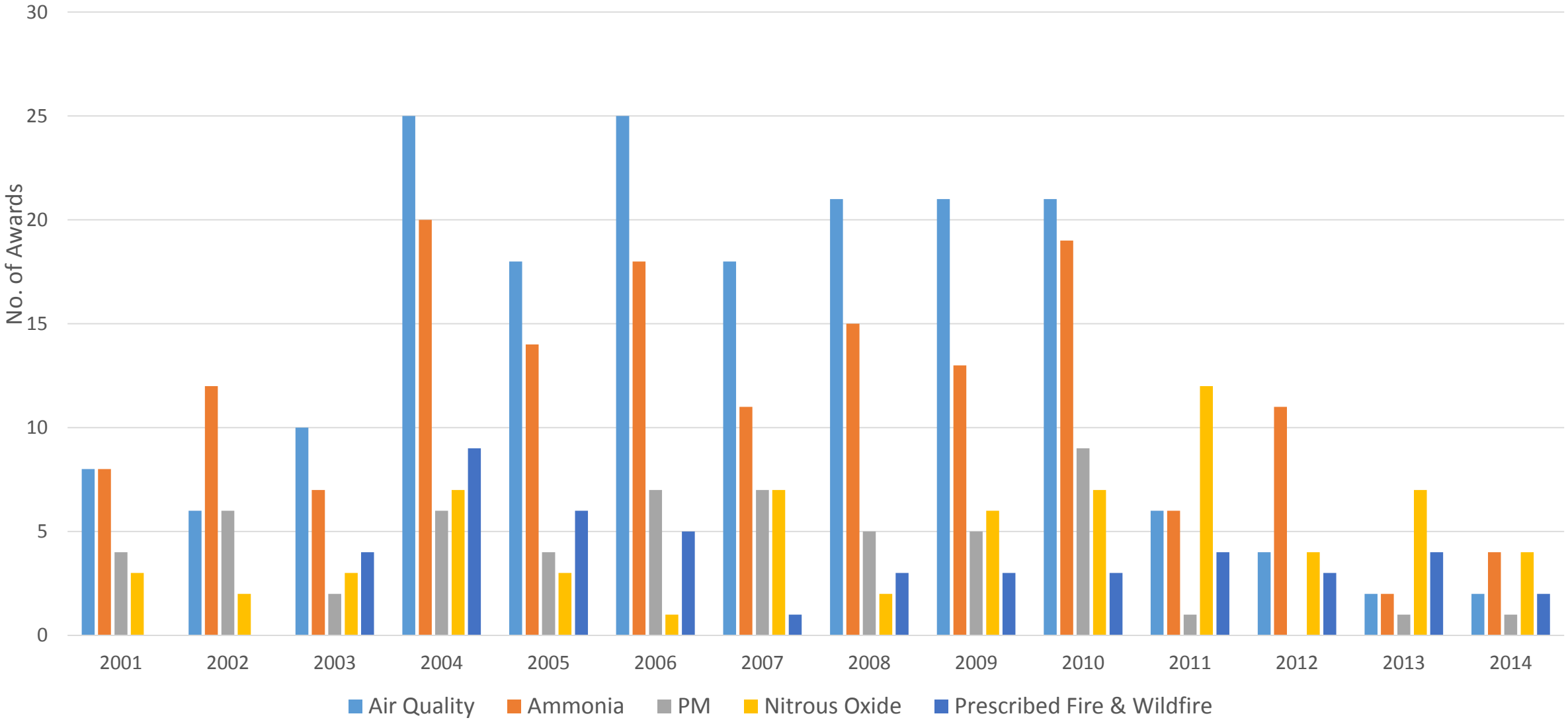
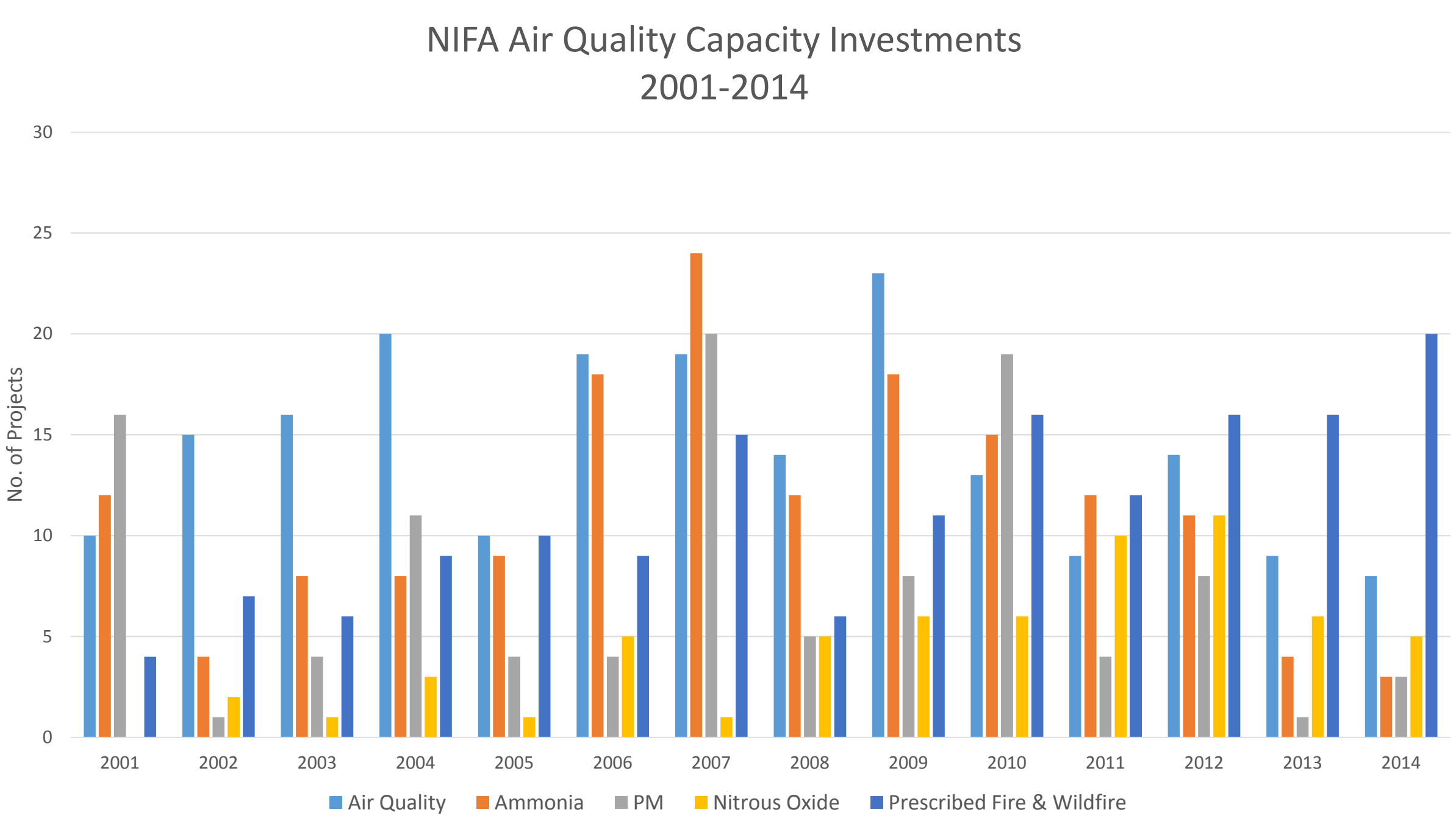
NIFA Air Quality Competitive Investments 2001-2014




NIFA Air Quality Capacity Investments
2001-2014
No. of Projects
30
25
20
15
10
5
0
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
Air Quality
Ammonia
PM
Nitrous Oxide
Prescribed Fire & Wildfire

NIFA Air Quality Investments 2001-2014

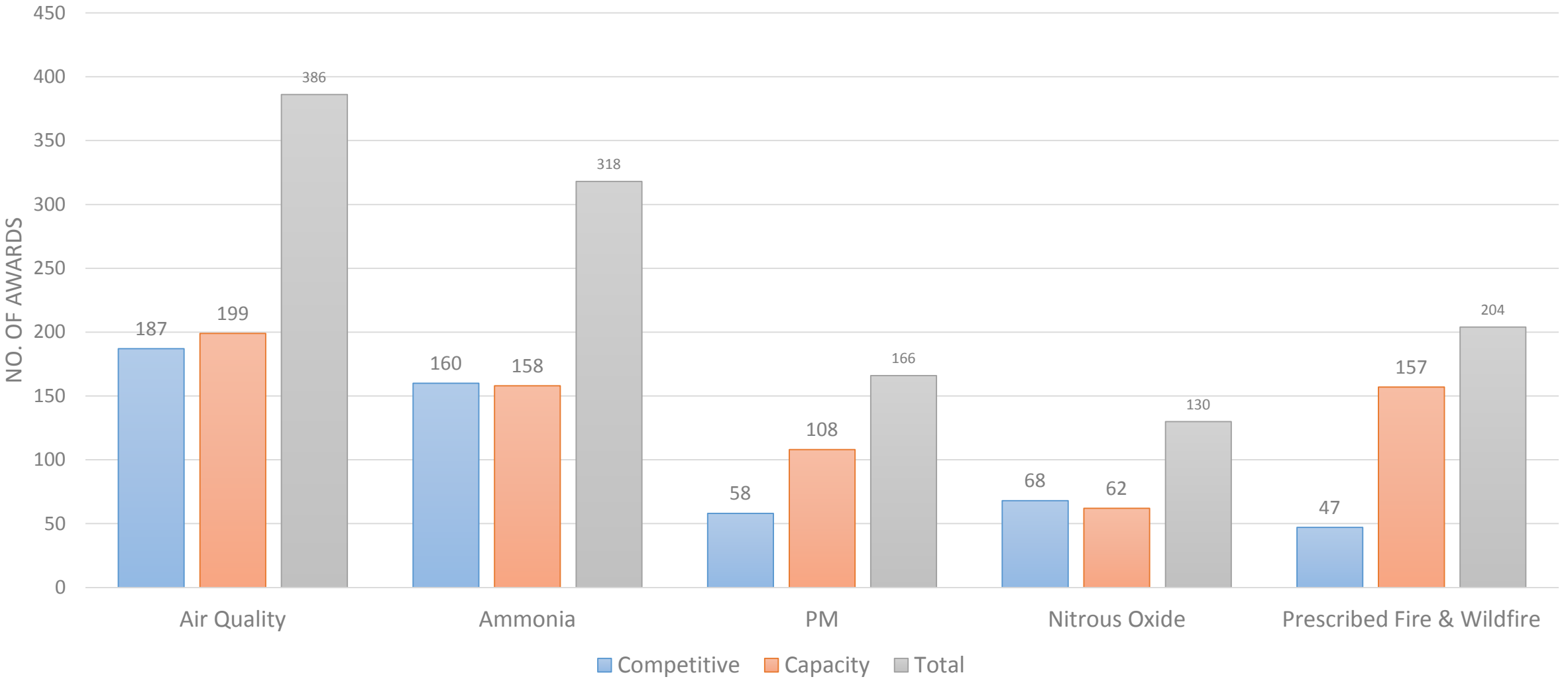
