Lancaster County, PA

(Place holder) The following information provides details about various nitrogen inputs to the watershed for Lancaster, PA to help stakeholders identify the specific sources they need to control and understand how these sources have changed over time.

The largest nitrogen sources within catchment are tied to argiculture.

Livestock waste has increased over the period of record, whereas fertilizer use declined after 2002.

Point Source Loads and atmospheric N deposition have also declined.

Nitrogen use efficiency increased over the period of record due to increases in N crop removal and decreases in fertilizer input.

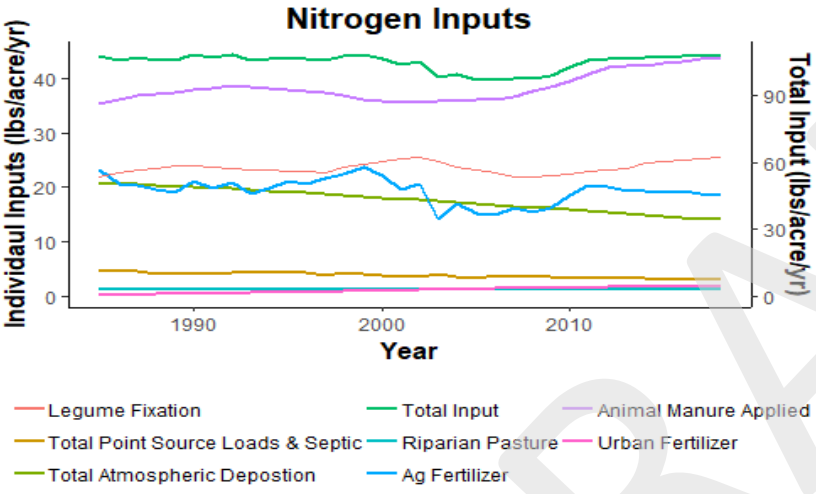

Figure 1. Time series of nitrogen inputs onto land and point source loads into streams from 1985 – 2018.

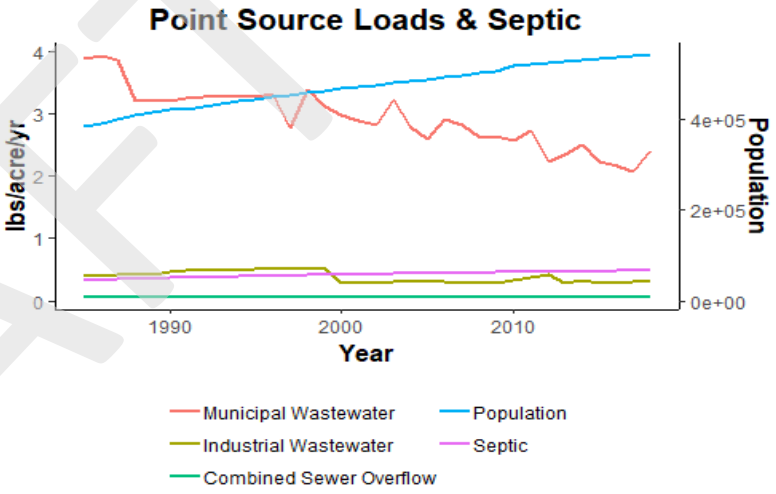

Figure 2. Various components of point source loads into rivers and streams

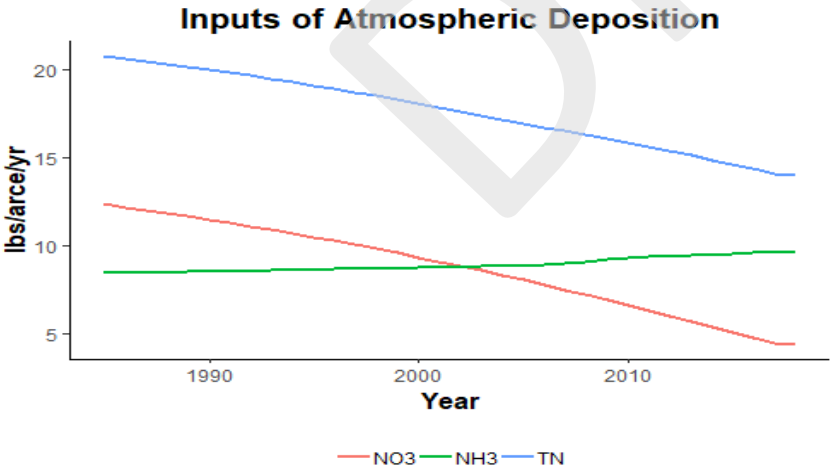

Figure 3. Time series of climate adjusted rates in atmospheric N deposition.

