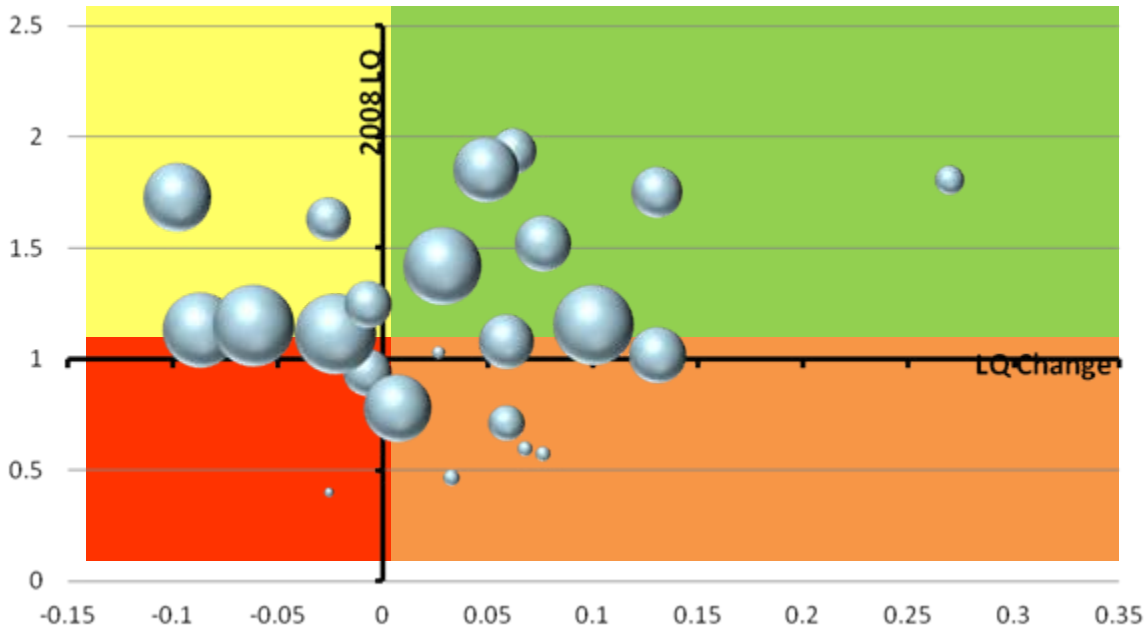


County Location Quotient Summary



Reading County “Bubble” LQ Charts

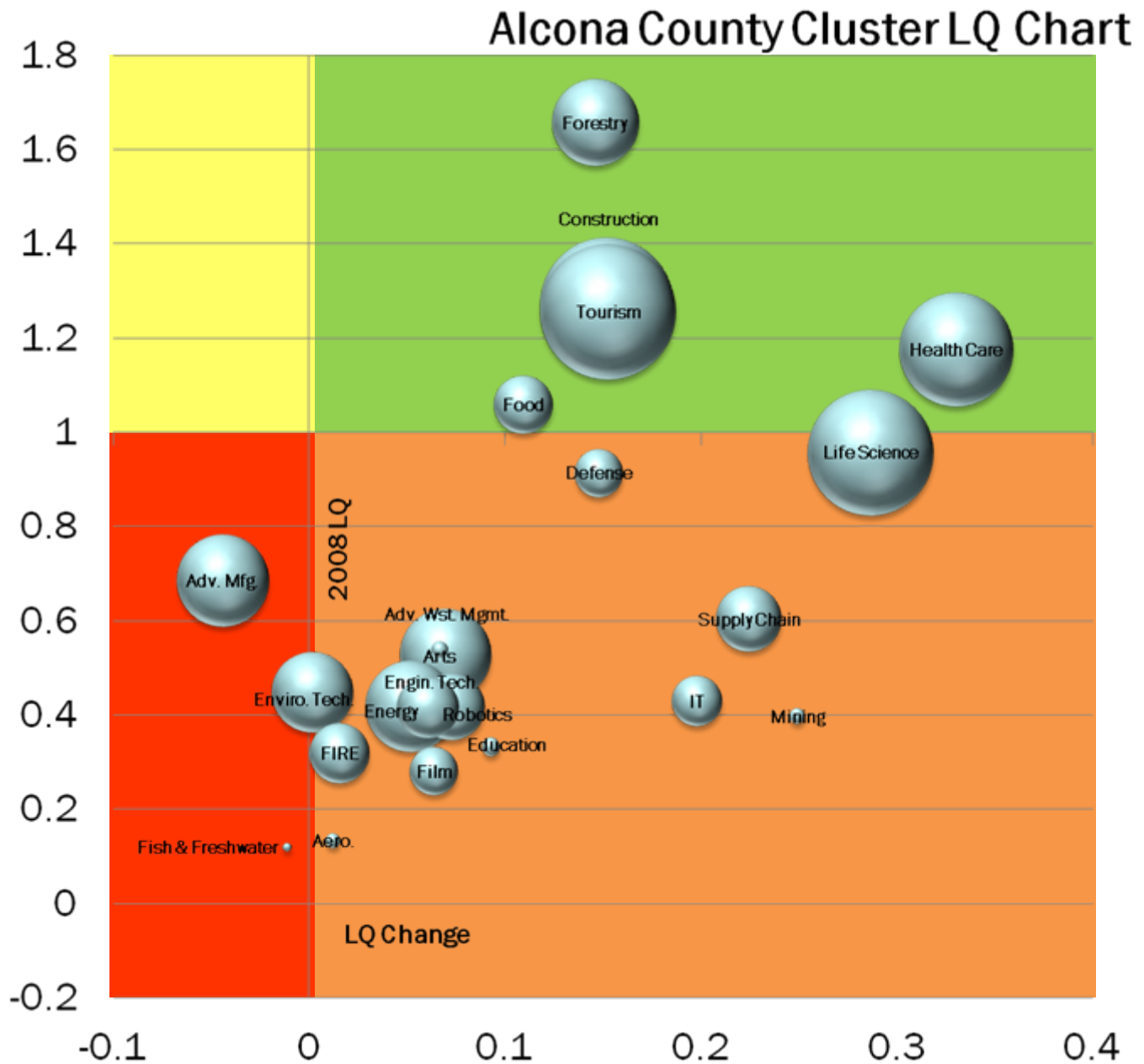


This section contains 83 LQ charts, one for each county in Michigan presented in alphabetical order. Each chart communicates three variables: 1) Location quotient, 2) change in location quotient, and 3) sales in each cluster. Location quotient is shown along the vertical axis (higher the better), change in location quotient is shown along the horizontal axis (to the right is better), and relative sales is displayed according to the area of each bubble.

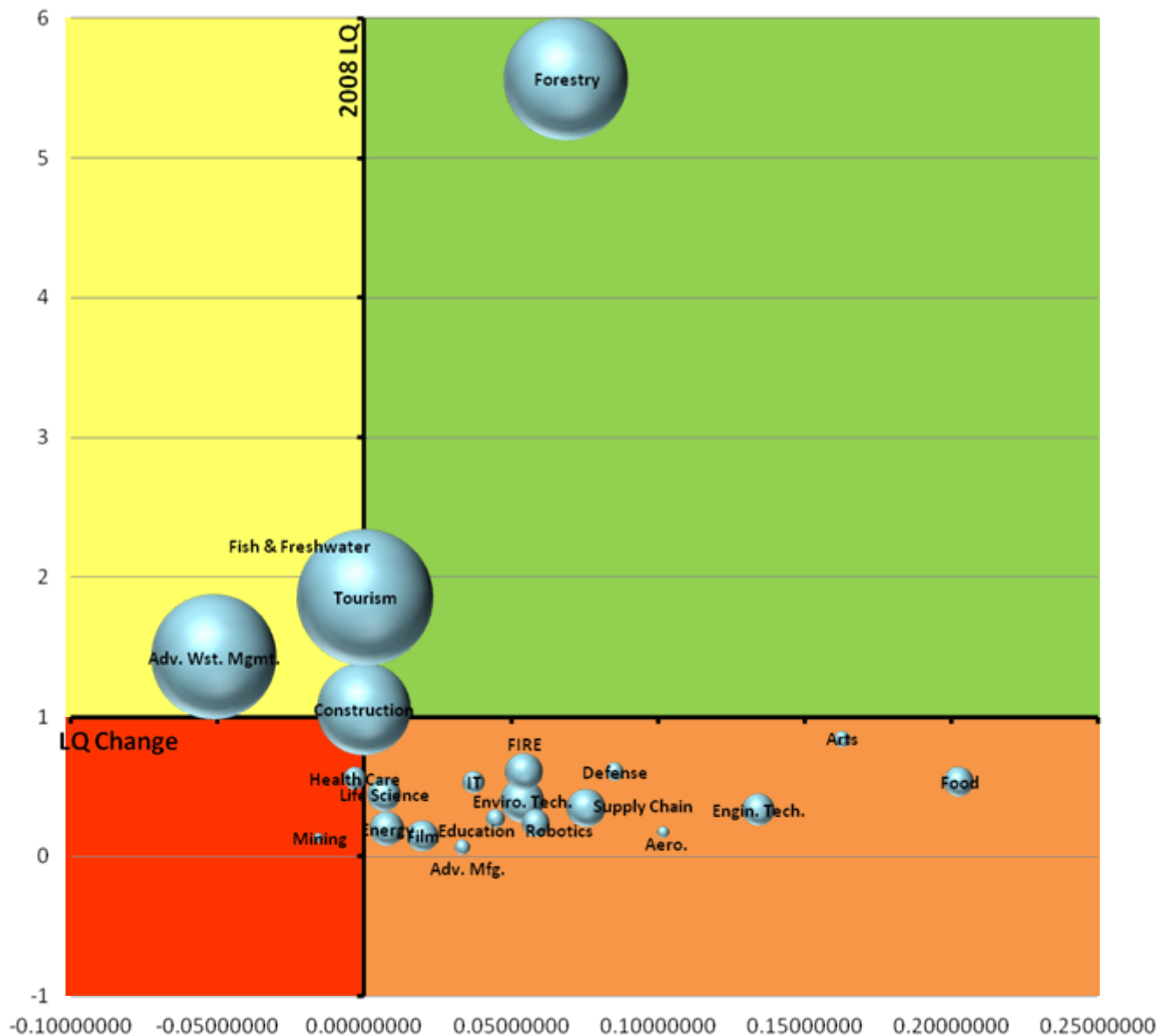
Location quotient is calculated differently in this section than in the state LQ charts found in the first section. In this section, LQ is calculated by dividing the proportion of employment in a particular cluster in county X by the proportion of Michigan employment accounted for by that cluster according to the National Establishment Time Series (NETS) database. Therefore, this section compares cluster employment within counties to cluster employment within the state as a whole.

The scales of each chart as well as the maximum and minimum values of the axes vary significantly between counties. Additionally, the size of each cluster bubble in a chart is proportional to other clusters within that county e.g. bubble size in the Kent County chart is not proportional to bubble size in the Leelanau County chart. Therefore, each of the 83 charts is useful for analyzing clusters in a particular county, but they are not particularly useful for comparing clusters between counties. The color-coded table contained in the next section is more effective for comparisons.

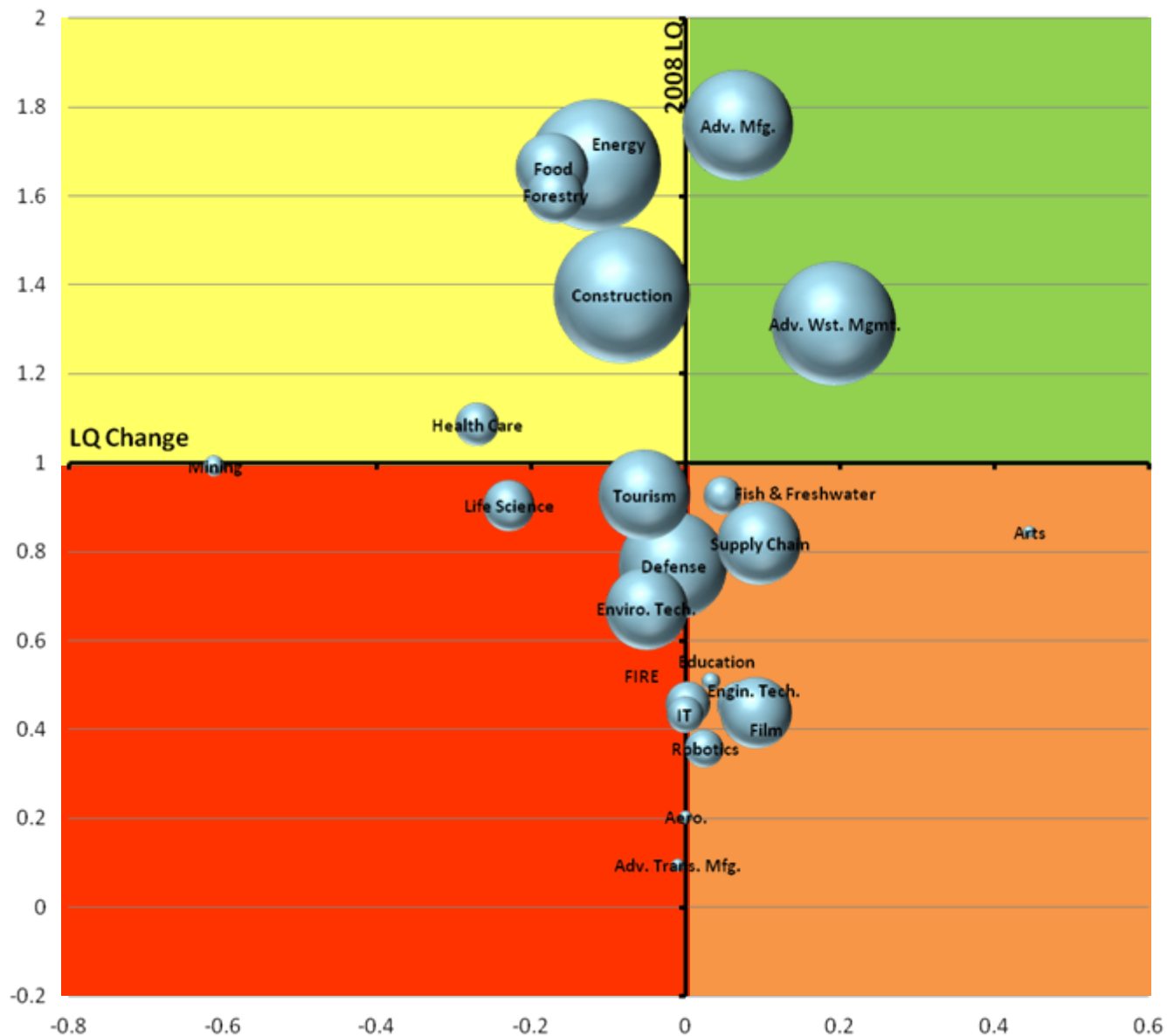
In some cases there are two charts. This is usually because one or two clusters are “off the chart” and including them with the rest of the clusters “squashes” them so differences are not easily discerned.



