**Problem 2—Data Visualization Write-up**

The following figures were created using Tableau Desktop version 10.4.1, using the Brazil Soy Data obtained from the Trase platform (<https://trase.earth/data.html>: accessed 5 Dec 2017) and the Brazil municipalities shape file linked to in the assignment instructions. The workbook has been published to Tableau Public at this [URL (ctrl-click)](https://public.tableau.com/profile/christopher.ivan#!/vizhome/SEI_0/Figure1?publish=yes), and the figures display as separate tabs. The workbook itself has been submitted with the other problem sets as well.

**Figure 1.** Top 5 Importing Countries of Brazilian Soy. A line graph used to obtain the top 5 importers of Brazilian soy as a set for later filtering of data.

**Figure 2.** Top 5 Exporting Companies of Brazilian Soy (with Domestic Consumption for comparison). A line graph used to obtain the top 5 exporters as a set for later filtering of data.

**Figure 3.** Brazilian States and 5 Largest Importers, by Volume of Soy Import/Export, 2010-2014. A time-series map showing how volumes of soy (tons) for the Brazilian states and for the top 5 importers (China, Netherlands, Spain, France, Thailand) have changed by year.

**Figure 4.** Soy Production by Municipality, 2010-2014. A time-series map that makes use of the municipality shapefile data to show finer granularity in soy production volumes in Brazil by year.

**Figure 5.** Soy Production for Top 5 Exporters, to Top 5 Importing Countries, and Deforestation (by State). A pie chart detailing the changes in volume of production and sourcing by Brazilian state, restricted to data for the top 5 exporting companies and top 5 importing countries (by volume of soy). Also changeable by year.

**Figure 6.** Volume of Soy via Top 5 Importers to Top 5 Countries, by State. A bar chart displaying the per-state contributions of soy to the top 5 exporters by volume of soy. Data are restricted to the top 5 importer countries as well, and summed across the years 2010-2014.