Working with Farmers to Improve Water Quality

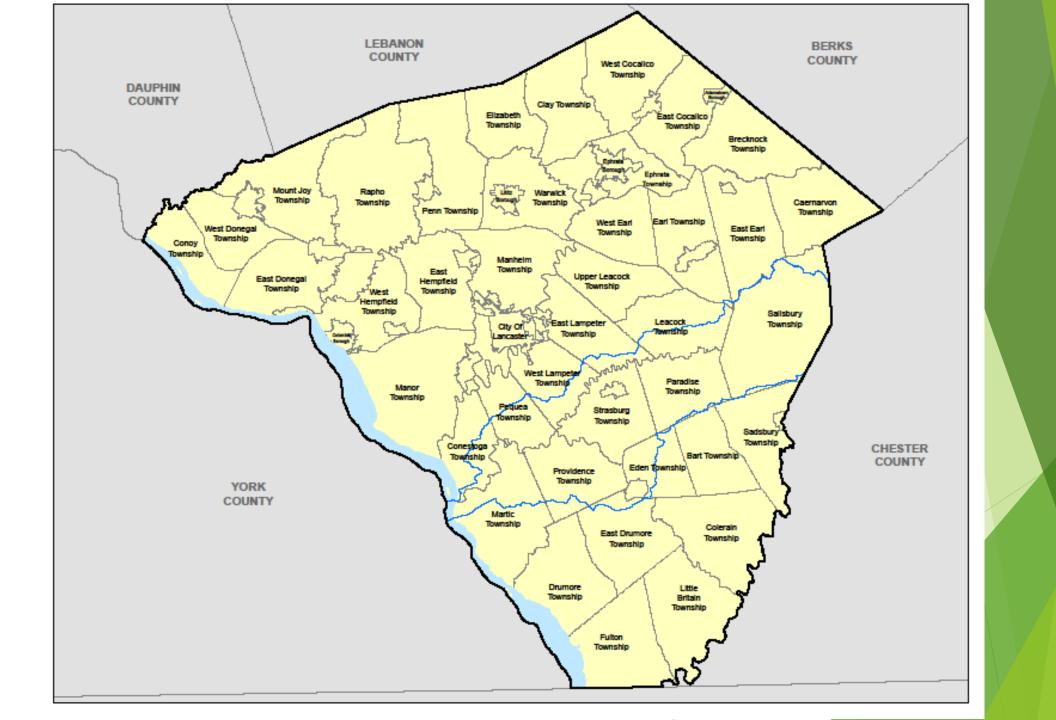
Jeb Musser Gordon Hoover Chris Sigmund Allyson Gibson Chris Thompson



