

# NISOURCE GAS DISTRIBUTION

## Impacts of Marcellus and Utica Shales

Columbia Gas of Ohio

Gas Supply & Planning

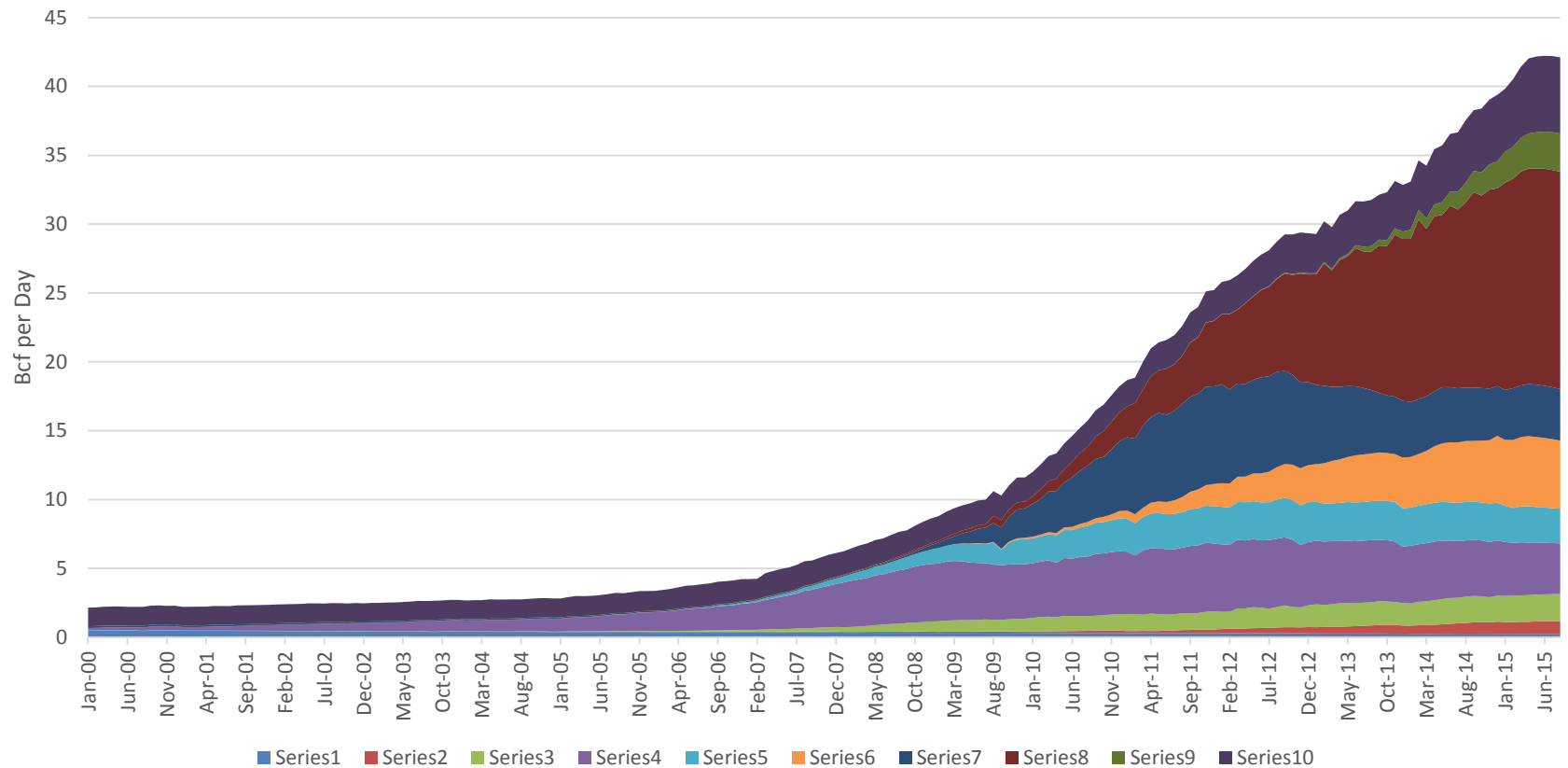
October 2015



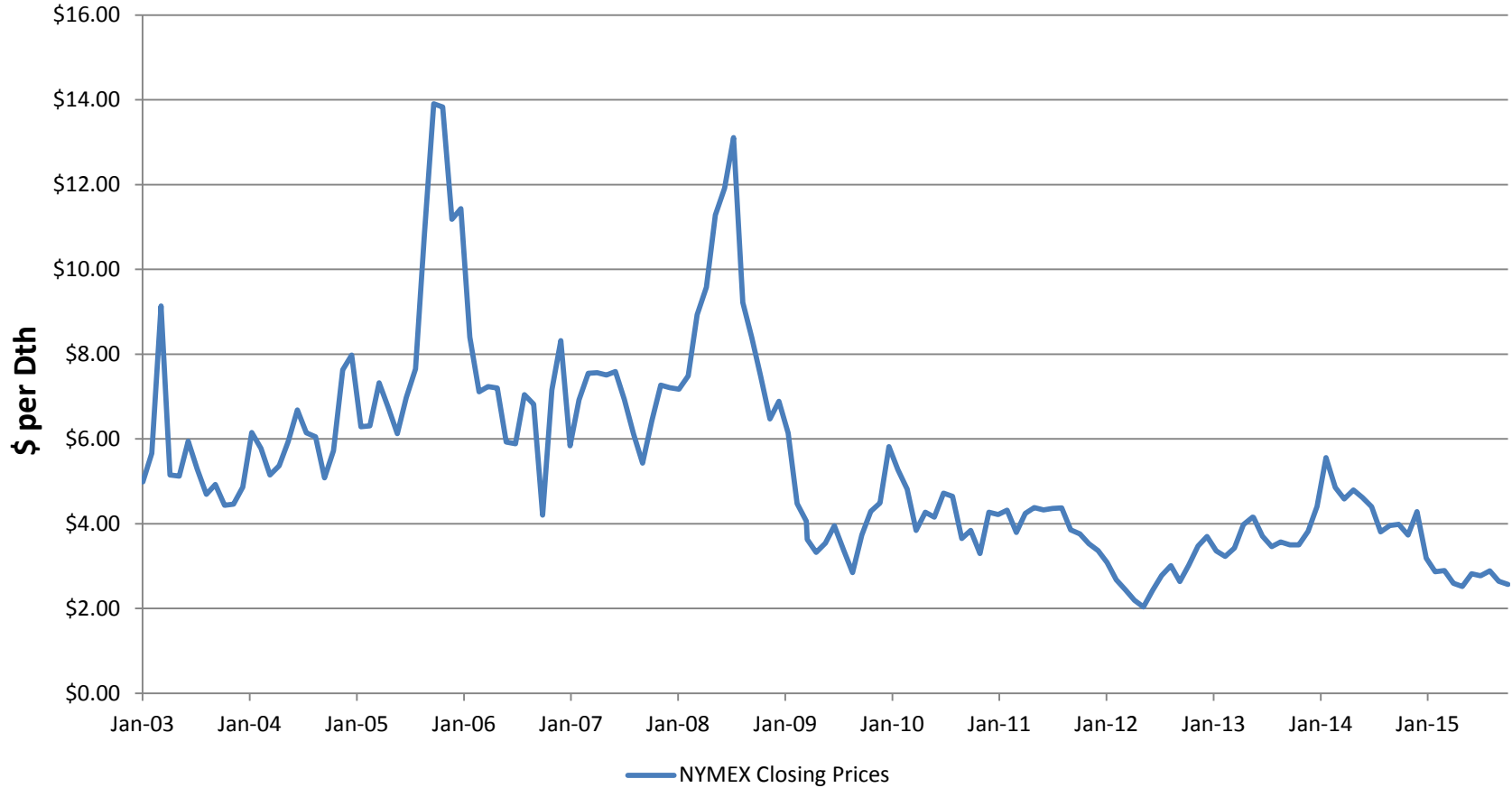


