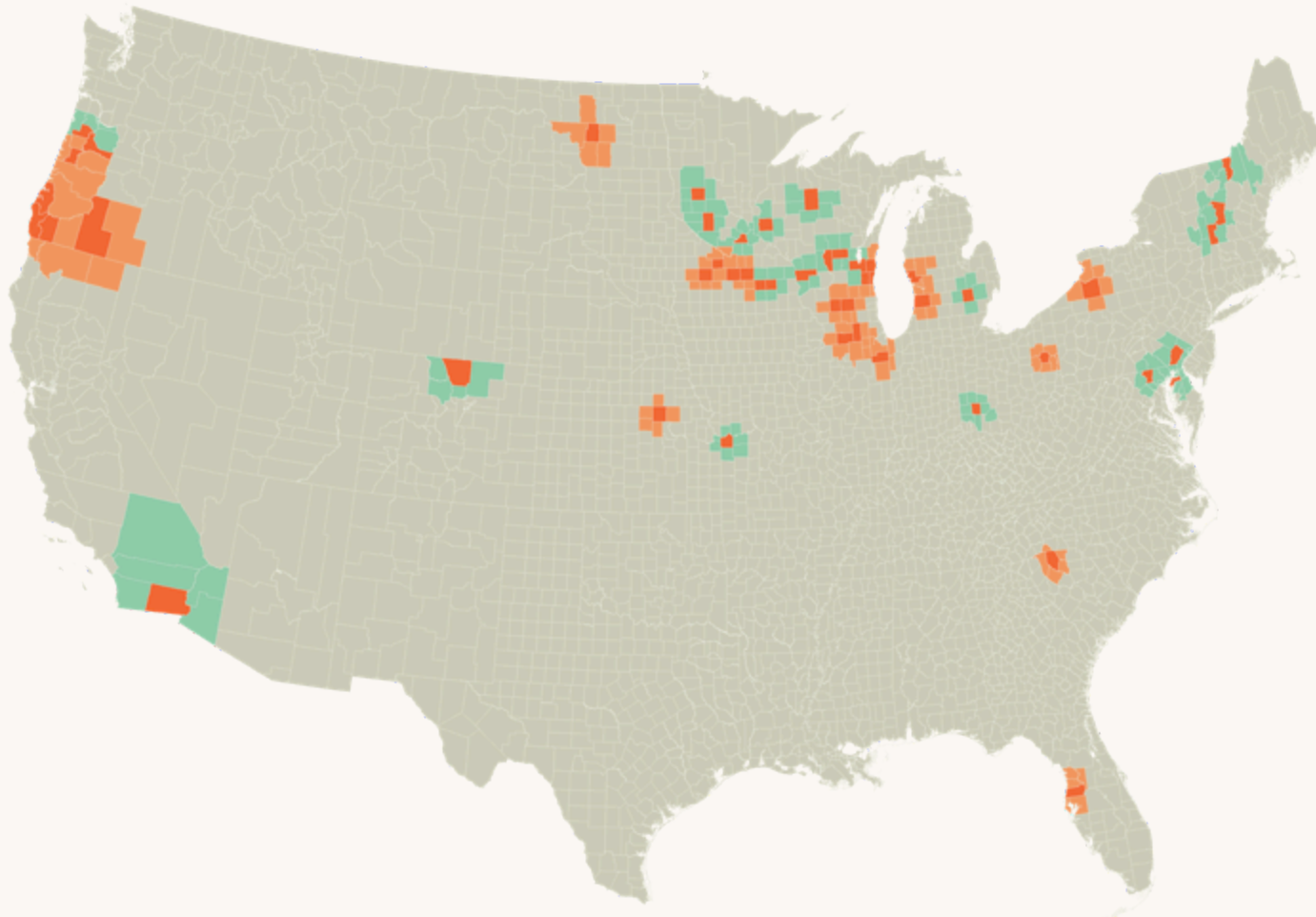
Dairy wholesale

Supermarkets

Populations

Dairy Supply Chain Clusters

2010



Dairy cows

↓ Cross Corr. ↑

Fluid Milk Proc.