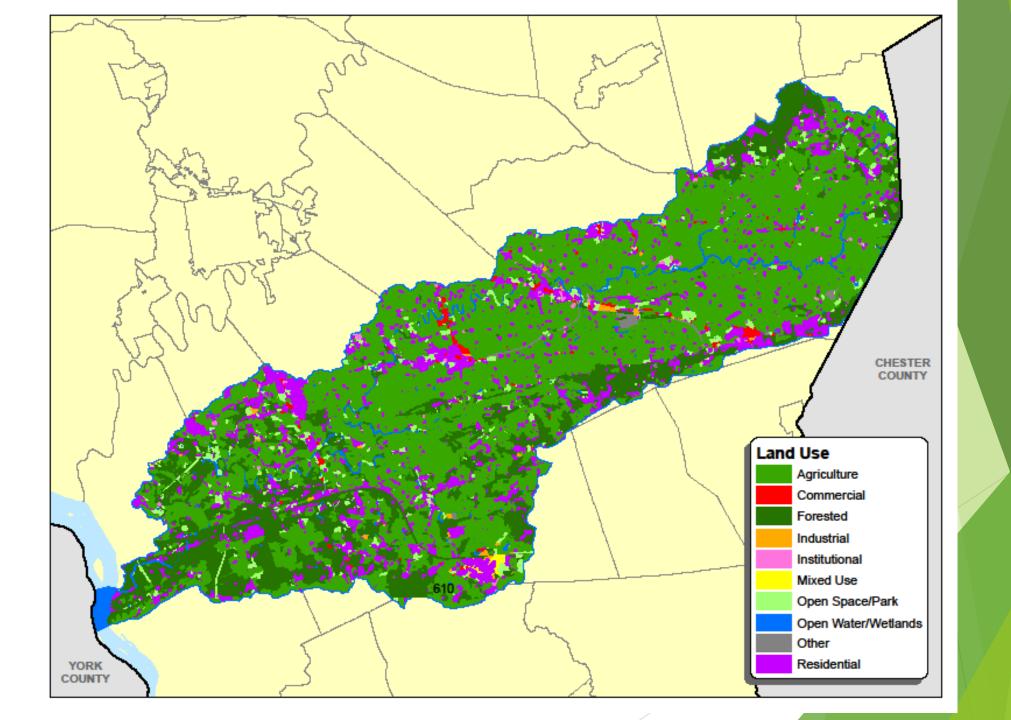












Blank Farm

► 75 acres

- Dairy Operation with support crops & tobacco
- Pre-project: inadequate manure storage, heavily degraded animal use areas & walkways, some erosion in cropland
- BMPs Implemented
 - Increased manure storage capacity
 - Improved roof structure & manure transfer system for handling manure
 - Improved animal walkways with geotextile & stone
 - New concrete & curbing in barnyard
 - New guttering & stormwater controls
 - Grassed waterway in crop field









Blank Farm

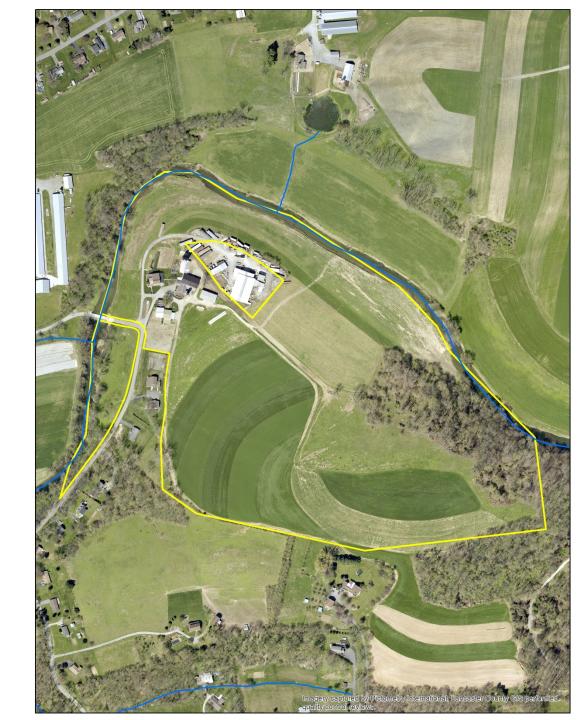
- Pollution Reductions over 6 years
 - Nitrogen 15,336 lbs
 - Phosphorus 5,850 lbs
 - Sediment 14,520 lbs



Glick Farm

61 acres

- Dairy Operation with support crops & tobacco
- Pre-project: inadequate manure storage (30 days capacity), heavily degraded animal trail, degraded barnyard & animal heavy-use areas
- BMPs Implemented
 - Increased manure storage capacity in existing pit & constructed new satellite manure storage
 - Concreted and curbed barnyard with manure storage underneath
 - Improved animal access lanes
 - Concreted & curbed animal heavy-use areas
 - Roof gutters/stormwater conrols