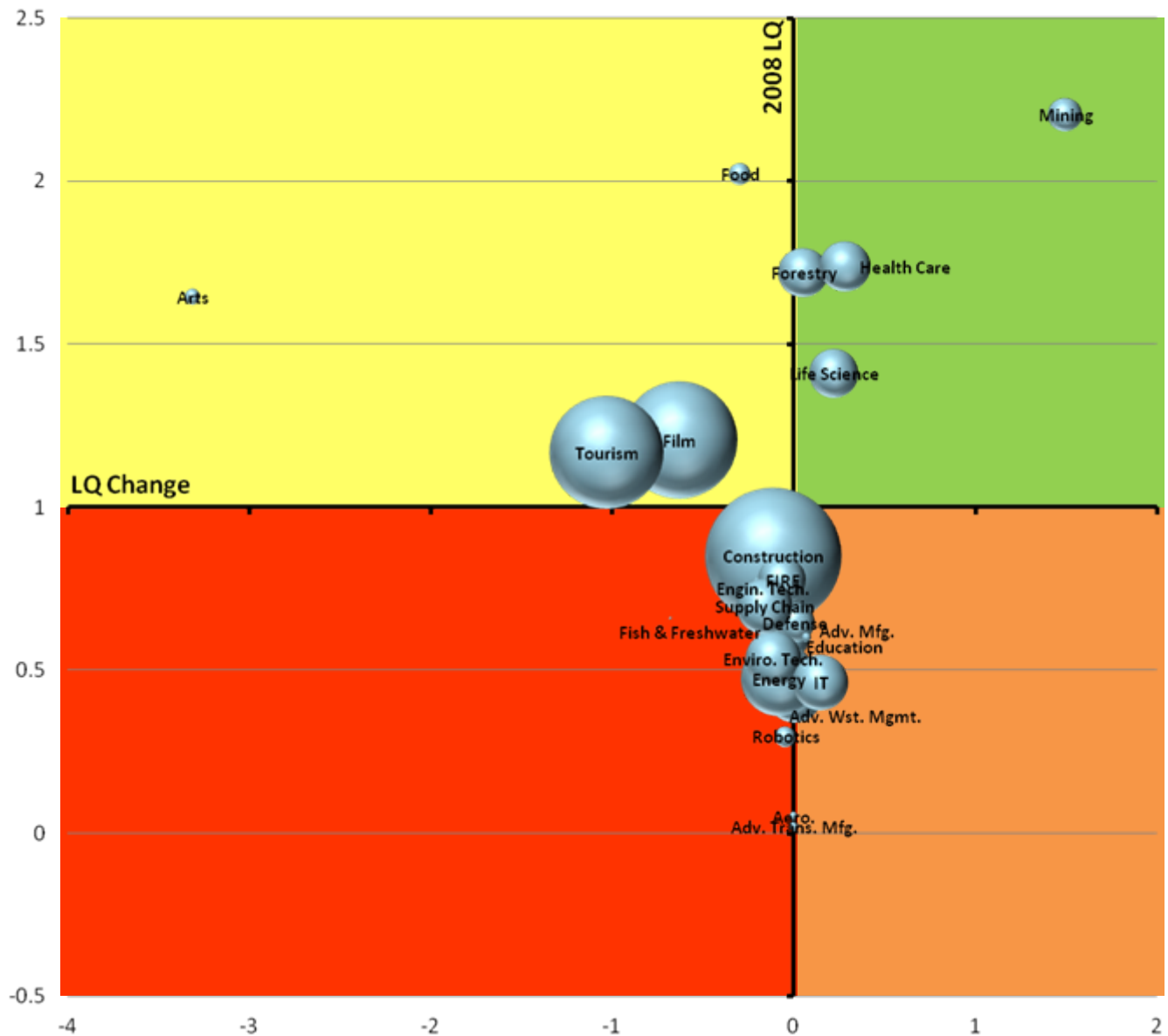
Alger County Cluster LQ Chart



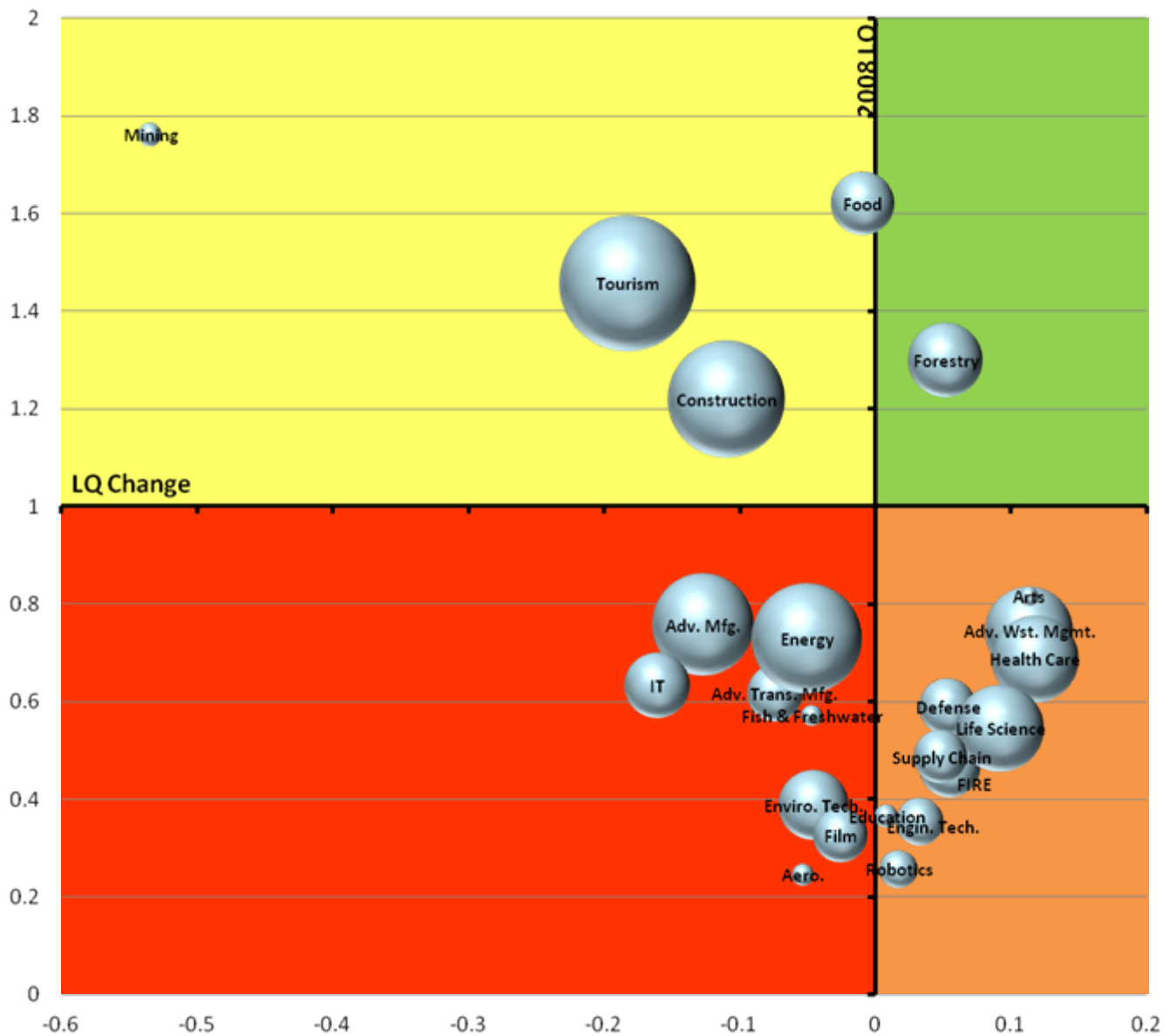
Allegan County Cluster LQ Chart



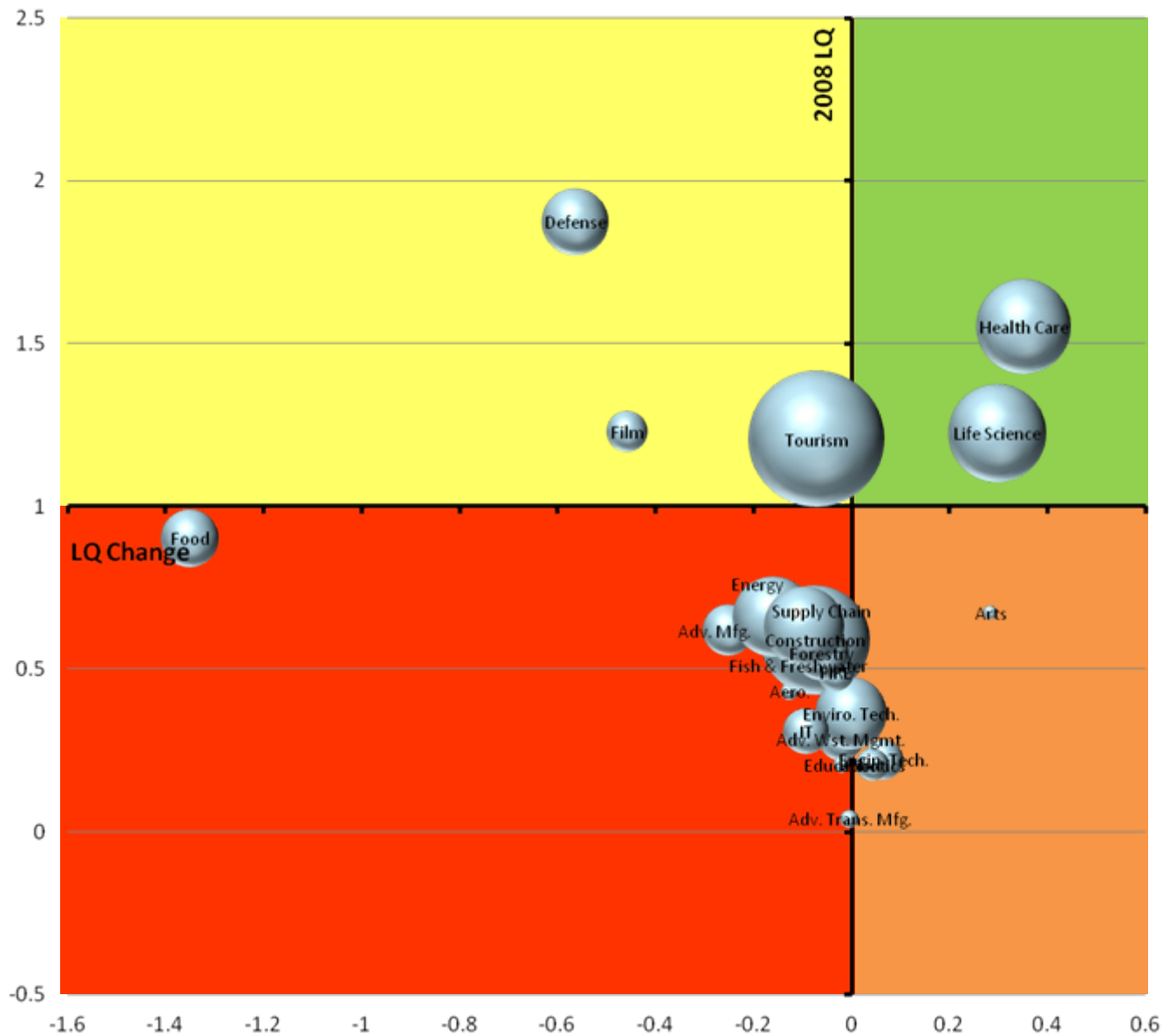
Alpena County Cluster LQ Chart



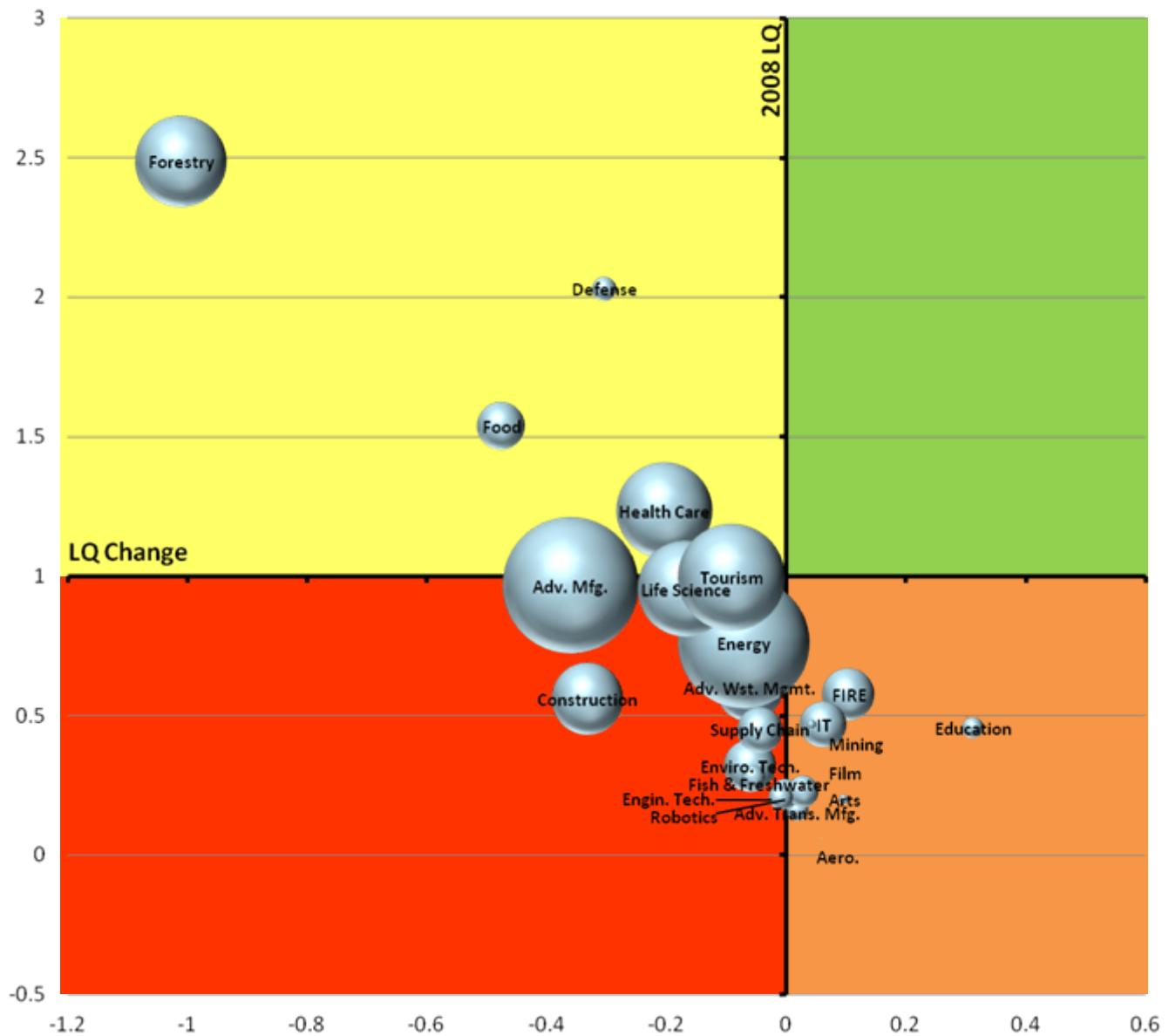
Antrim County Cluster LQ Chart



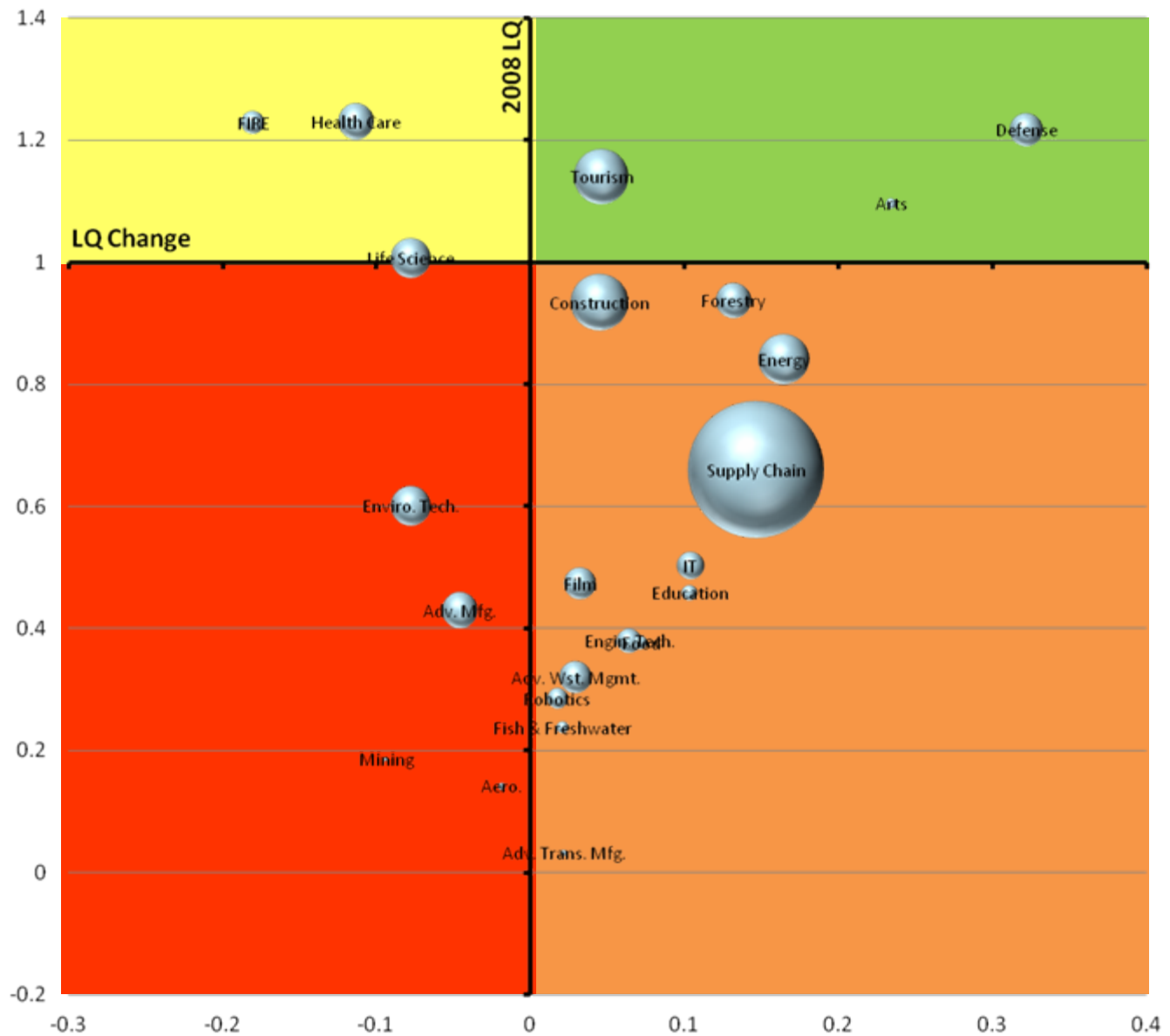
Arenac County Cluster LQ Chart



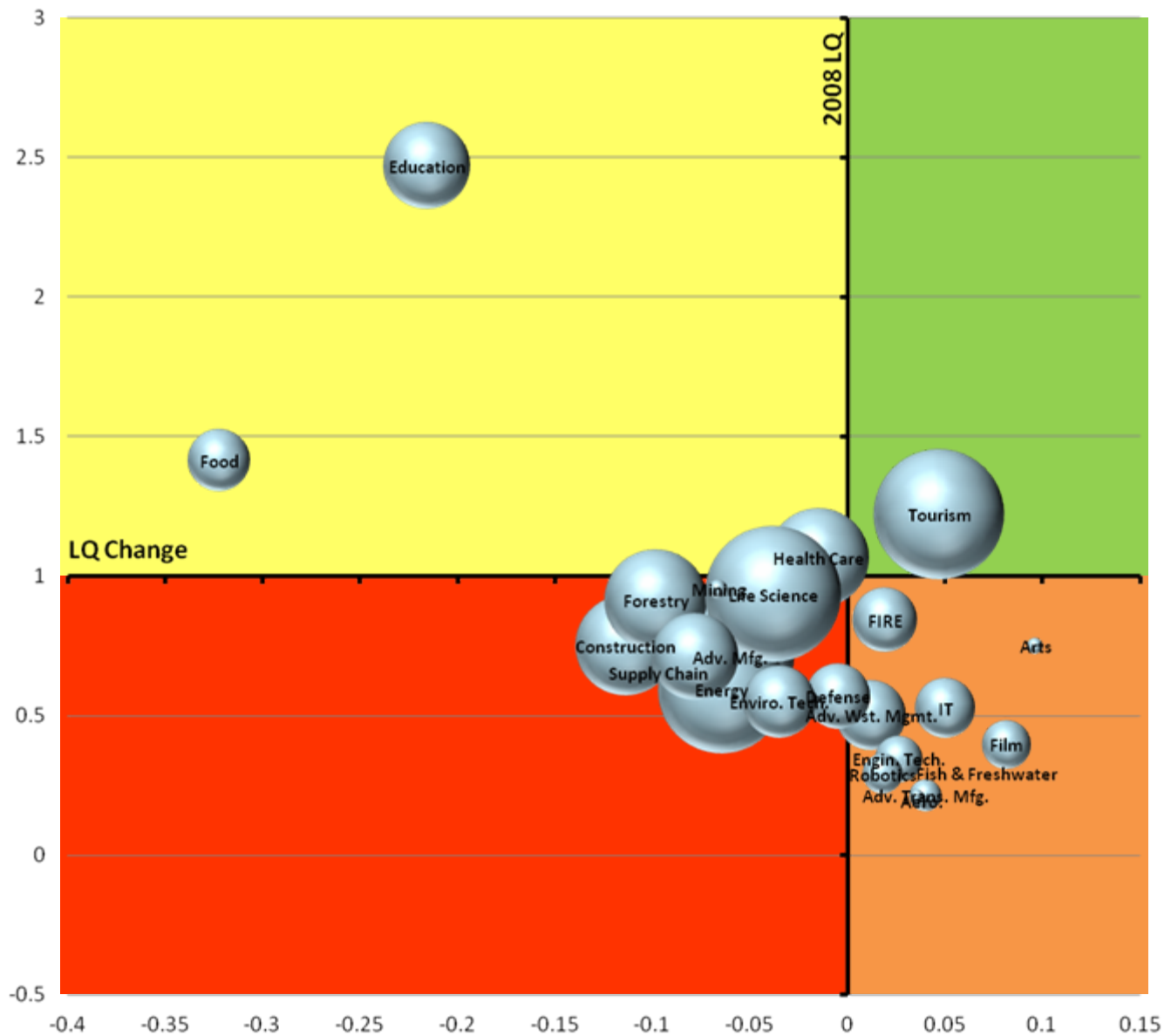
Baraga County Cluster LQ Chart



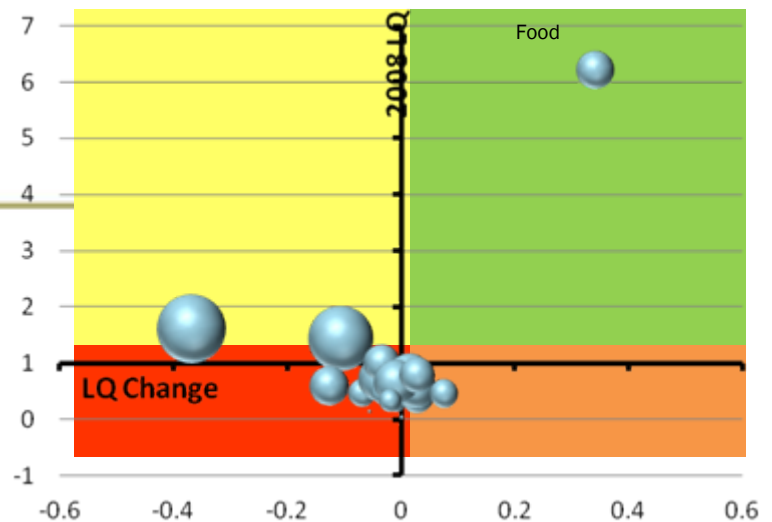
Barry County Cluster LQ Chart



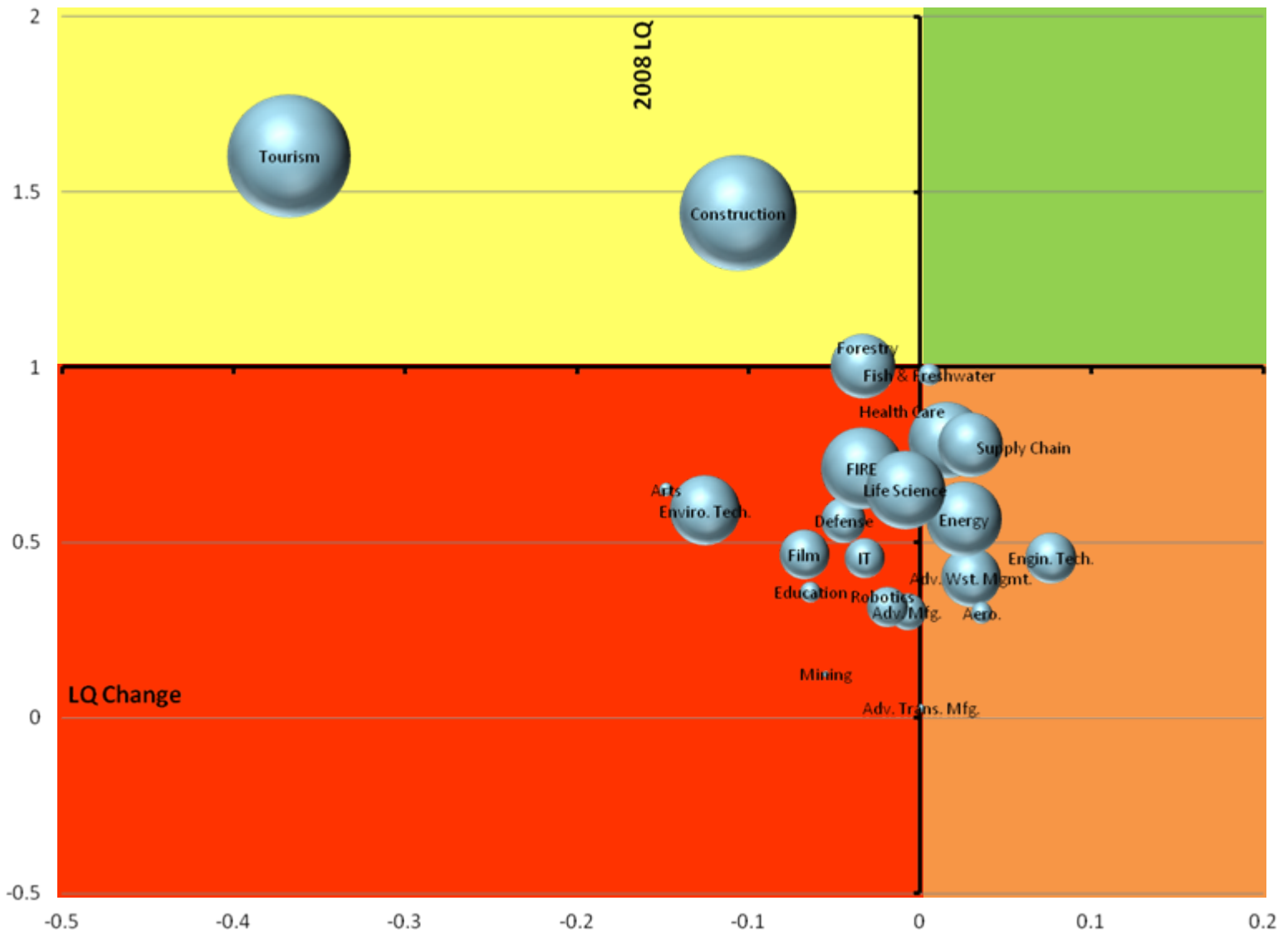
Bay County Cluster LQ Chart



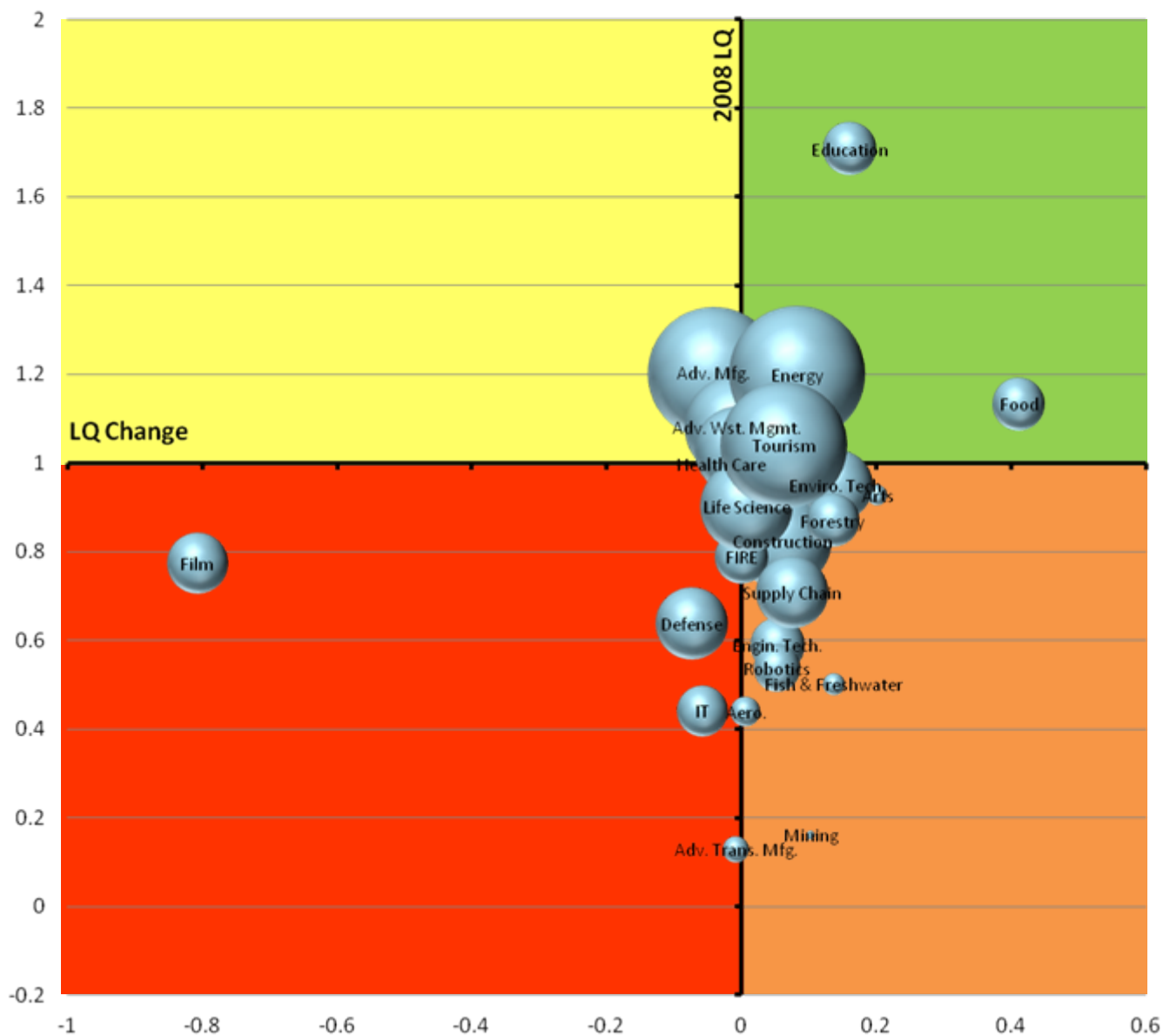
Cluster LQ Summary



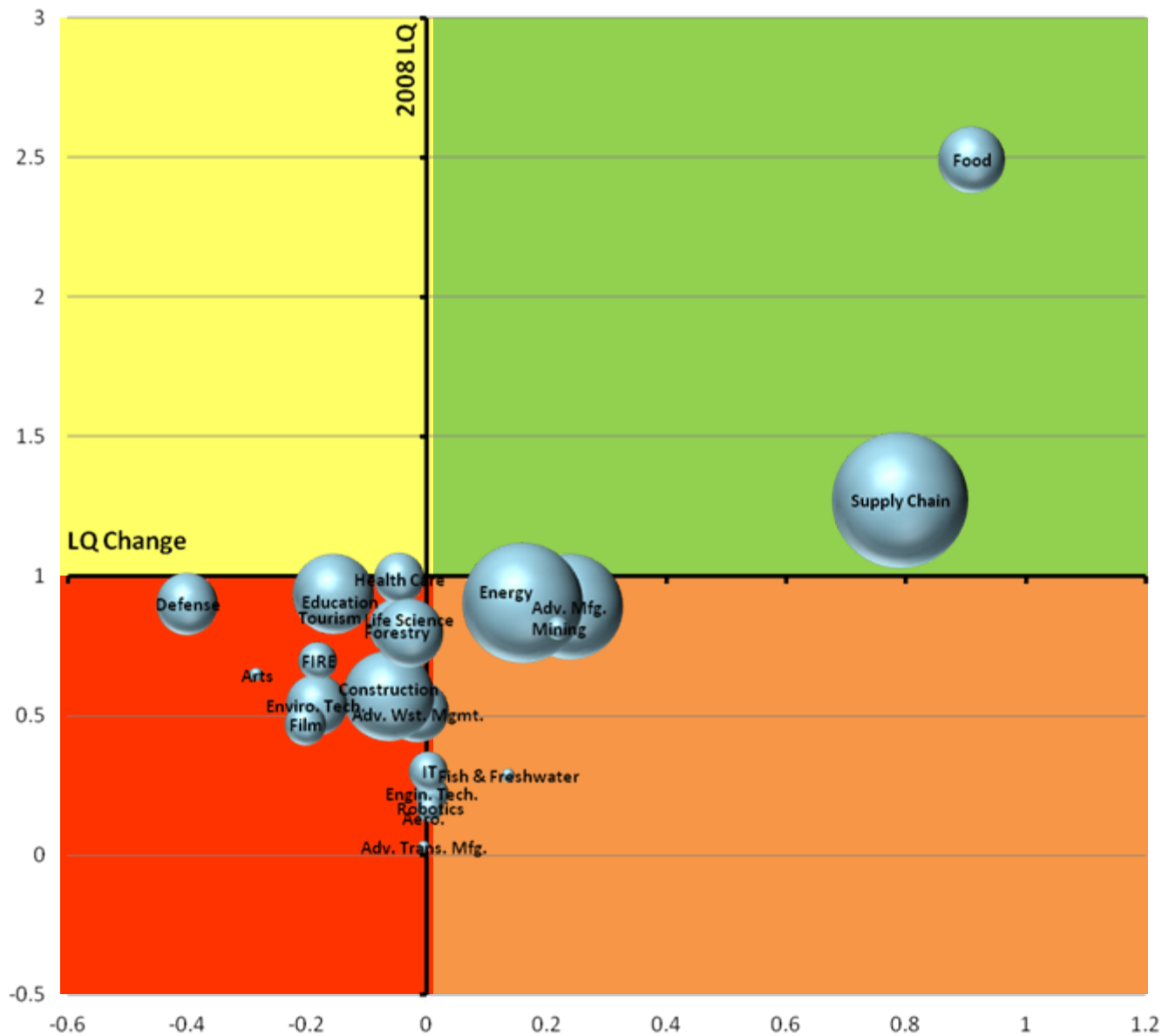
Benzie County Cluster LQ Chart



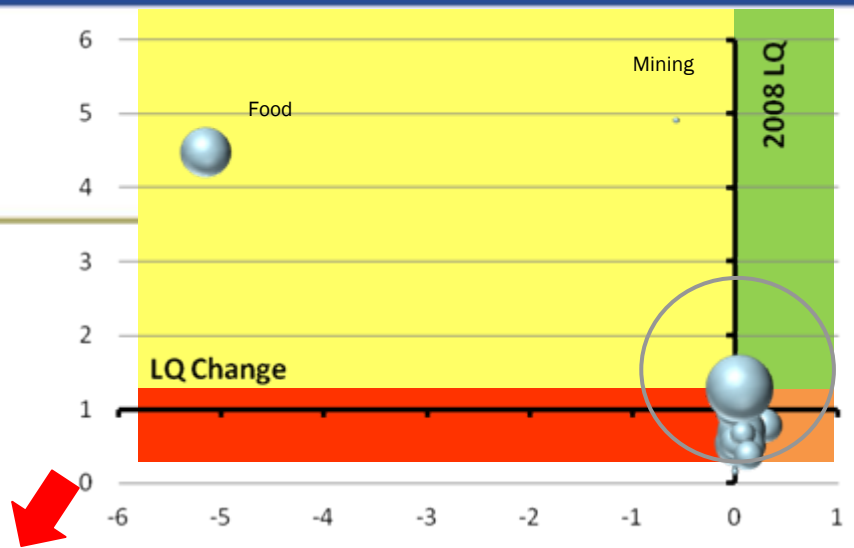
Berrien County Cluster LQ Chart



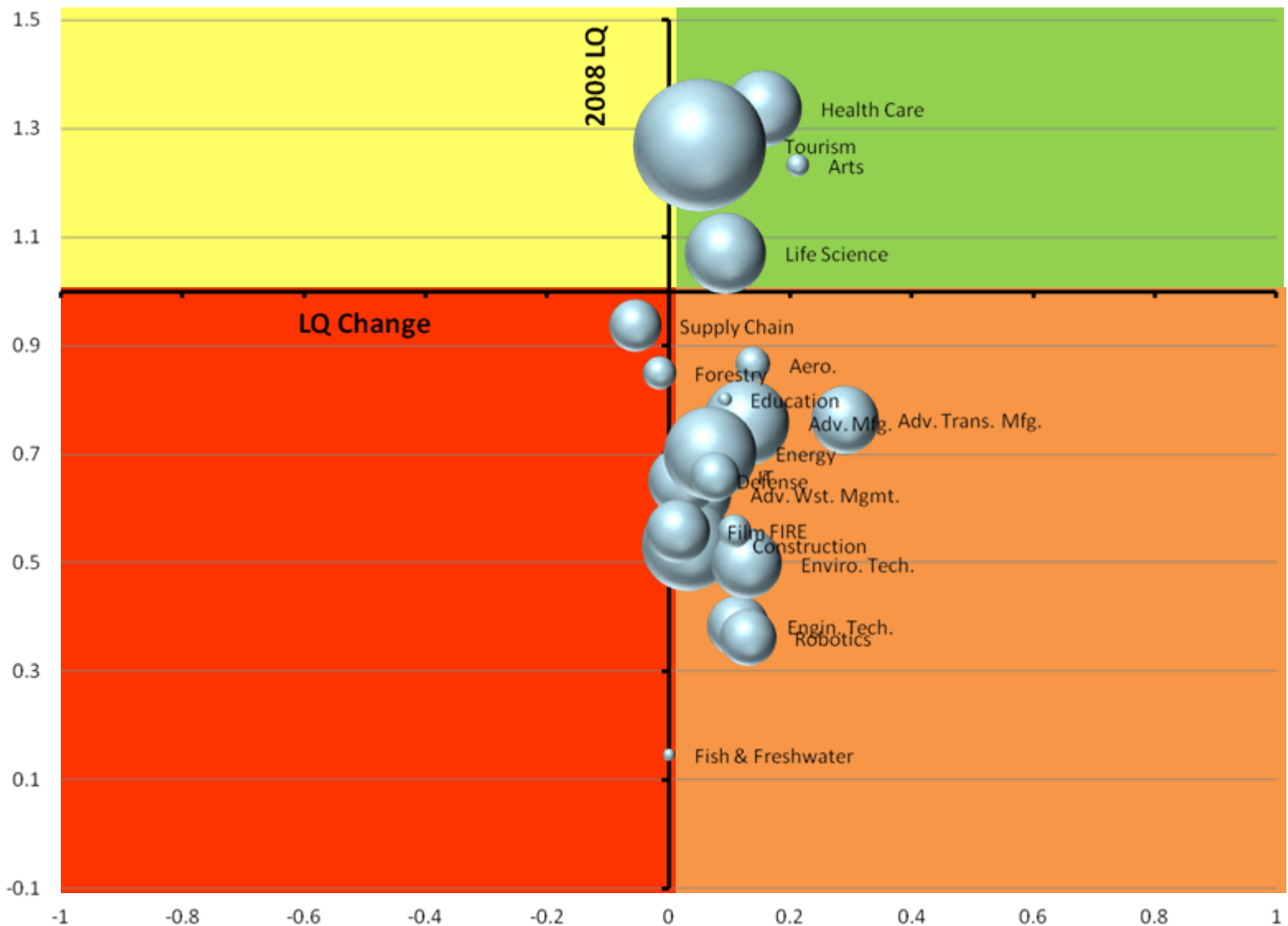
Branch County Cluster LQ Chart



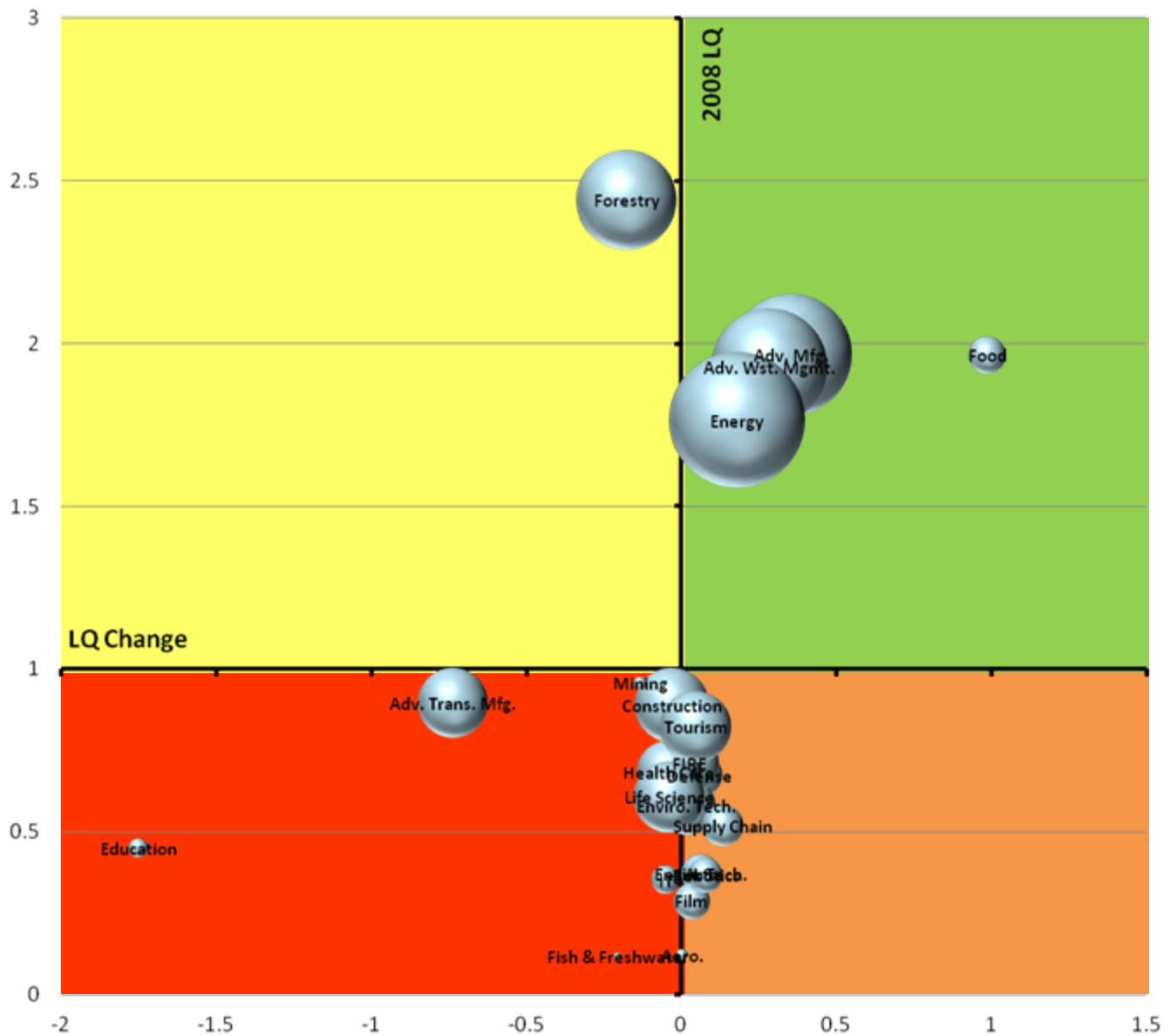
Cluster LQ Summary



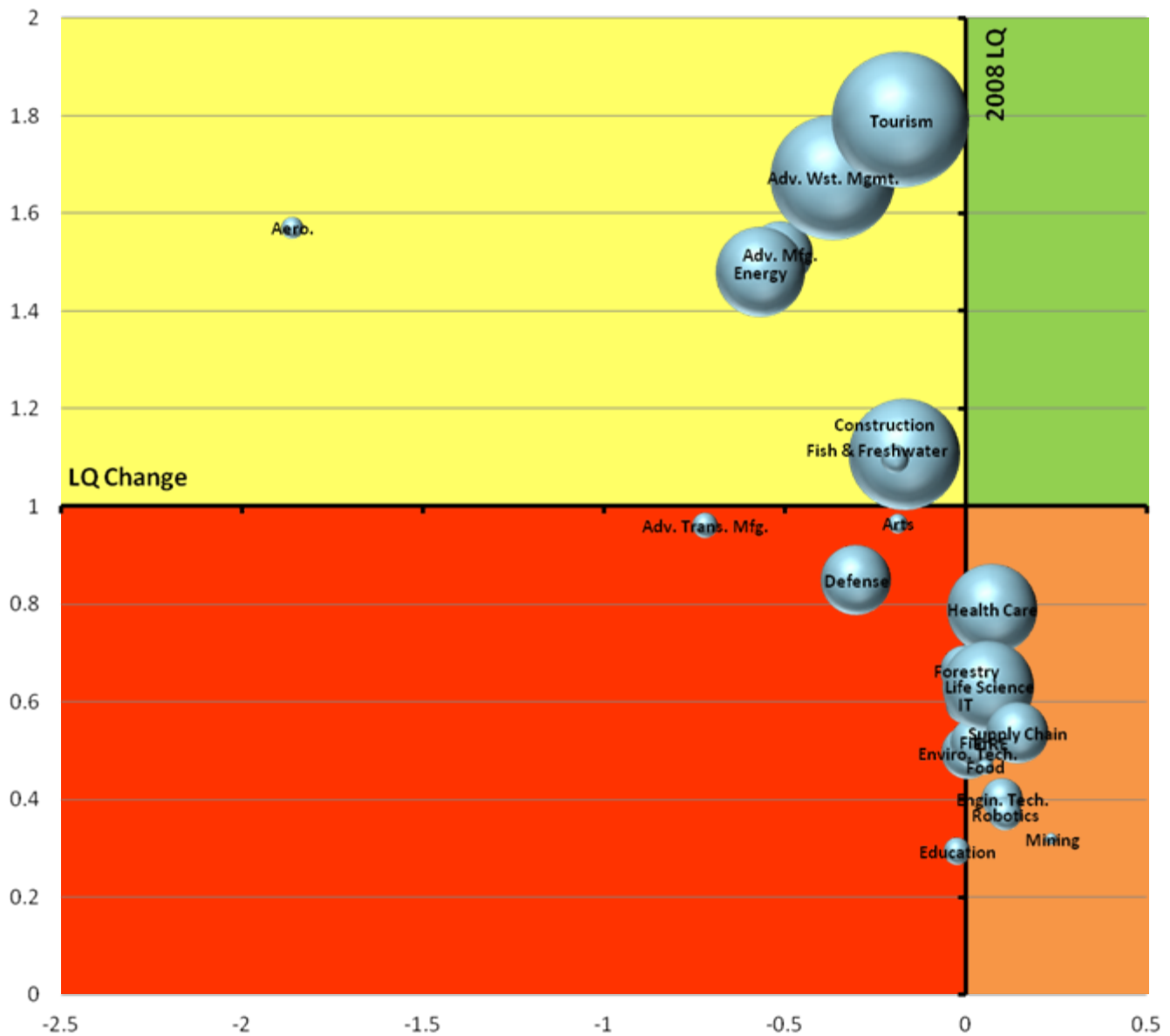
Calhoun County Cluster LQ Chart