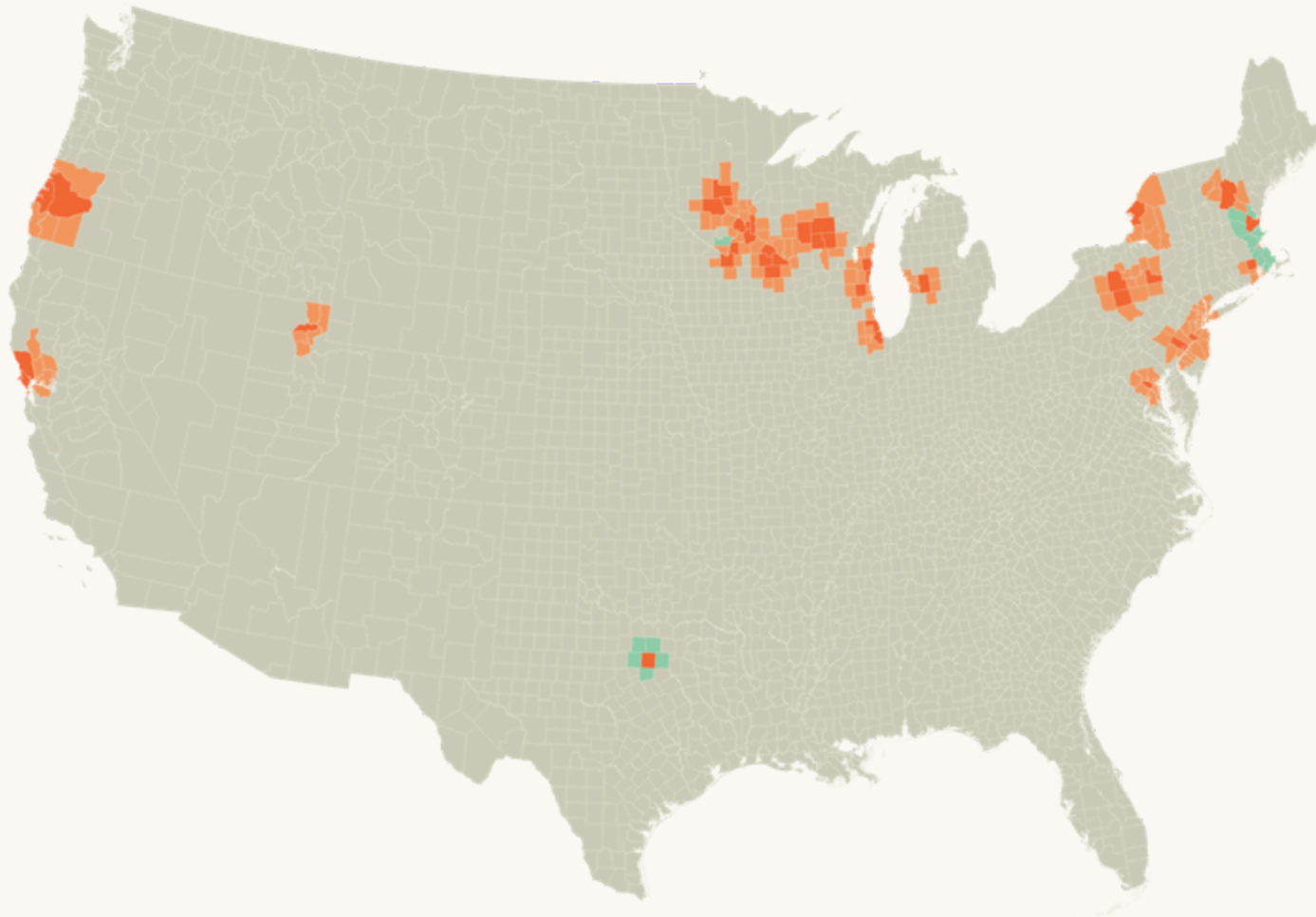
Dairy wholesale

Supermarkets

Populations

Dairy Supply Chain Clusters

2010



Dairy cows

Fluid Milk Proc.