# History of US Shale Production

## US Shale Production

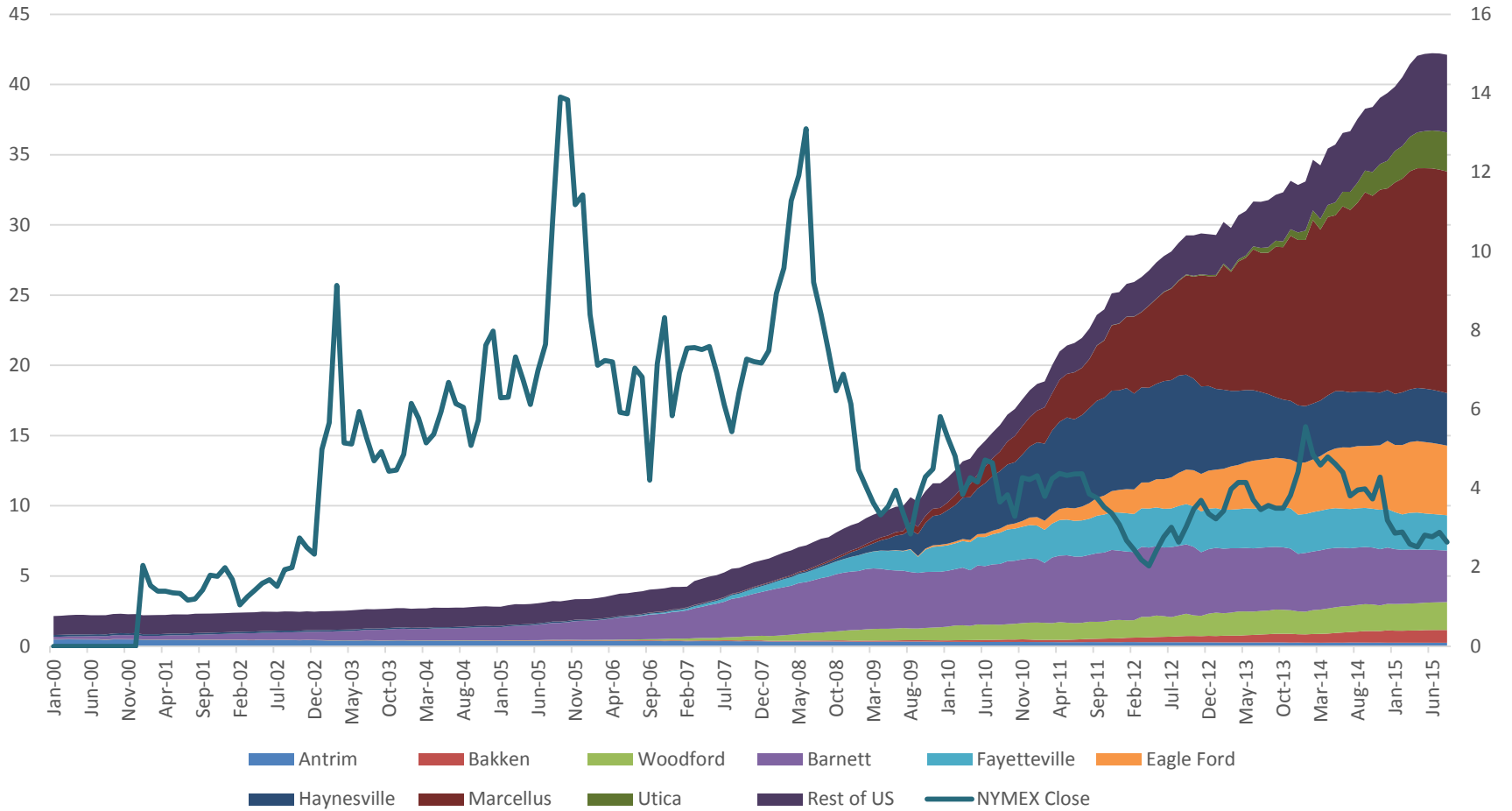


# NYMEX Closing Prices 1991 - Current





# Shale Production vs. NYMEX

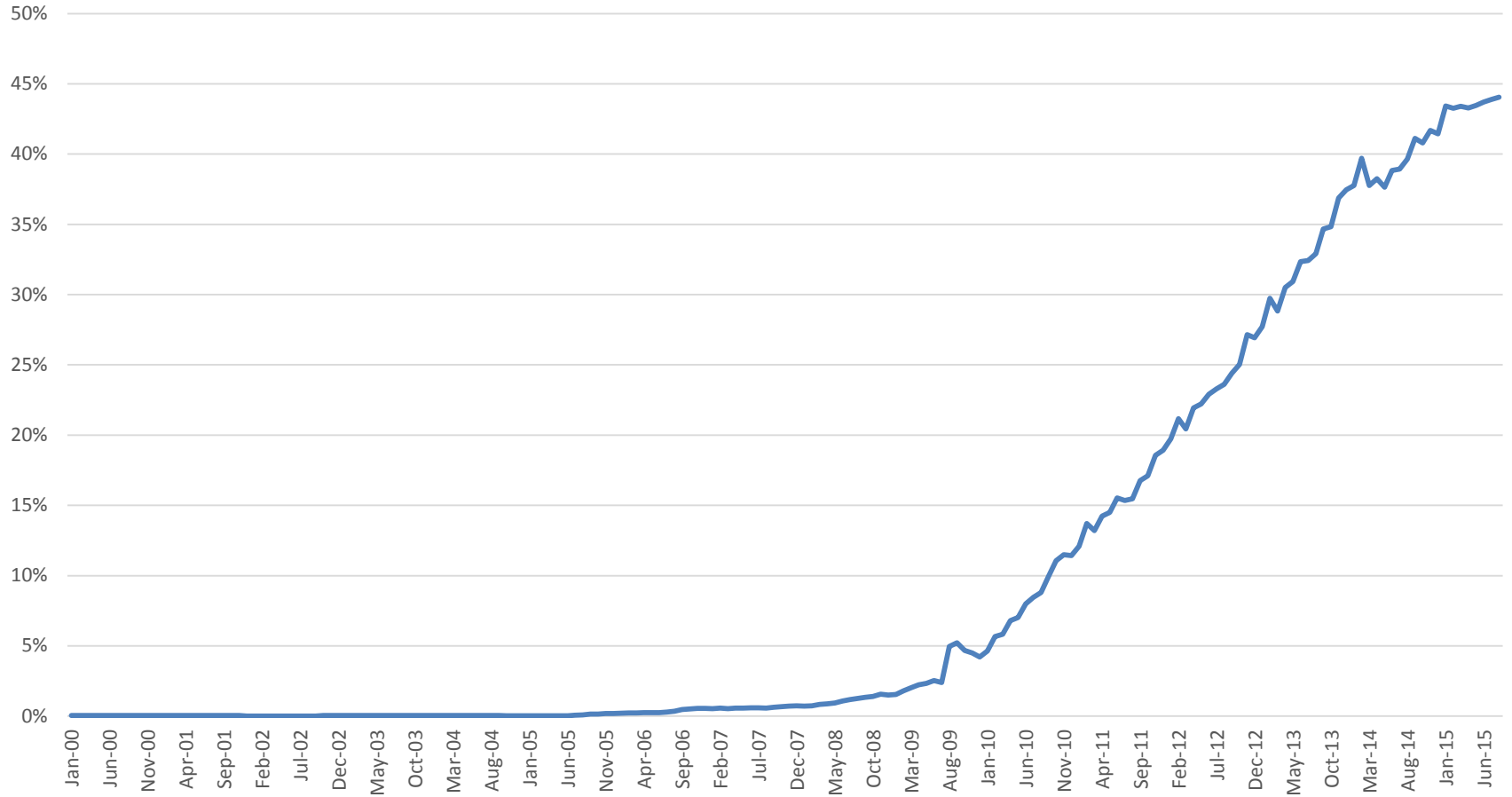