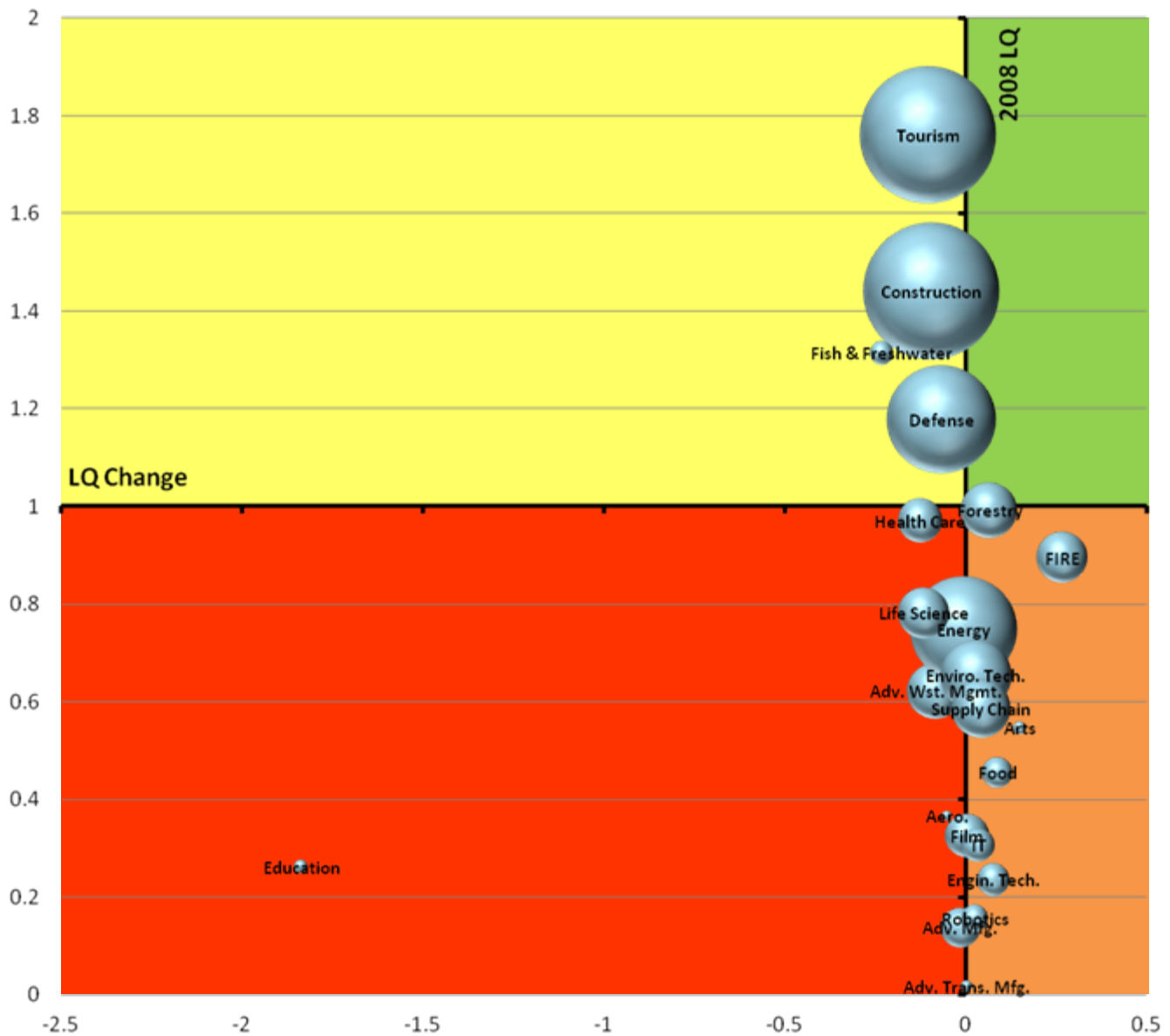
Cass County Cluster LQ Chart



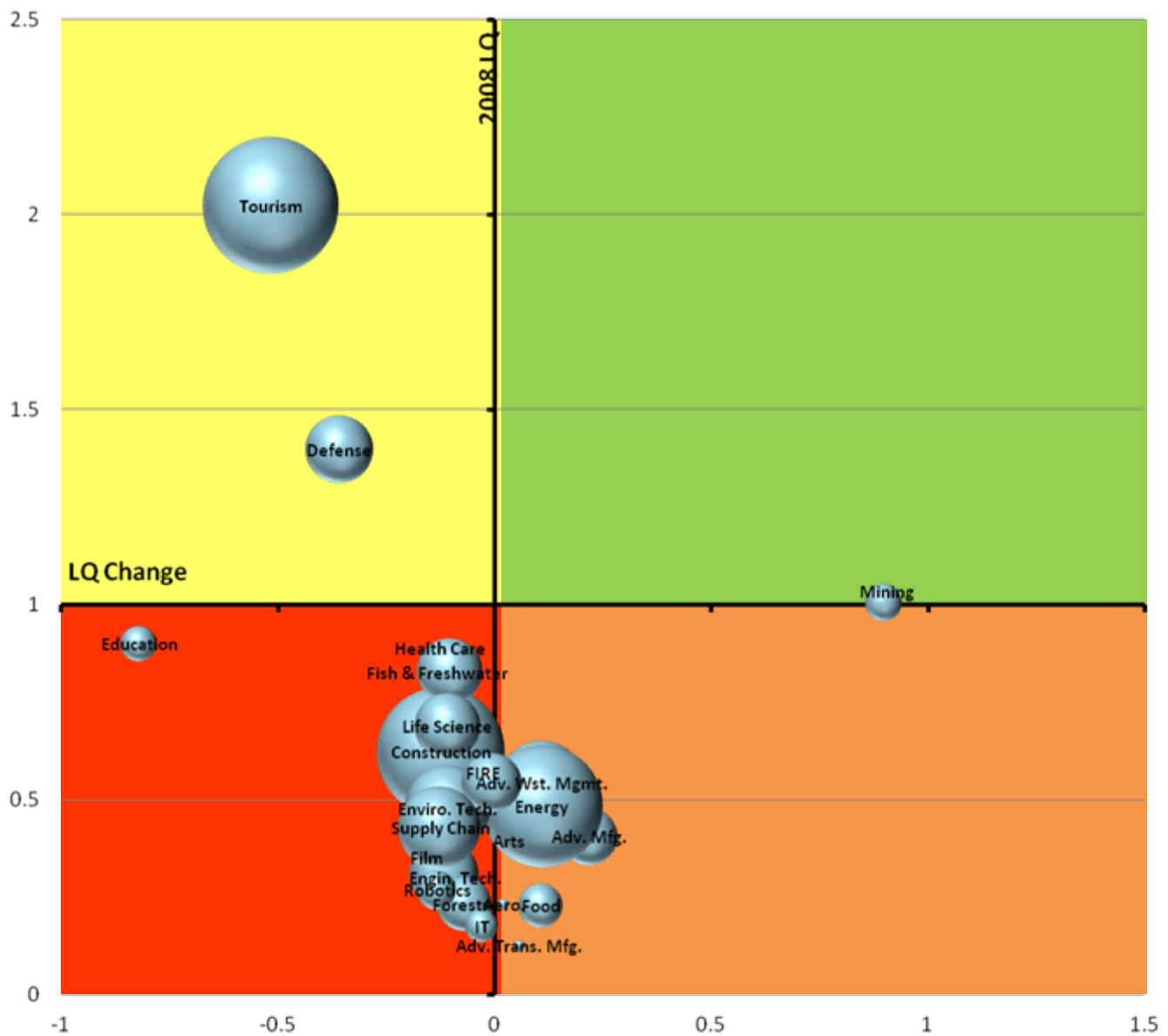
Charlevoix County Cluster LQ Chart



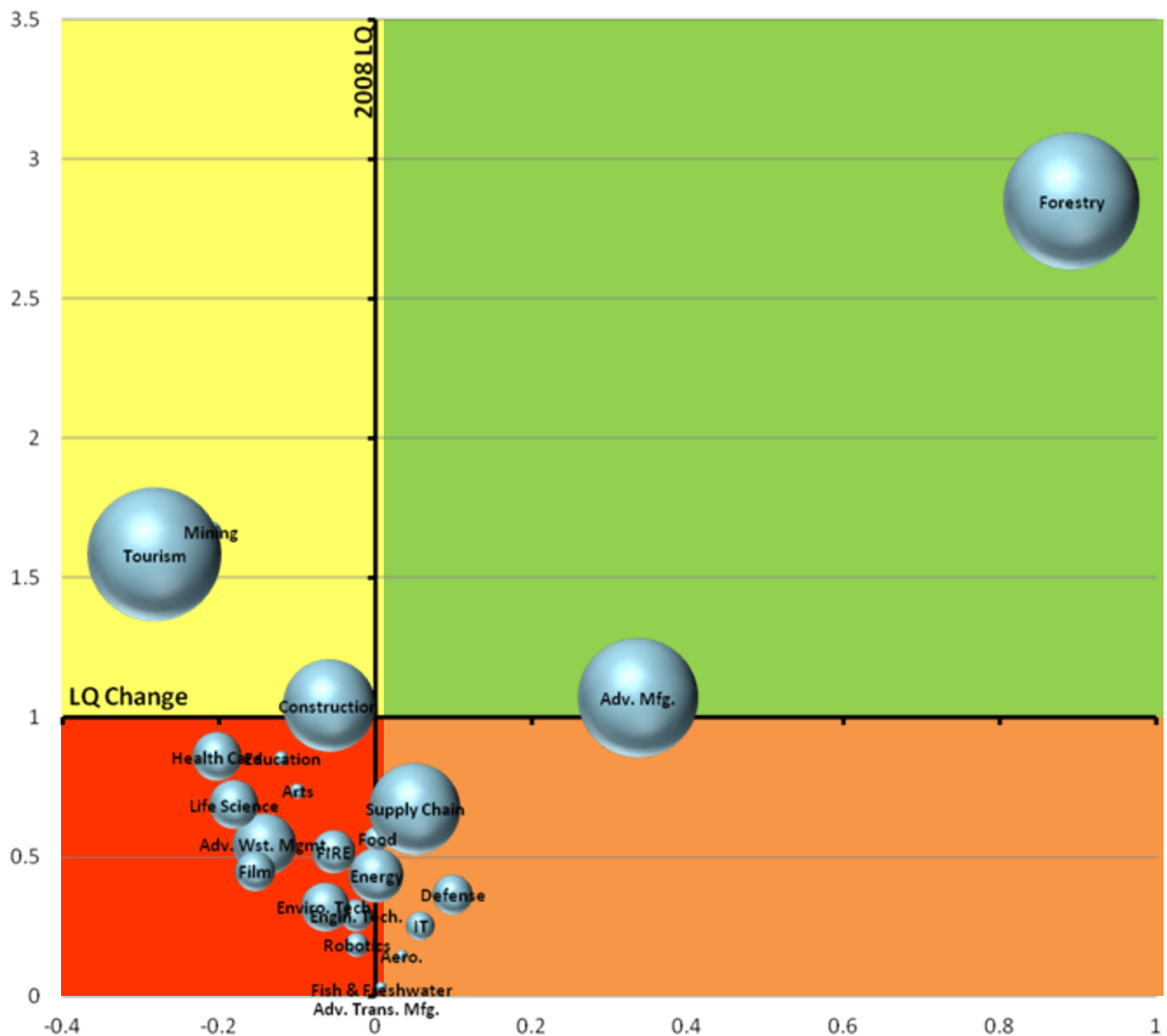
Cheboygan County Cluster LQ Chart



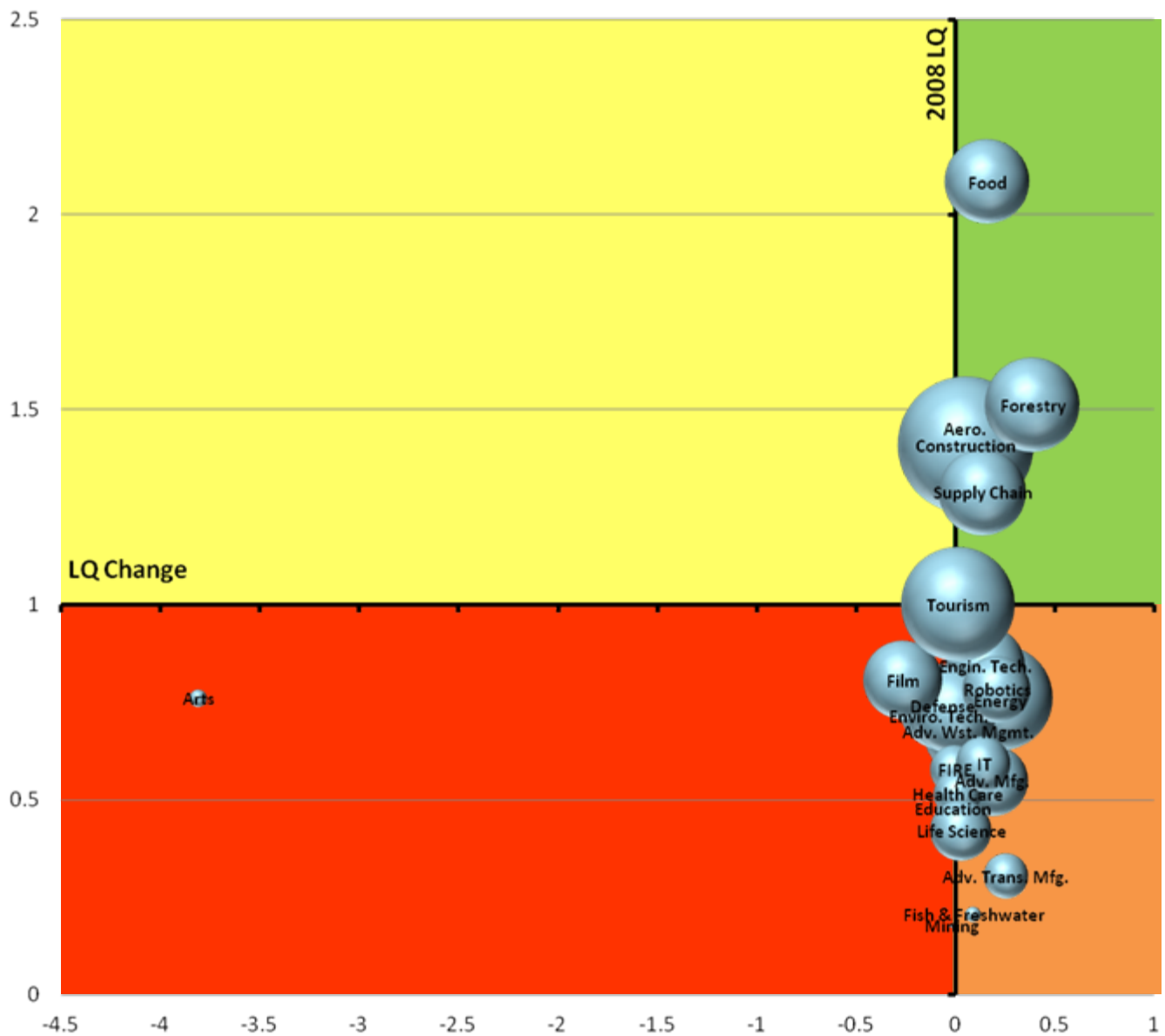
Chippewa County Cluster LQ Chart



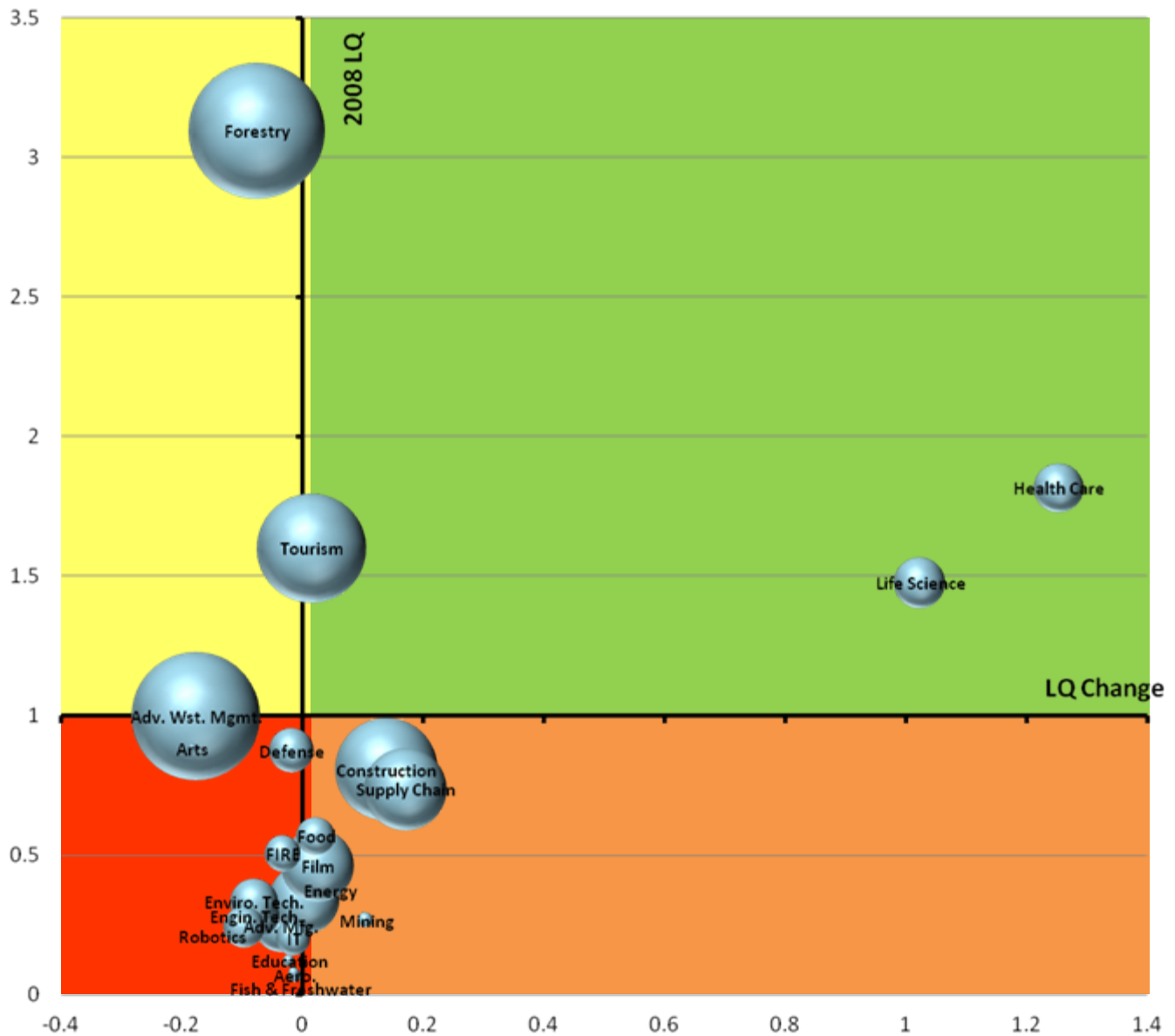
Clare County Cluster LQ Chart



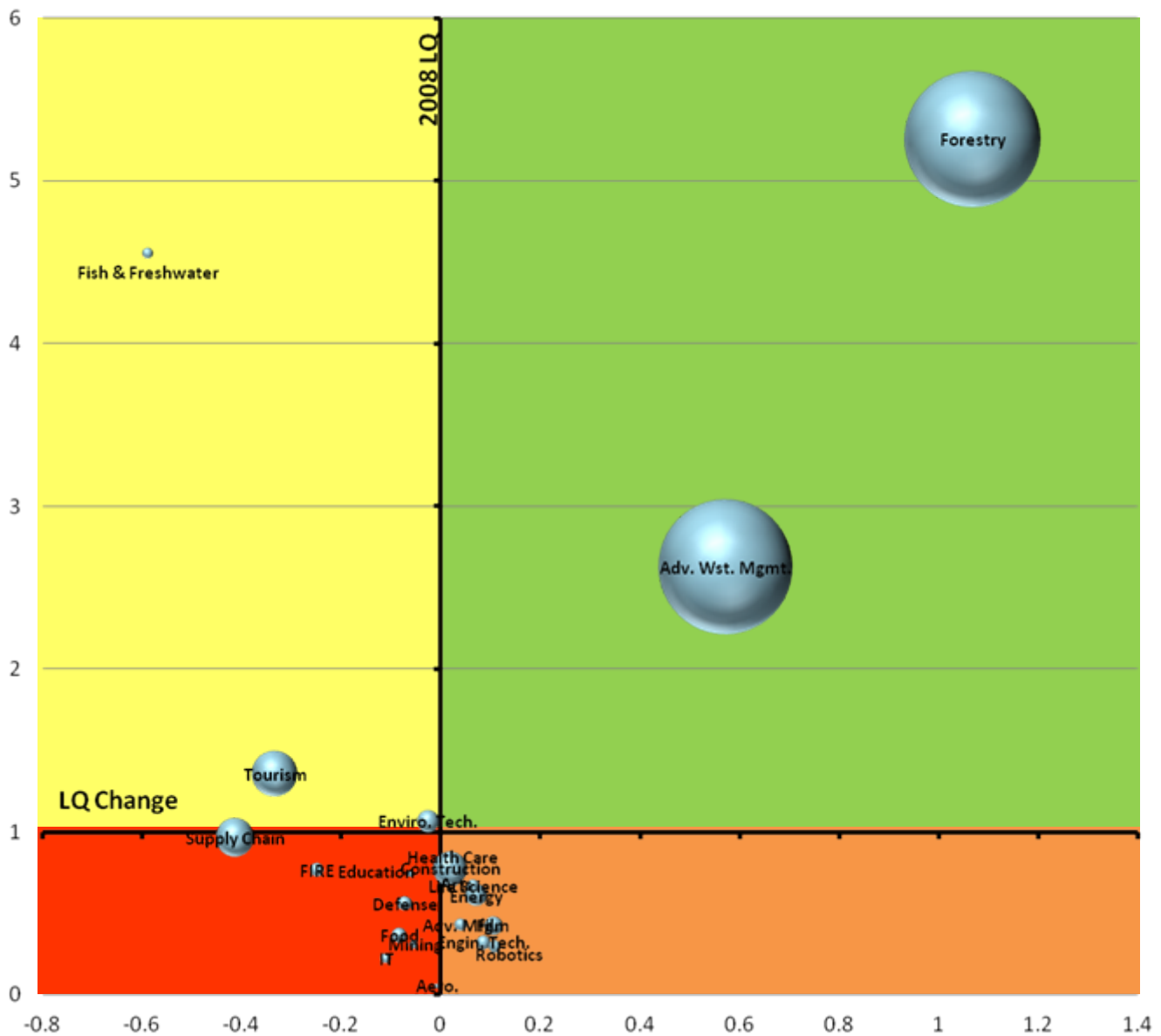
Clinton County Cluster LQ Chart



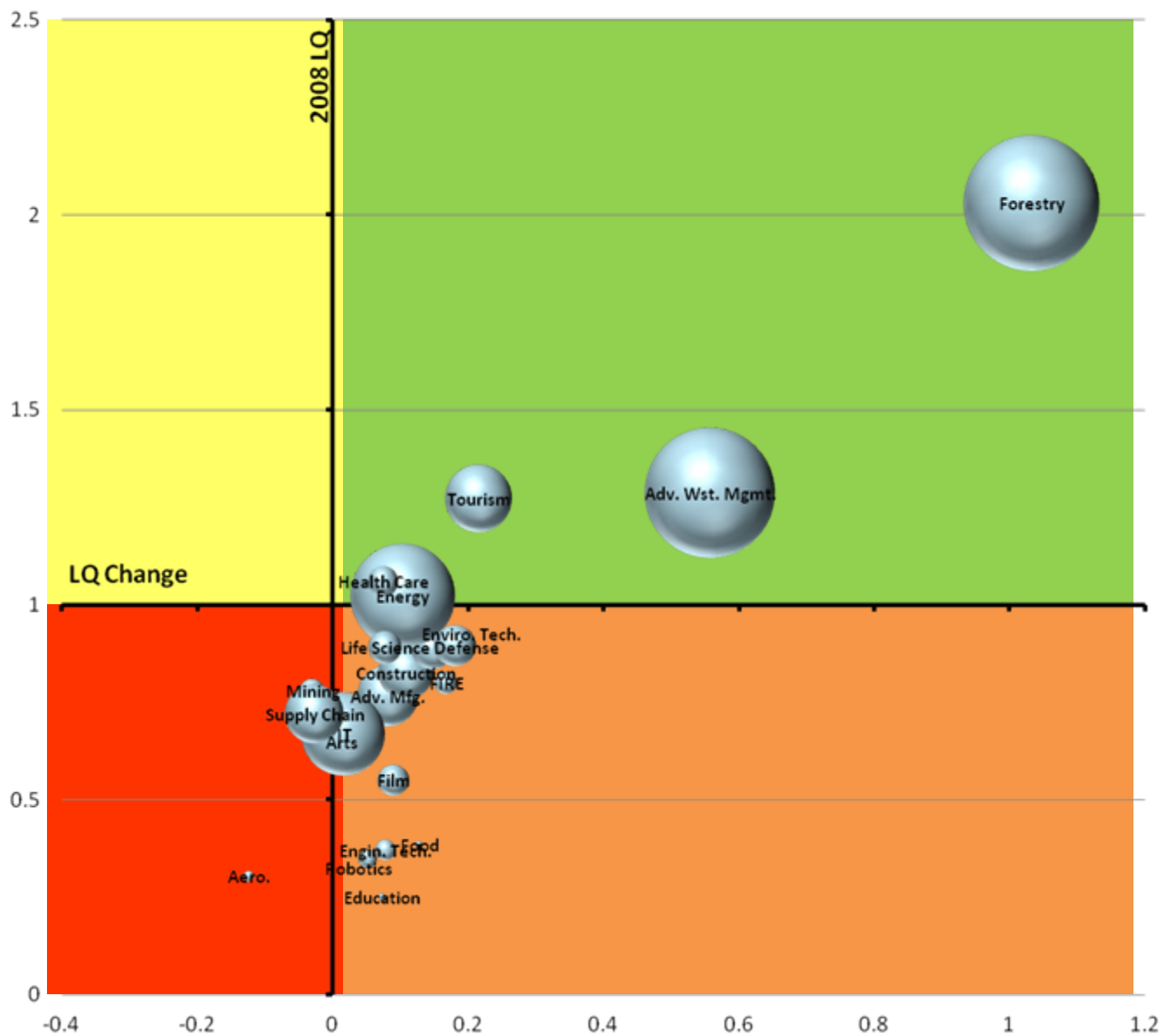
Crawford County Cluster LQ Chart



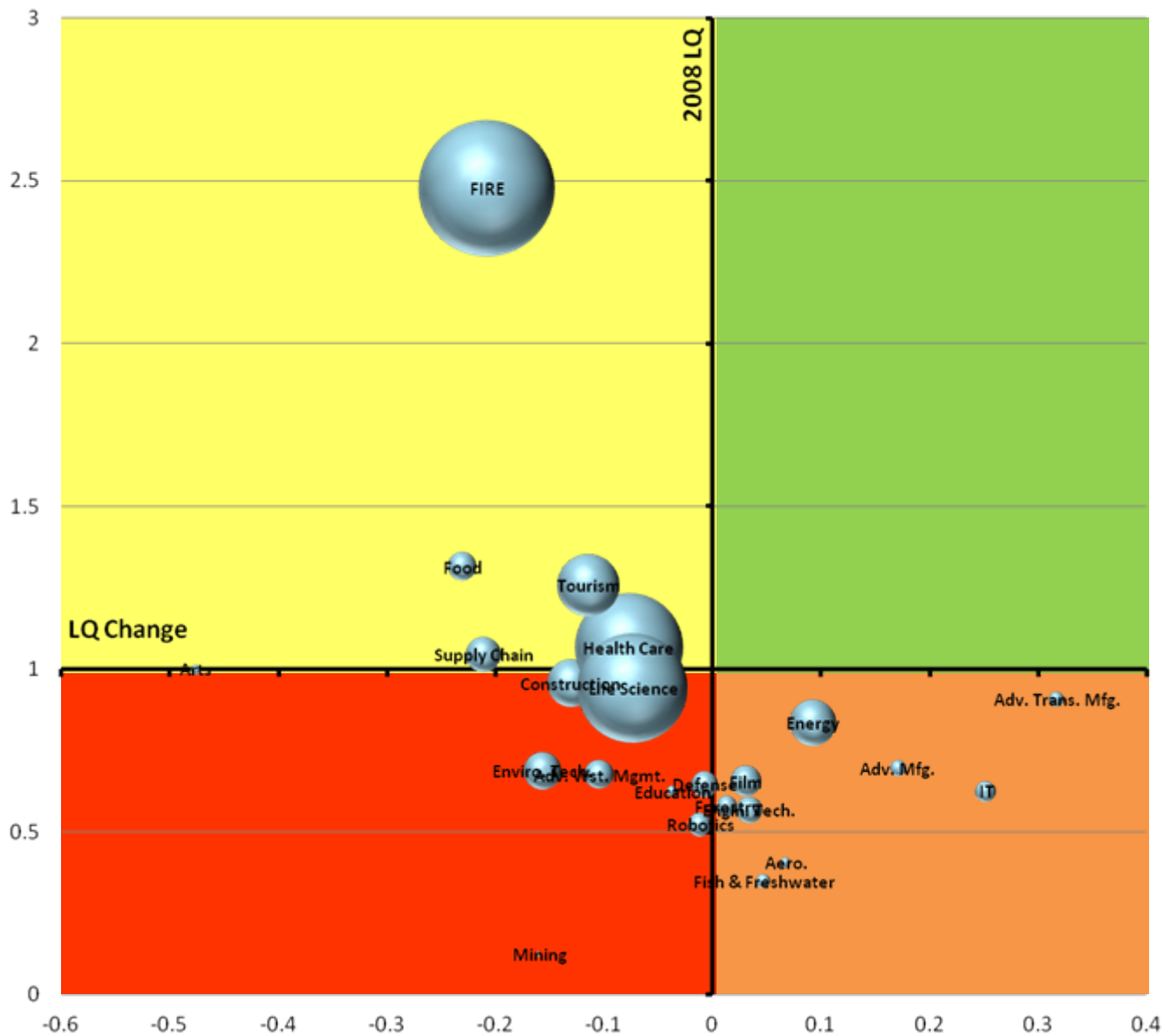
Delta County Cluster LQ Chart



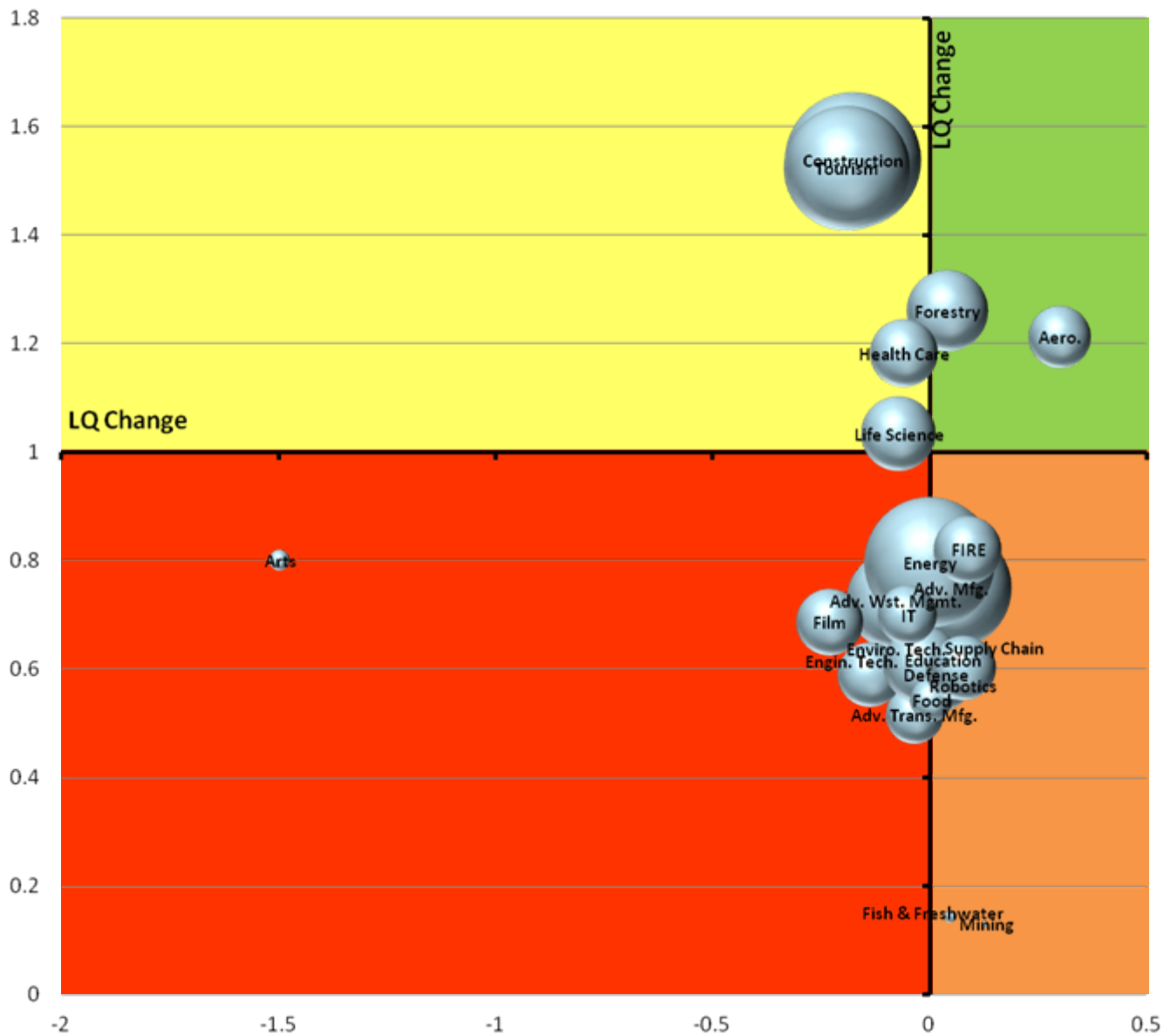
Dickinson County Cluster LQ Chart



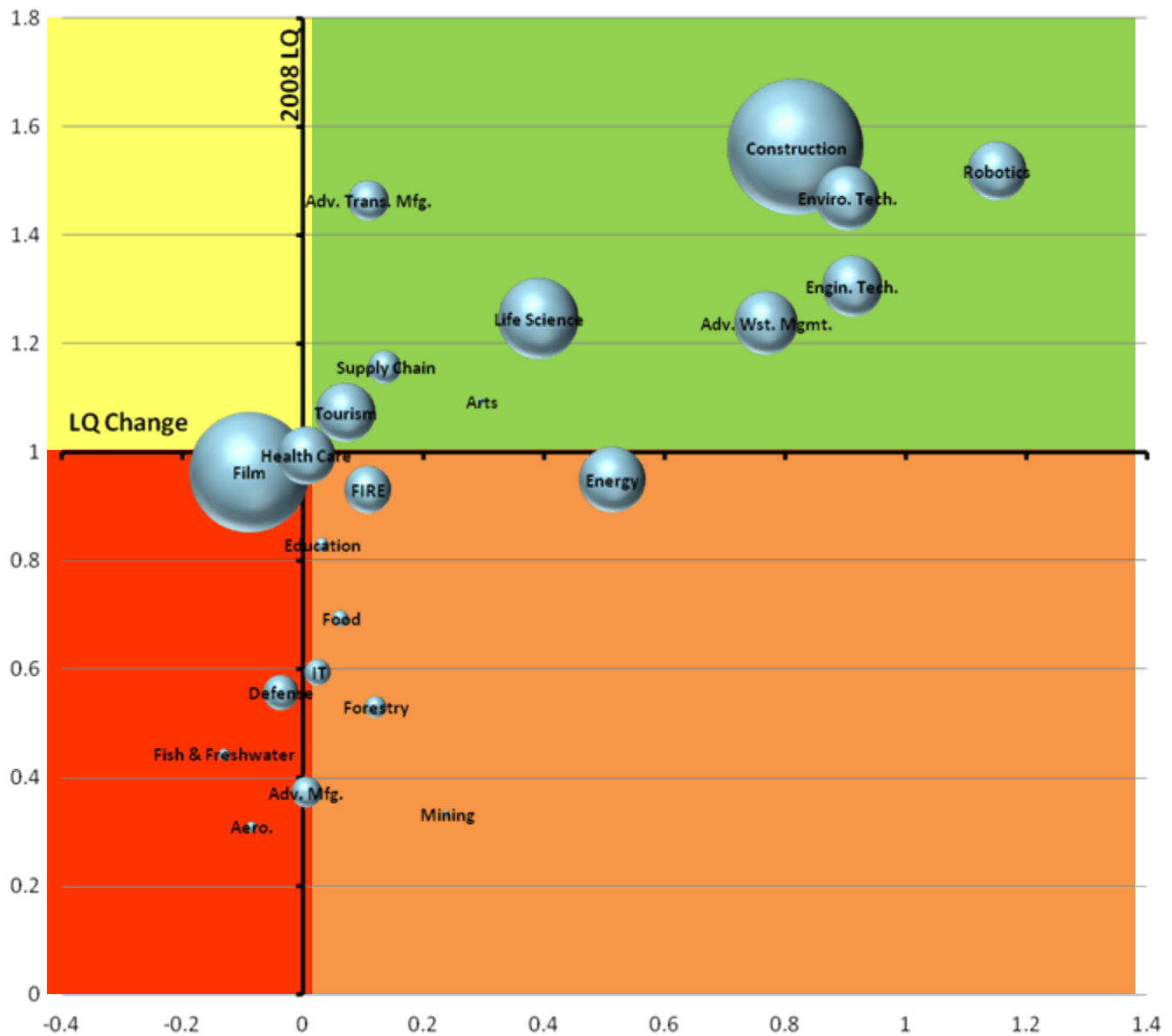
Eaton County Cluster LQ Chart



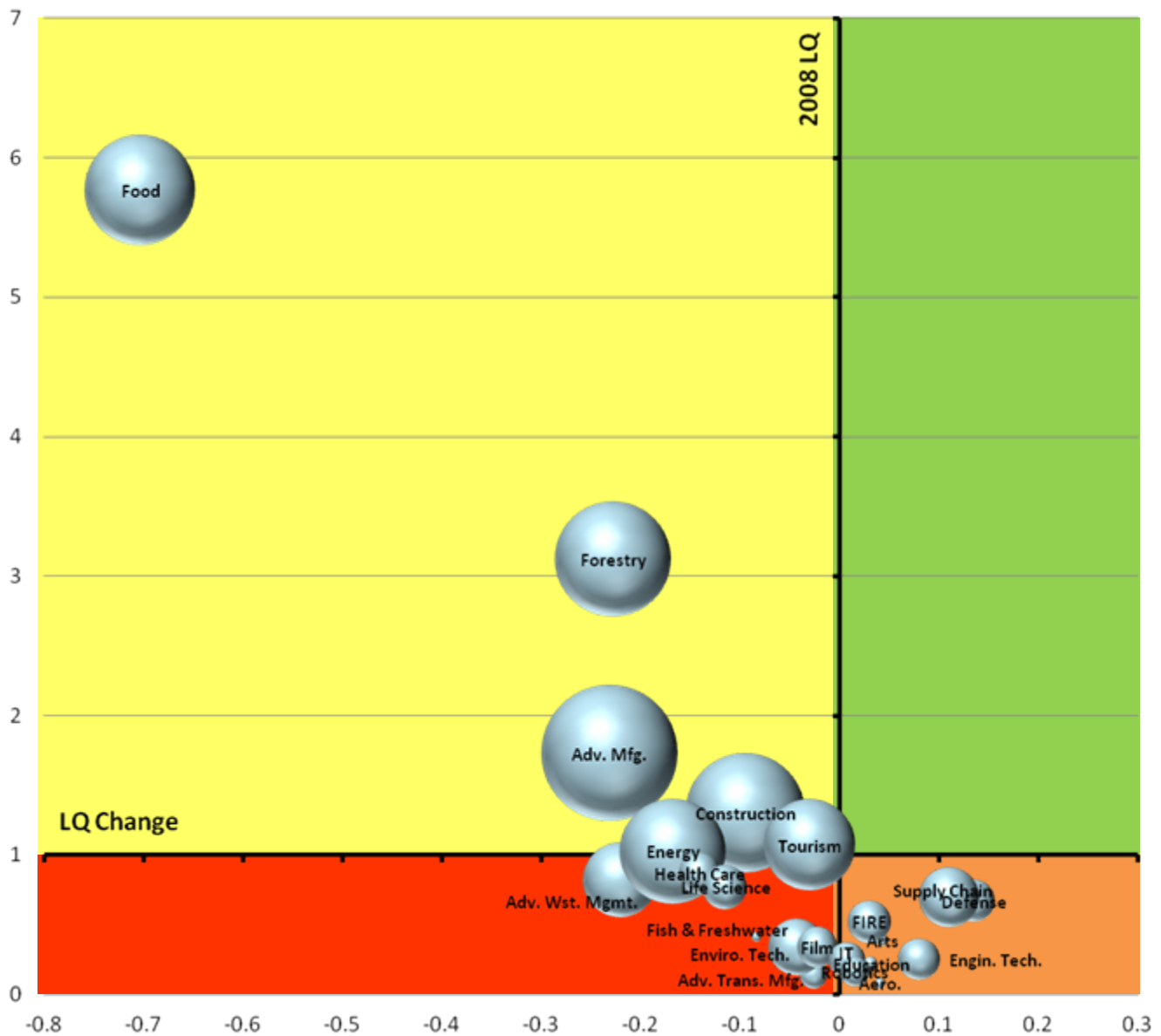
Emmet County Cluster LQ Chart



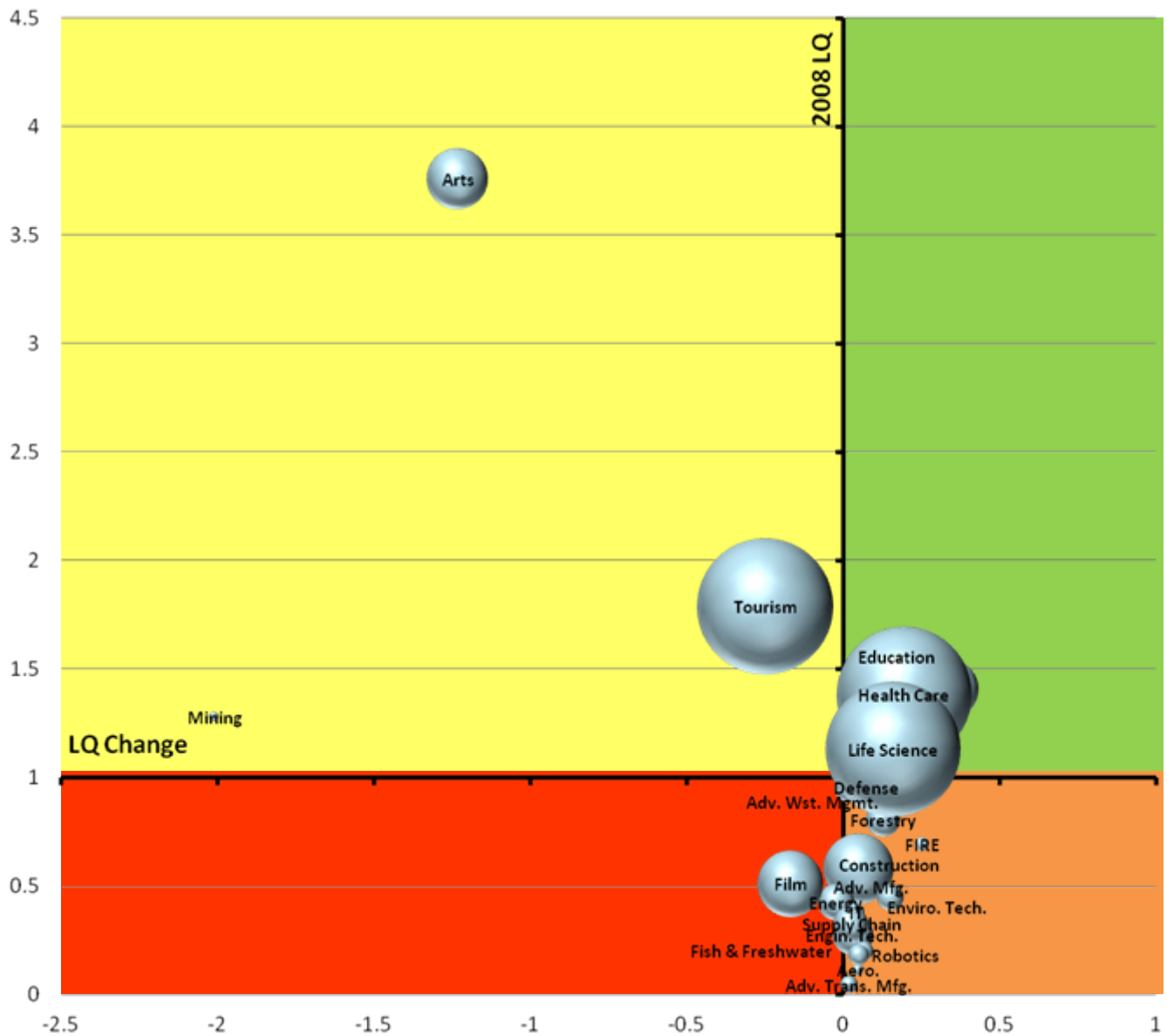
Genesee County Cluster LQ Chart



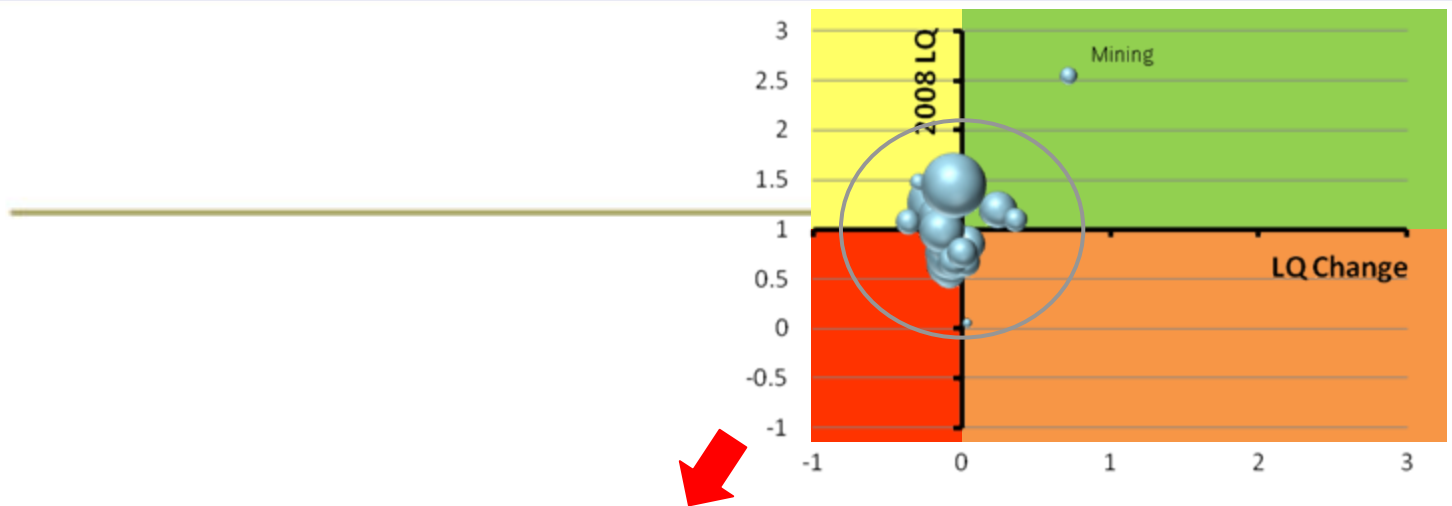
Gladwin County Cluster LQ Chart



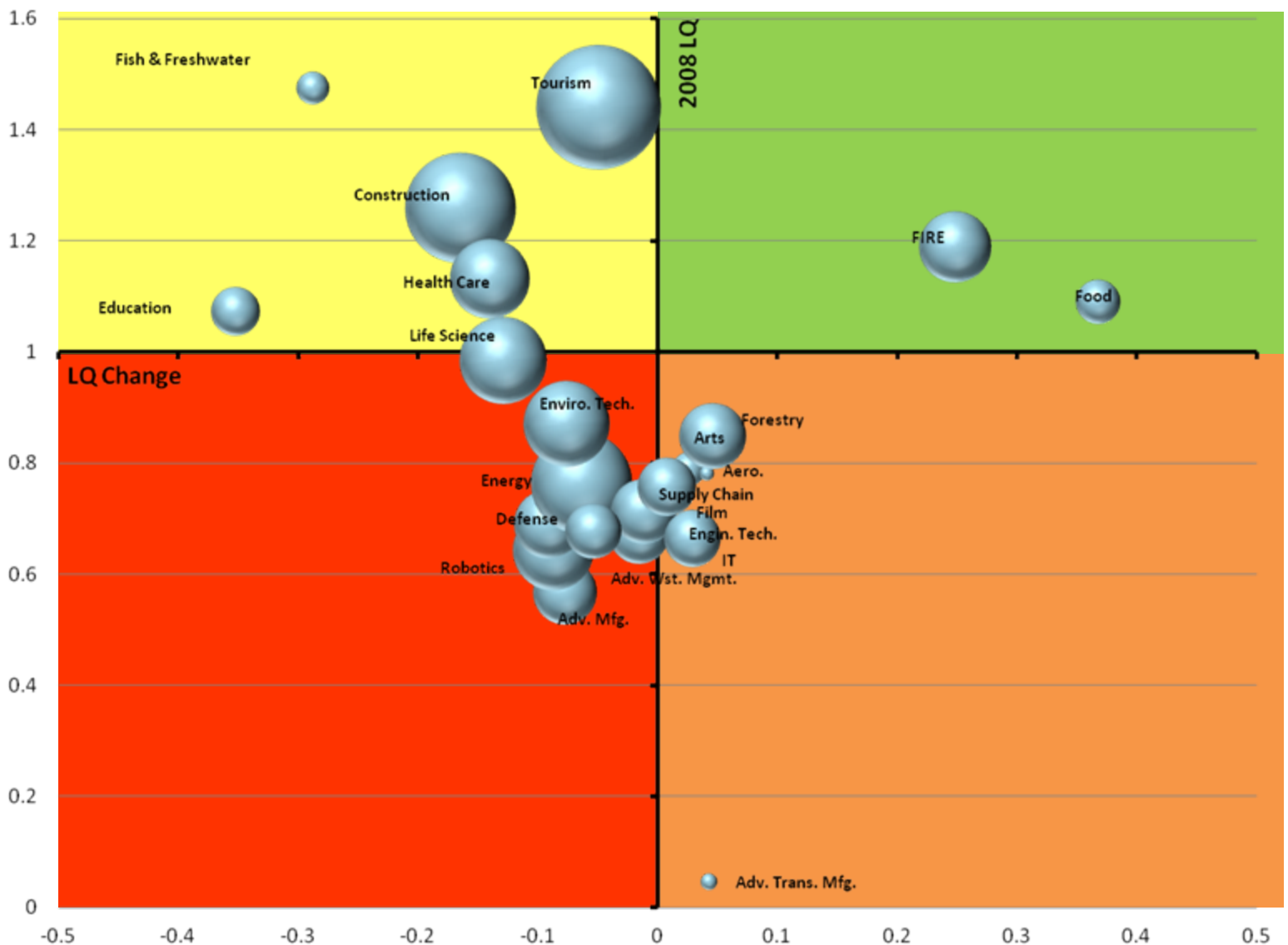
Gogebic County Cluster LQ Chart



