

Current Agricultural Projection Methods

Agricultural Workgroup 02142013

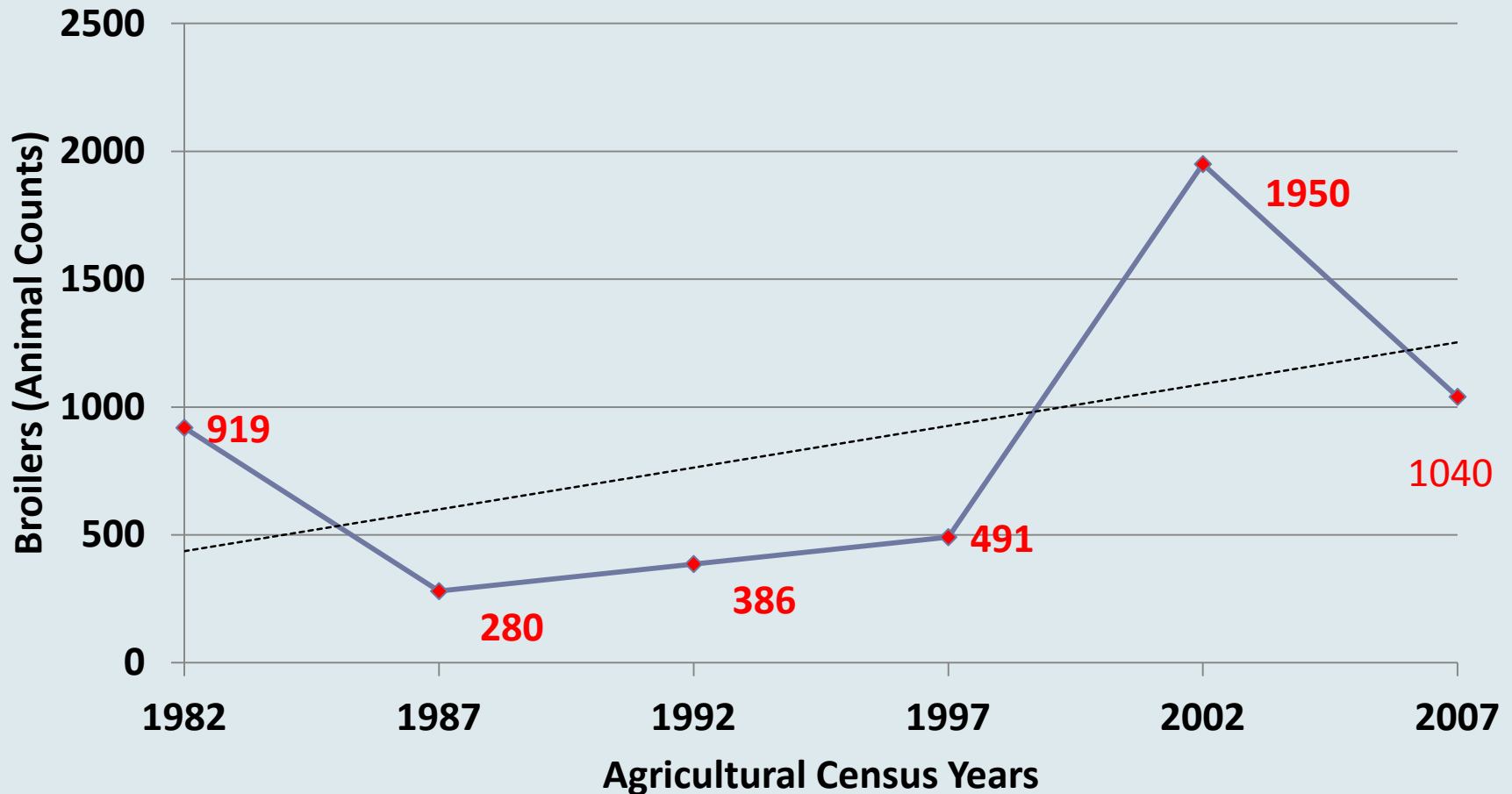
Matt Johnston

Chesapeake Bay Program Non-Point Source Data Analyst
University of Maryland

Current Projection Method

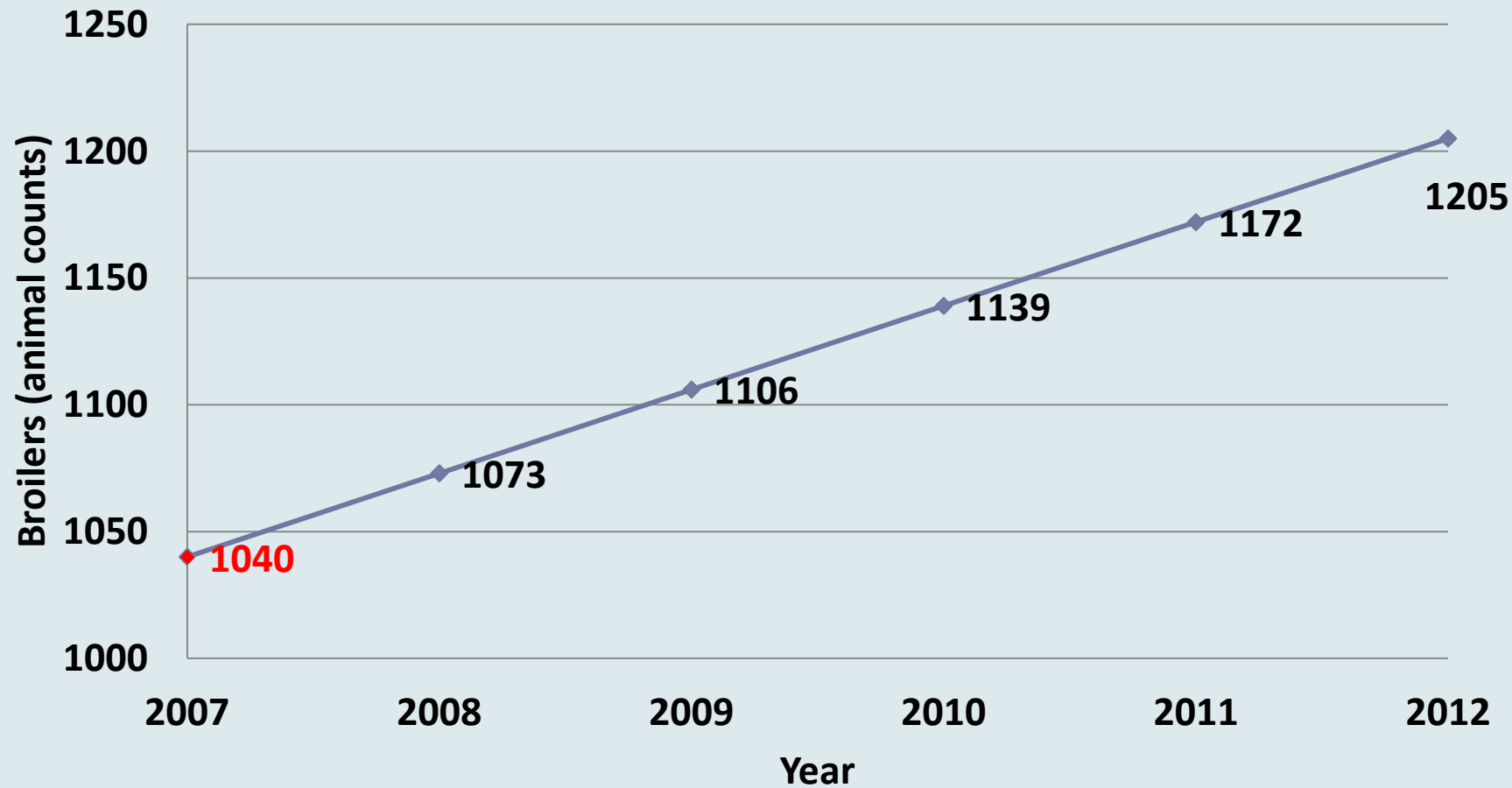
- Data beyond 2007 is projected using a straight line regression. The trend (slope) for each county for each animal type or crop harvested is calculated using all Ag Census years, and this slope is applied to the most recent Ag Census year to project future animal populations and crop acres.