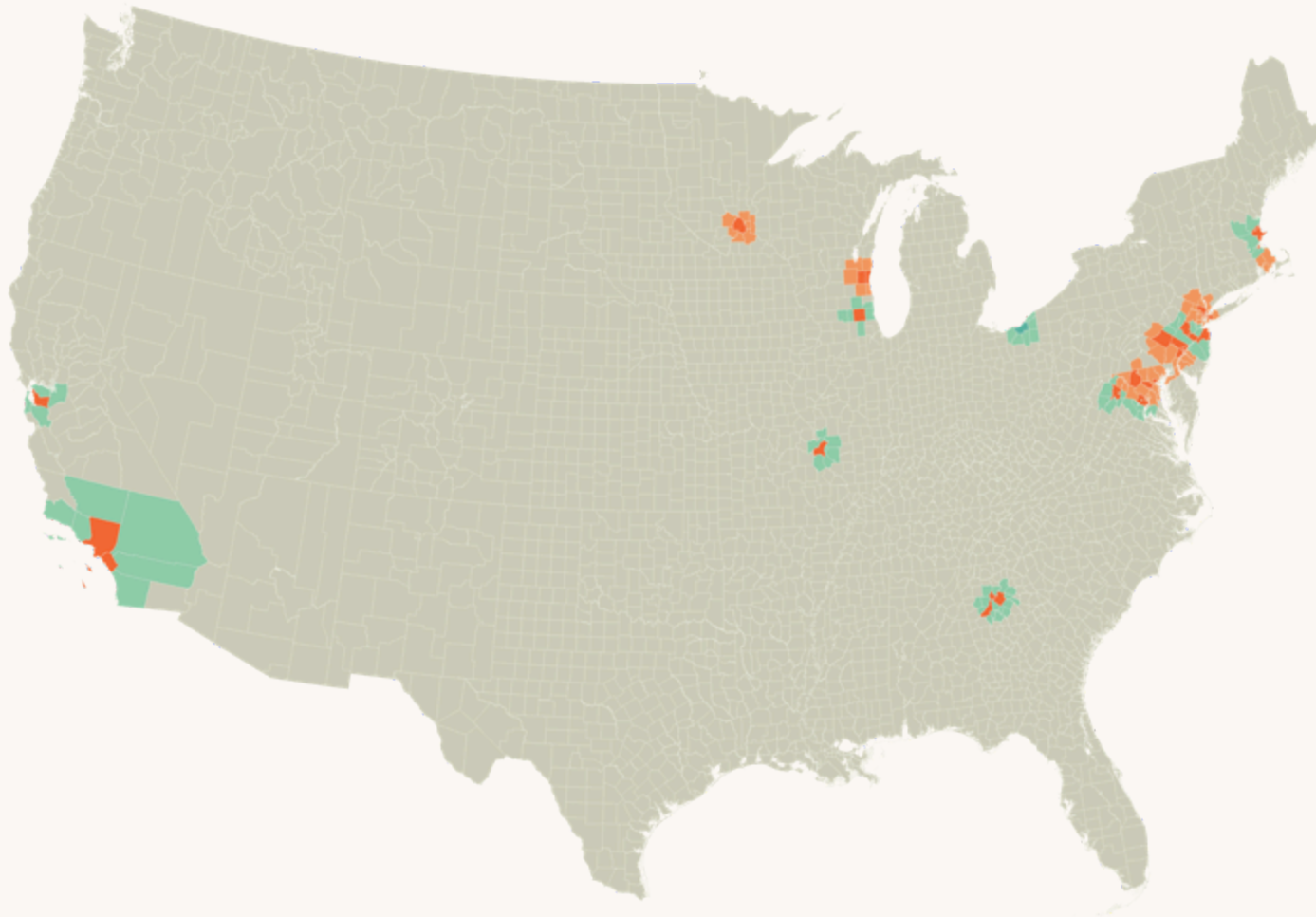
Dairy wholesale

Supermarkets

Populations

Dairy Supply Chain Clusters

2010



Dairy cows

Fluid Milk Proc.