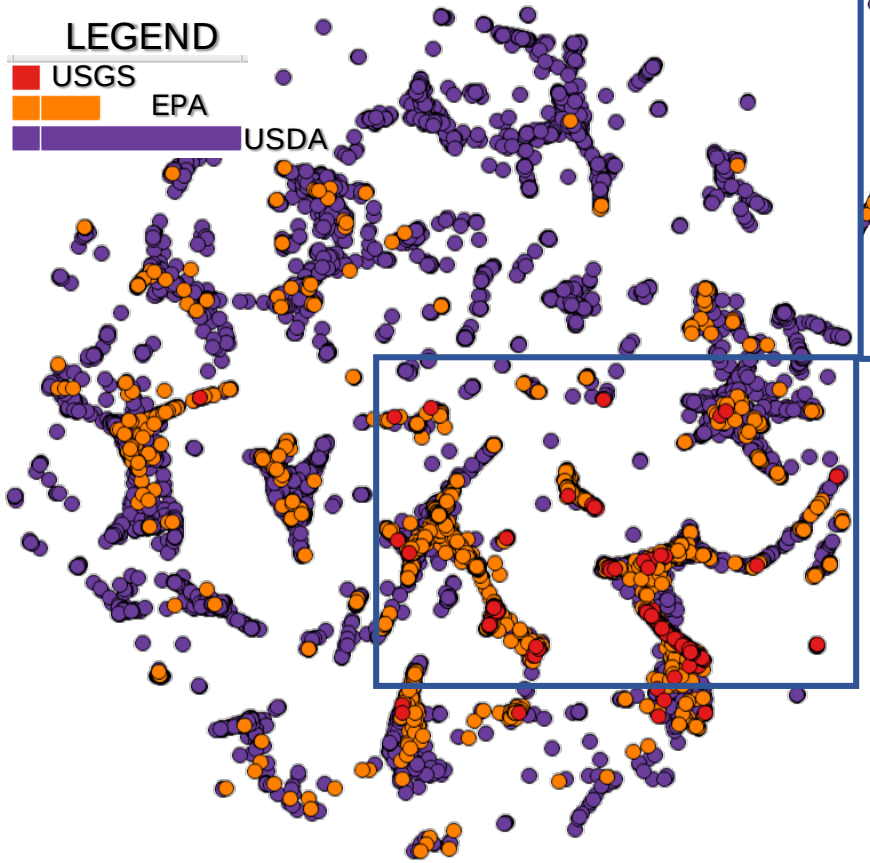
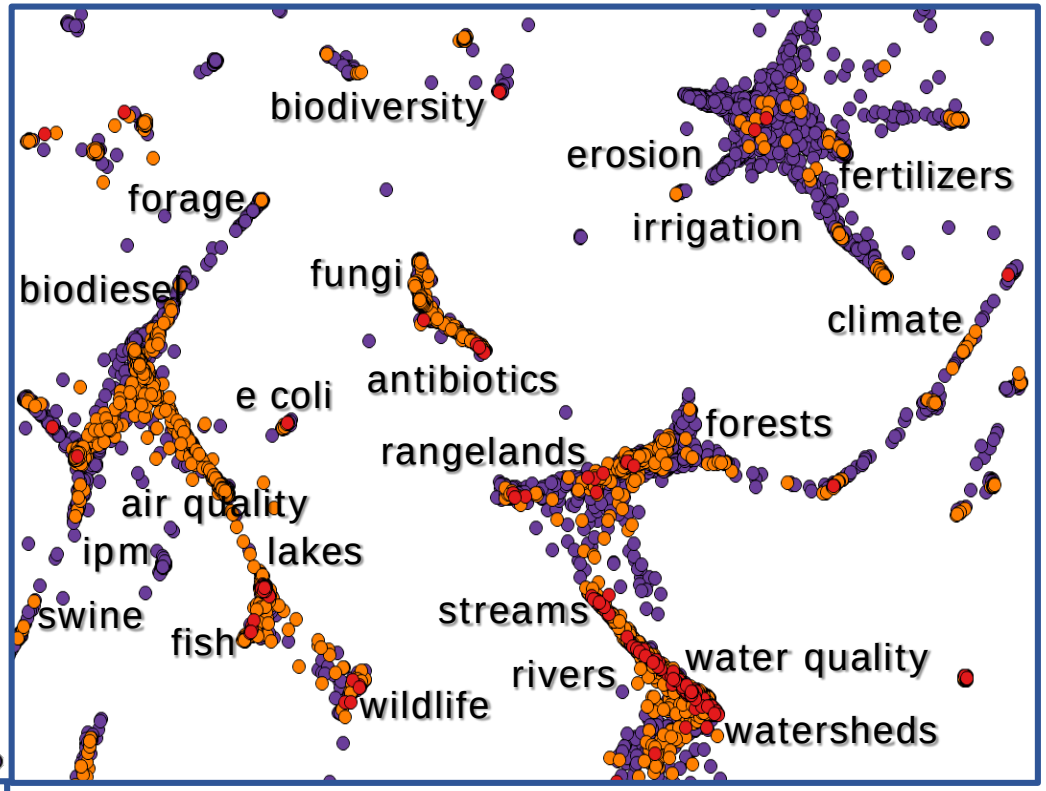


Figure 4. MAPPING NUTRIENT RELATED SCIENCE FUNDED BY USDA, EPA, AND USGS.

Topic modeling was performed on a database of over 20,000 discrete documents related to nutrient science supported by USDA, EPA, and USGS using Pushgraph™. Each document is represented by a colored circle below and is described by topics or the coocurrence of words in the document. A science map of the documents was created by placing documents with similar topics next to each other.





A closer look at the interagency science map above reveals the linkages between science subject matter/topics and the science strengths of each agency. For example, erosion of nutrients is closely associated with fertilizers and irrigation indicating a linkage between those topics. The science in this area is heavily dominated by USDA. USGS investments are largely in water quality aspects of streams, rivers, and watersheds. EPA and USDA have also invested in water quality issues. Visualizing science investments in this way allows identification of interrelationships between the science and the ability to identify potential scientific gaps.