Broilers in County X according to Agricultural Census

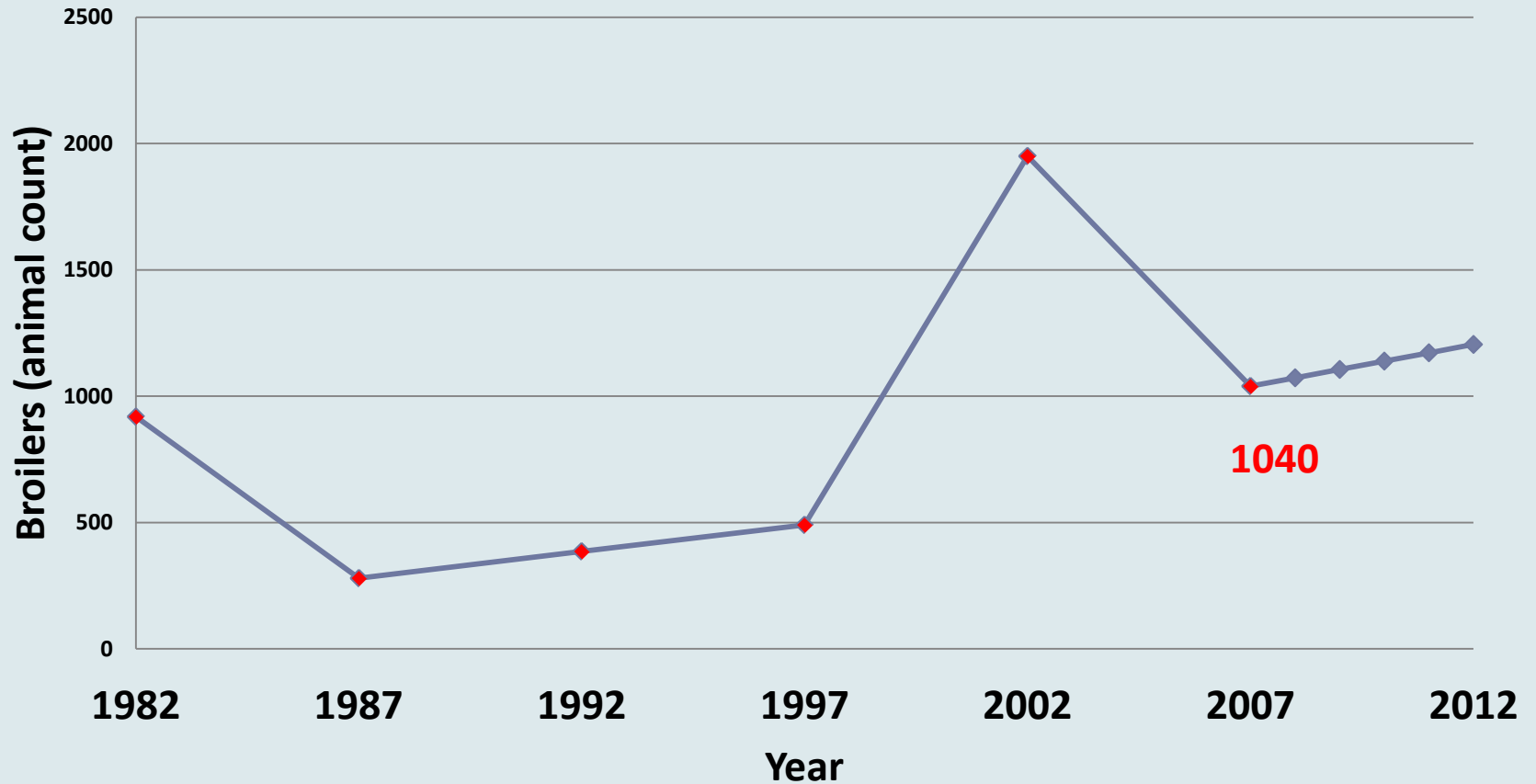


Slope of trend line shows an average annual increase of 33 broilers.

Broilers in County X Projected for 2008 through 2012



Broilers in County X from 1982 through 2012



Next Steps

- Working with USDA-ERS to “downscale” the national agricultural projection to the Chesapeake Bay region.
- Would like to bring the results of this downscale analysis back to the Agricultural Workgroup this spring.
- Suggestions for other projection methods are welcome.