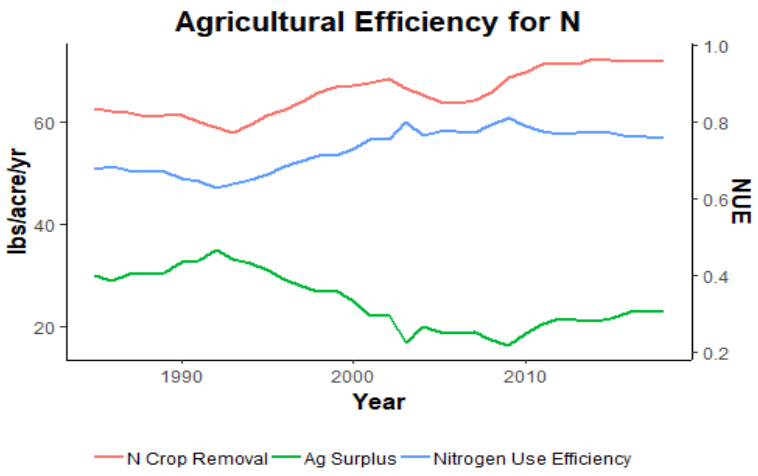

Figure 4. Crop N removal, nitrogen use efficiency, and agricultural surplus.

Reference: All data is taken or calculated from CAST (http://cast.chesapeakebay.net/) except for the variable population which is from the 2010 Census.

Lancaster County, PA

(Place holder) The following information provides details about various phosphorous inputs to the watershed for Lancaster, PA to help stakeholders identify the specific sources they need to control and understand how these sources have changed over time.

Animal manure applied is the largest agricultural P source.

Poultry waste has decreased over the period of record, wherase livestock waste increased. Ag fertilizer decreased over the years.

Phosphours load from municipal waste treatment plants reduced significantly between 1990-2000

Ag Surplus has been decreasing for most of the time period but has recently been increasing.

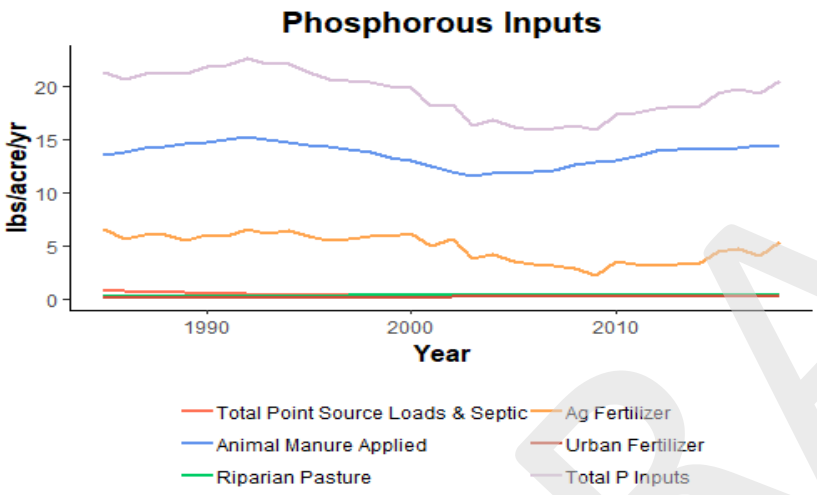

Figure 1. Time series of phosphorous inputs onto land and point source loads into streams from 1985 – 2018.