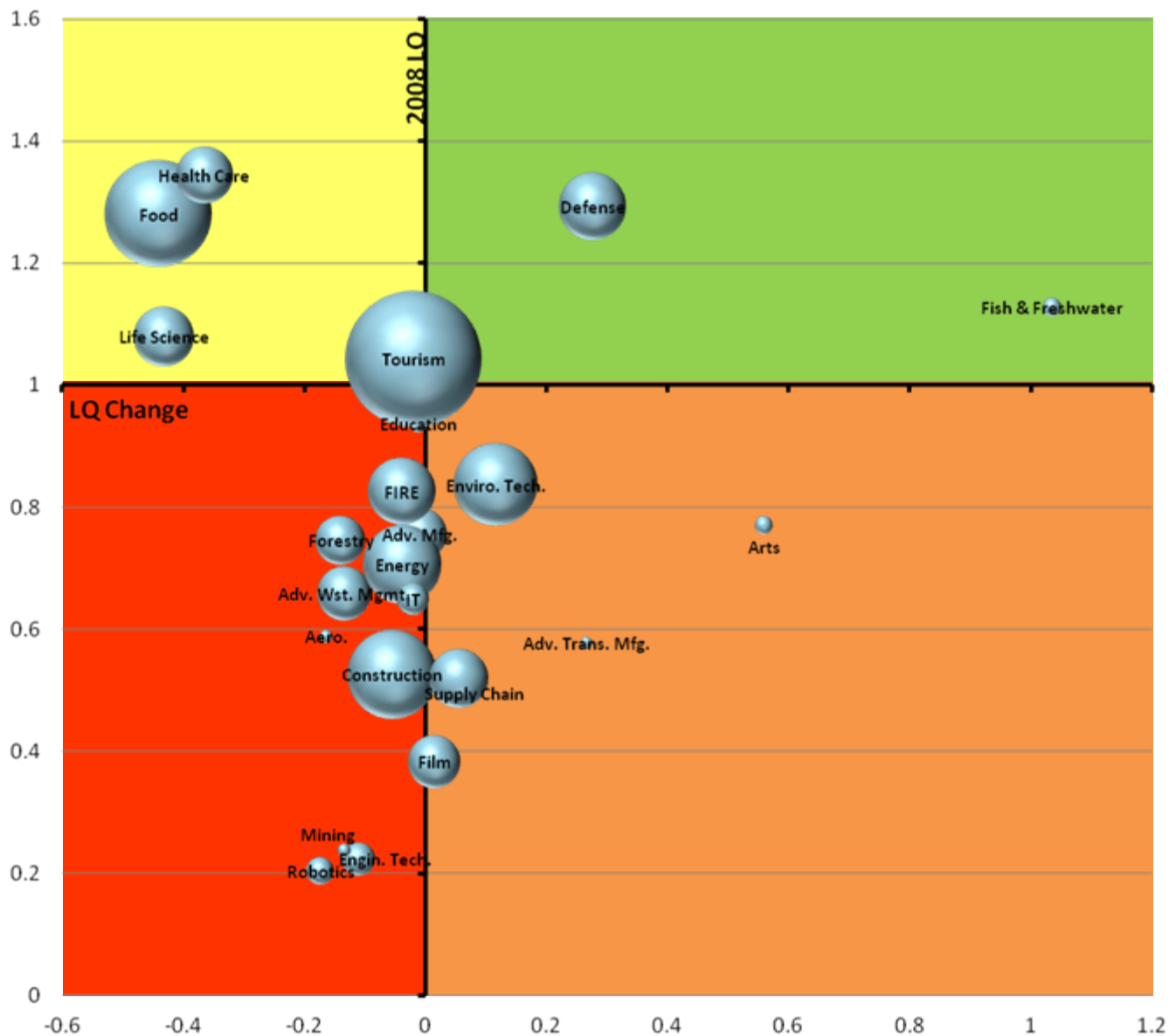
Cluster LQ Summary



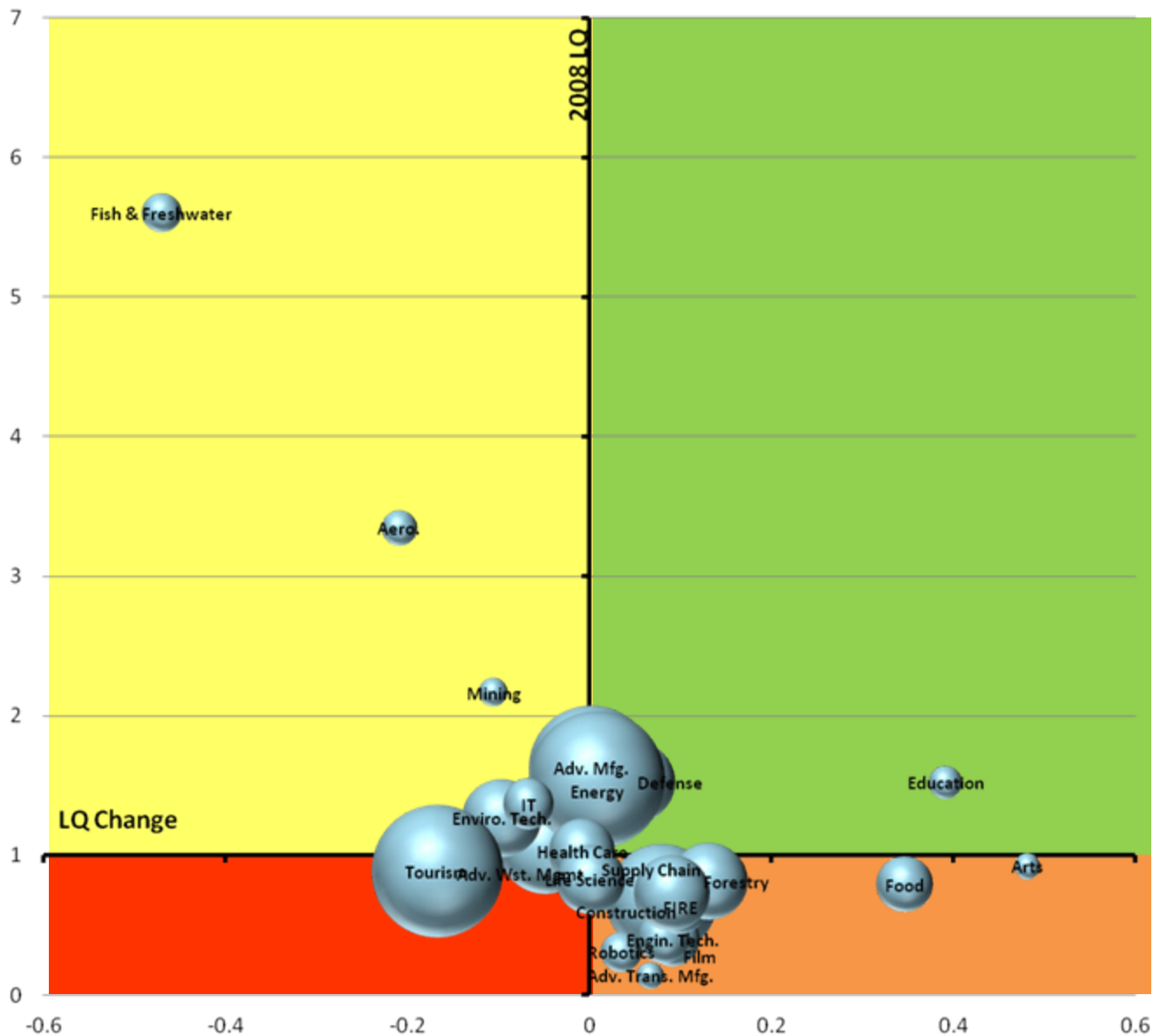
Grand Traverse County Cluster LQ Chart



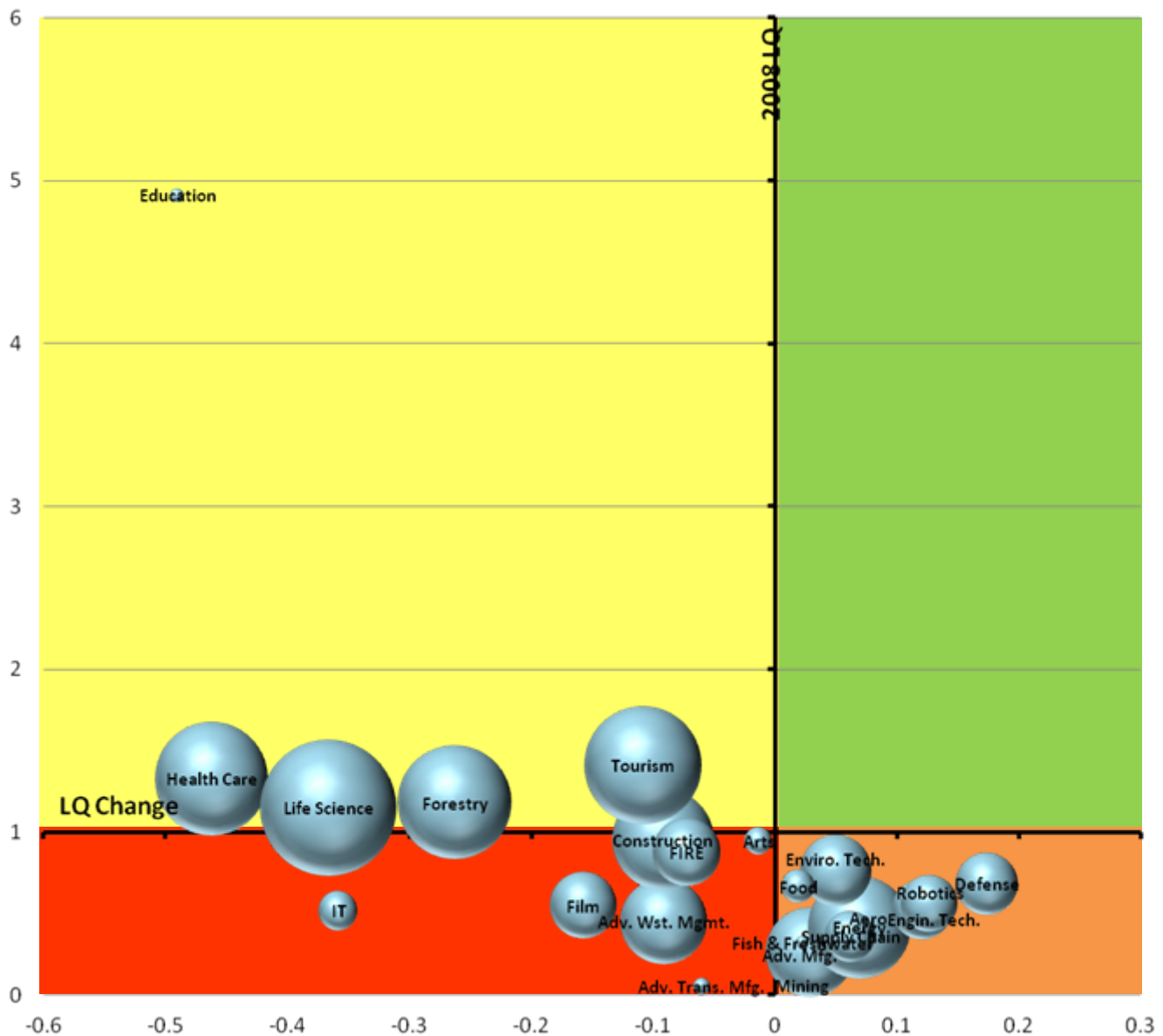
Gratiot County Cluster LQ Chart



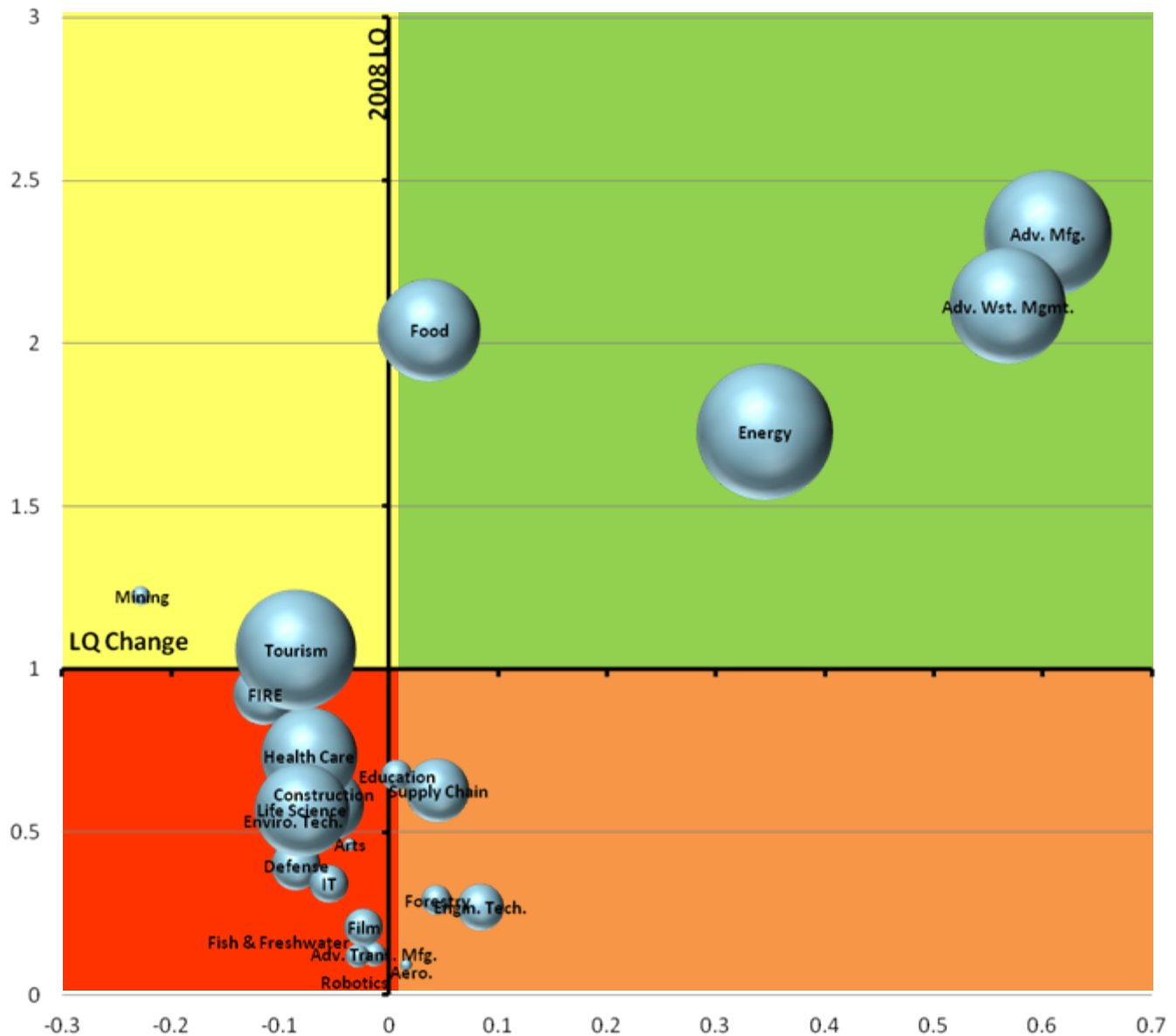
Hillsdale County Cluster LQ Chart



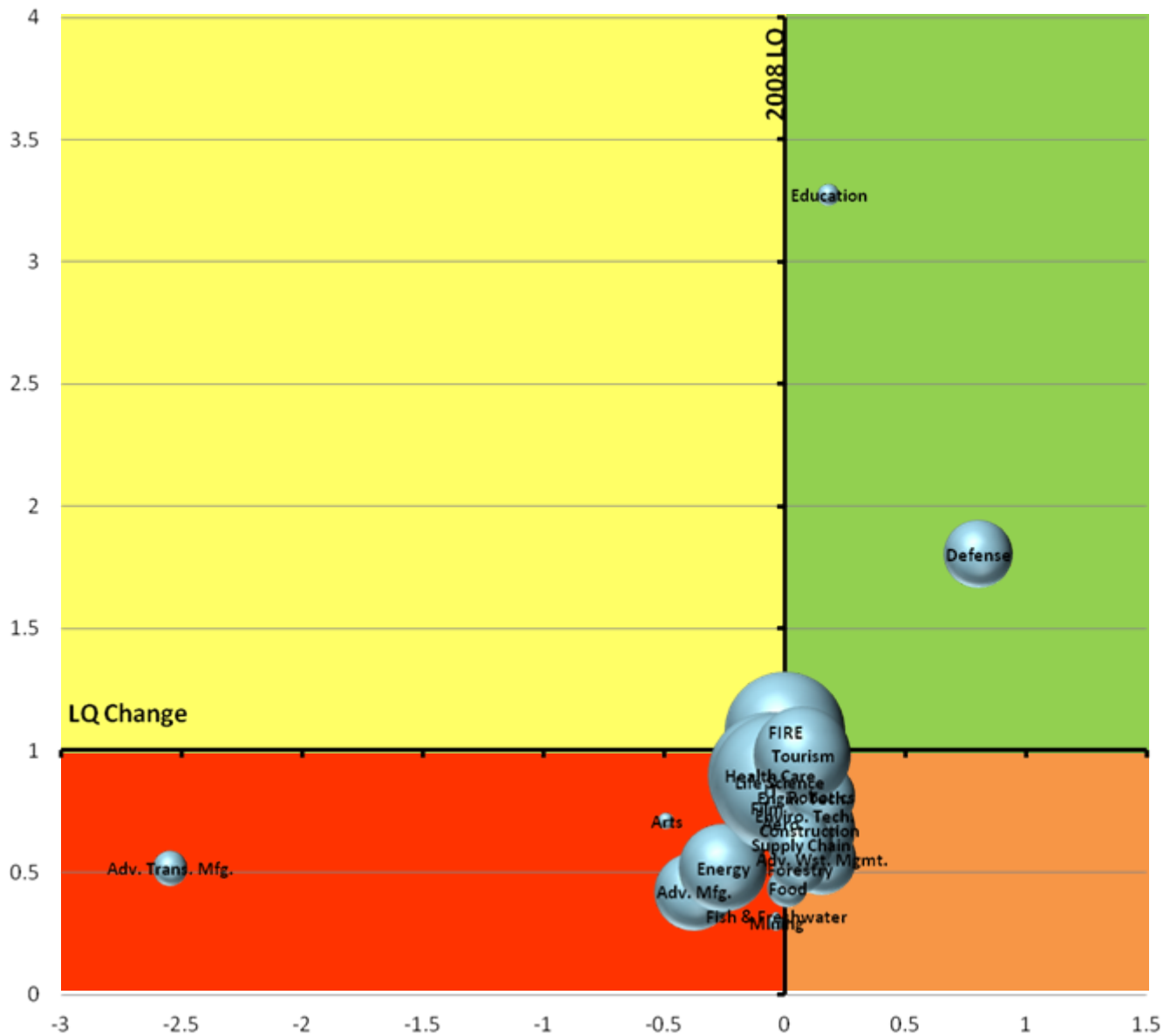
Houghton County Cluster LQ Chart



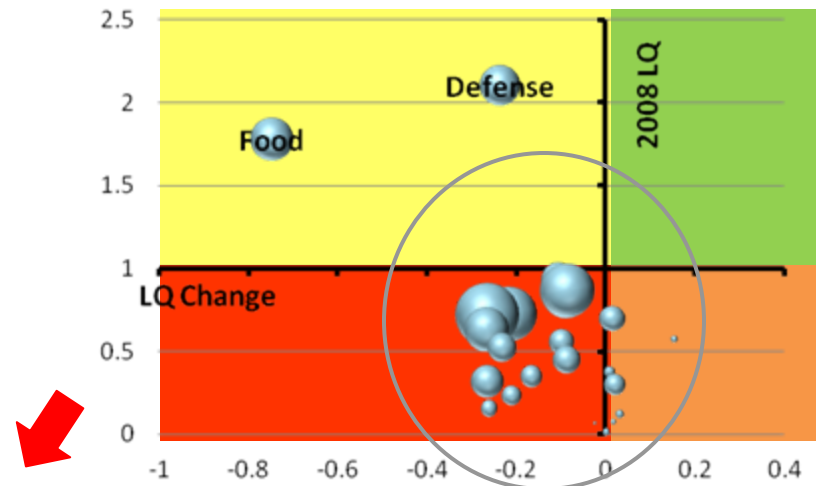
Huron County Cluster LQ Chart



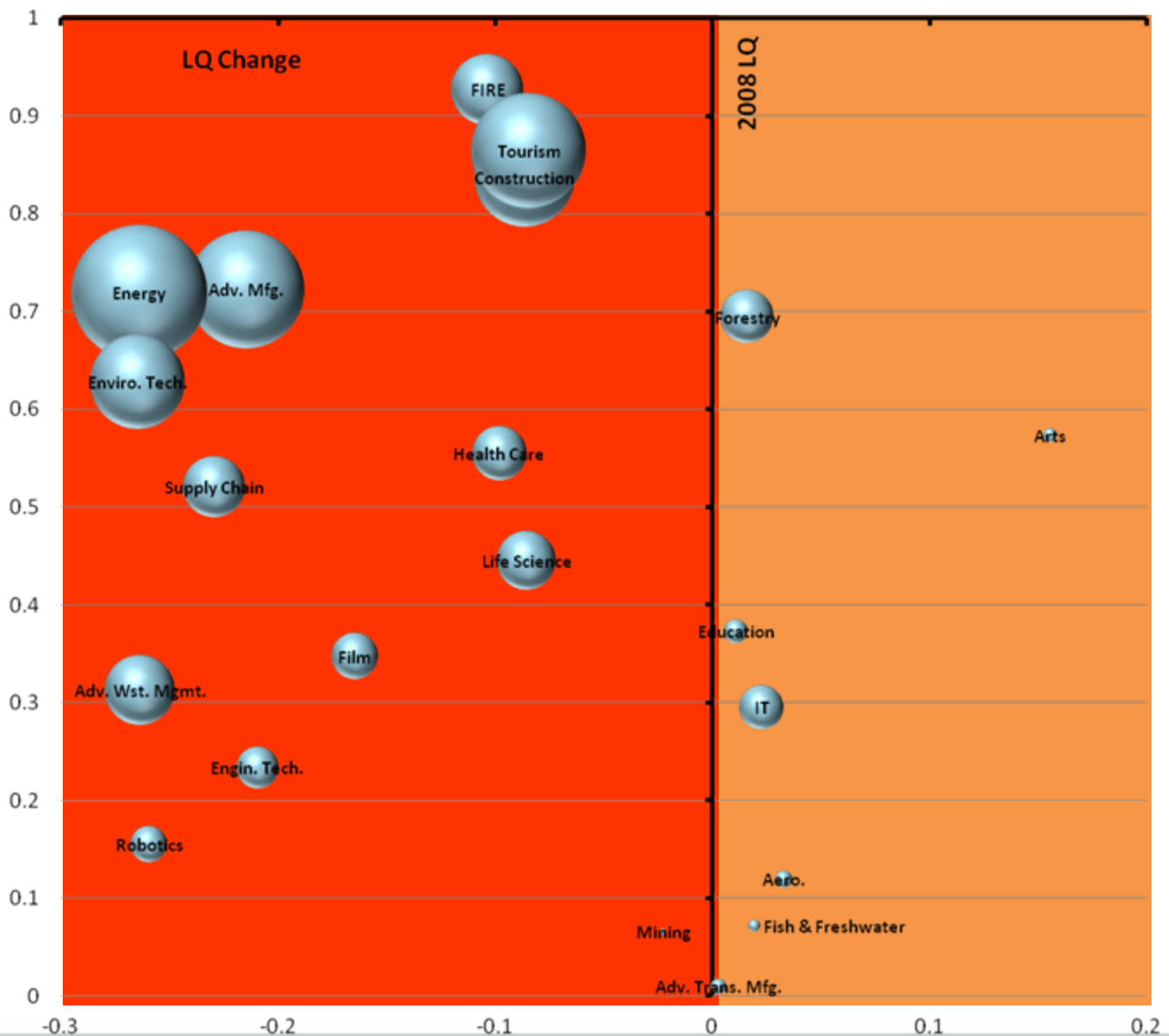
Ingham County Cluster LQ Chart



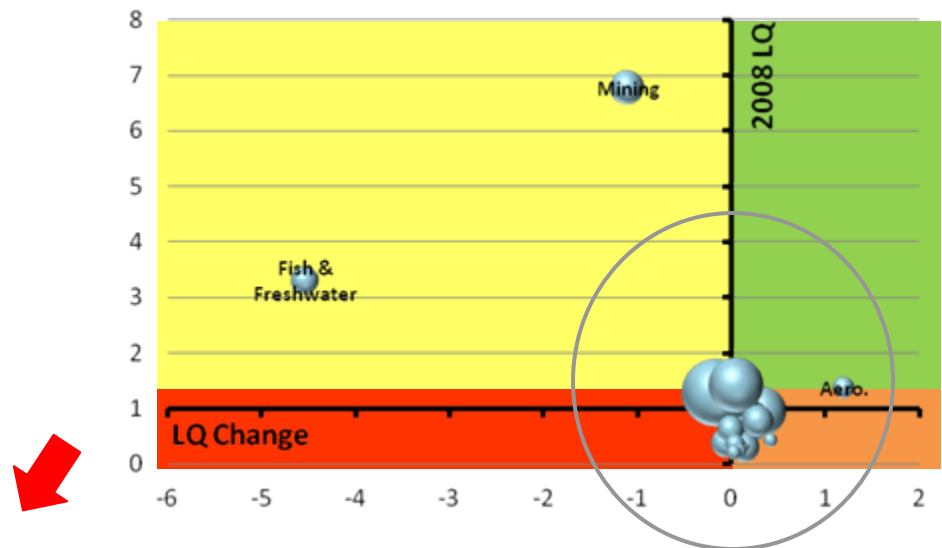
Cluster LQ Summary



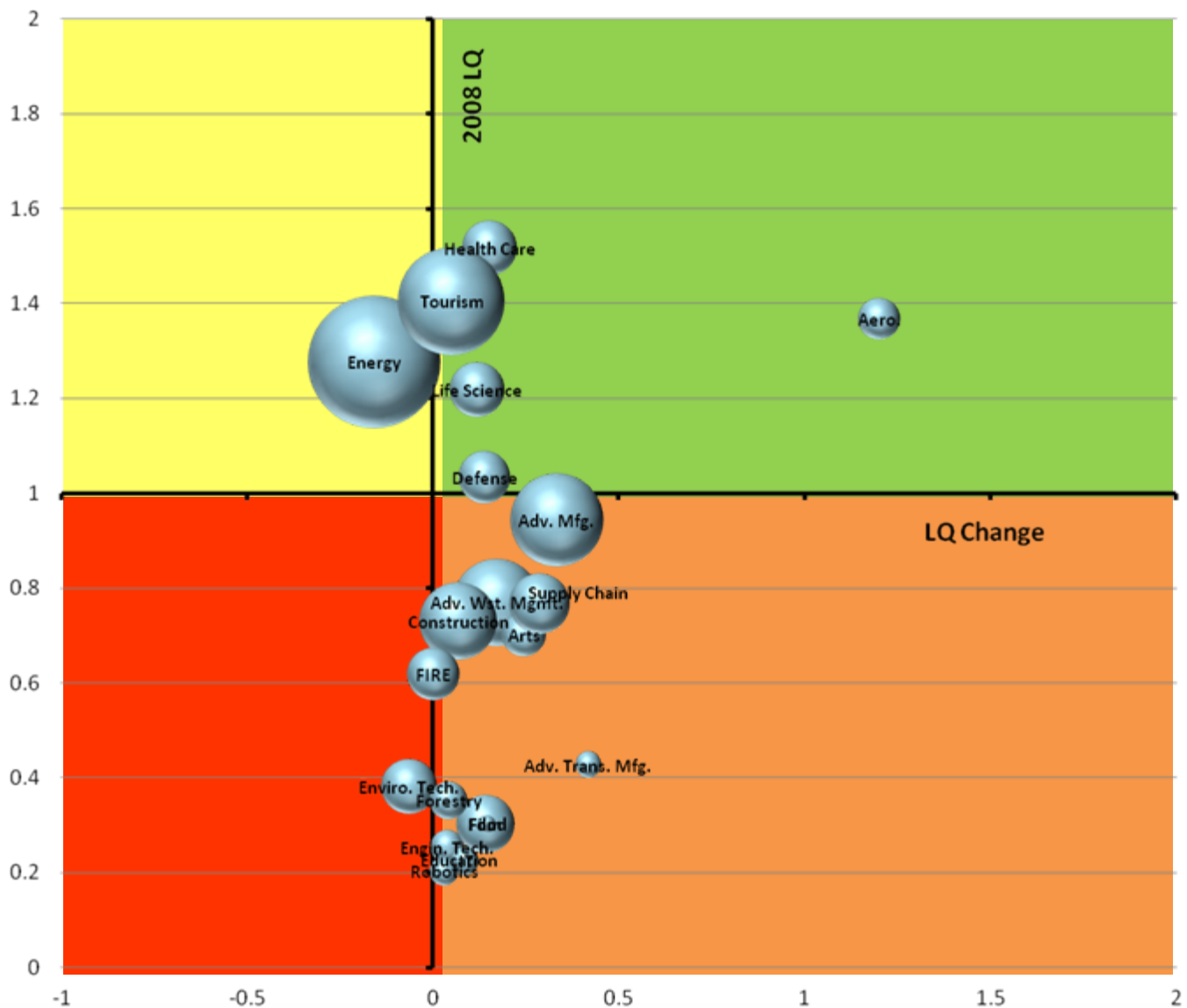
Ionia County Cluster LQ Chart



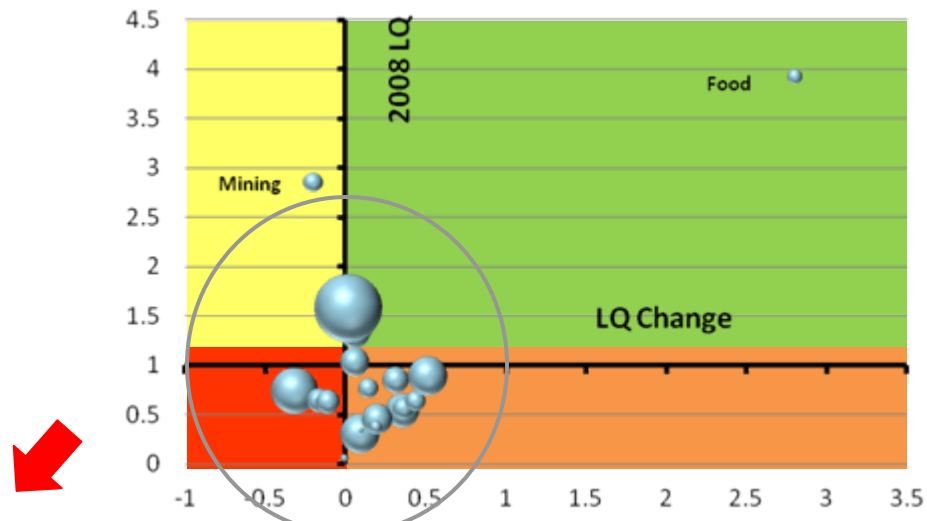
Cluster LQ Summary



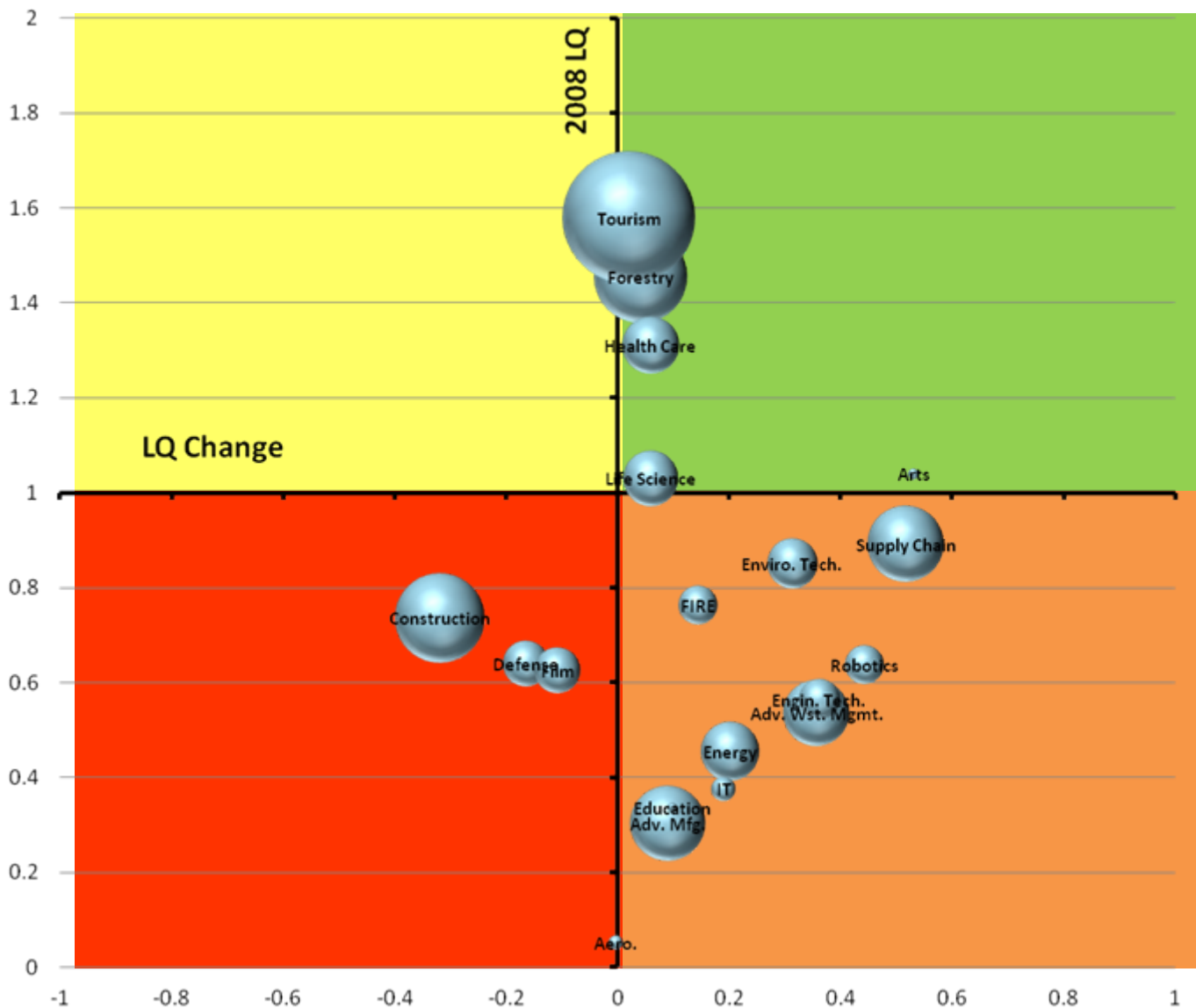
Losco County Cluster LQ Chart



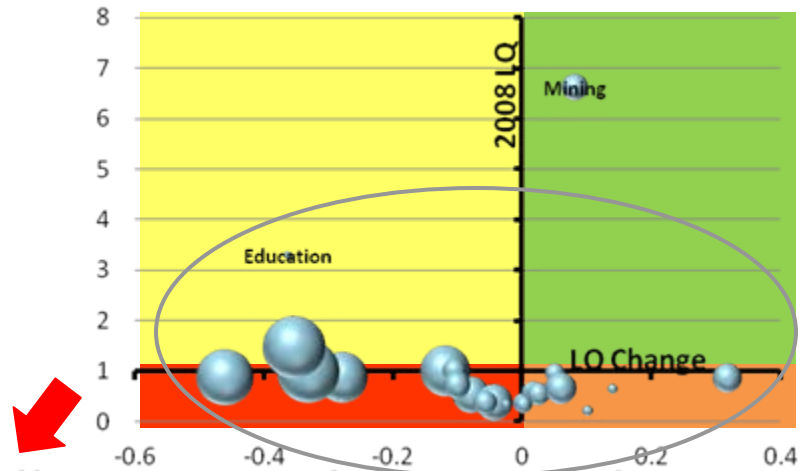
Cluster LQ Summary



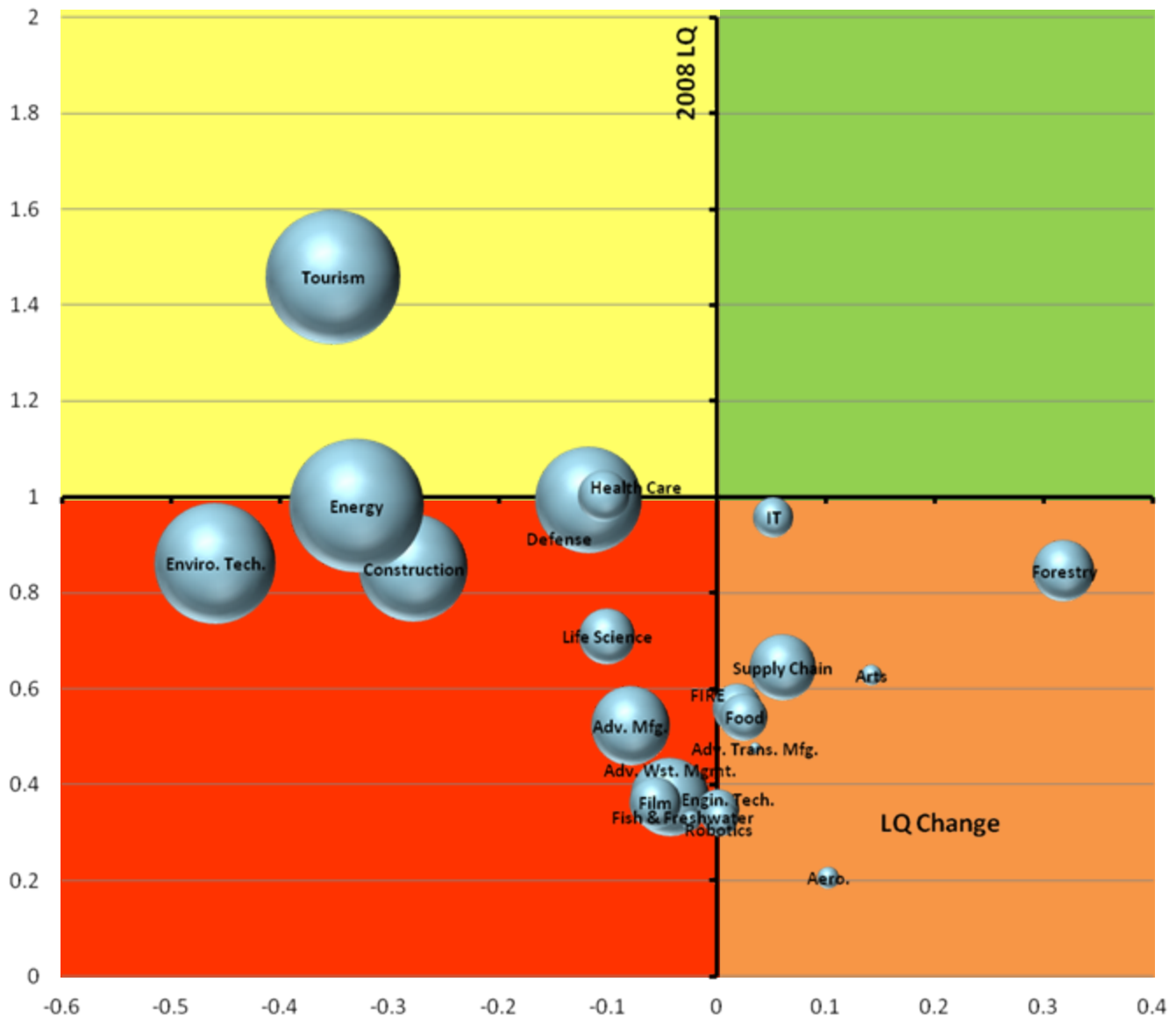
Iron County Cluster LQ Chart



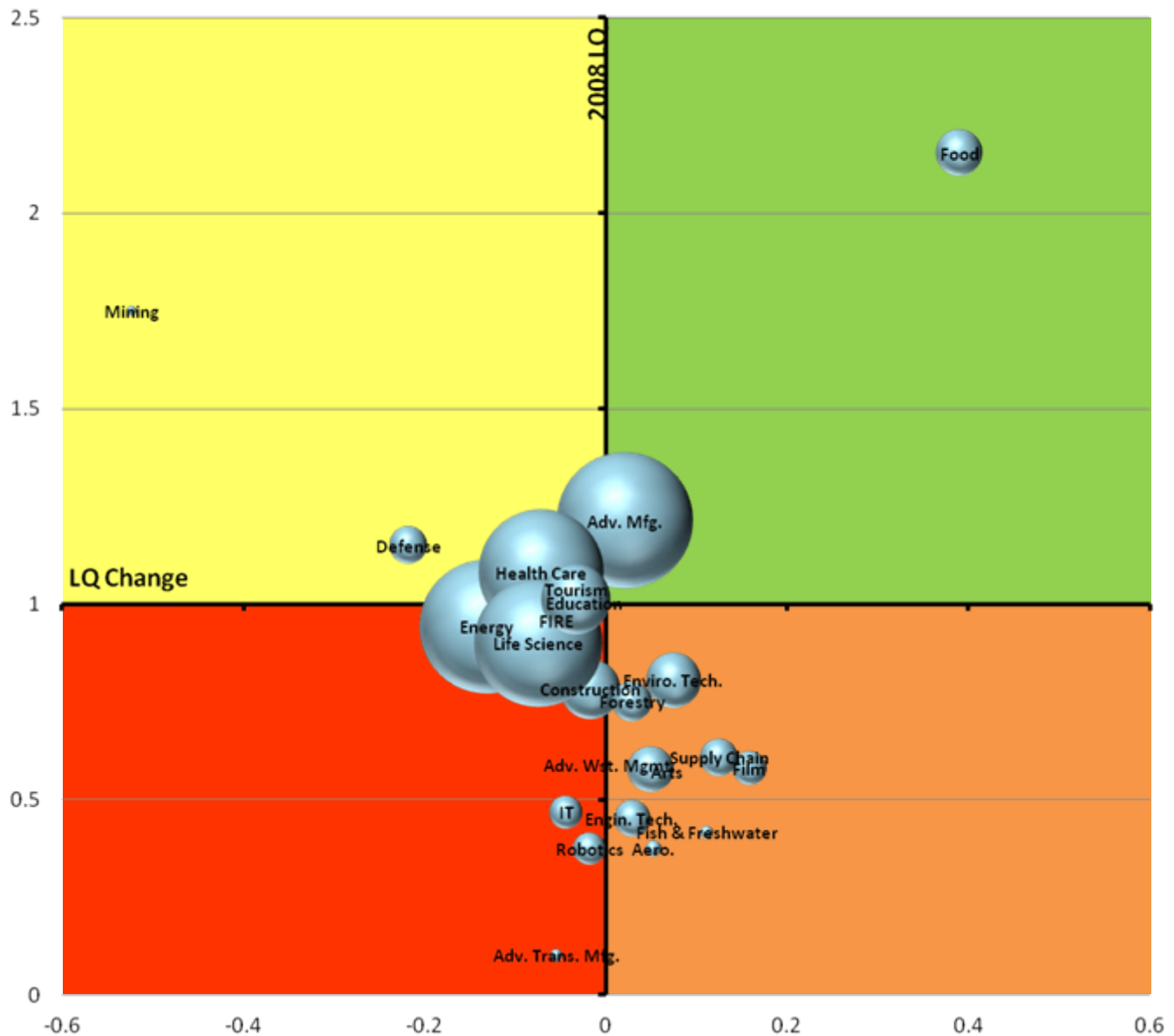
Cluster LQ Summary



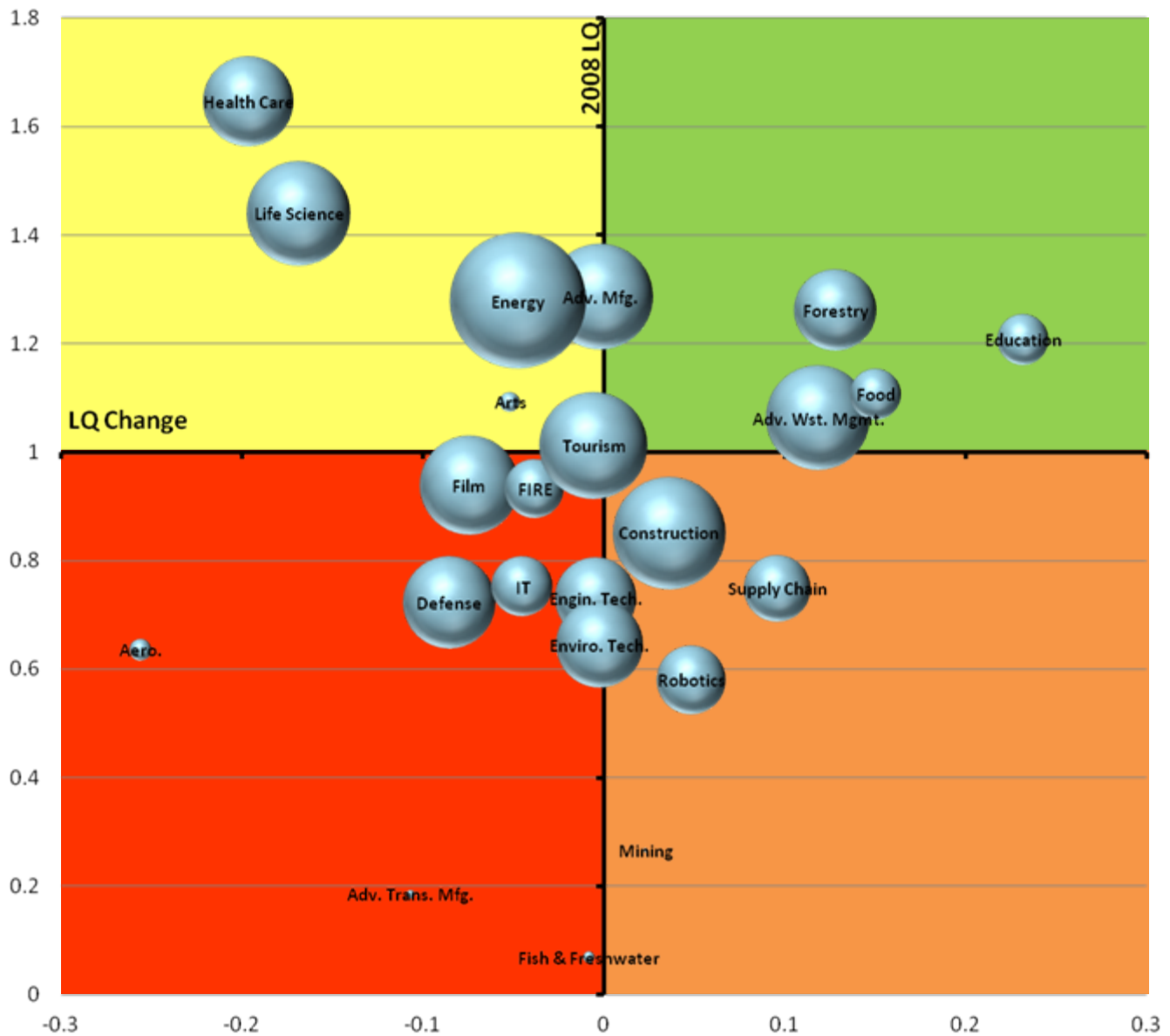