↕ Cross Corr. ↕

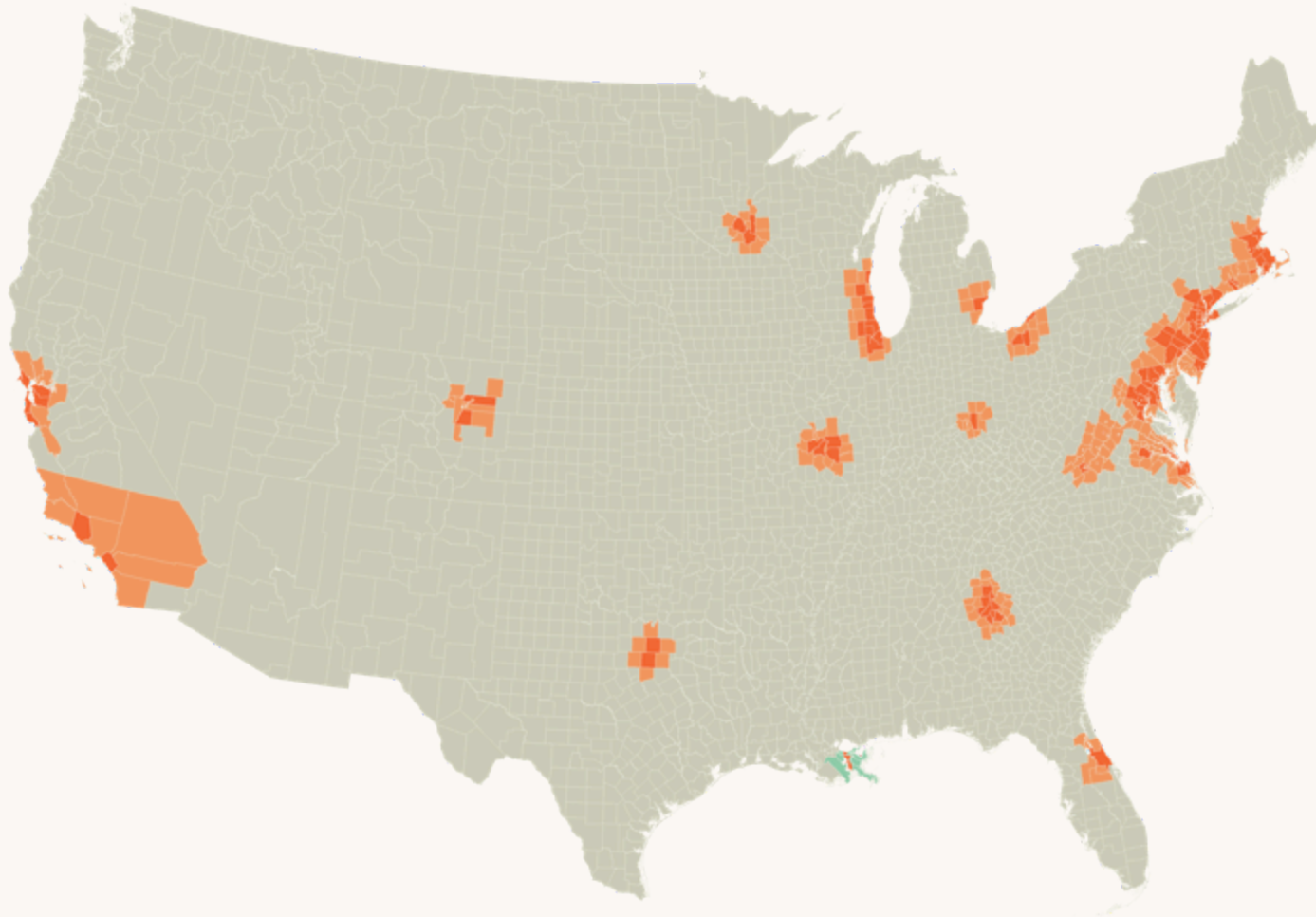
Dairy wholesale

Supermarkets

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Dairy Supply Chain Clusters

2010



Dairy cows

Fluid Milk Proc.