# NYMEX Close and Futures





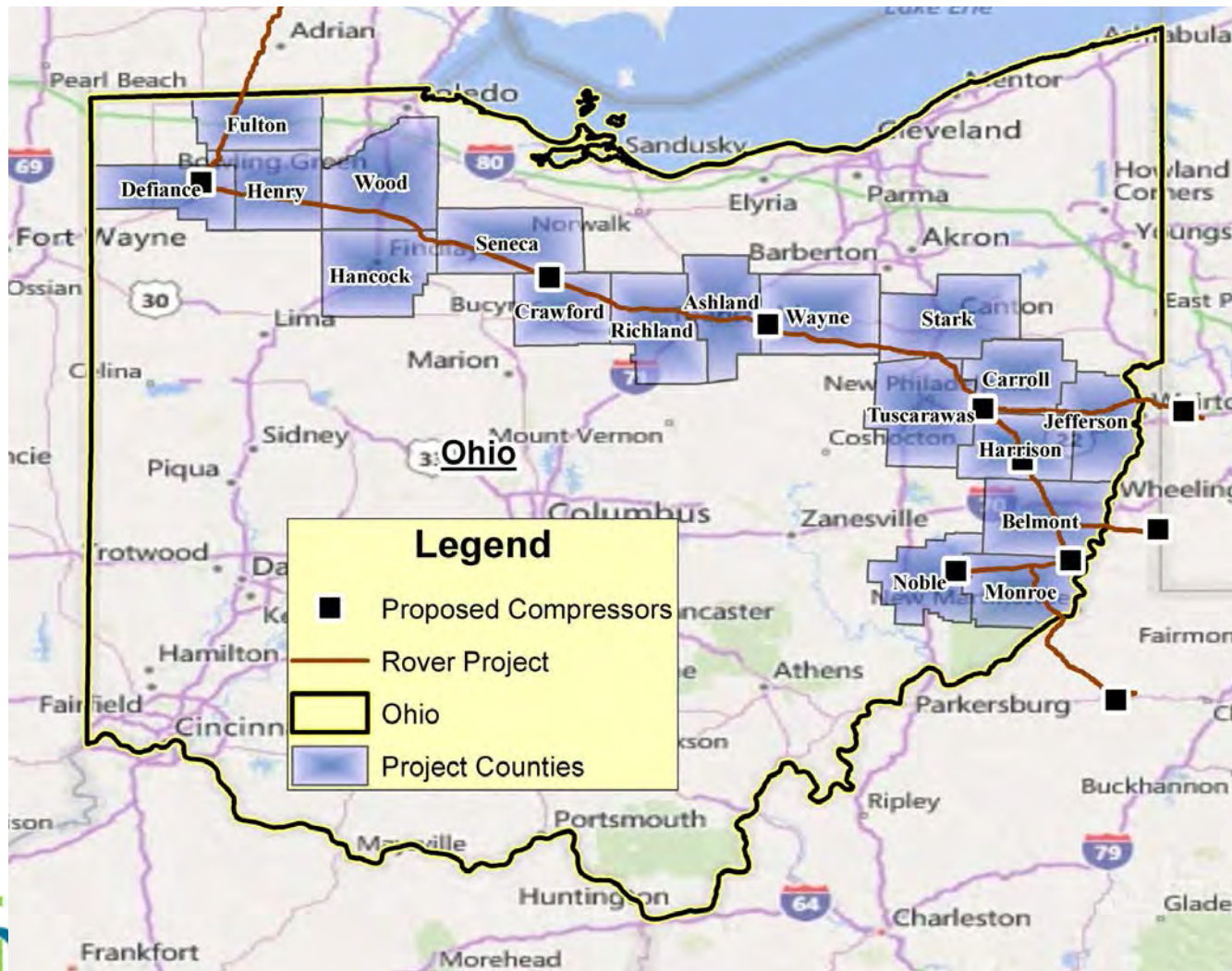
# Marcellus & Utica Shale – Percent of US Shale Production



# Current Pipeline Projects with Potential Impact on Ohio

- **ET Rover**
  - Capacity up to 3.25 Bcf/day
  - Planned dual 42” pipelines from eastern Ohio to Defiance, Ohio
  - Planned 42” pipeline from Defiance, Ohio to Livingston, MI
  - 570 miles across 18 Ohio counties
- **NEXUS**
  - Design Capacity: 1.5 Bcf/day
  - Planned 42” pipeline
  - Approximately 250 miles
- **Leach Expansion**
  - Design Capacity: 1.5 Bcf/day
  - Planned 30” & 36” pipeline
  - Approximately 130 miles