Isabella County Cluster LQ Chart

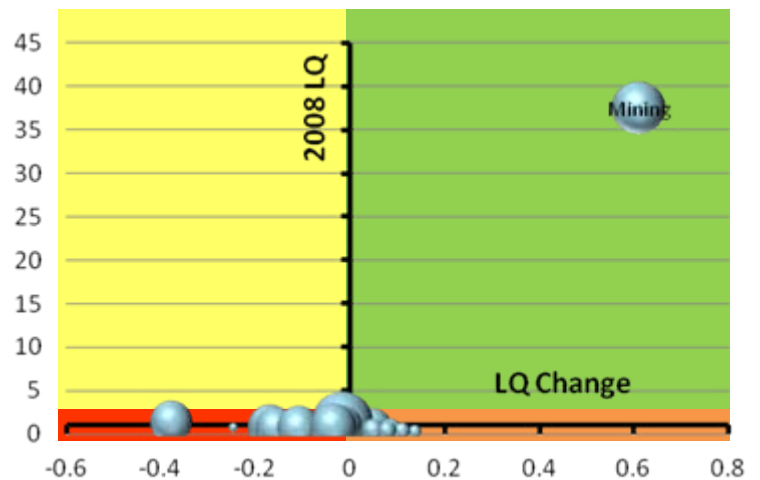


Jackson County Cluster LQ Chart

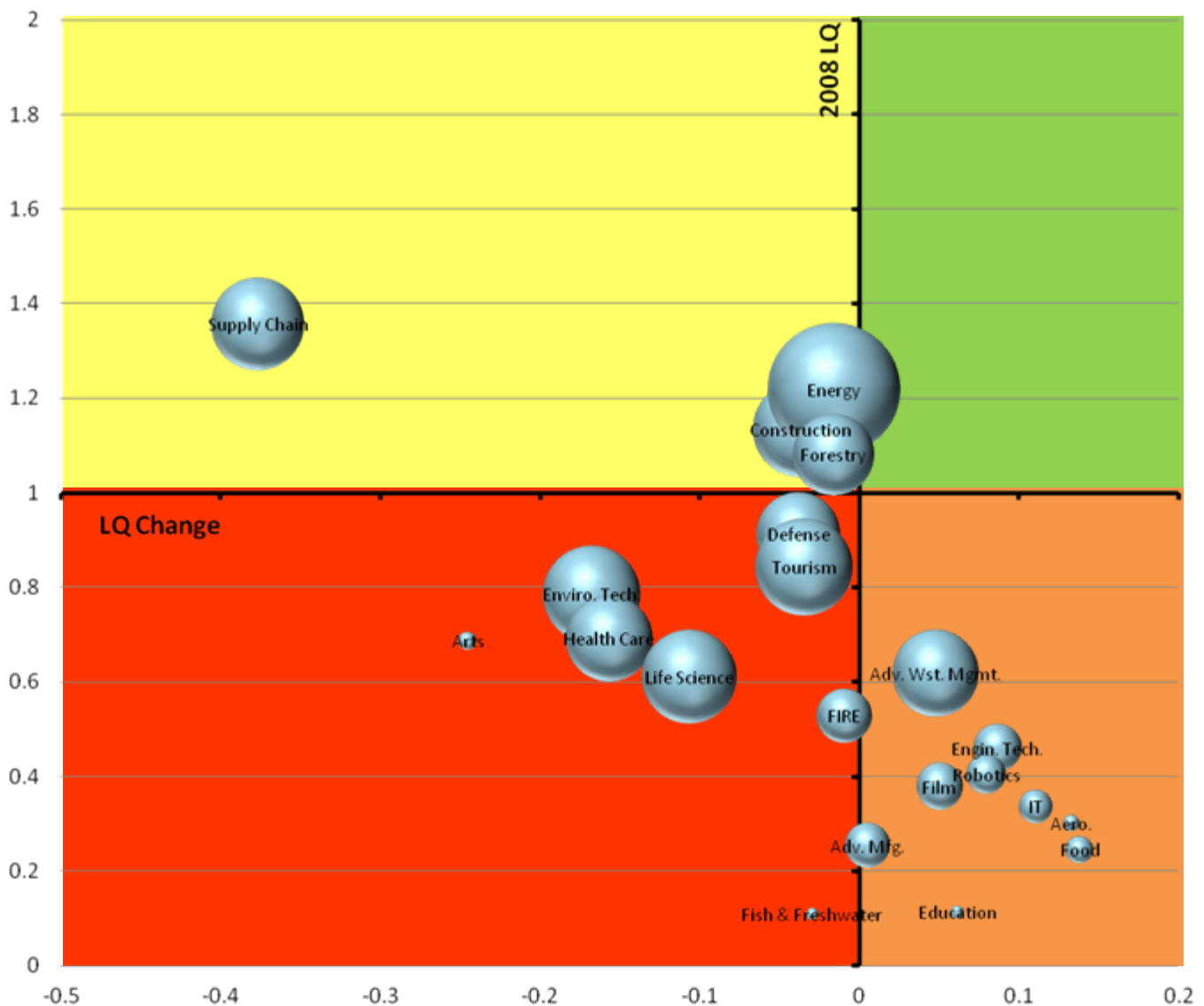


Kalamazoo County Cluster LQ Chart

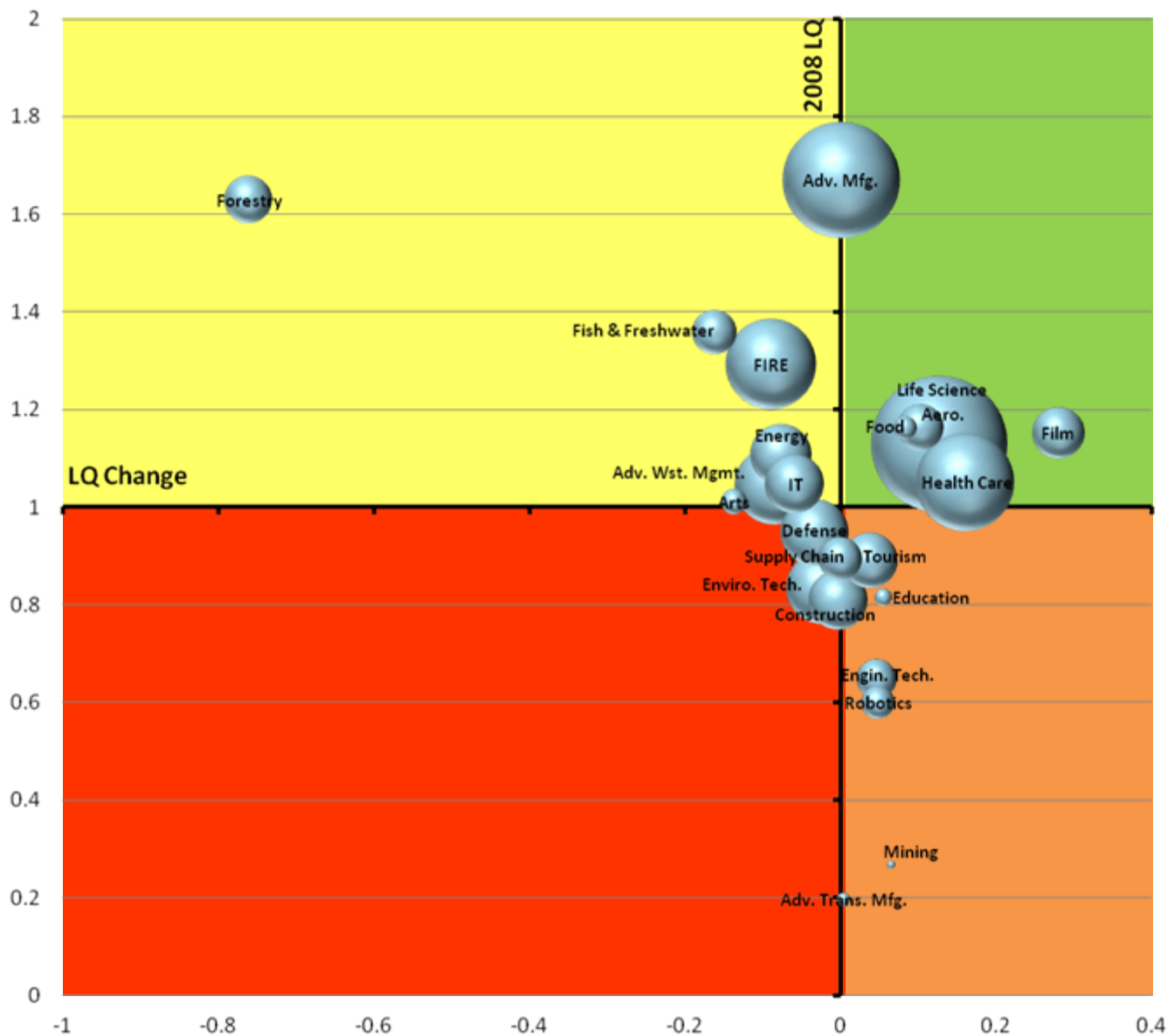




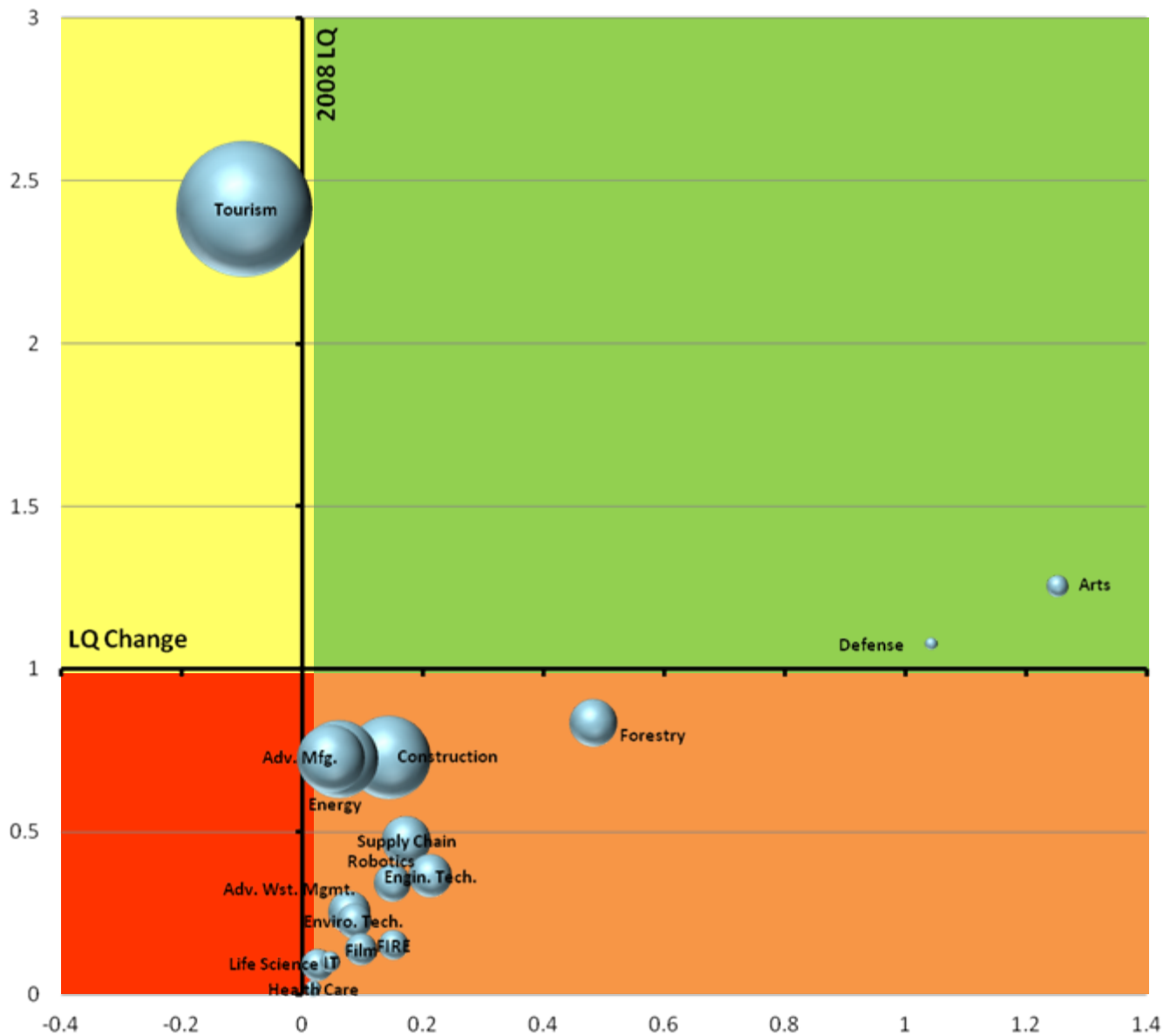
Kalkaska County Cluster LQ Chart



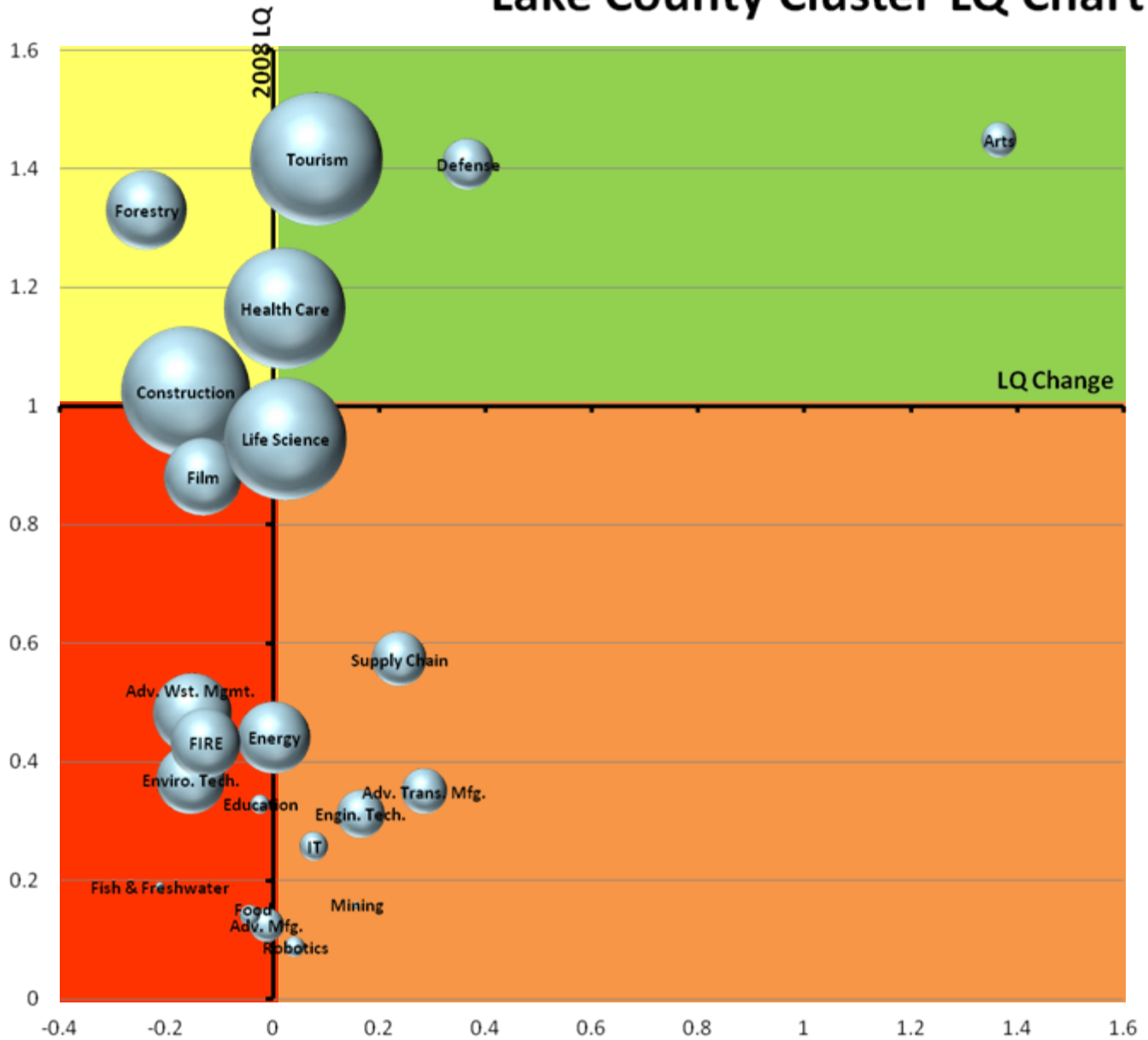
Kent County Cluster LQ Chart



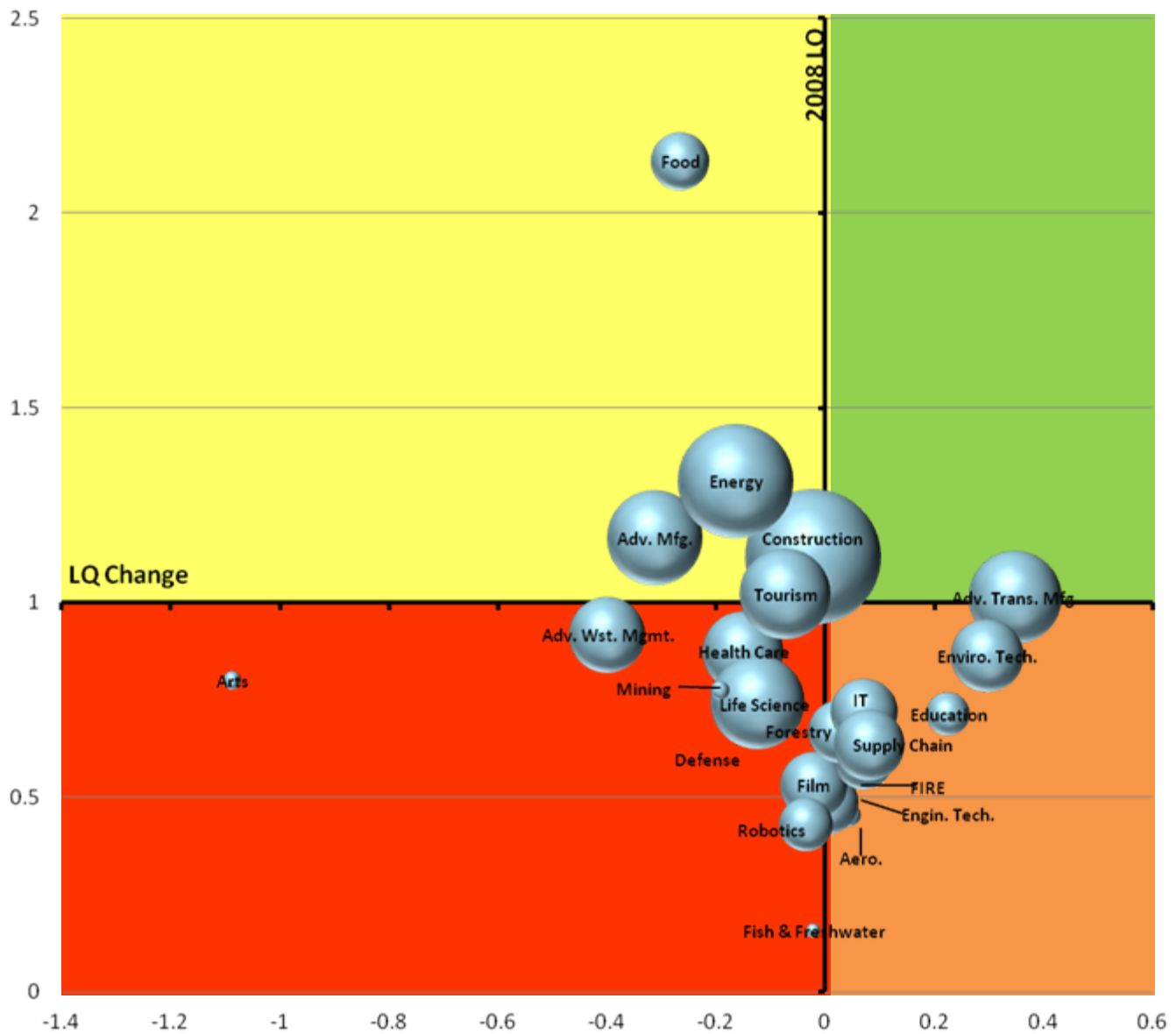
Keweenaw County Cluster LQ Chart



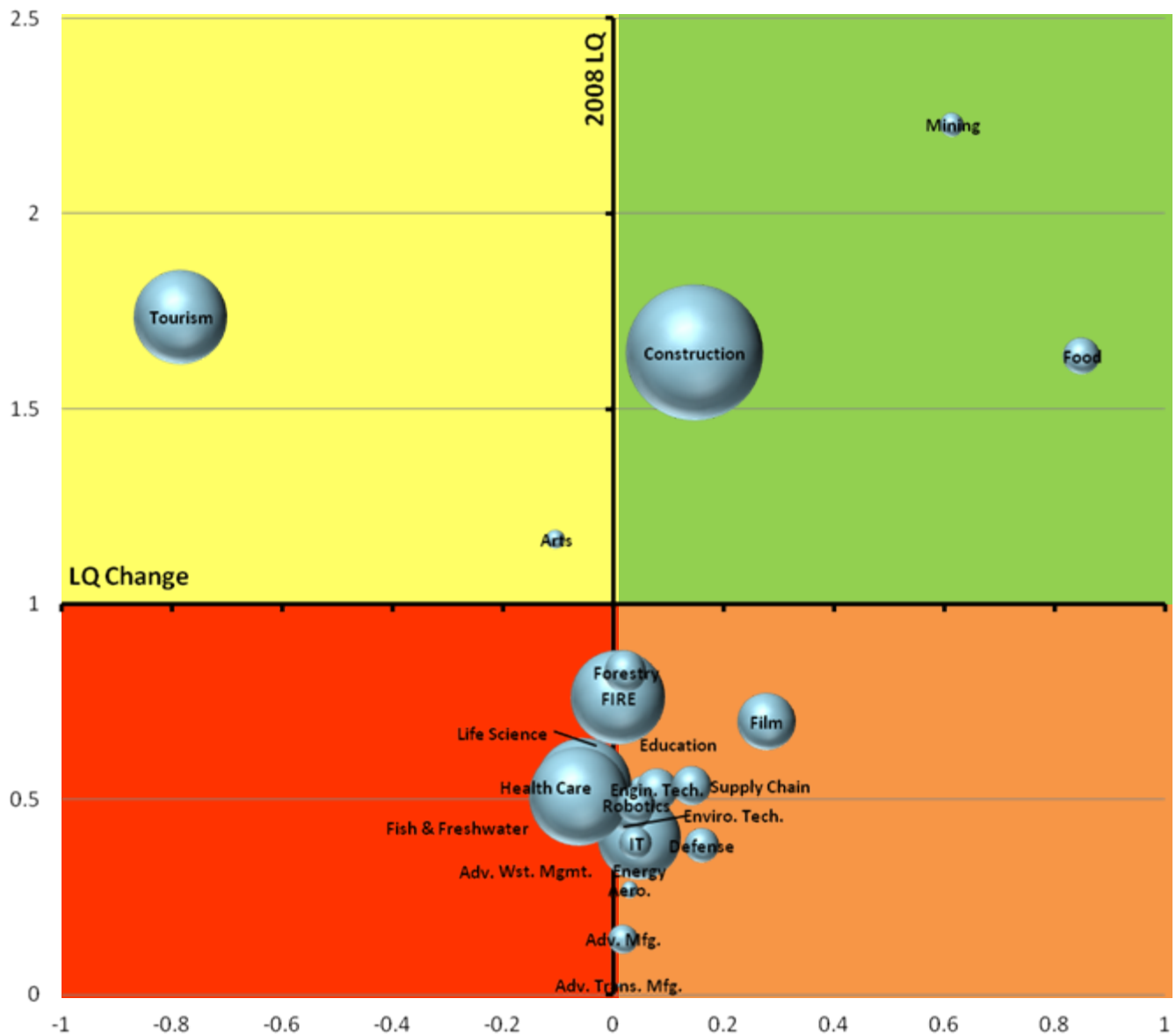
Lake County Cluster LQ Chart



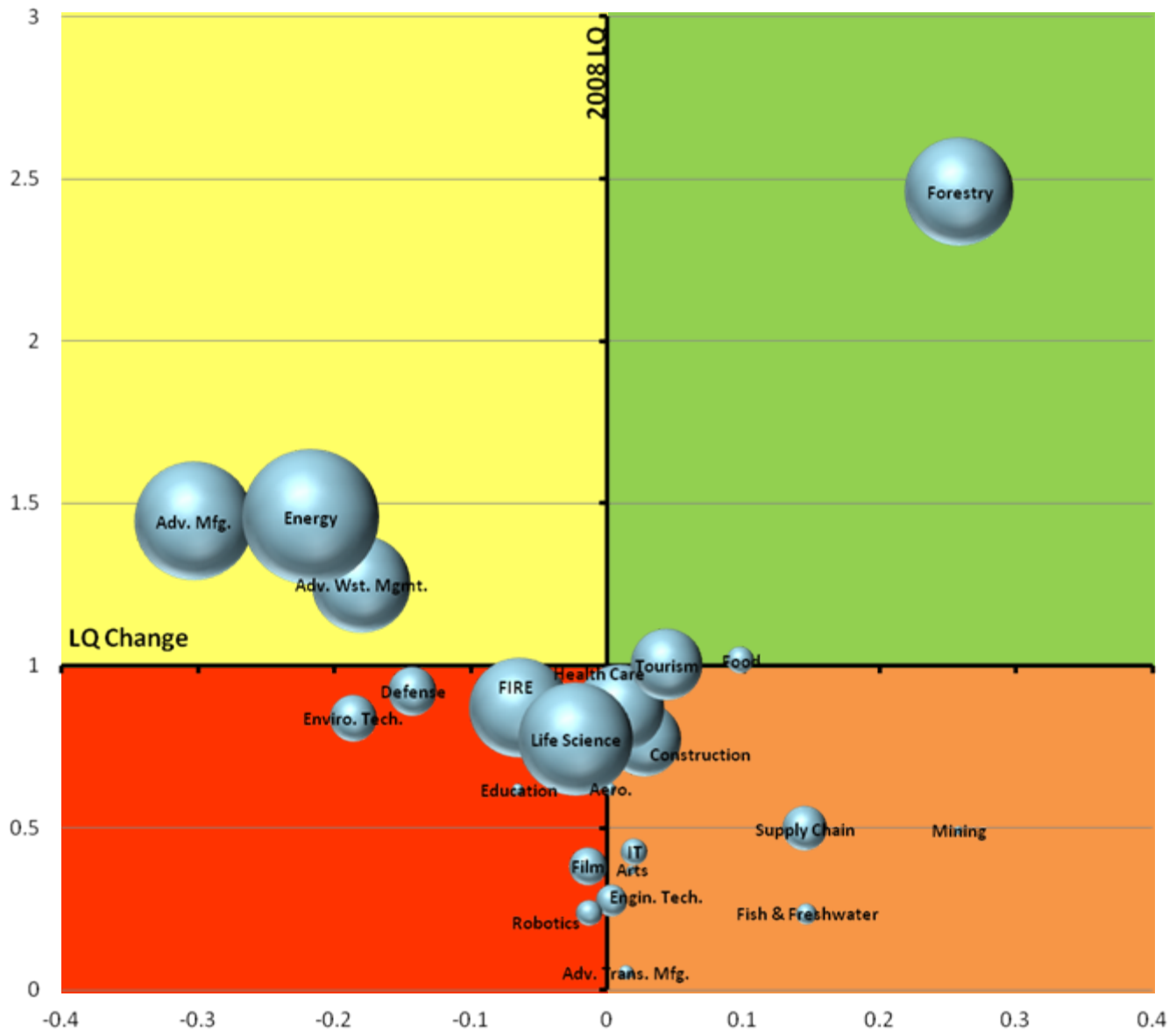
Lapeer County Cluster LQ Chart



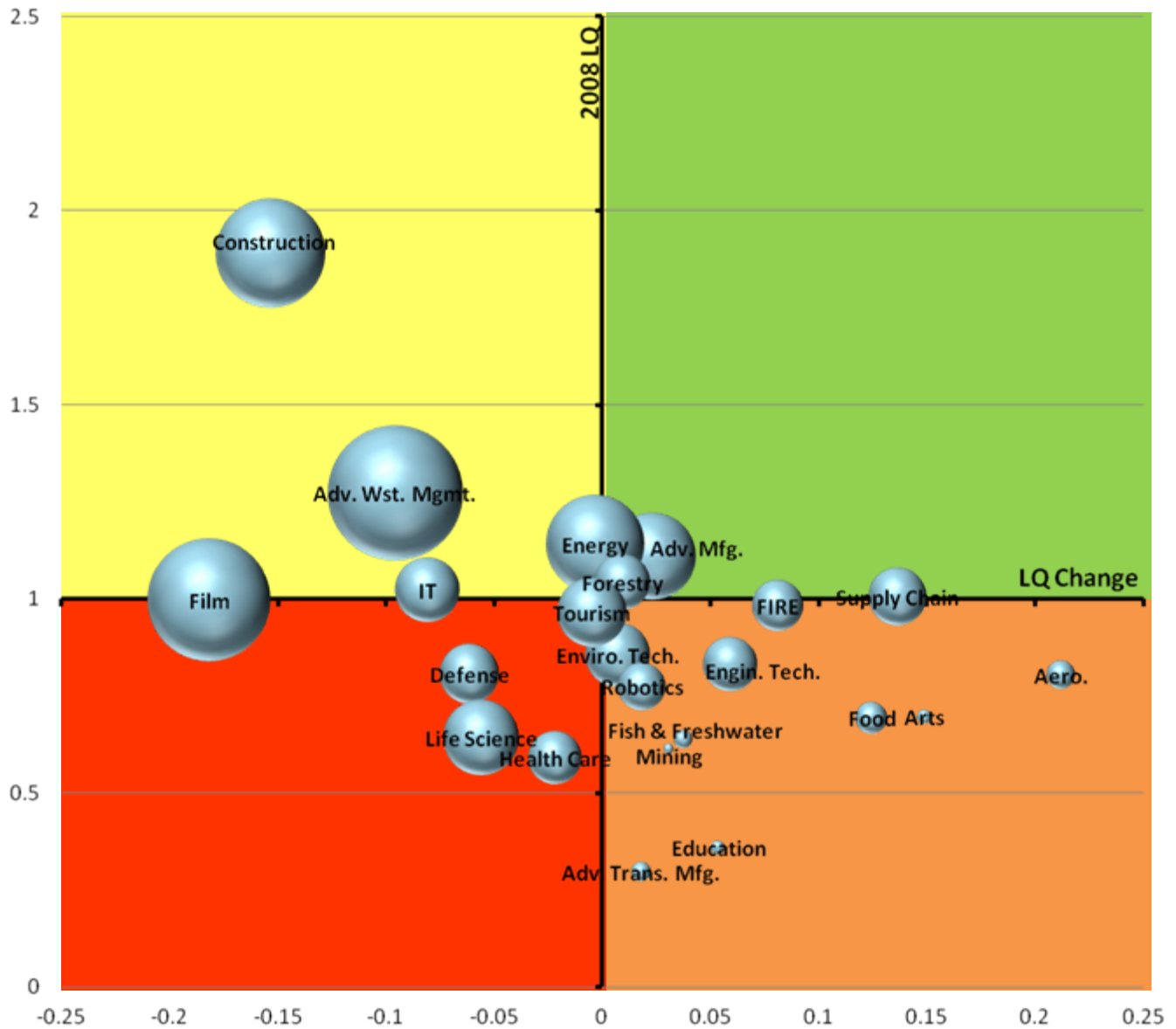
Leelanau County Cluster LQ Chart



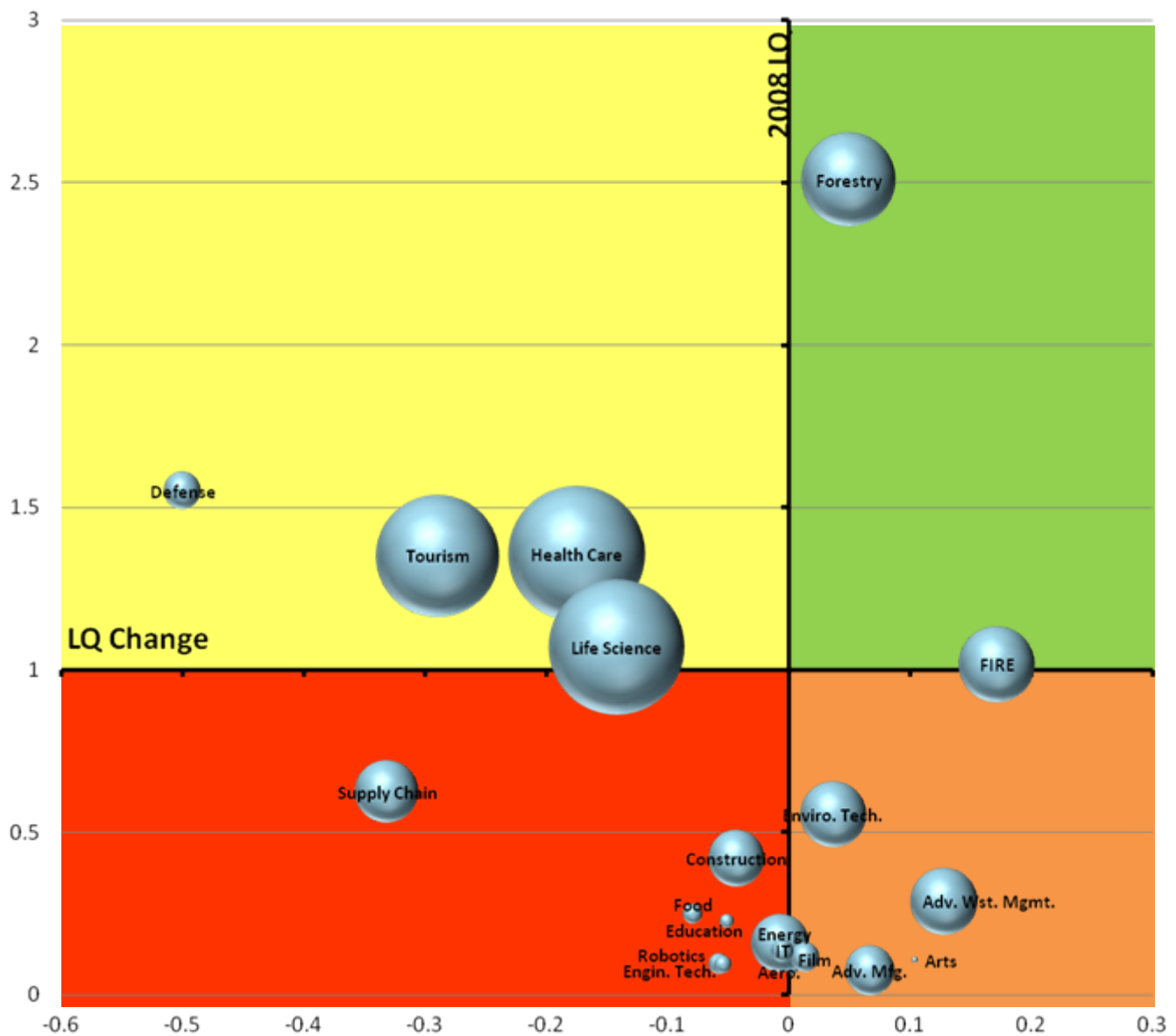
Lenawee County Cluster LQ Chart



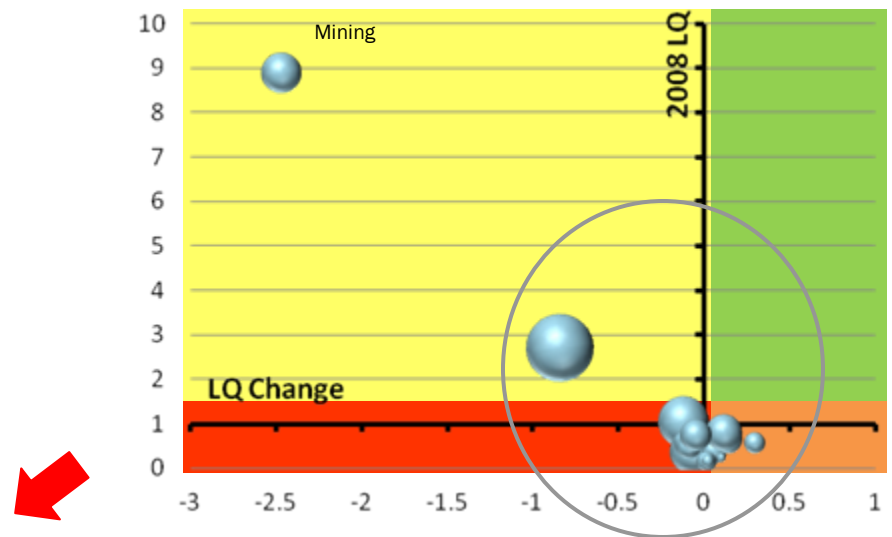
Livingston County Cluster LQ Chart



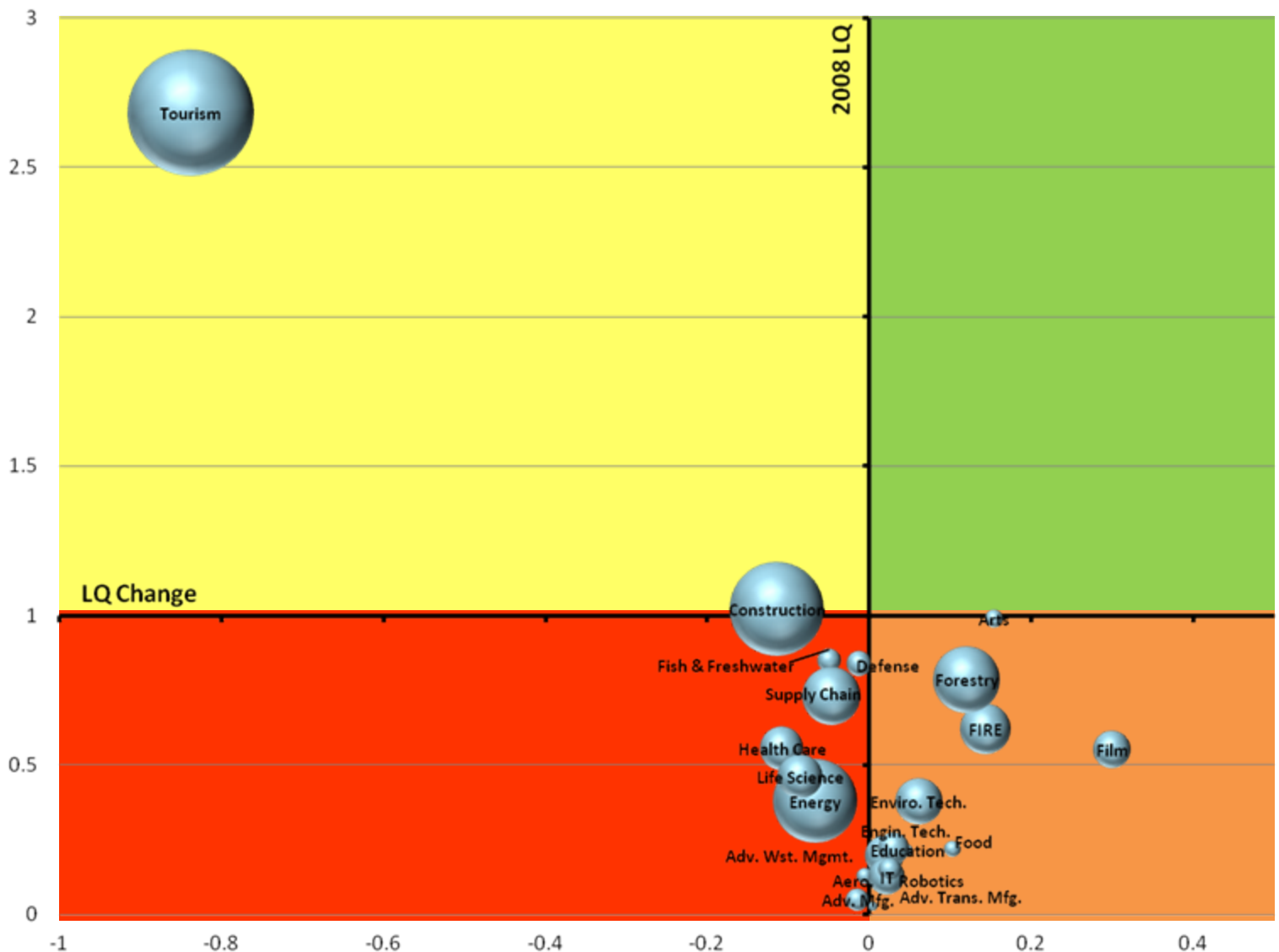
Luce County Cluster LQ Chart



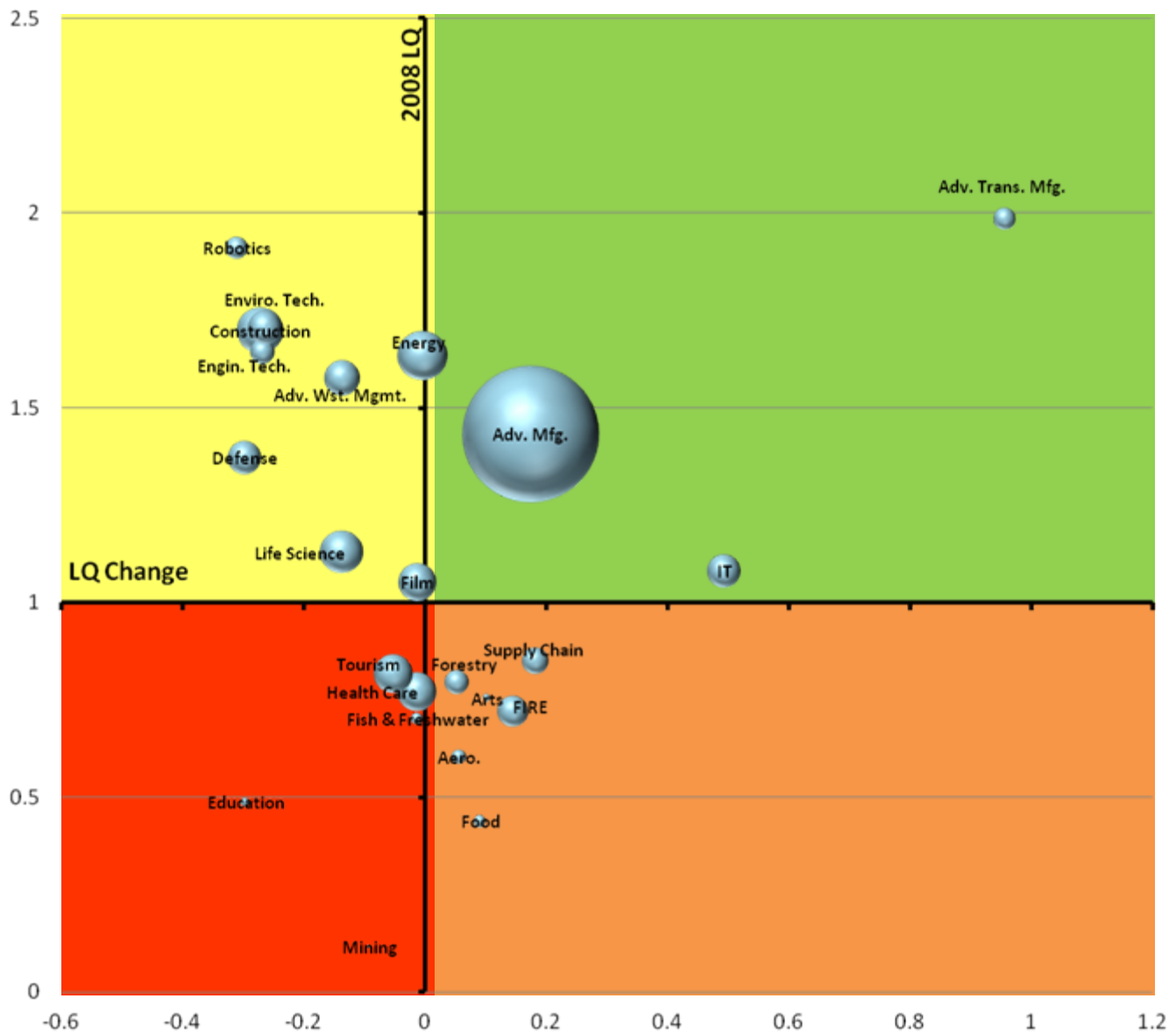
Cluster LQ Summary



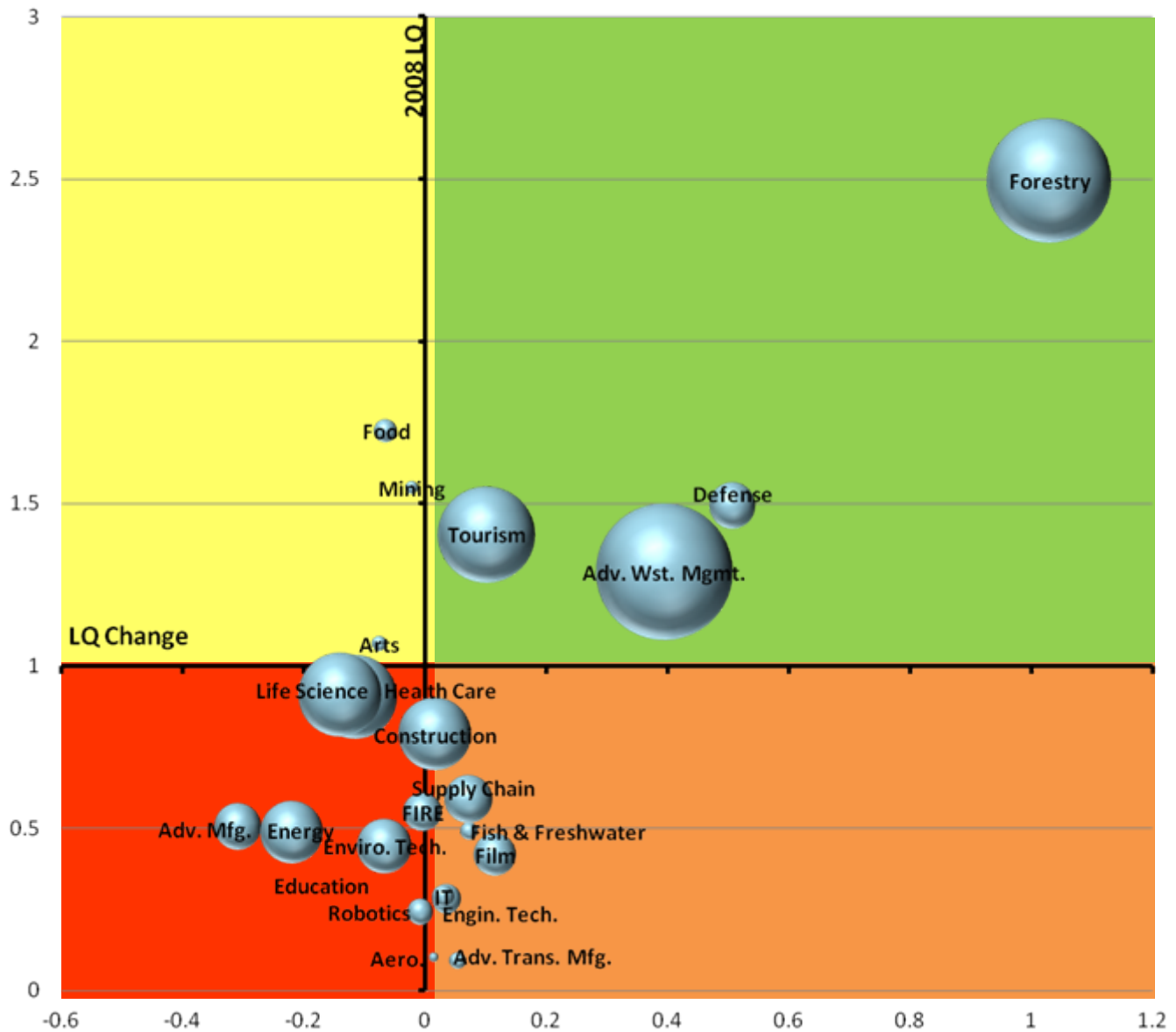
Mackinac County Cluster LQ Chart