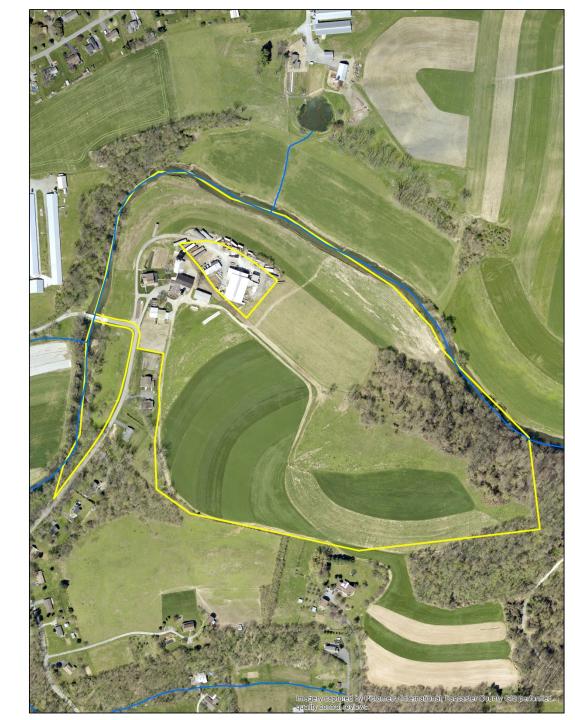
Circular Manure Storage Pit



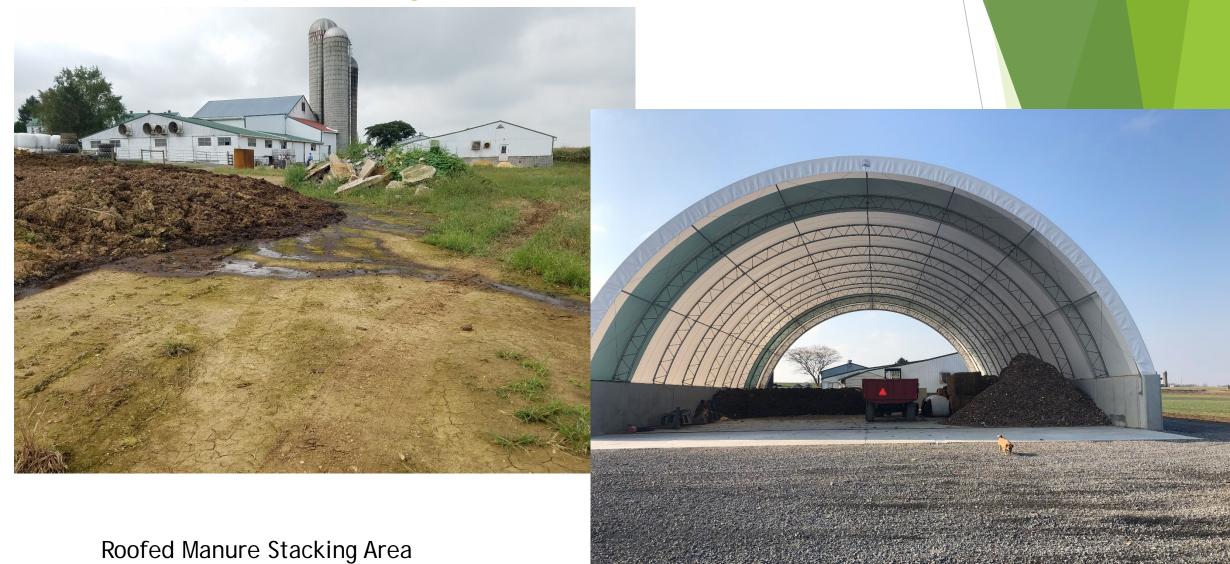
Concrete & Curbing

Glick Farm

- Pollution Reductions over 6 years
 - Nitrogen 14,472 lbs
 - Phosphorus 3,828 lbs
 - Sediment 25,800 lbs



Other Pequea Projects



Other Projects



Livestock Stream Crossing



Livestock Exclusion Fencing & Buffer Planting

Results from Pequea Creek Project

- Assisted 6 farmers with BMP Implementation
- Implemented 67 BMPs including stream buffer, no-till, concrete barnyard & heavy use area, manure storage unit, gutters & downspouts, stabilized cattle crossings, grassed waterways, terraces, and more.
- Annual reductions of 11,349 lbs. N, 5,536 lbs. P, & 121,080 lbs. S
- Price tag
 - ▶ \$383,744 NFWF
 - \$502,592 Match Dollars
 - \$886,336 Total Project Budget
 - Vast Majority for design, engineering, & construction of BMPs

Other Projects - "Preserve & Conserve"

Pairing farmland preservation with implementation of ag BMPs



Other Projects - "Preserve & Conserve"



Rectangular manure storage under heifer barn



Questions?

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