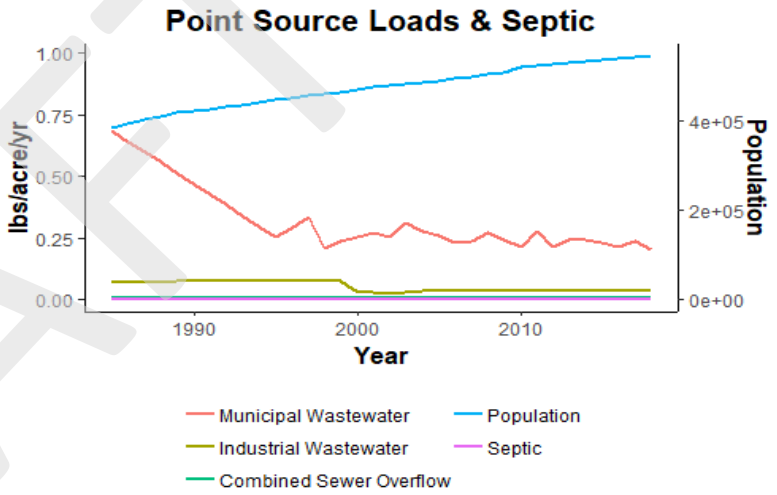

Figure 2. Various components of point source loads into rivers and streams.

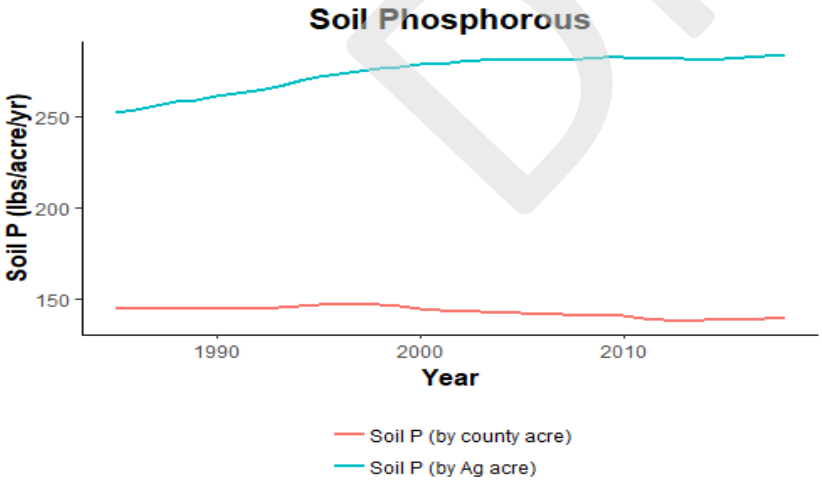

Figure 3. Time series of soil phosphorous.

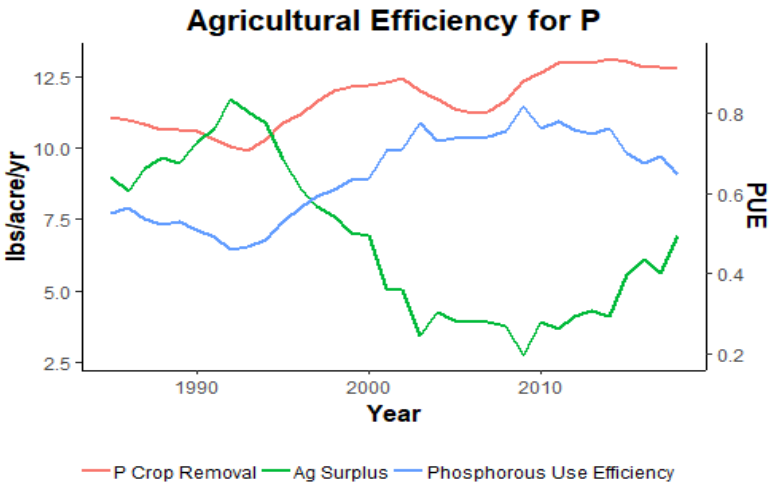

Figure 4. Crop P removal, phosphorous use efficiency, and agricultural surplus.

Reference: All data is taken or calculated from CAST (http://cast.chesapeakebay.net/) except for the variable population which is from the 2010 Census.