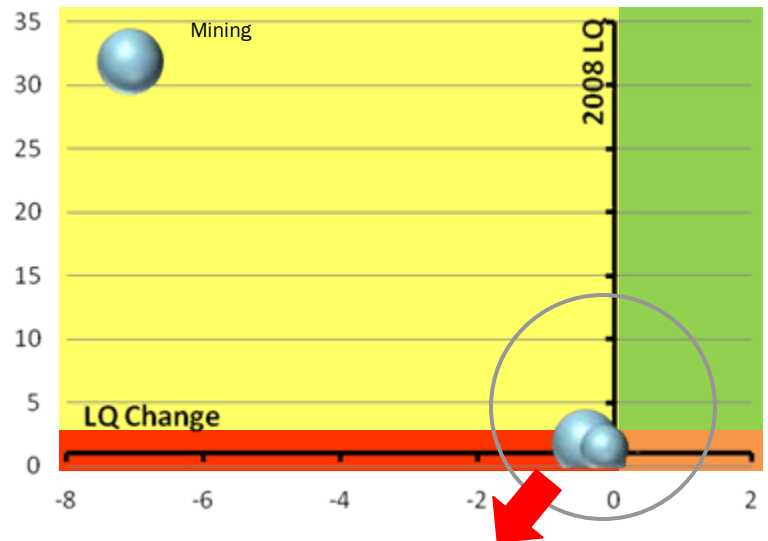
Macomb County Cluster LQ Chart



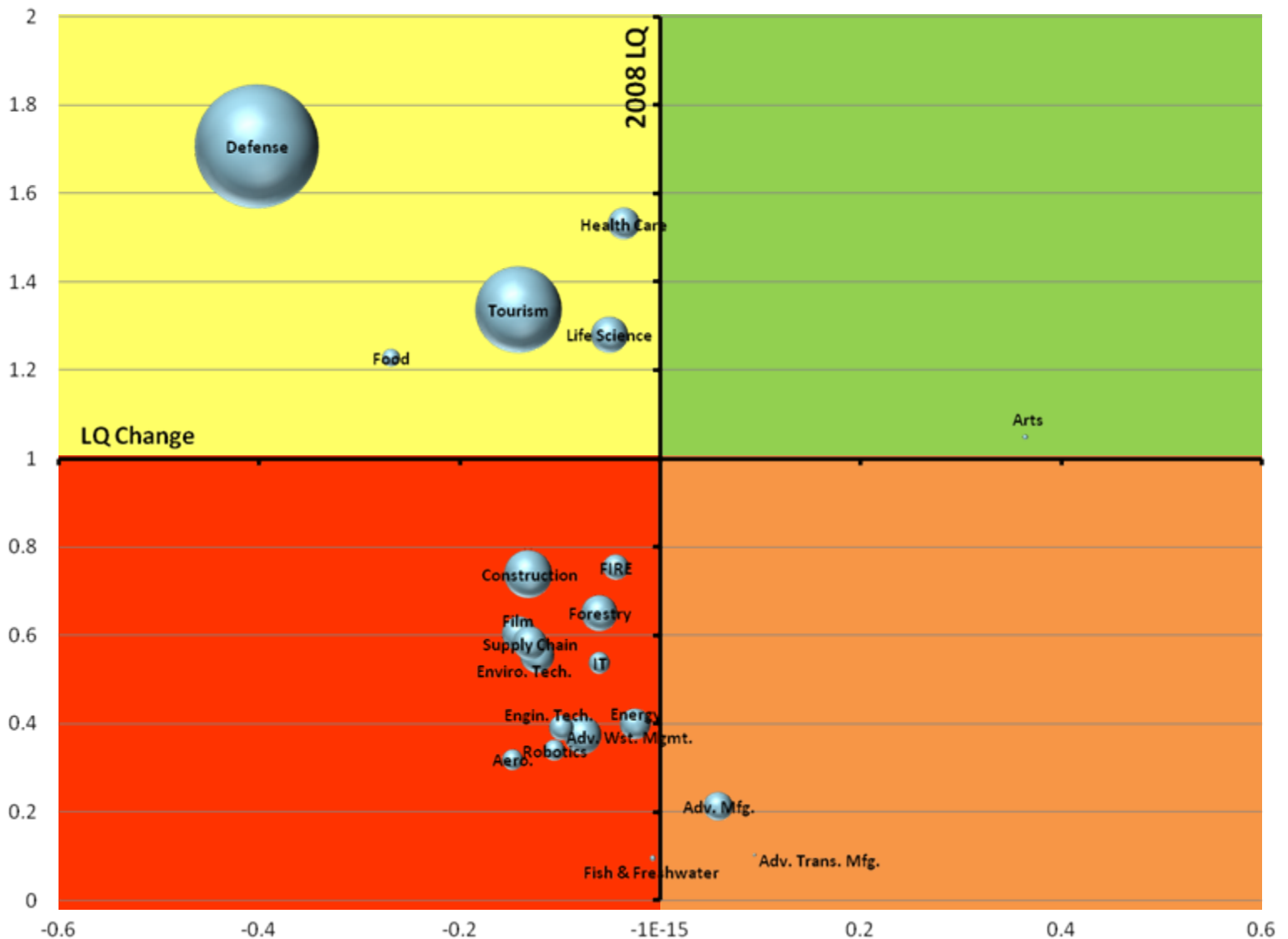
Manistee County Cluster LQ Chart



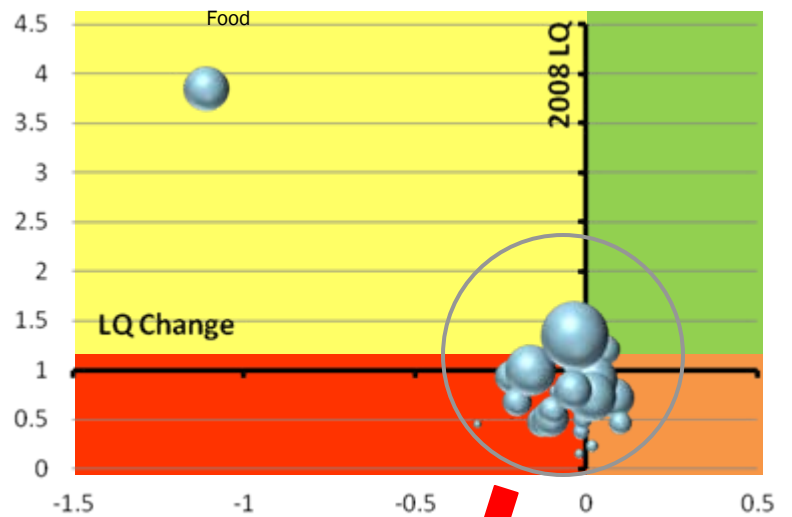
Cluster LQ Summary



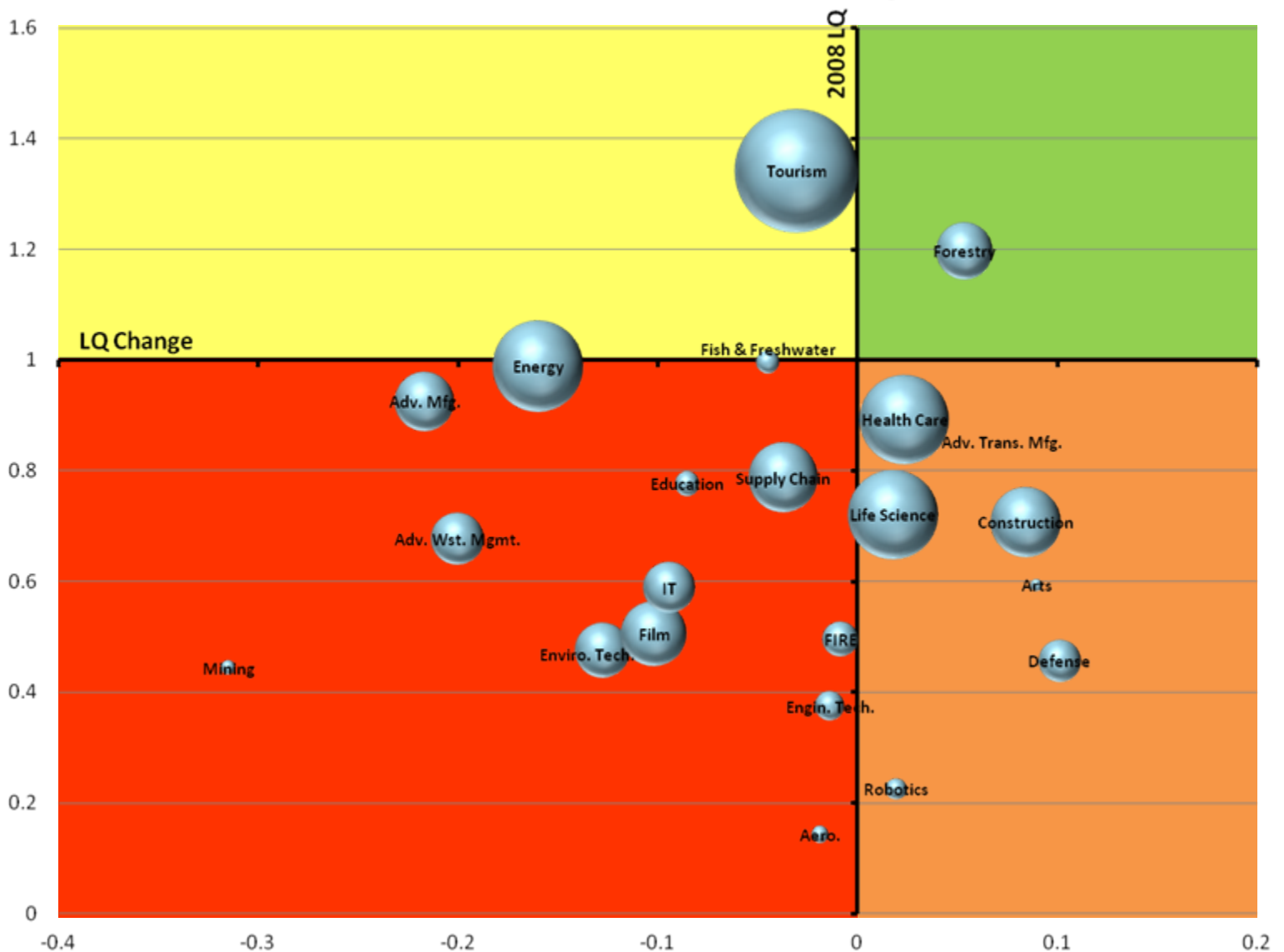
Marquette County Cluster LQ Chart



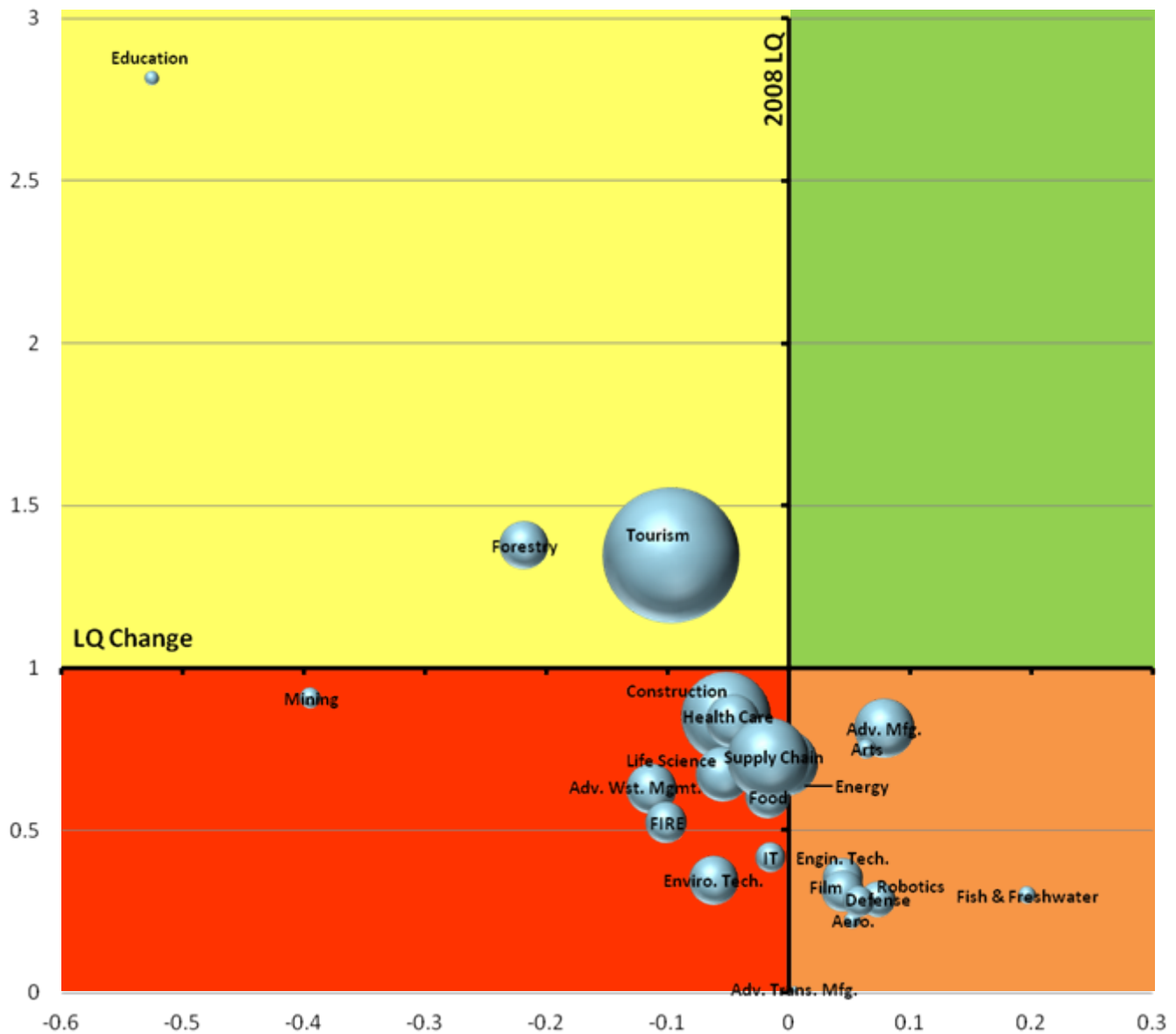
Cluster LQ Summary



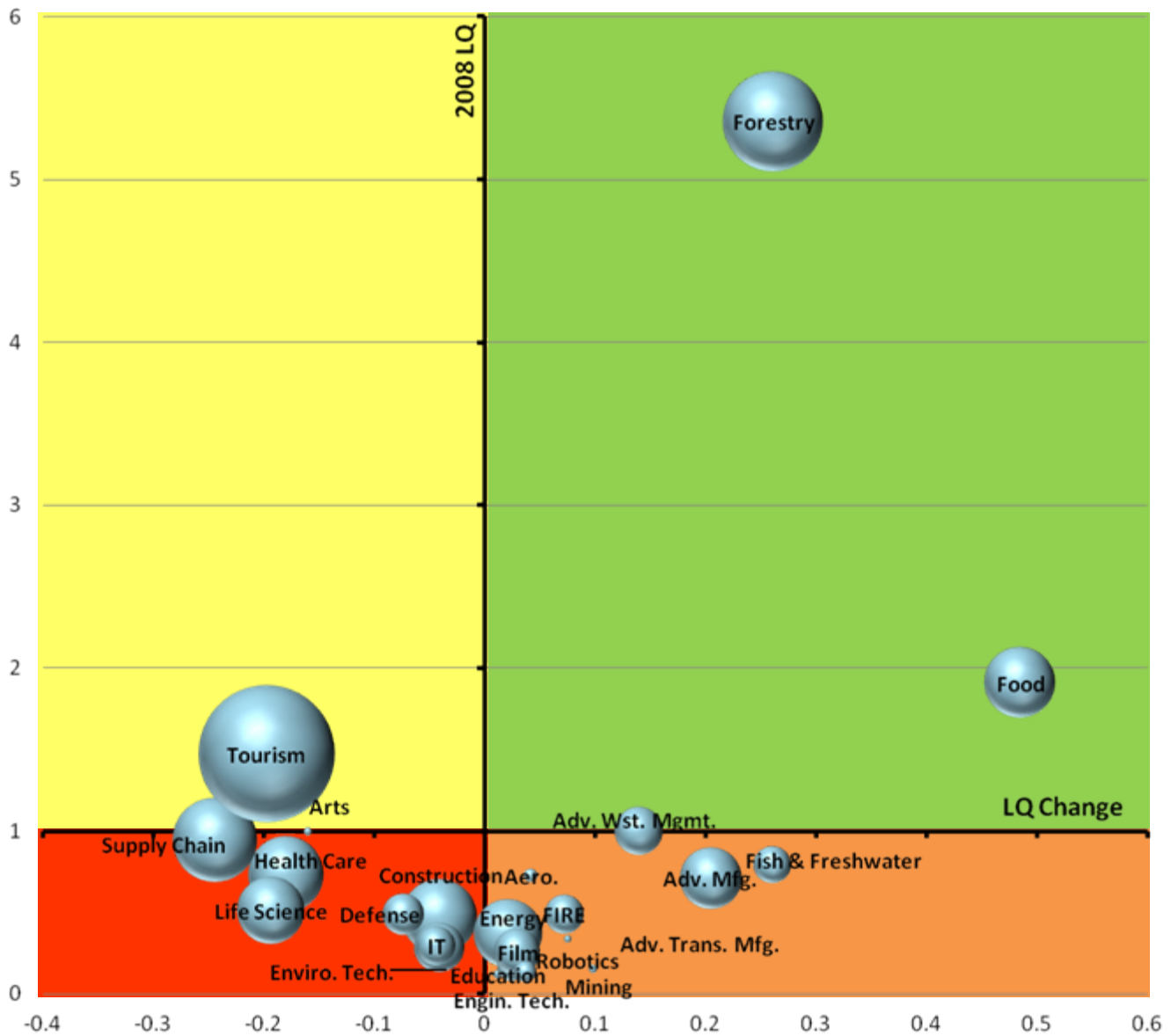
Mason County Cluster LQ Chart



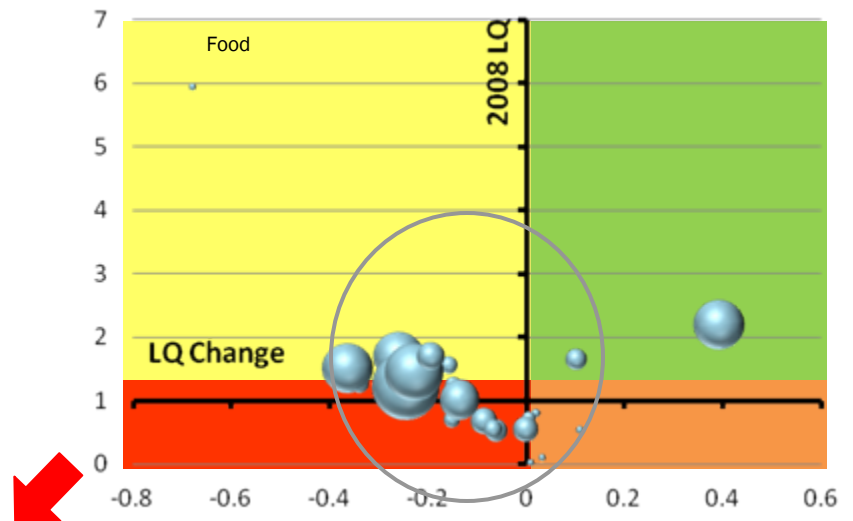
Mecosta County Cluster LQ Chart



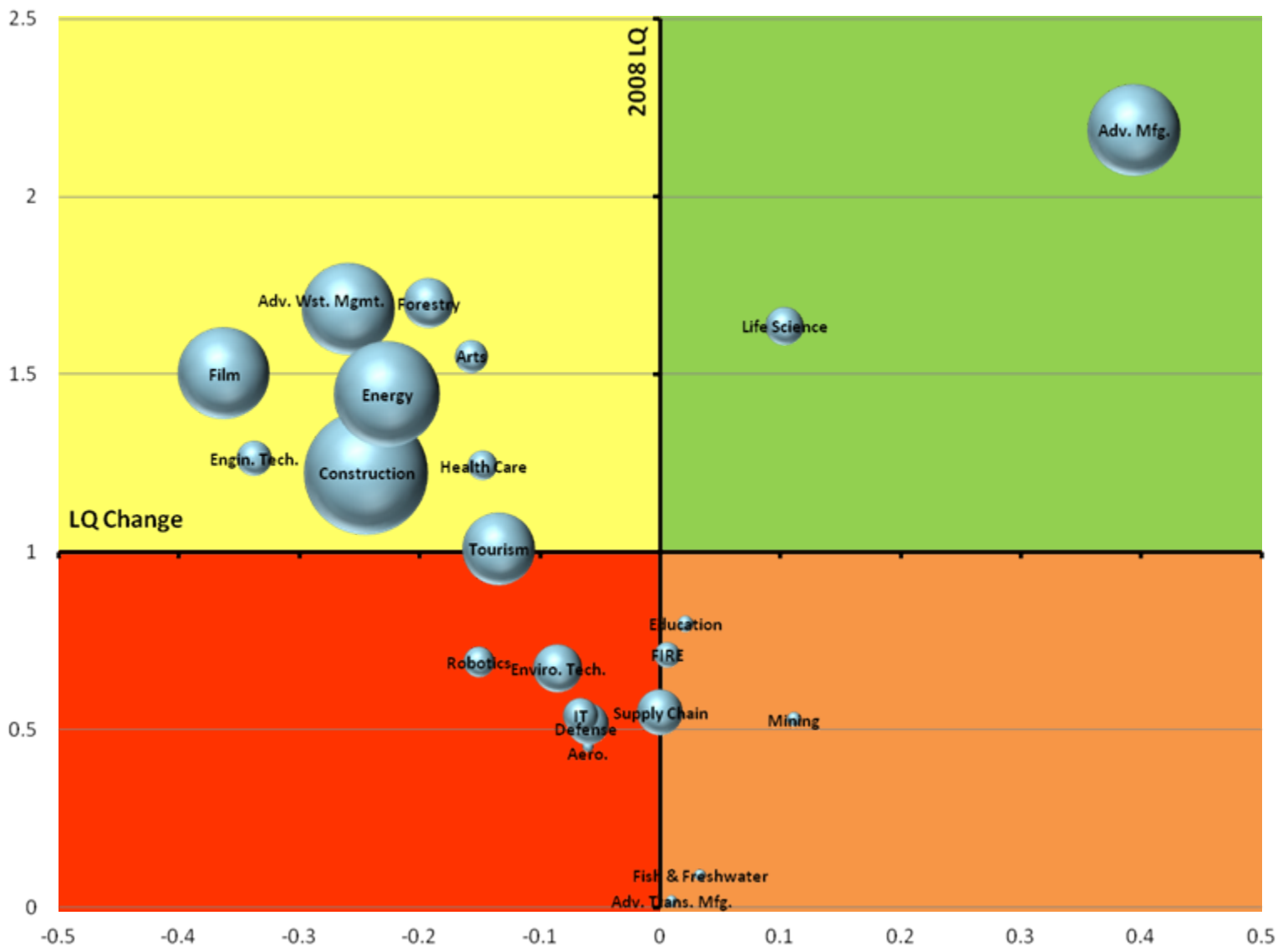
Menominee County Cluster LQ Chart



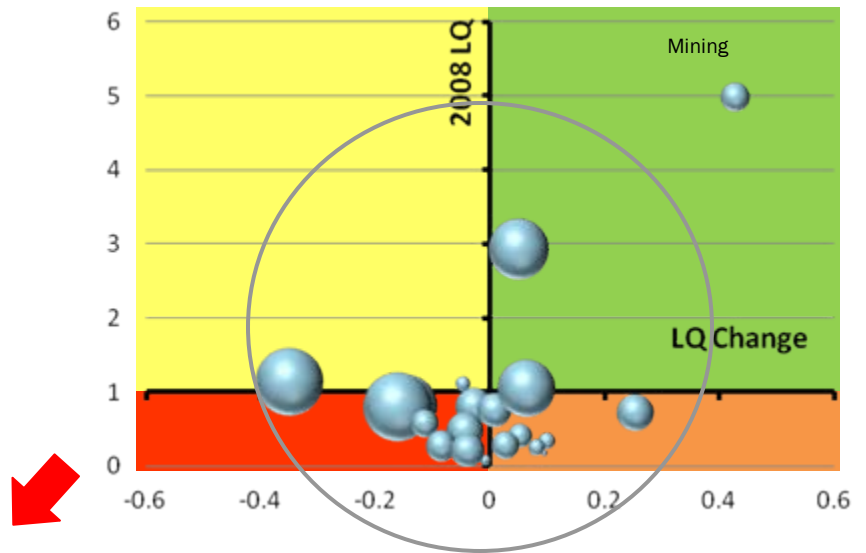
Cluster LQ Summary



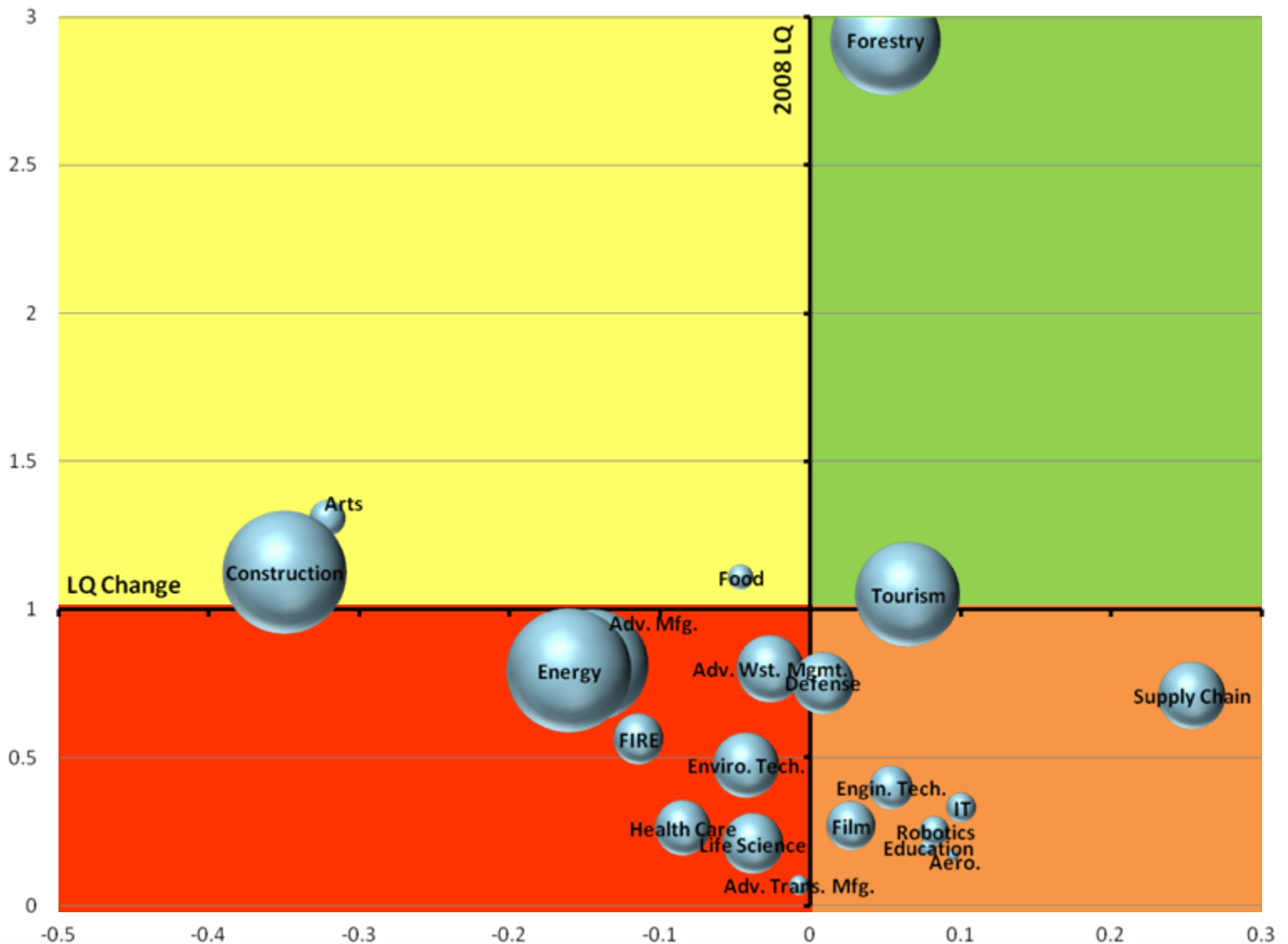
Midland County Cluster LQ Chart



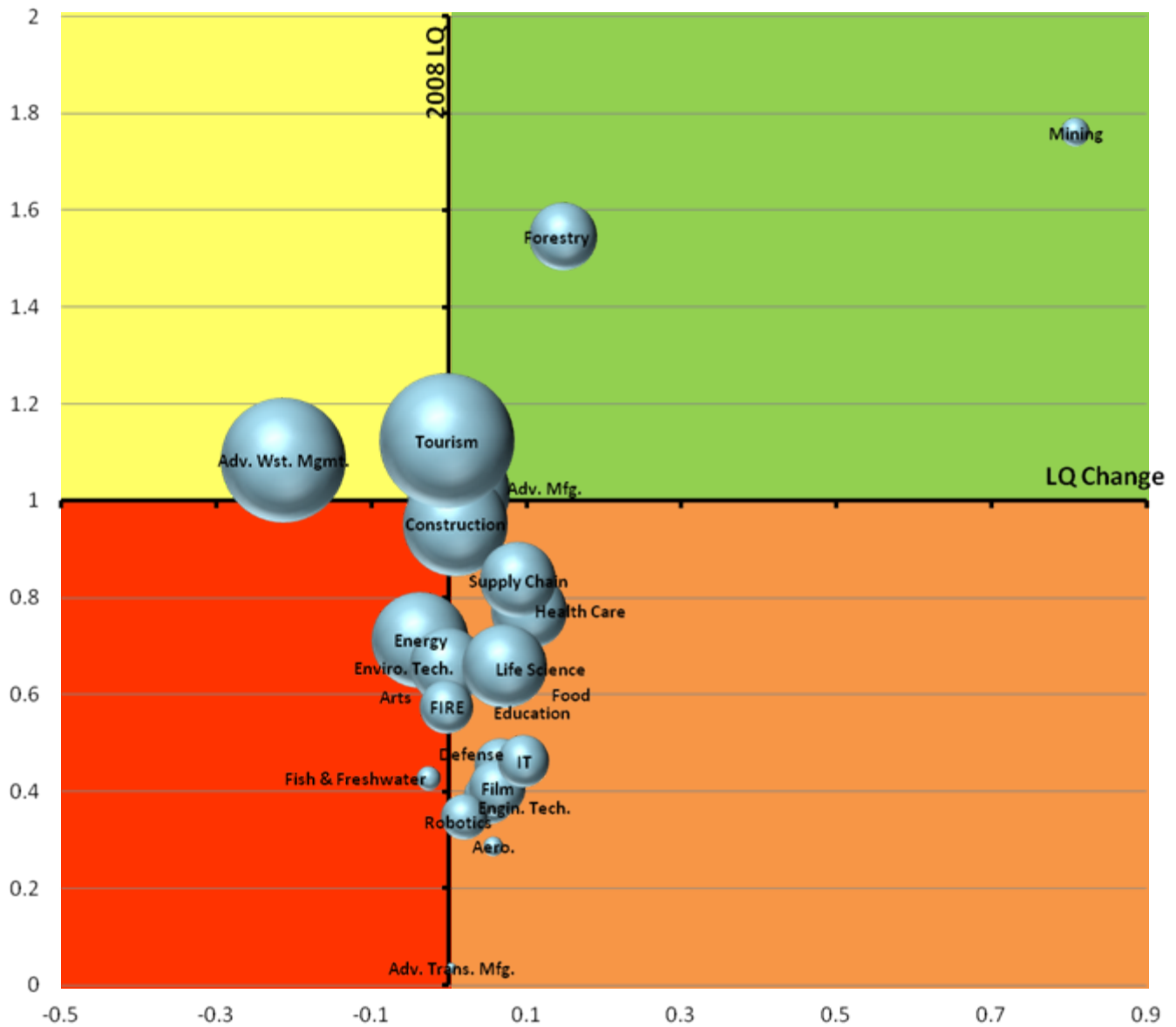
Cluster LQ Summary



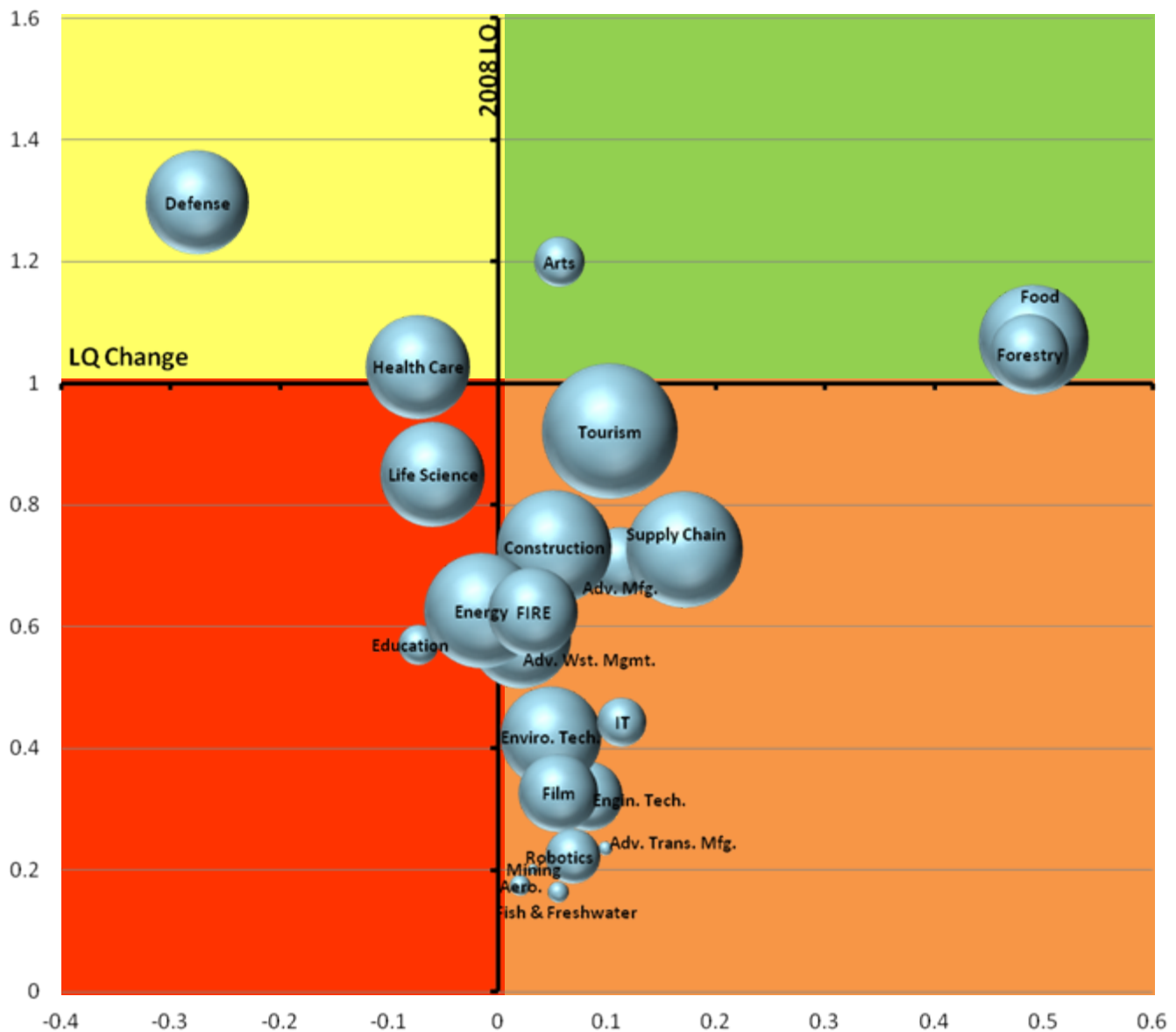
Missaukee County Cluster LQ Chart



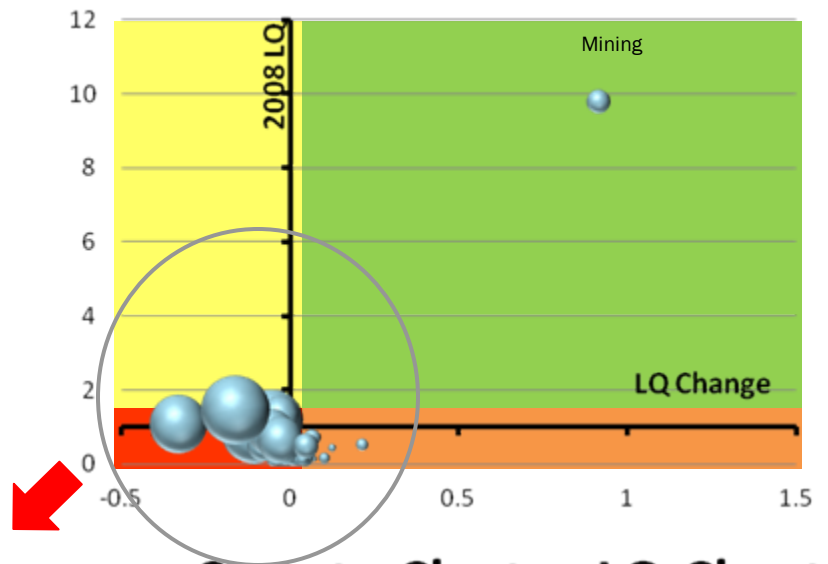
Monroe County Cluster LQ Chart



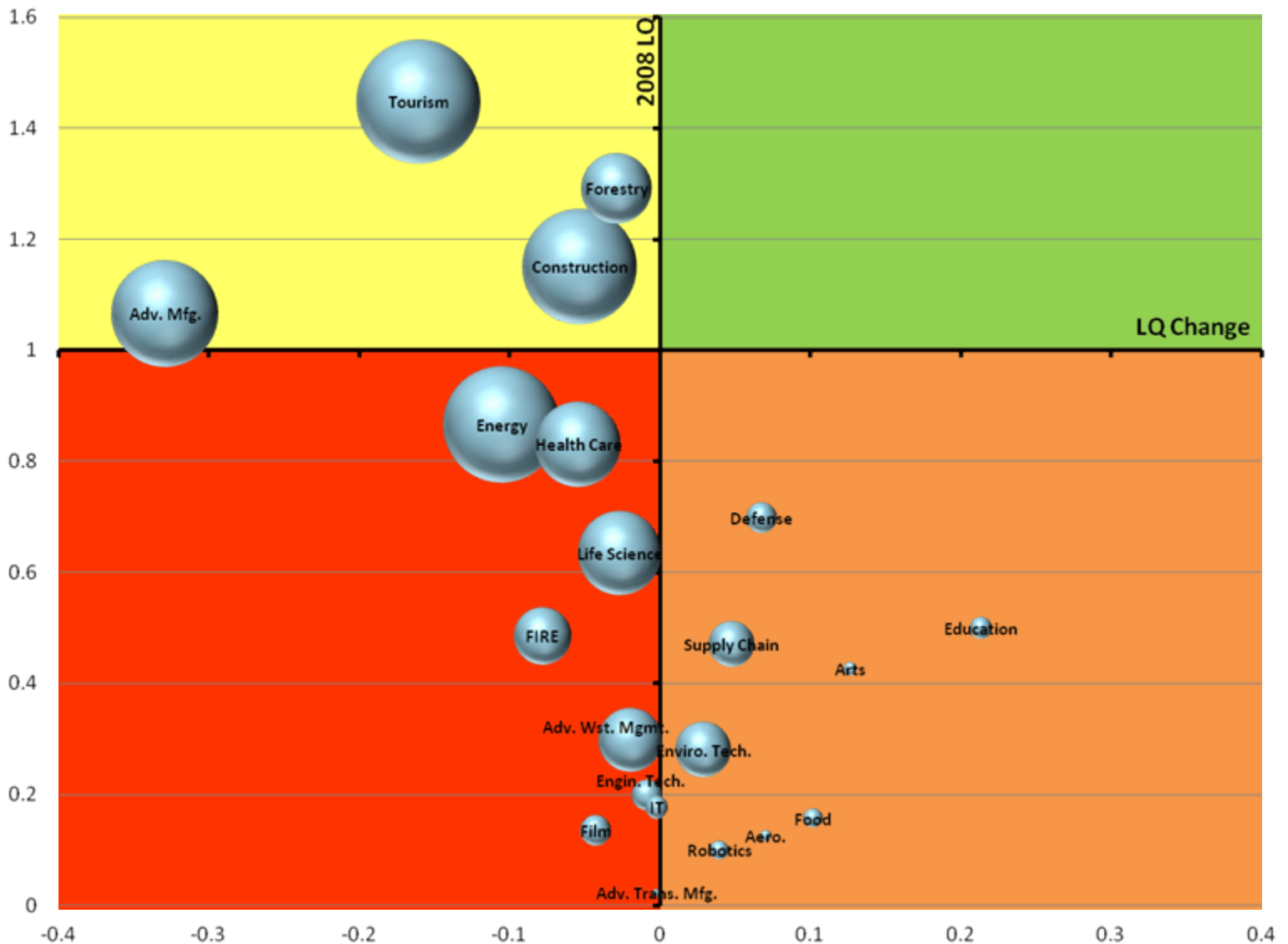
Montcalm County Cluster LQ Chart