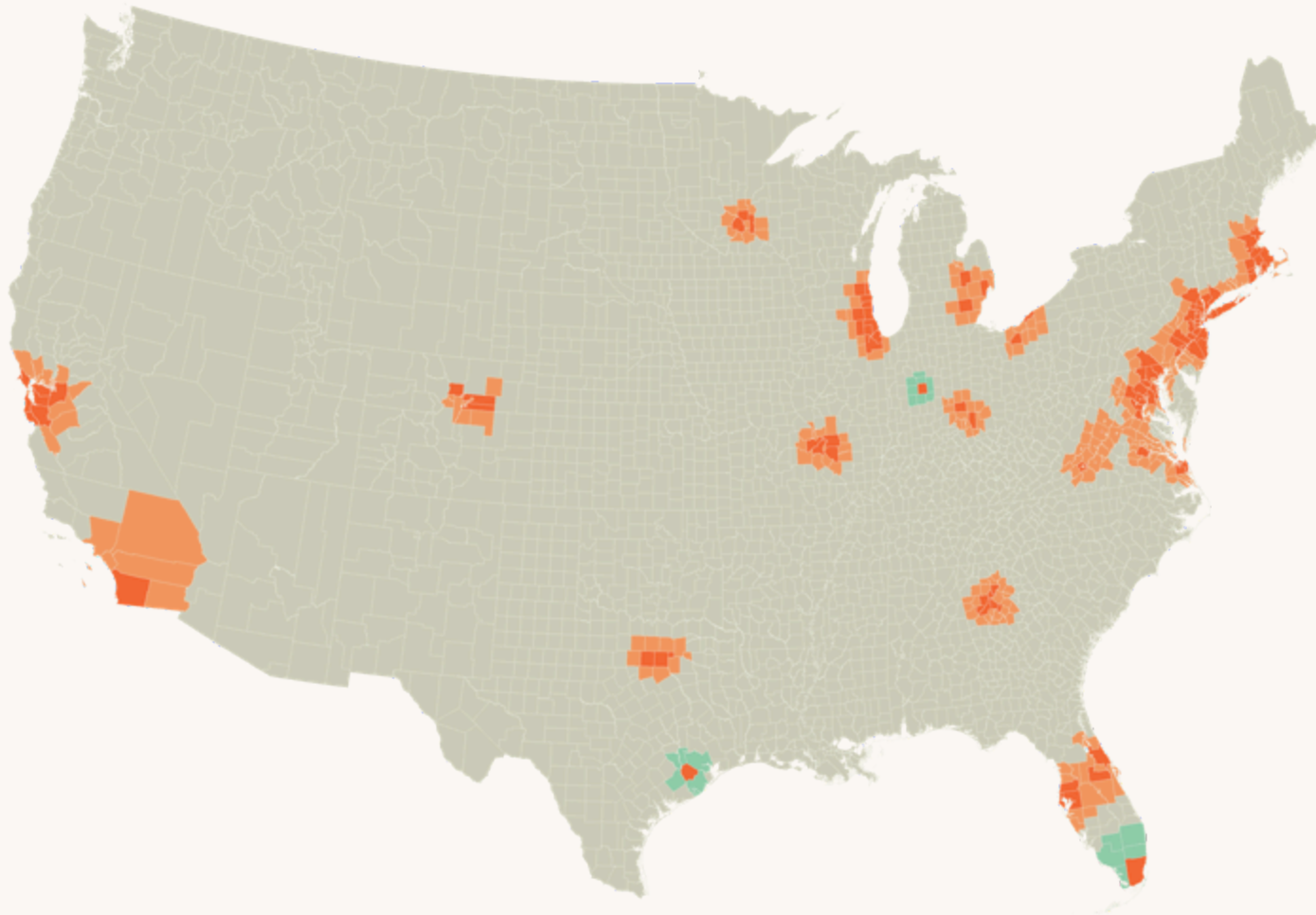
Dairy wholesale

Supermarkets

Populations

Dairy Supply Chain Clusters

2010



Dairy cows

Fluid Milk Proc.

Dairy wholesale

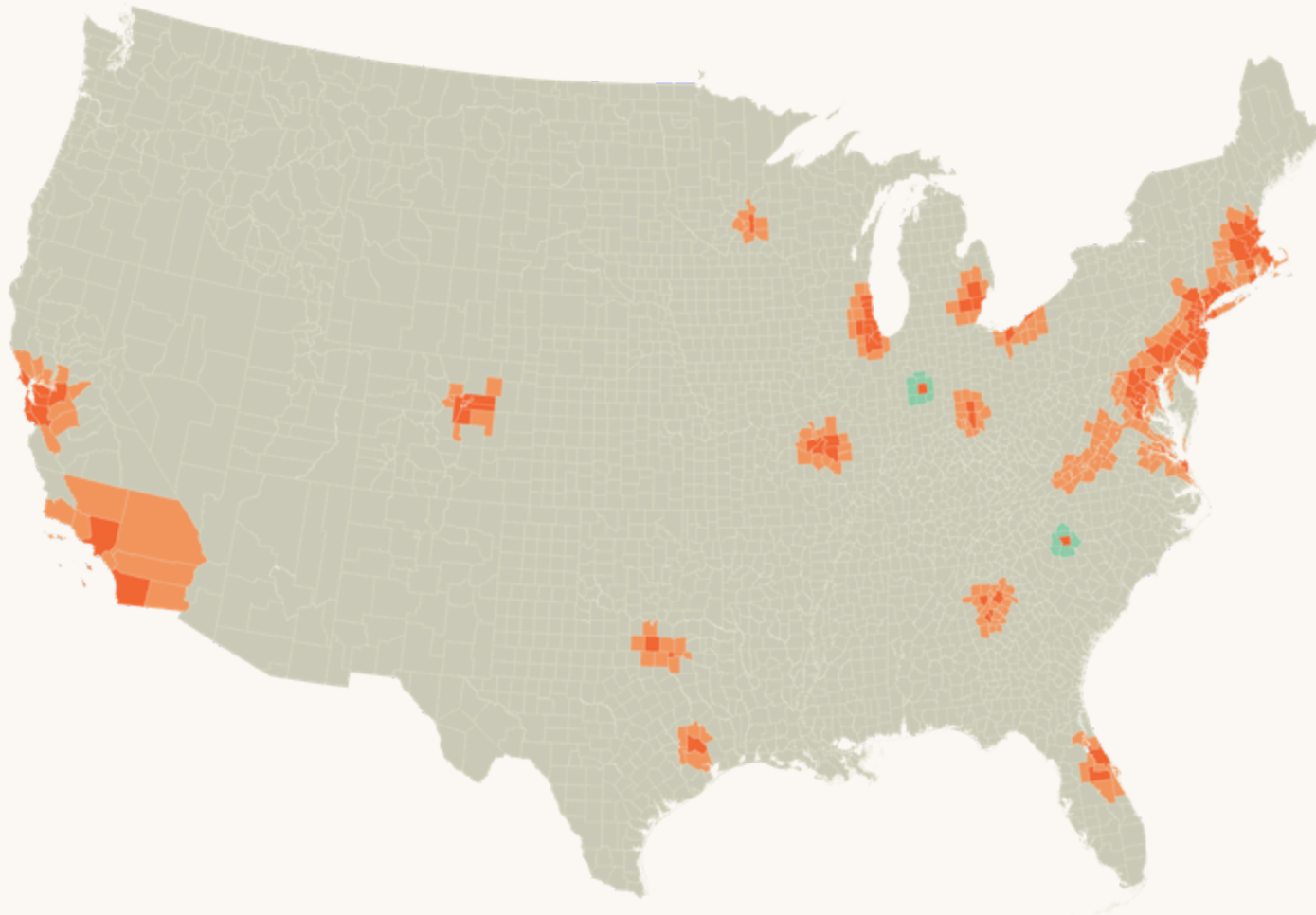
↓Cross Corr.↑

Supermarkets

Populations

Dairy Supply Chain Clusters

2010



Dairy cows

Fluid Milk Proc.