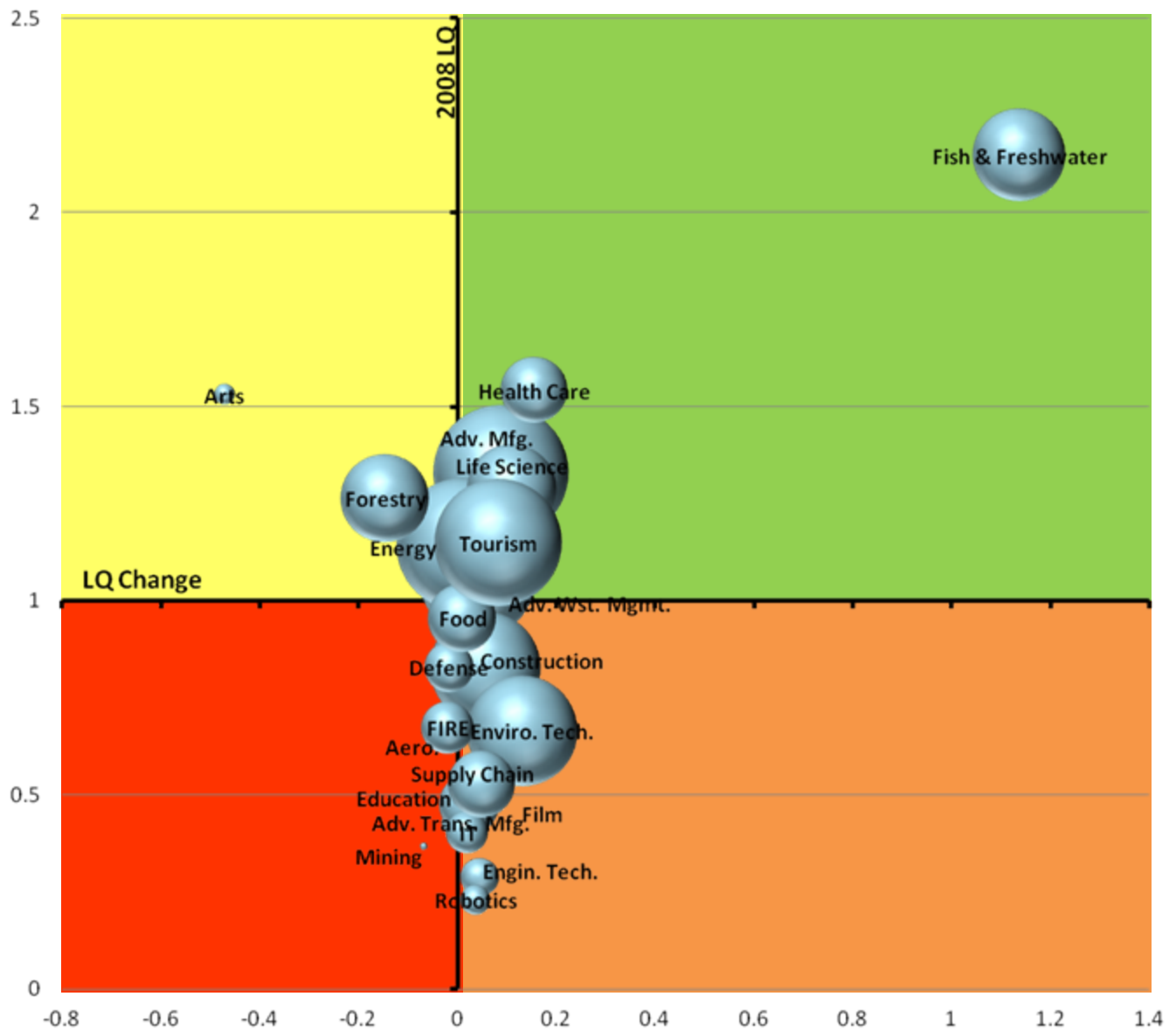
Cluster LQ Summary



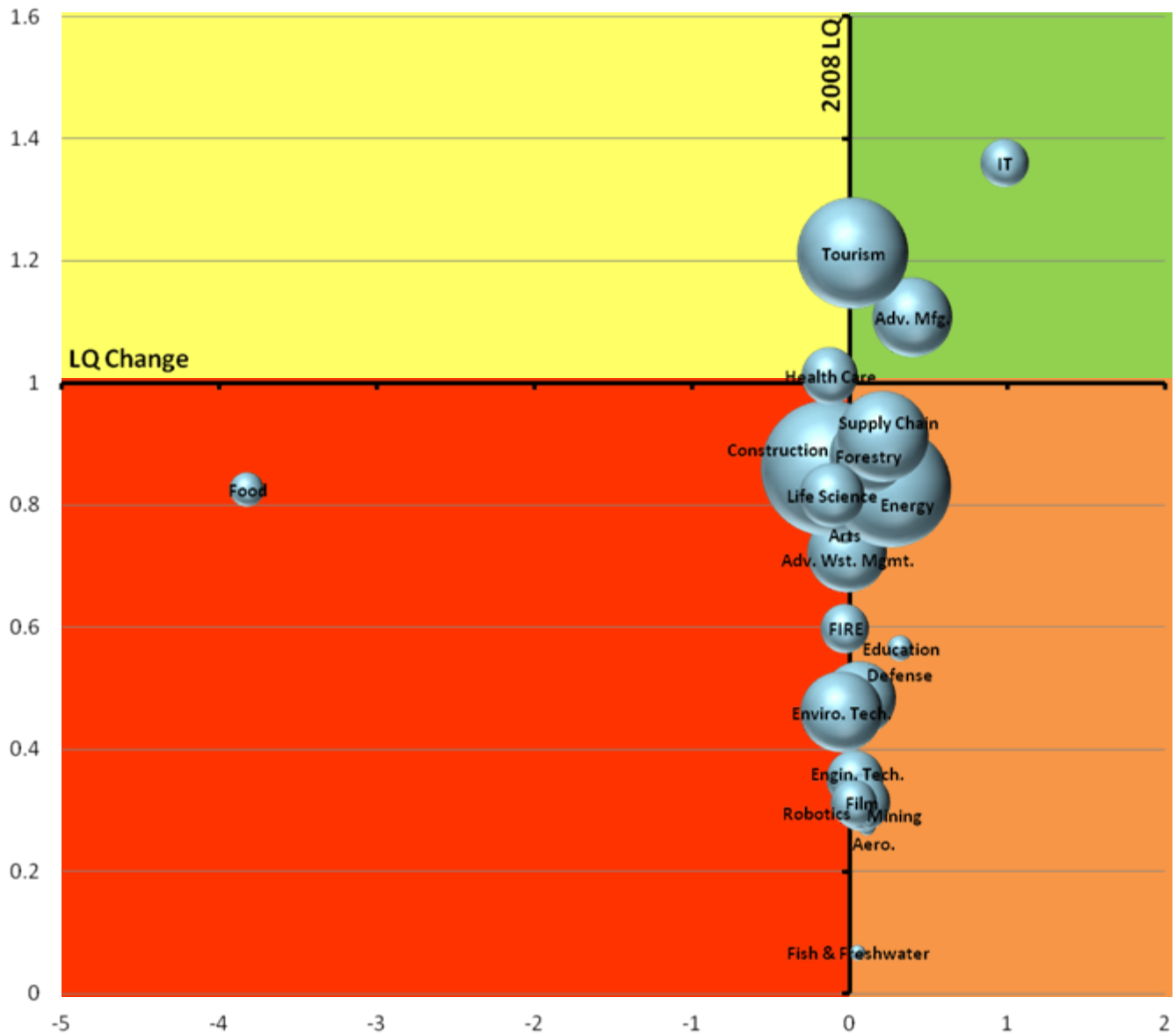
Montmorency County Cluster LQ Chart



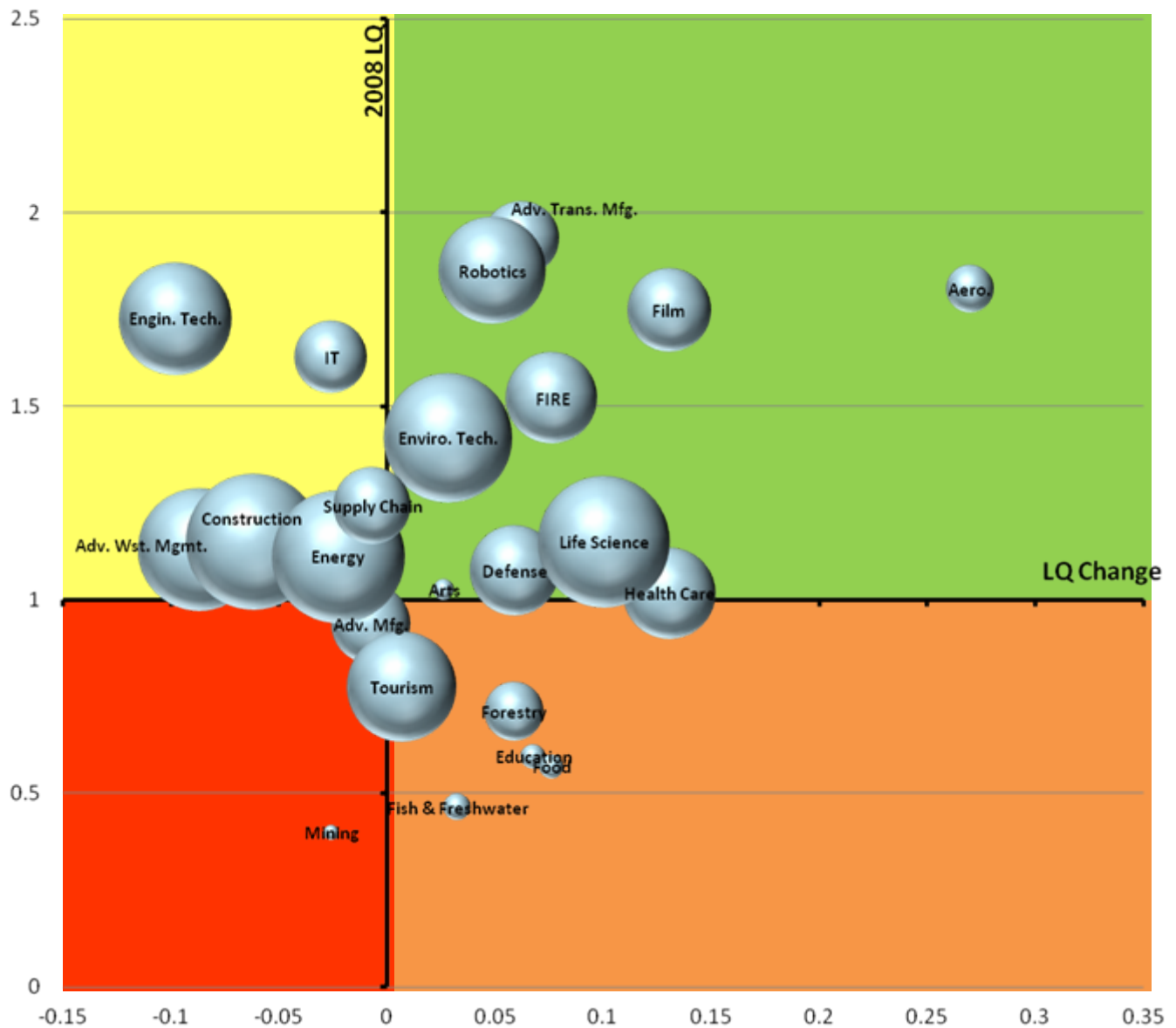
Muskegon County Cluster LQ Chart



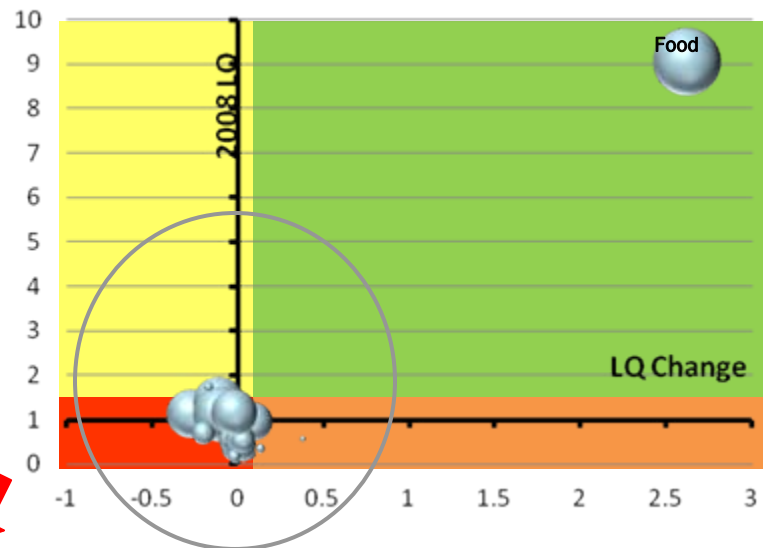
Newaygo County Cluster LQ Chart



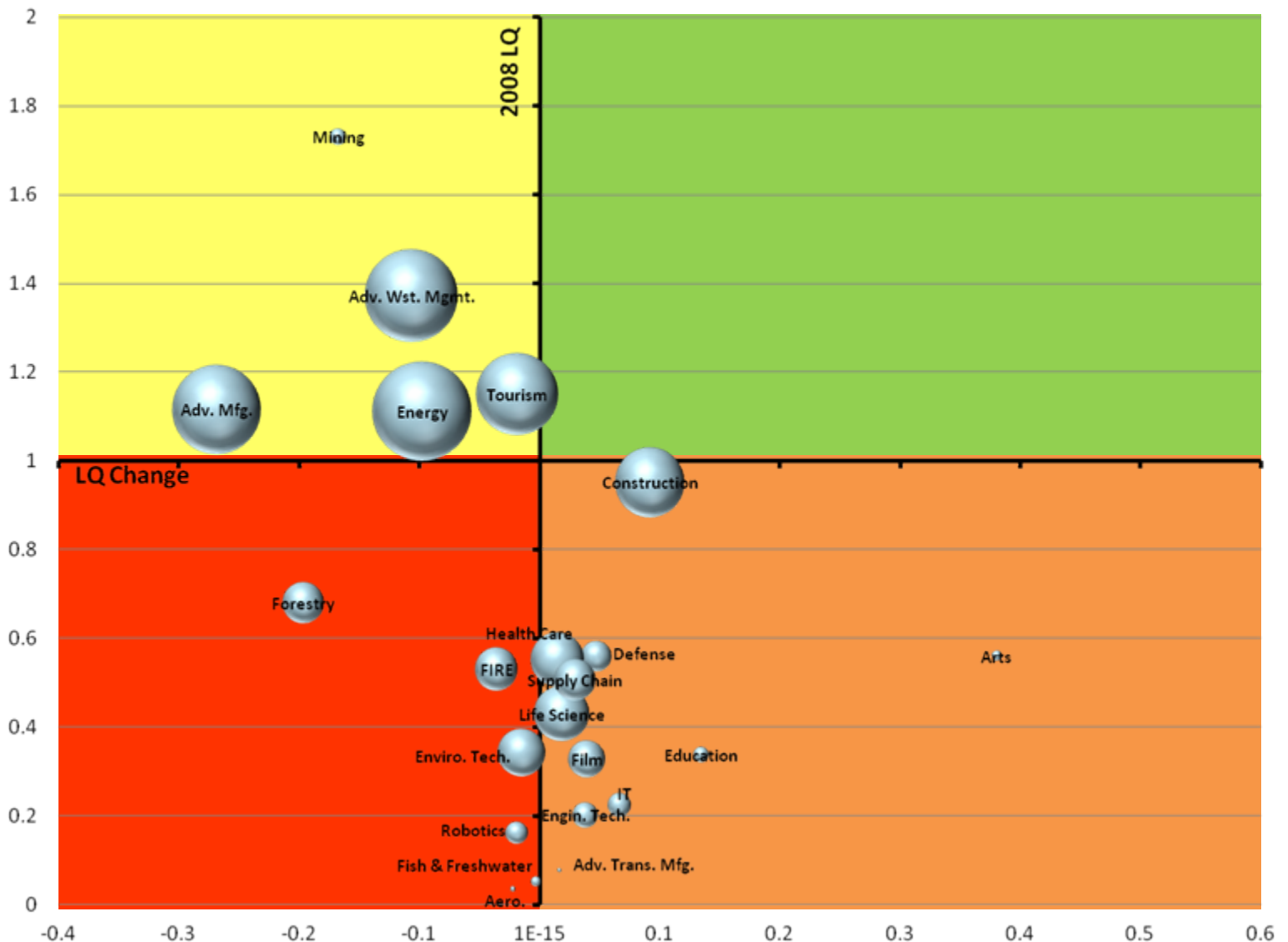
Oakland County Cluster LQ Chart



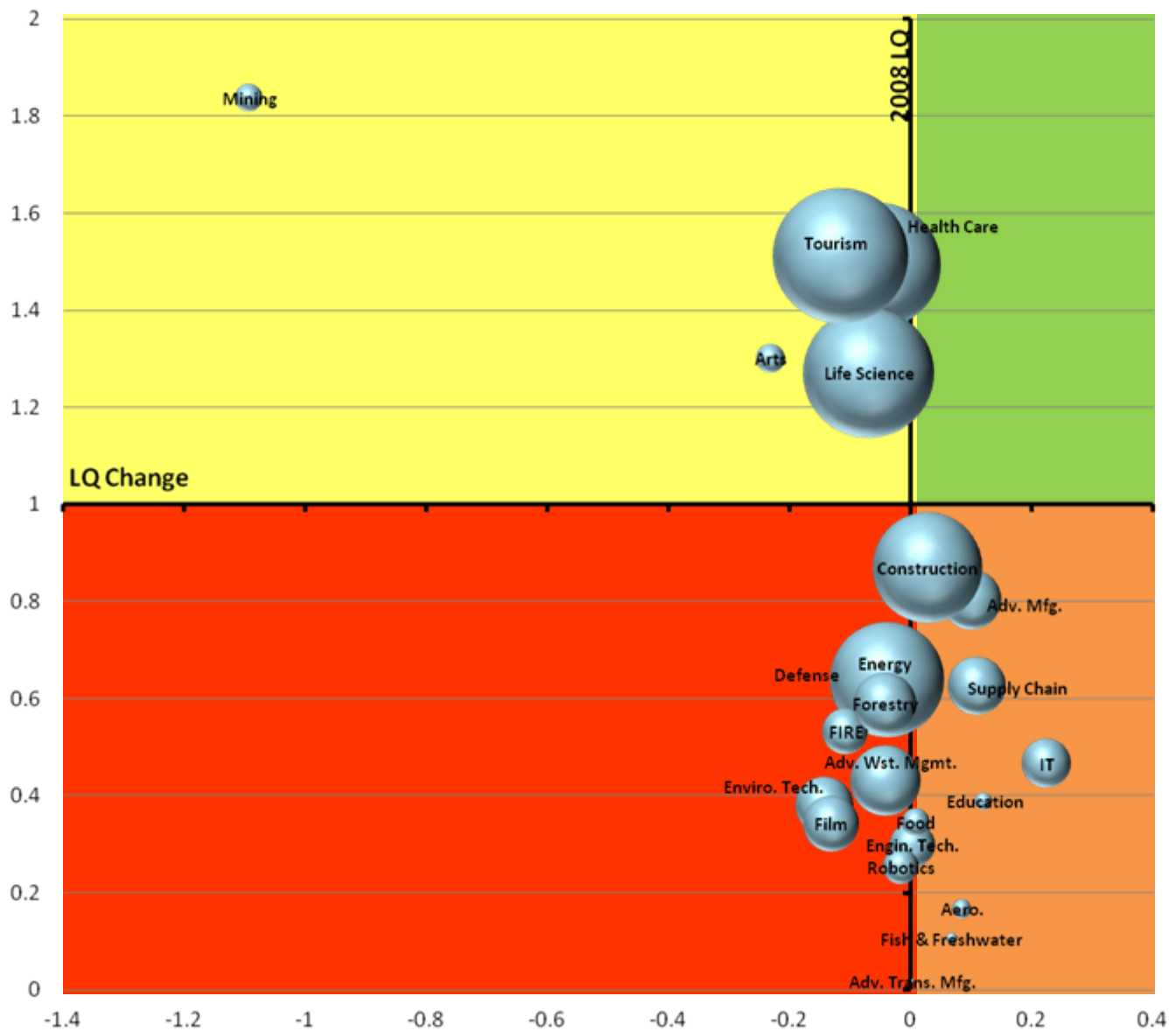
Cluster LQ Summary



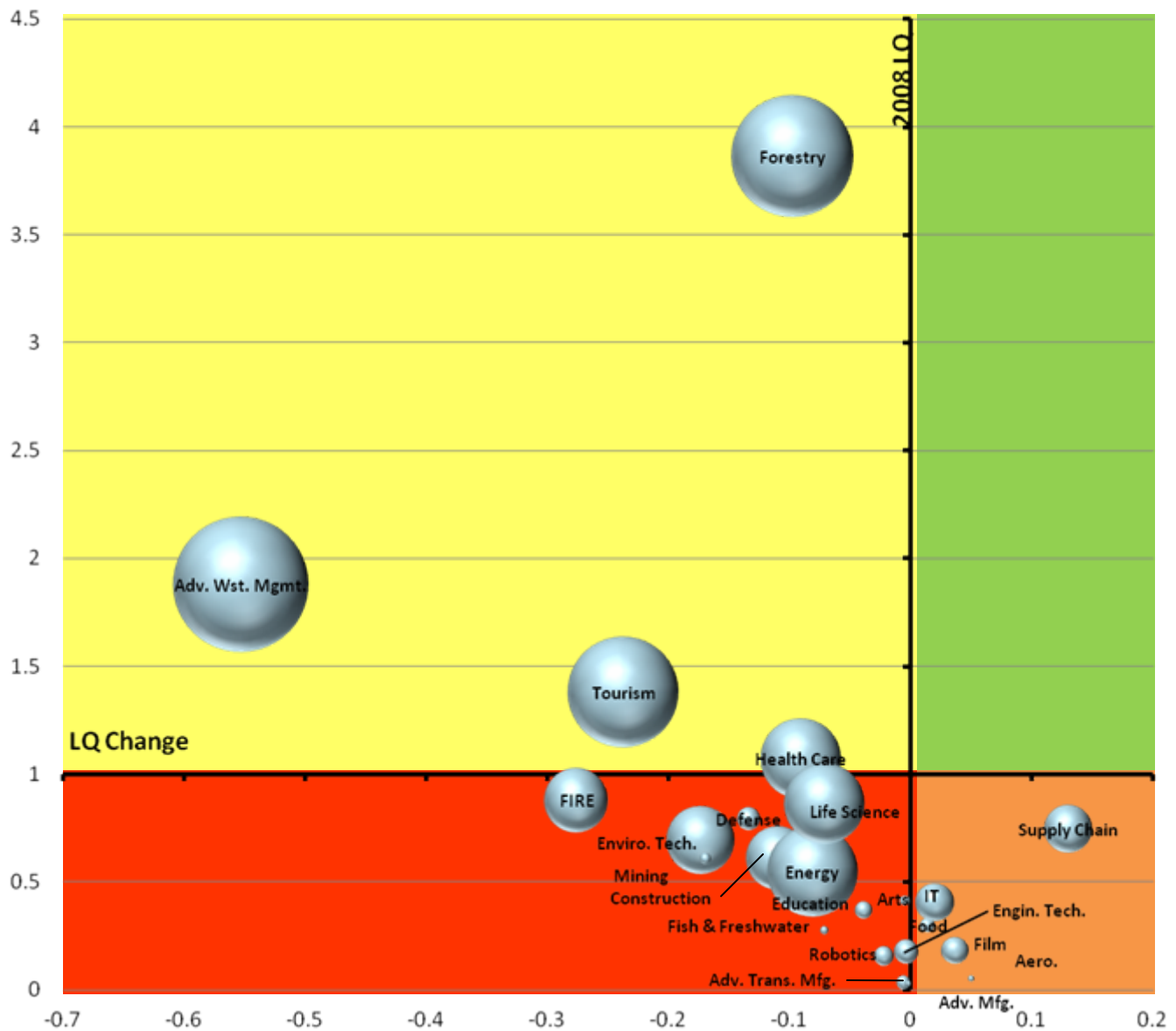
Oceana County Cluster LQ Chart



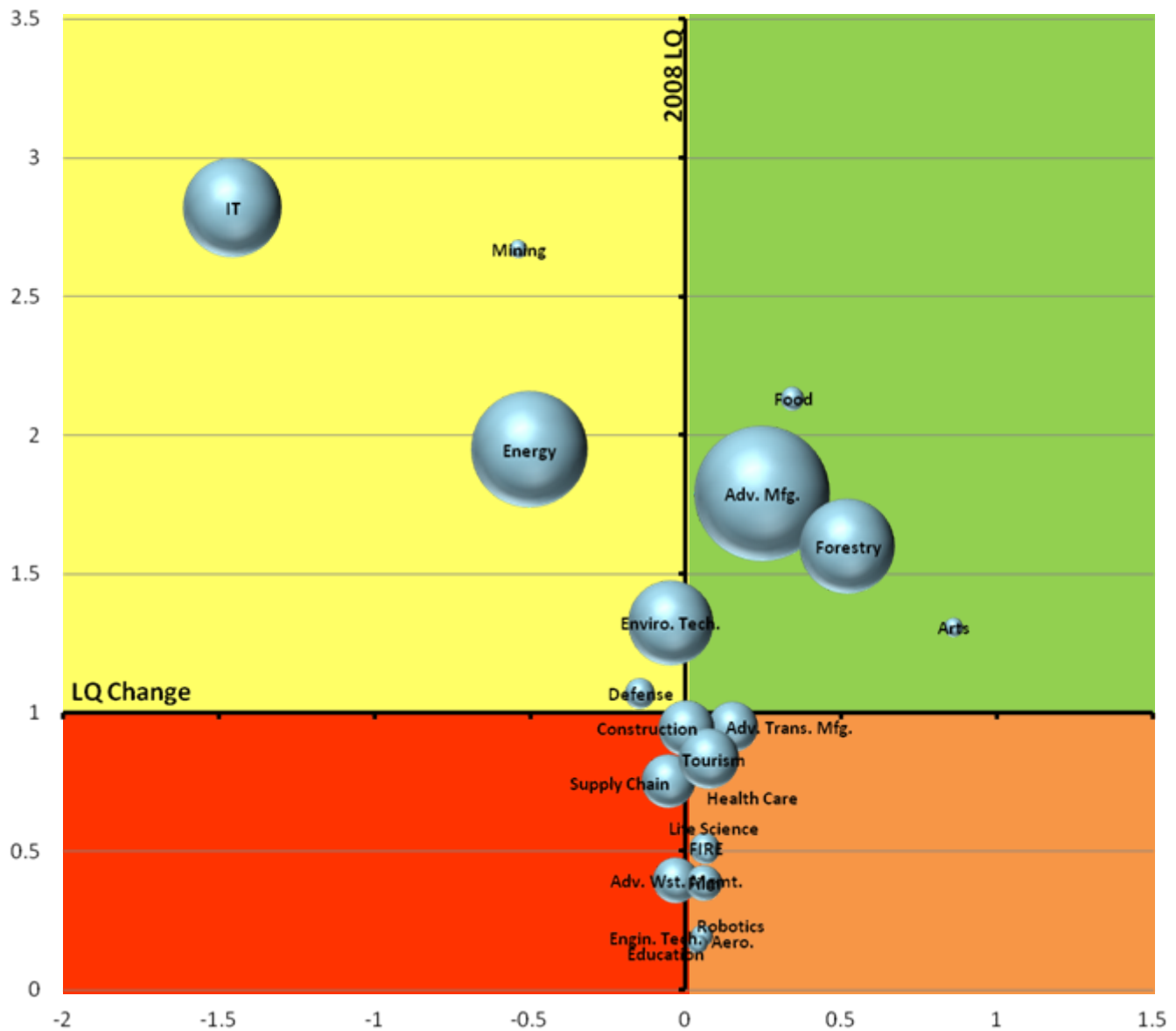
Ogemaw County Cluster LQ Chart



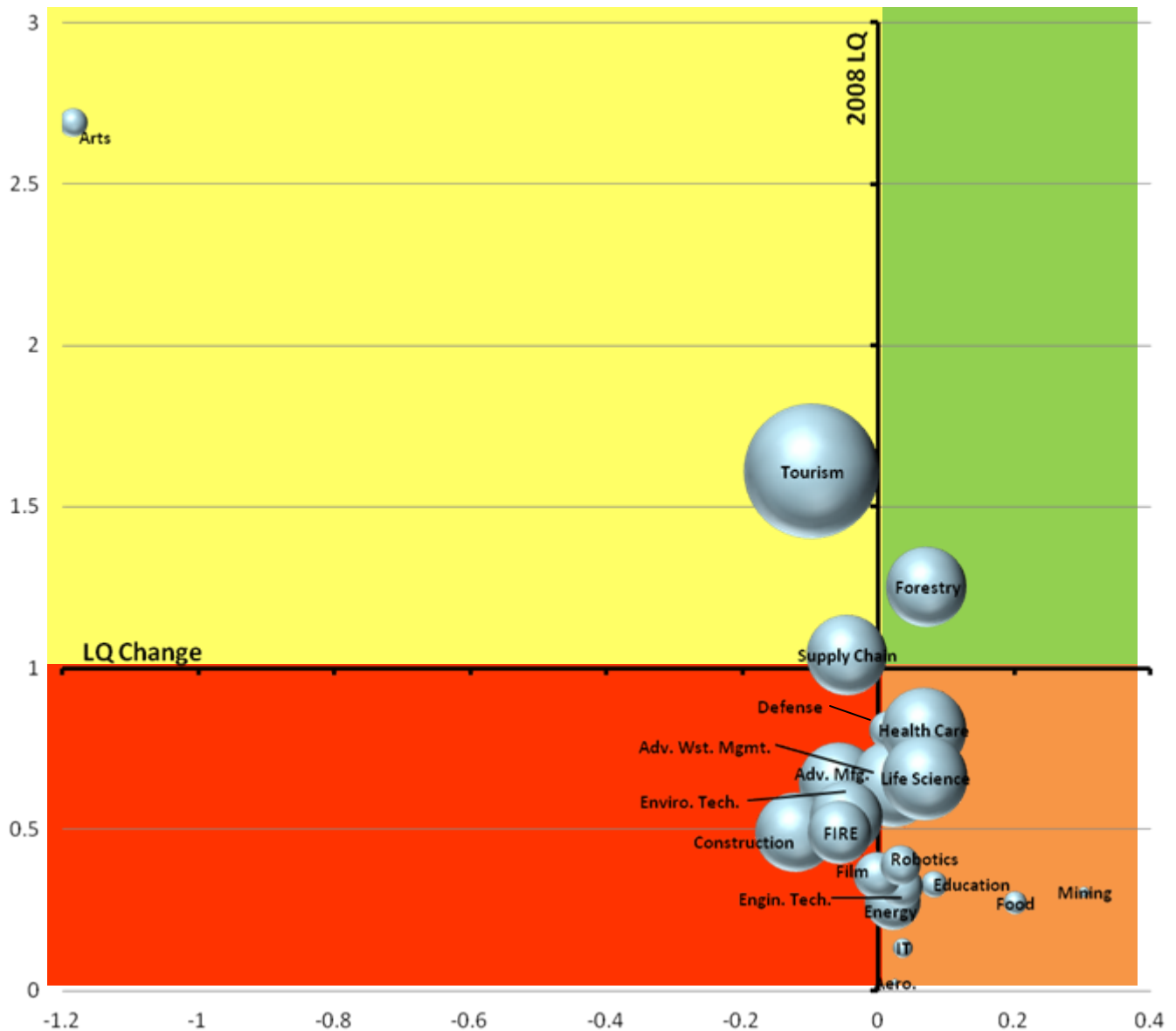
Ontonagon County Cluster LQ Chart



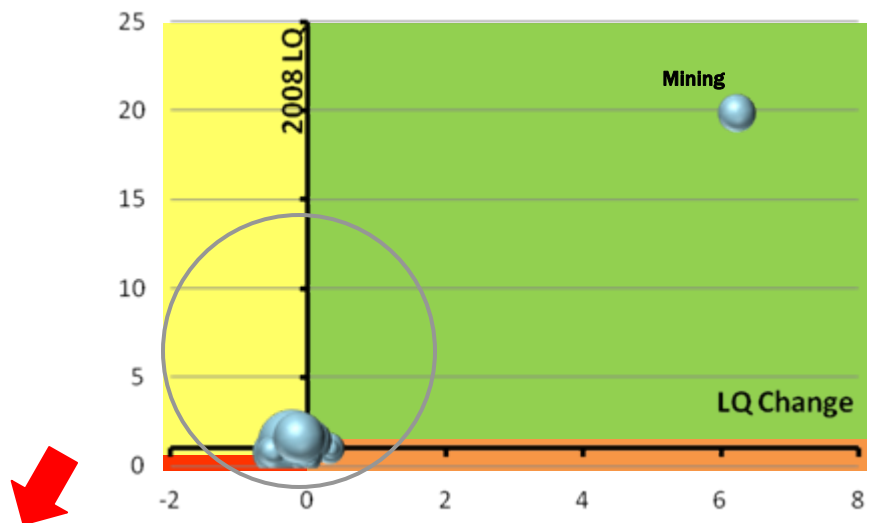
Osceola County Cluster LQ Chart



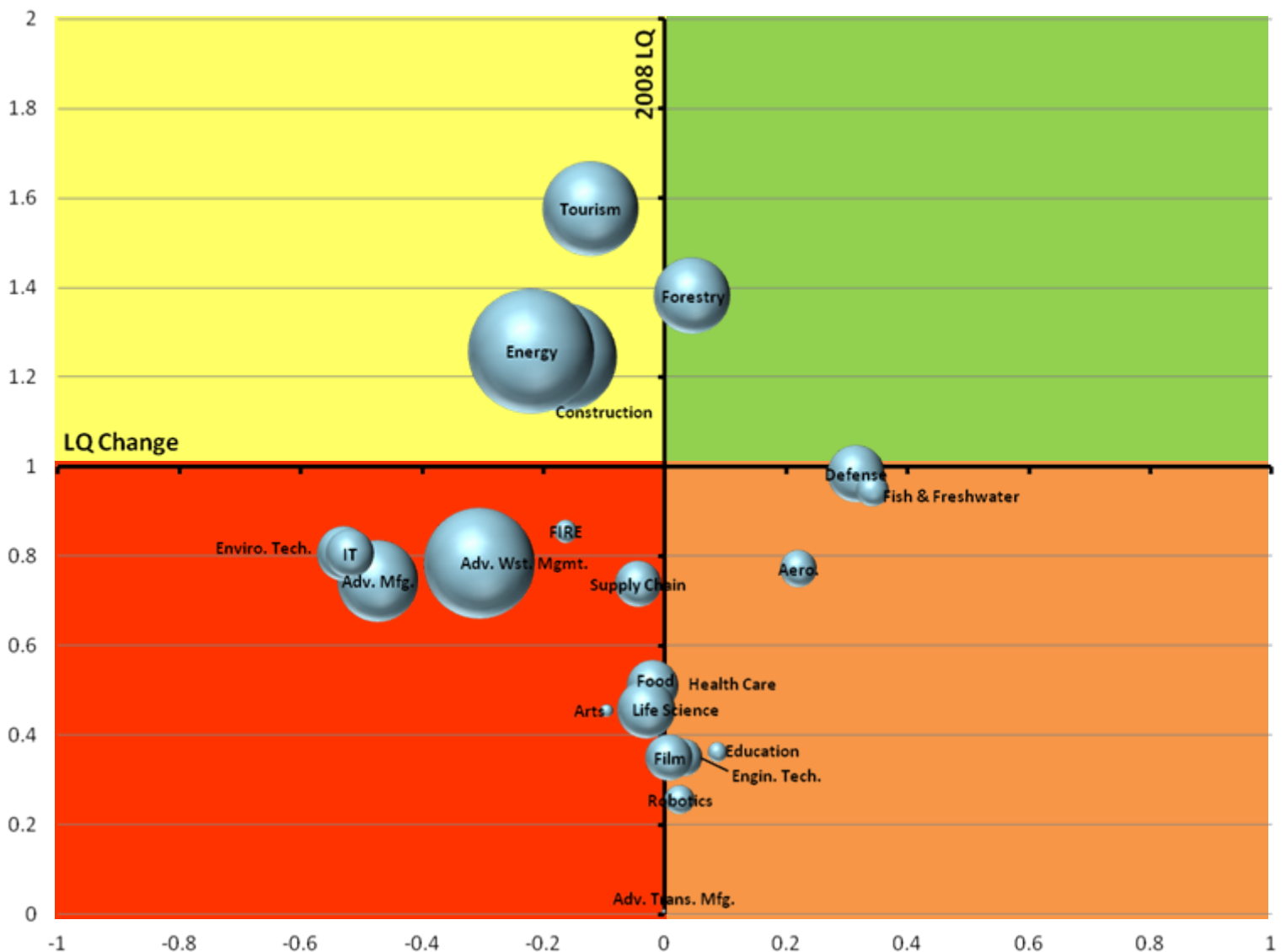
Oscoda County Cluster LQ Chart



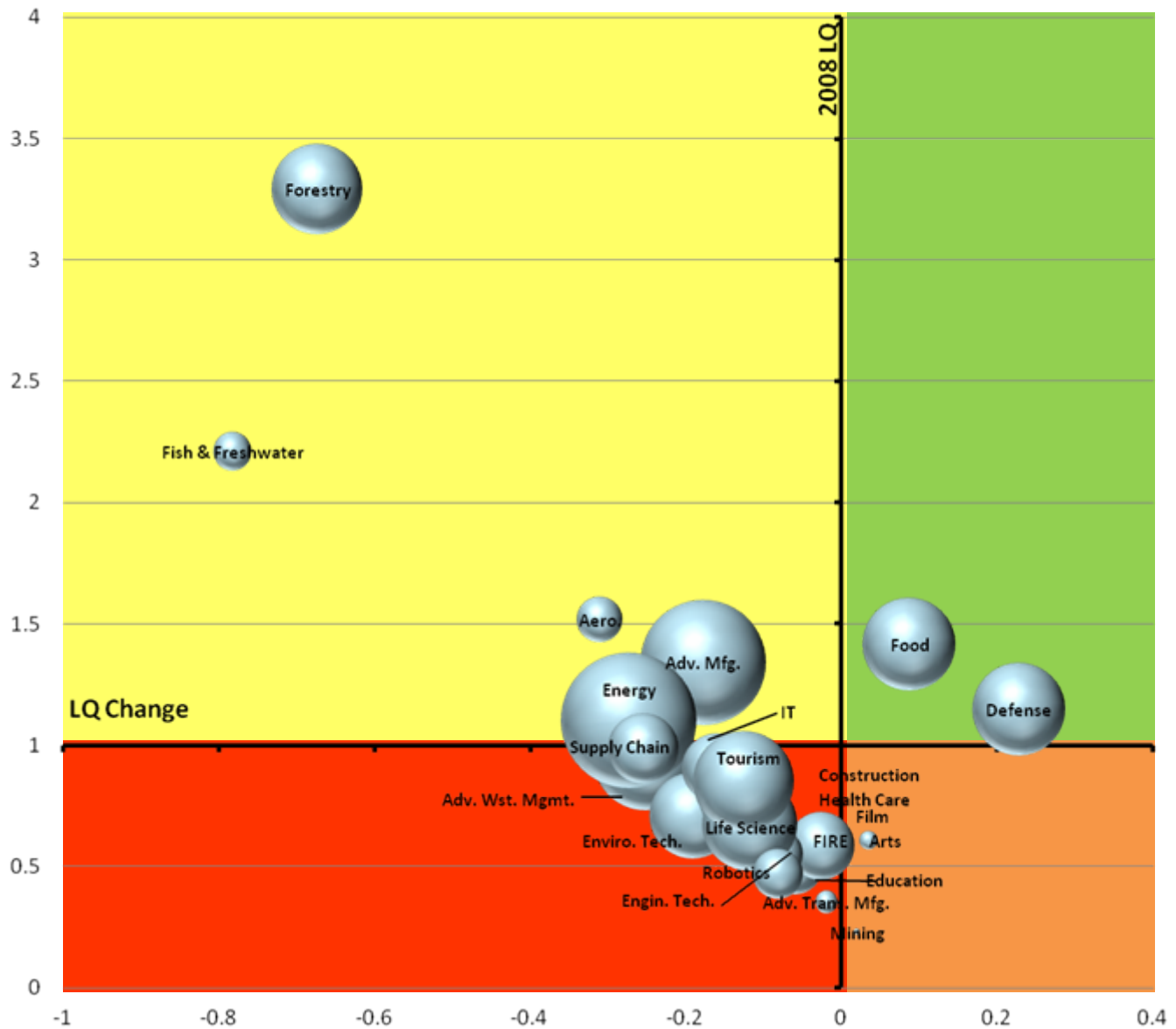
Cluster LQ Summary



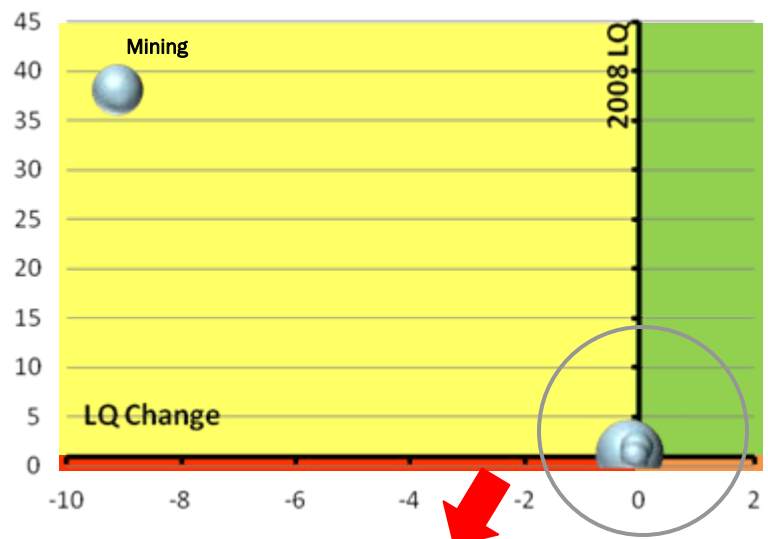
Otsego County Cluster LQ Chart



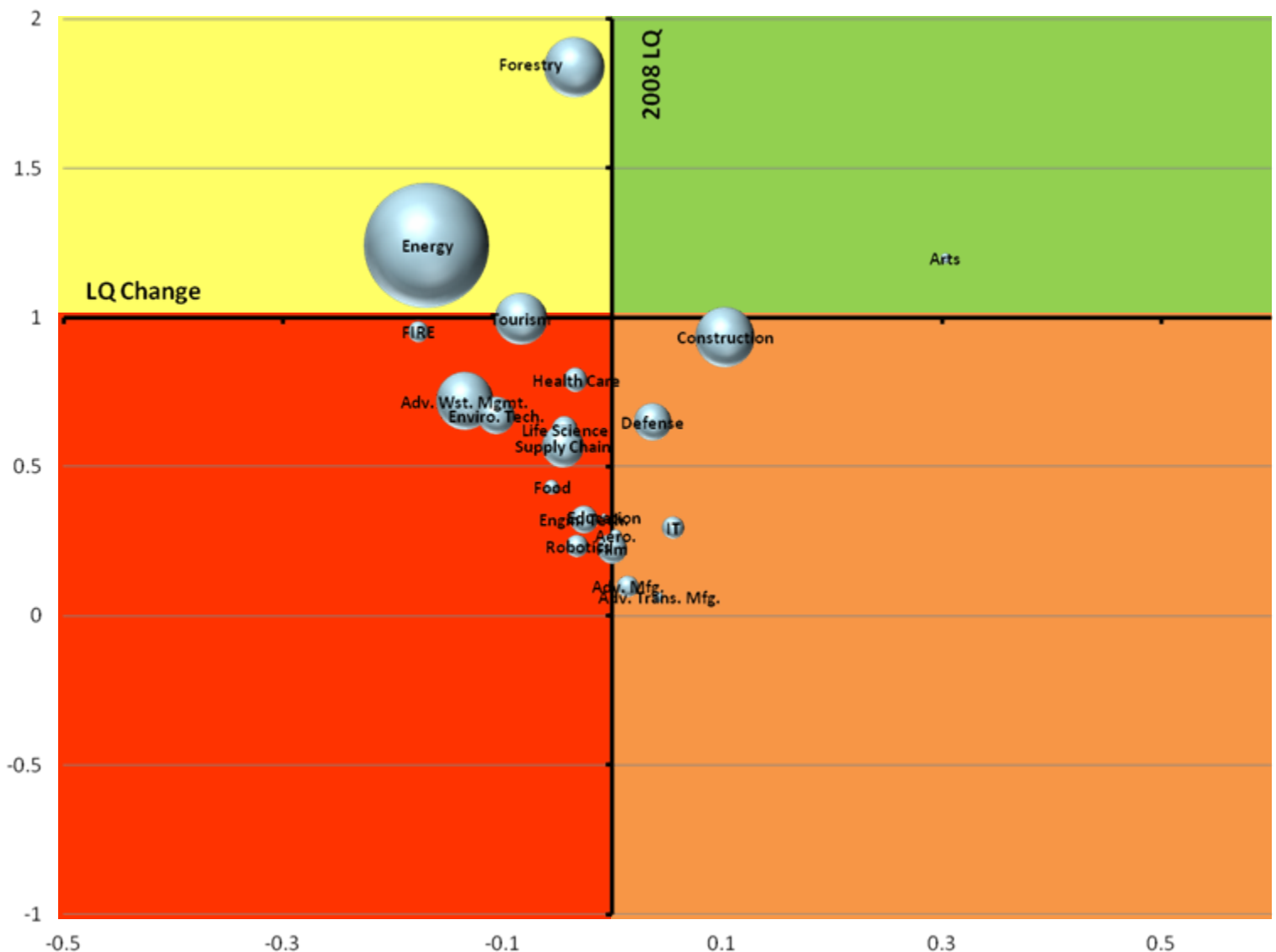
Ottawa County Cluster LQ Chart



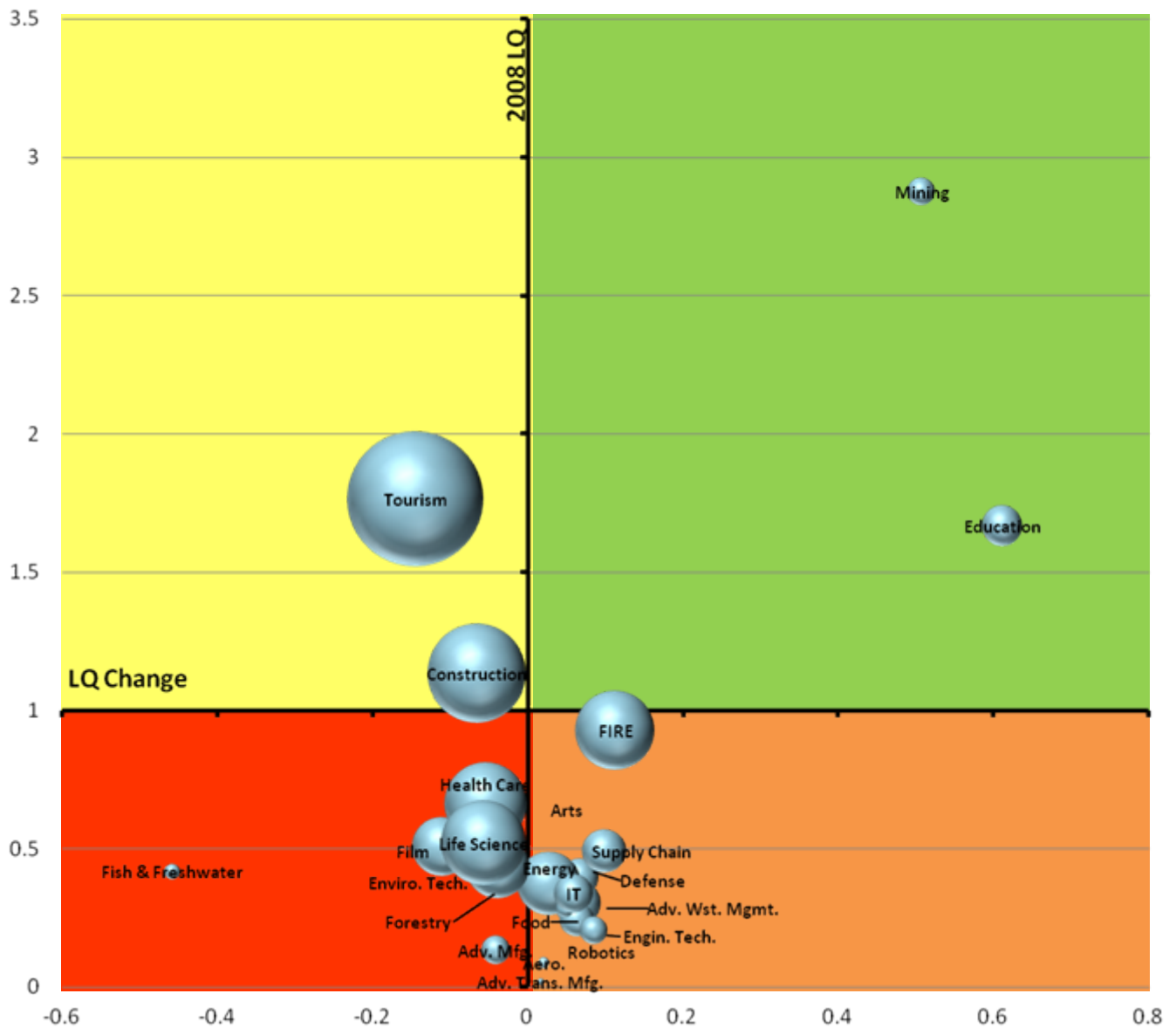