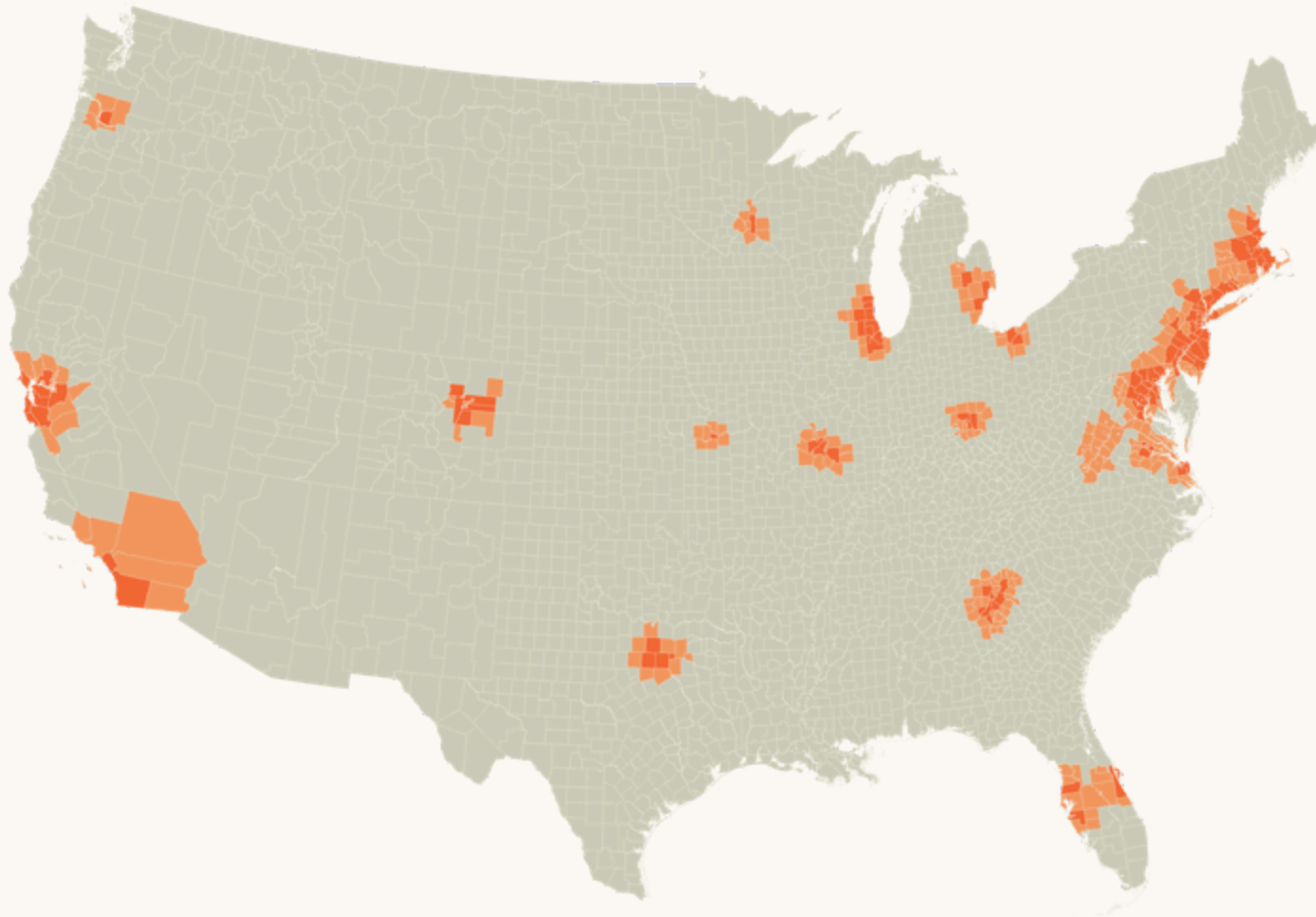
Dairy wholesale

Supermarkets

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Dairy cows

Fluid Milk Proc.

Dairy wholesale

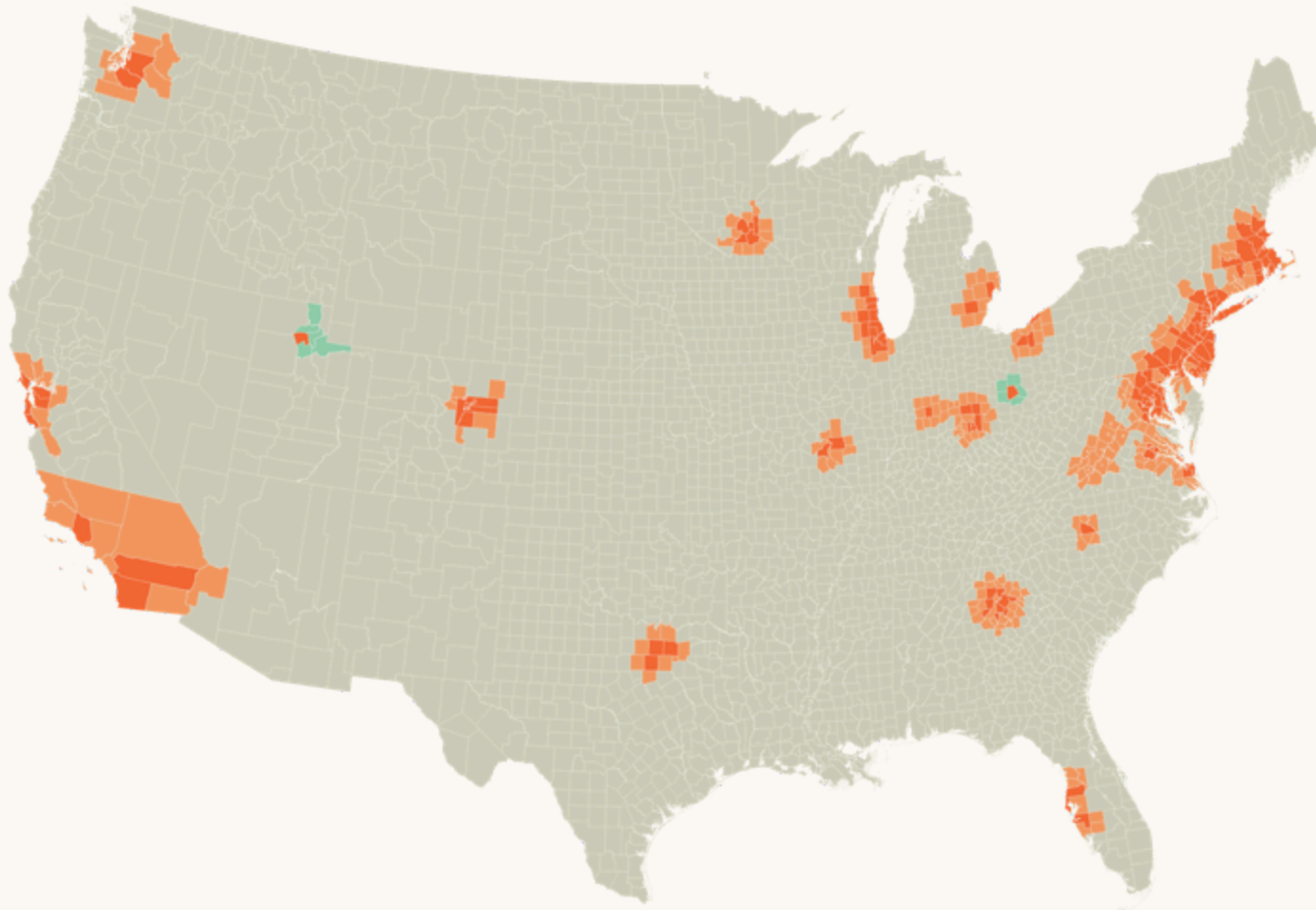
Supermarkets

↑Cross Corr.↑

Populations

Dairy Supply Chain Clusters

2010



Dairy cows

Fluid Milk Proc.

Dairy wholesale

Supermarkets

Populations