Cluster LQ Summary



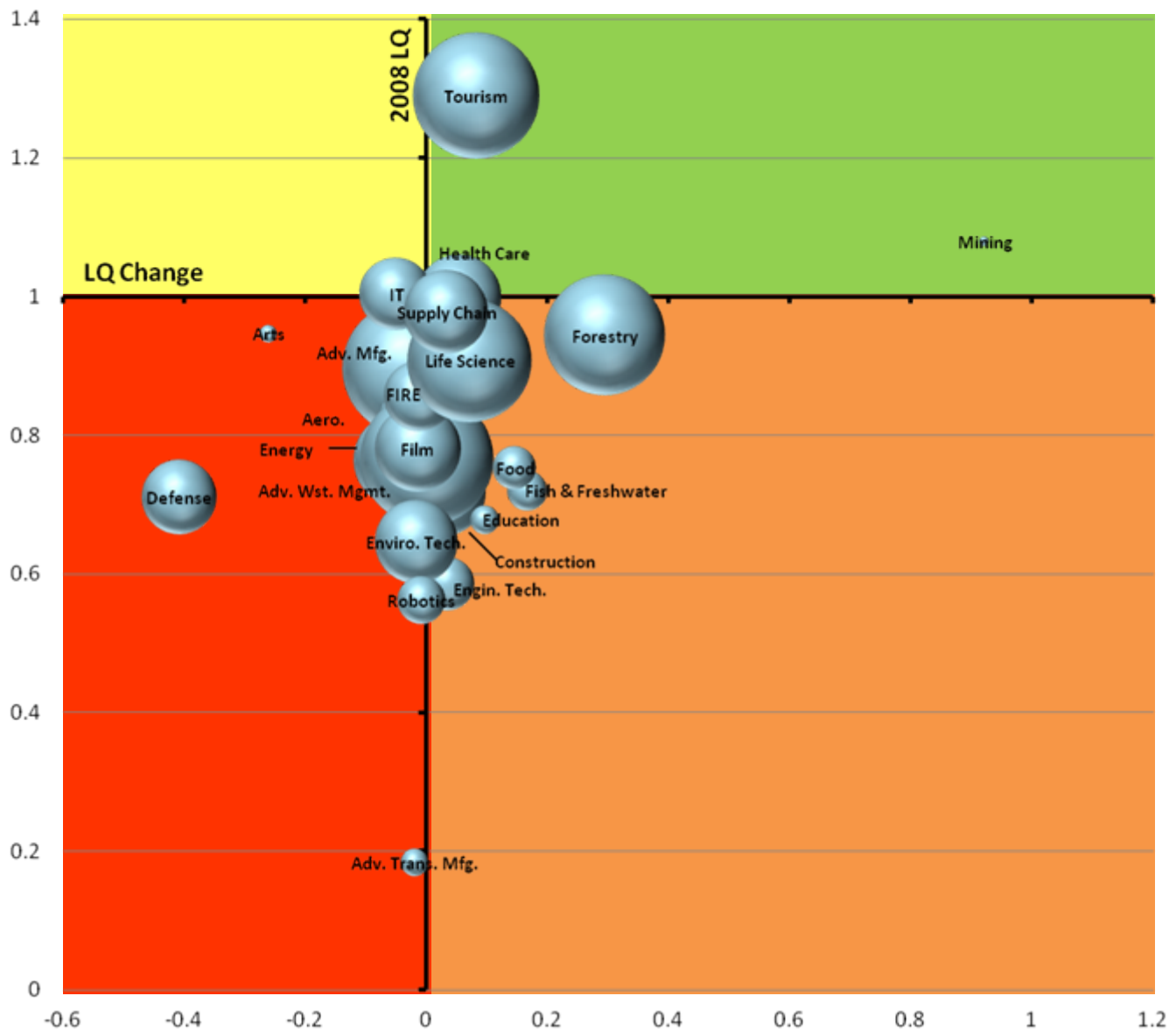
Presque Isle County Cluster LQ Chart



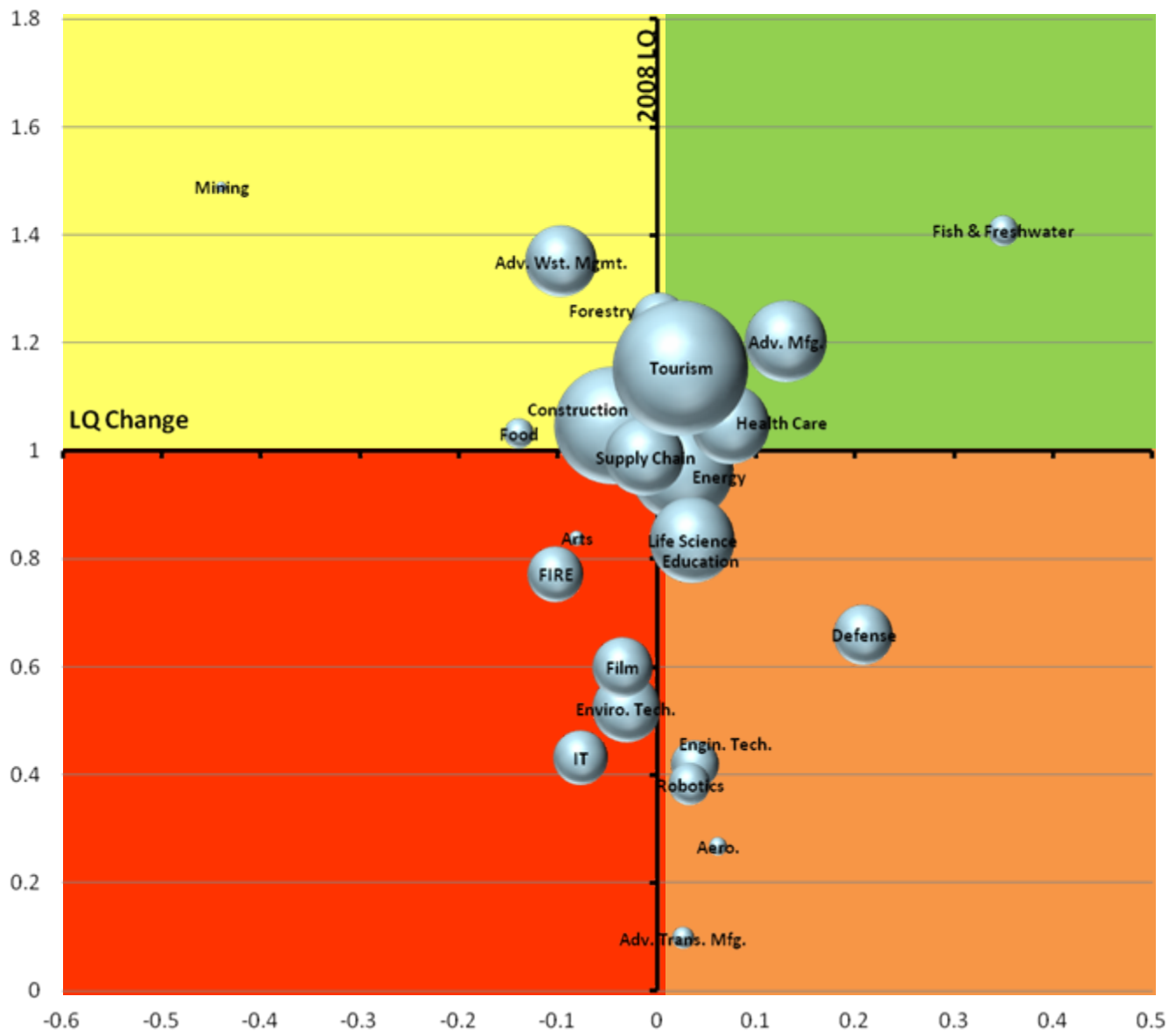
Roscommon County Cluster LQ Chart



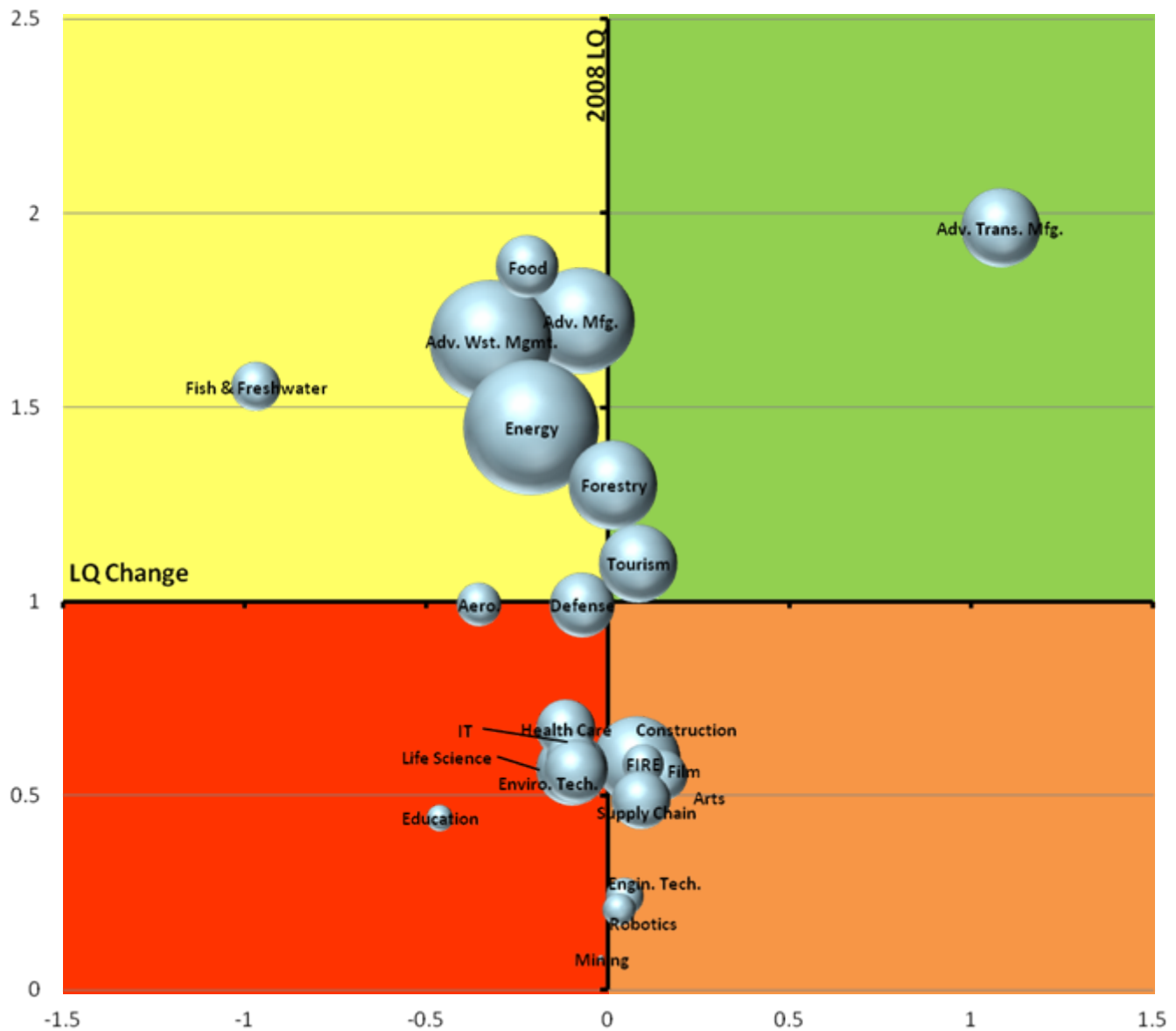
Saginaw County Cluster LQ Chart



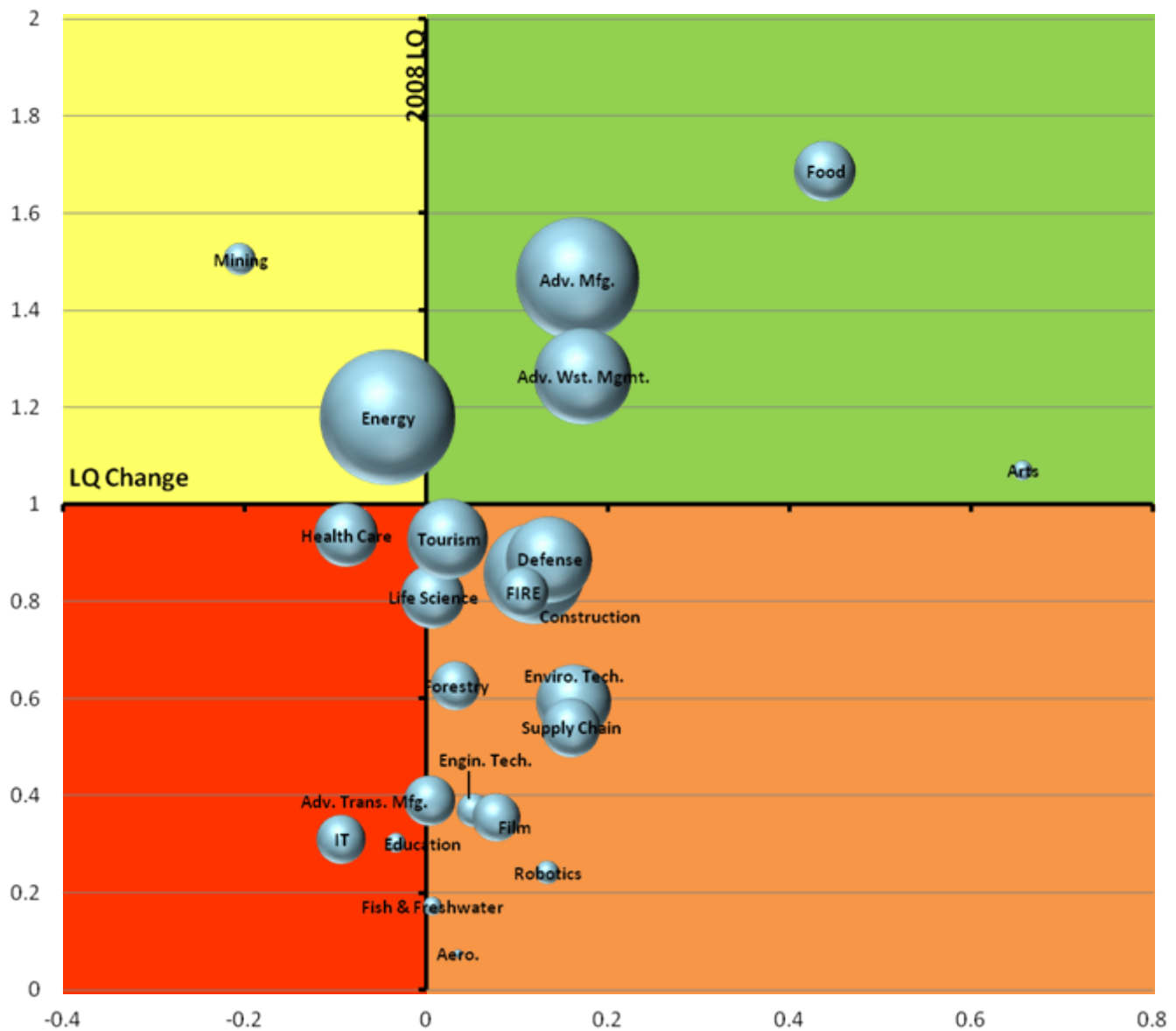
St. Clair County Cluster LQ Chart



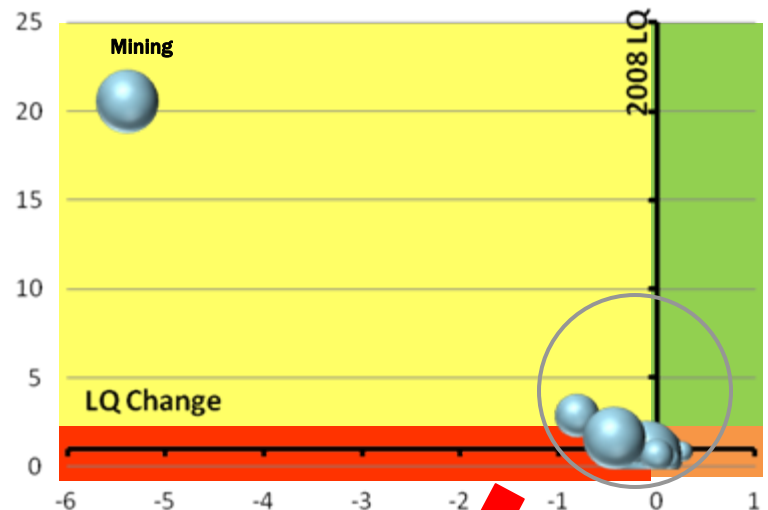
St. Joseph County Cluster LQ Chart



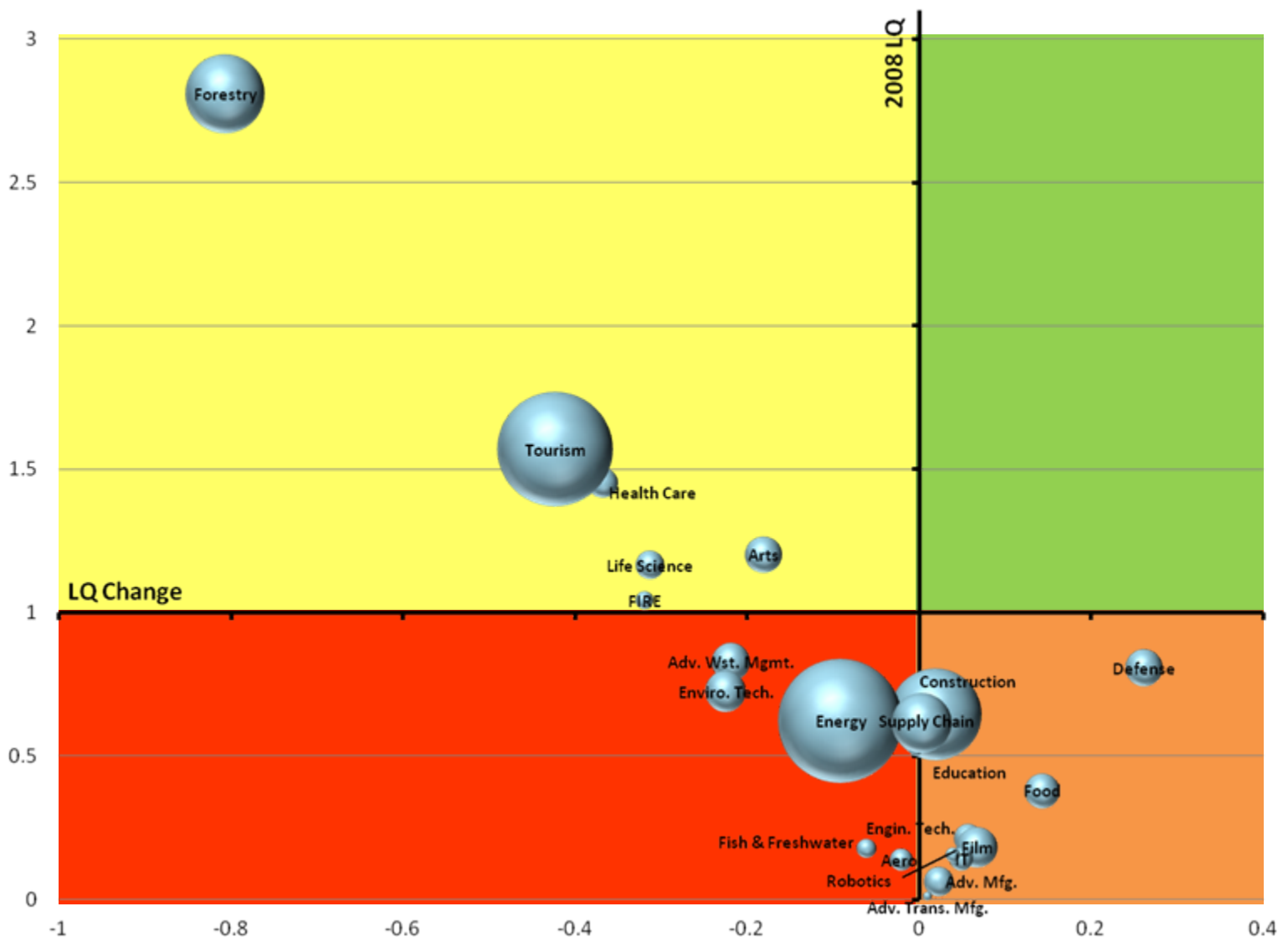
Sanilac County Cluster LQ Chart



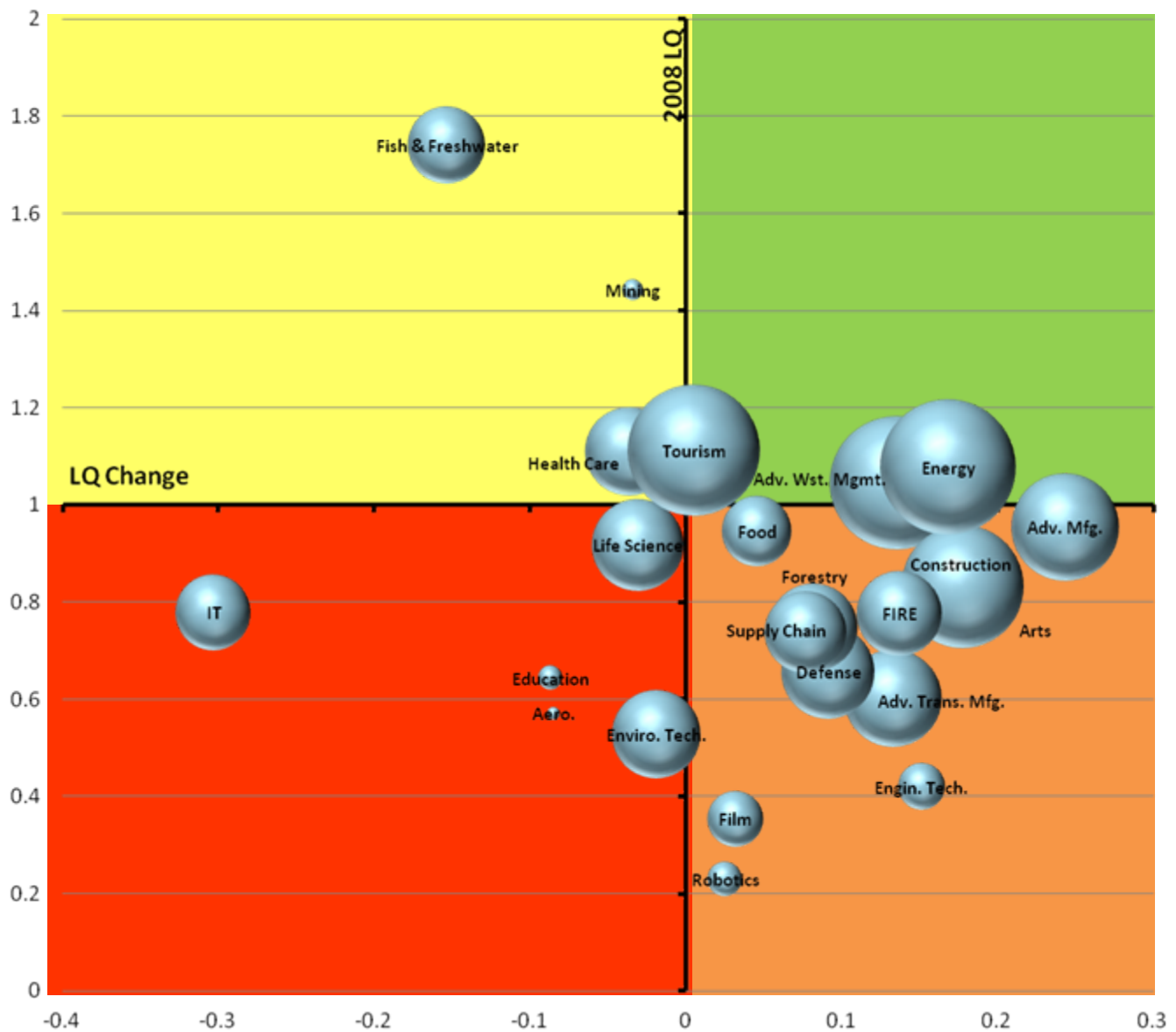
Cluster LQ Summary



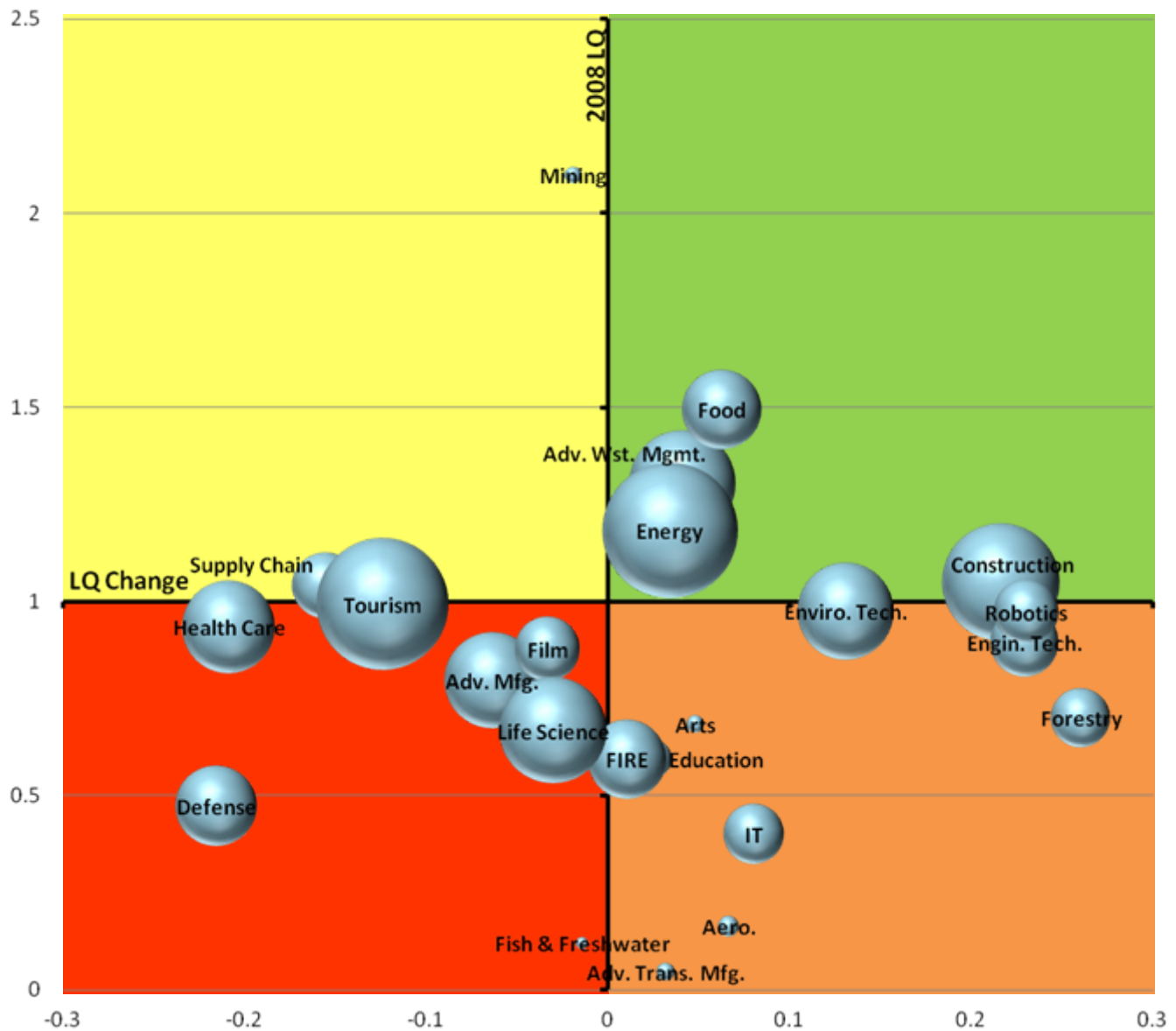
Schoolcraft County Cluster LQ Chart



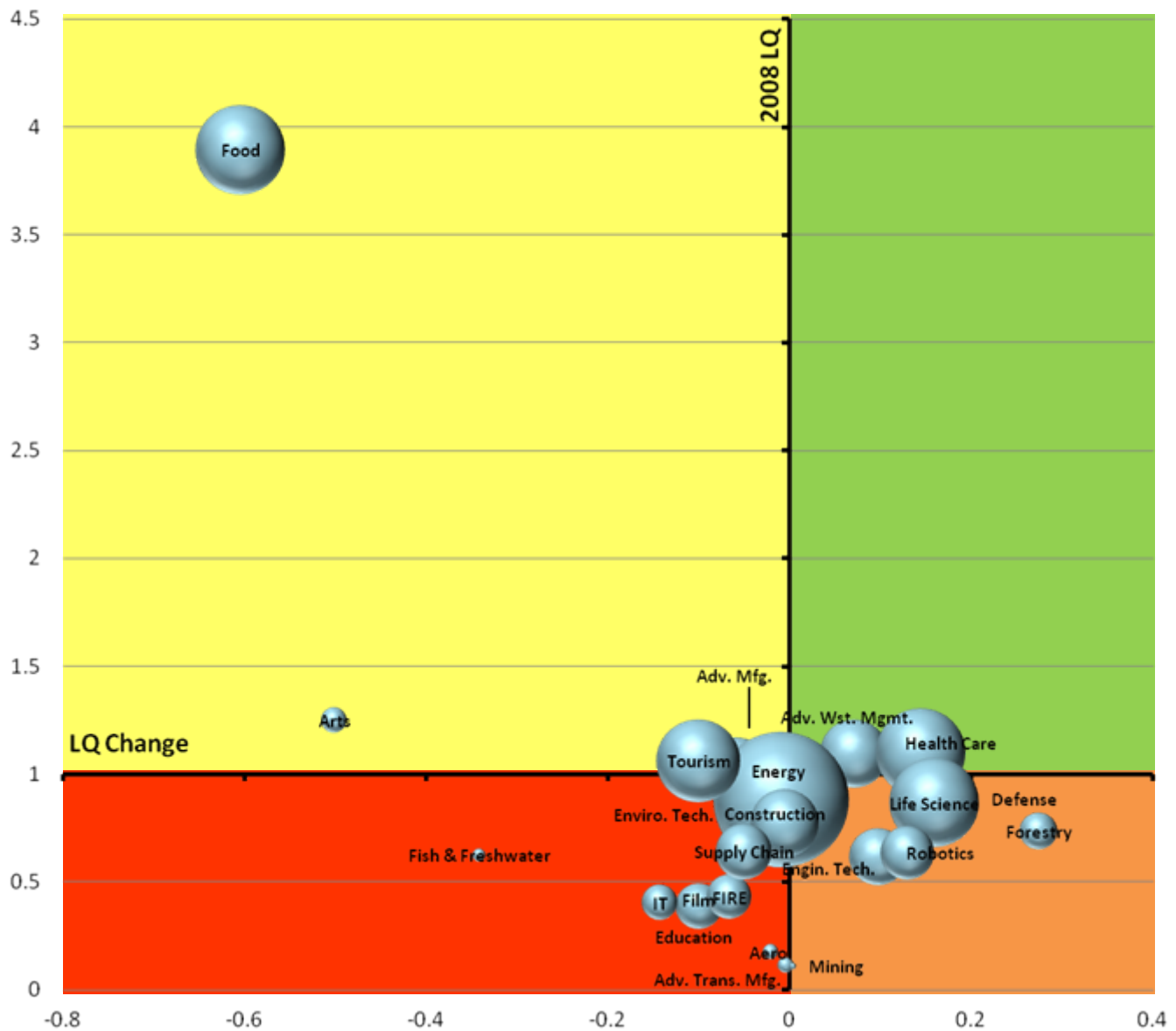
Shiawasse County Cluster LQ Chart



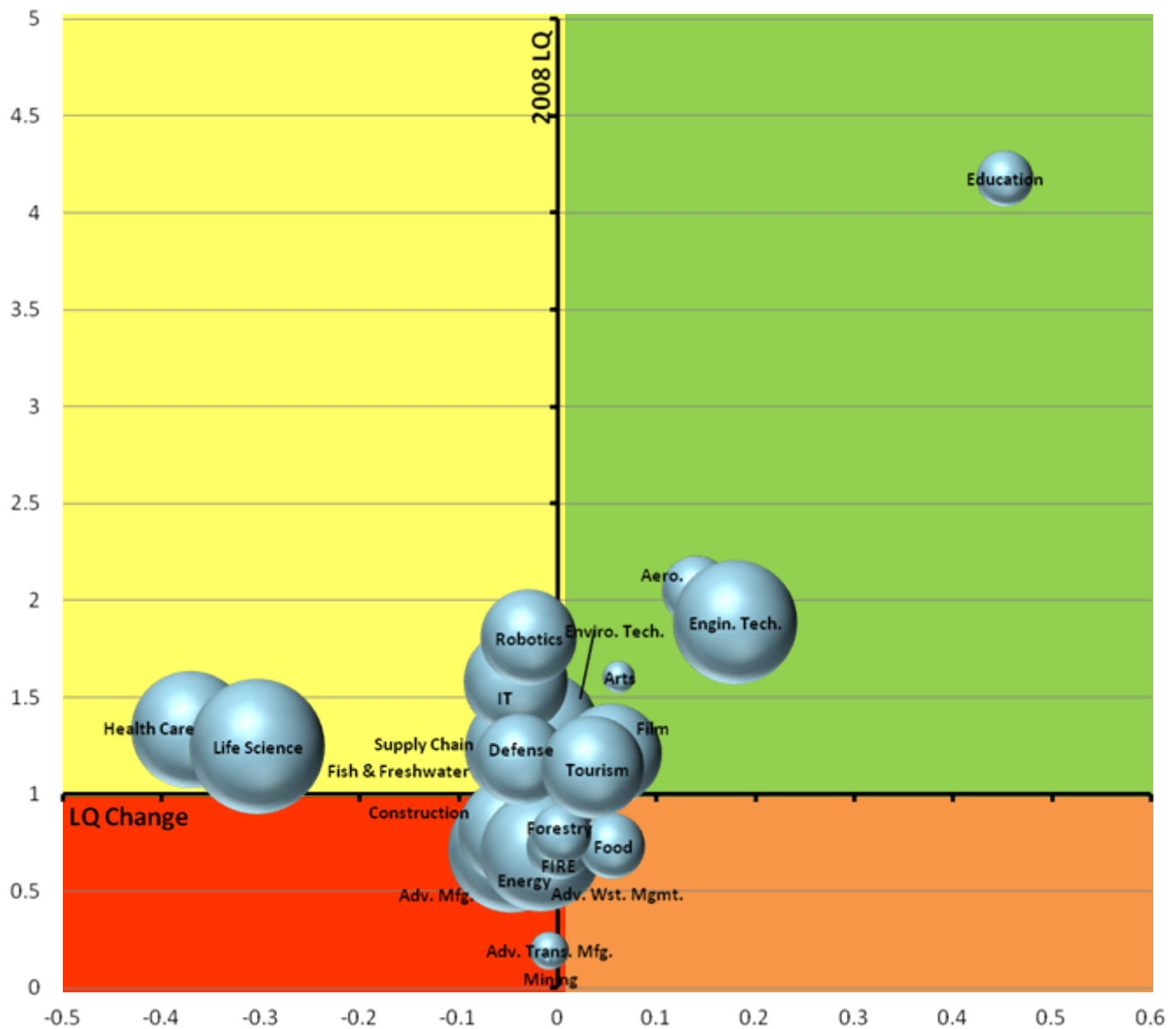
Tuscola County Cluster LQ Chart



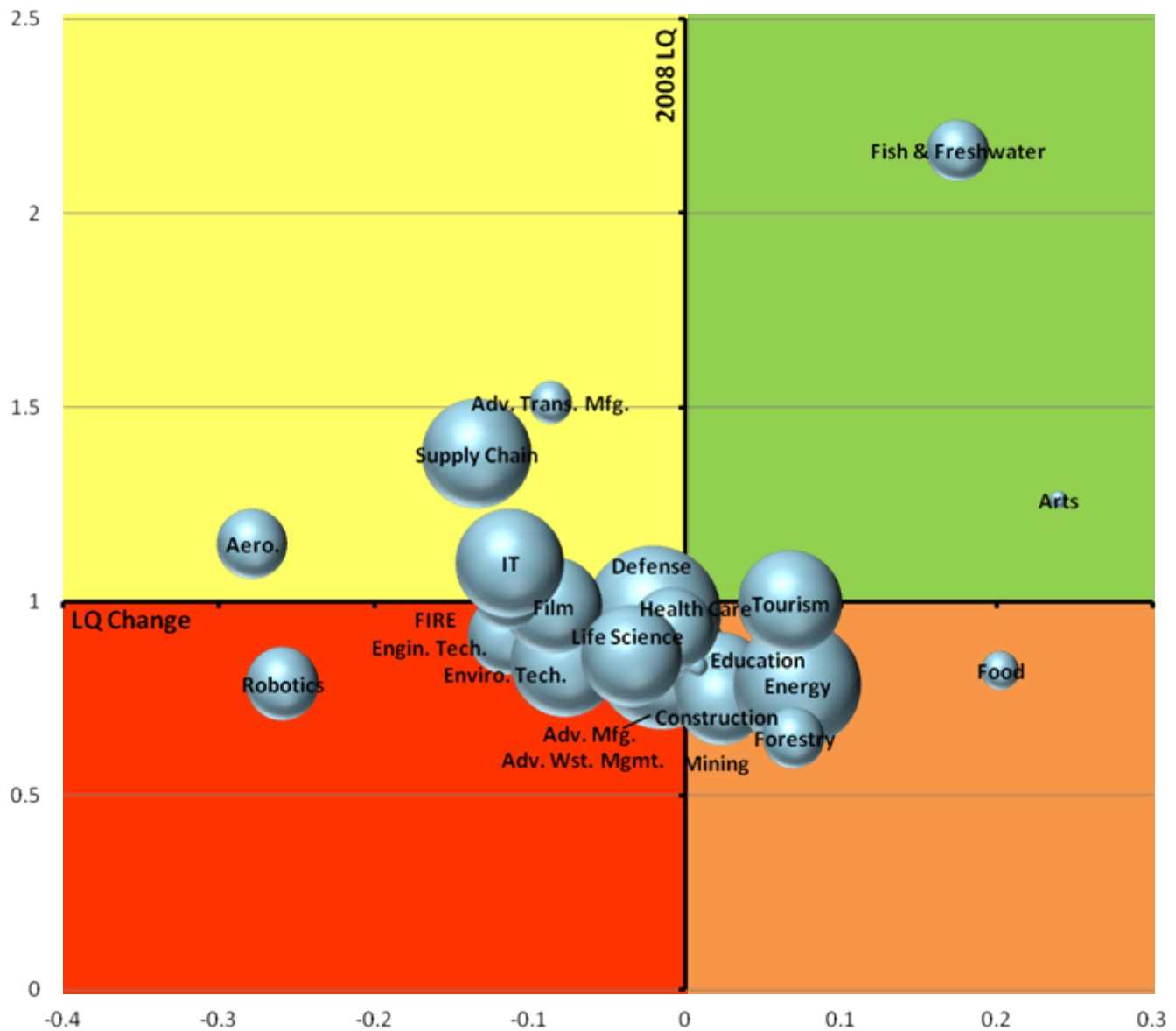
Van Buren County Cluster LQ Chart



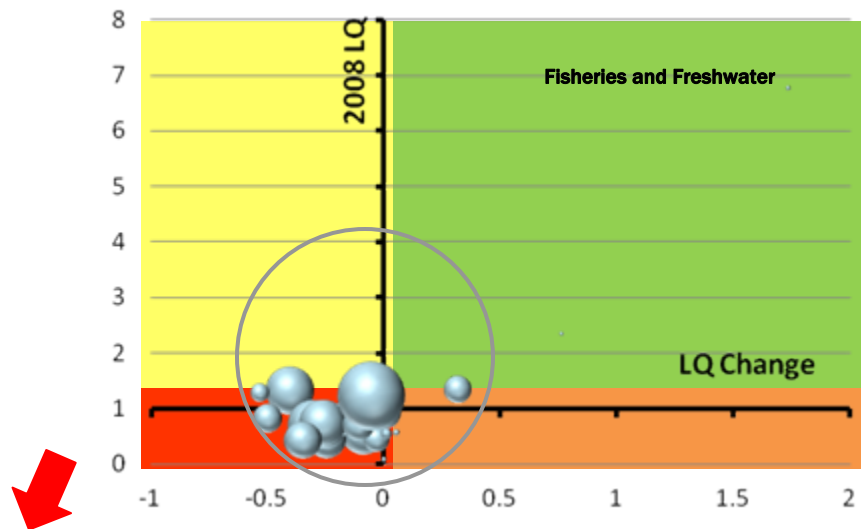
Washtenaw County Cluster LQ Chart



Wayne County Cluster LQ Chart



Cluster LQ Summary



Wexford County Cluster LQ Chart