# ET Rover Proposed Route in Ohio

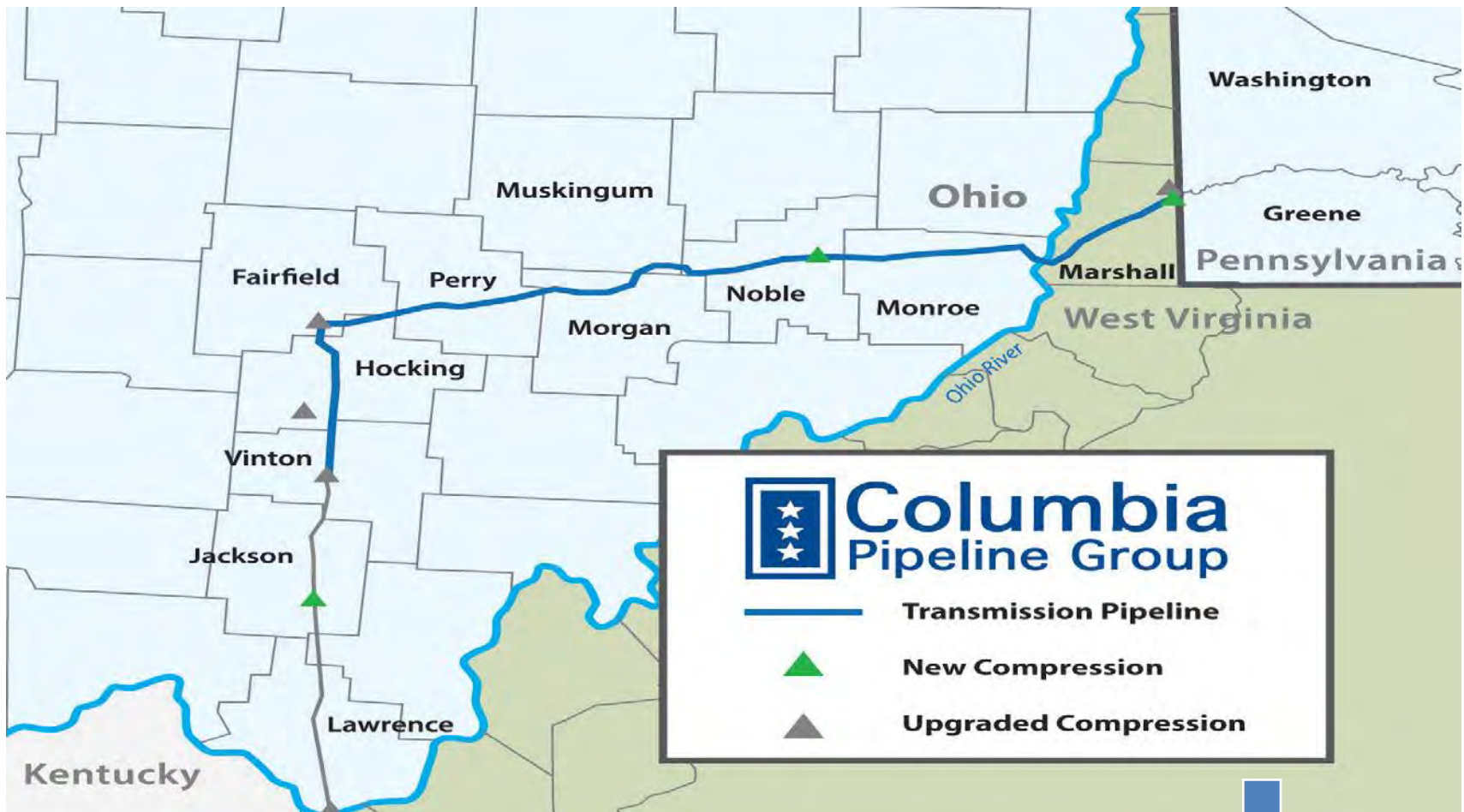




# NEXUS Pipeline Proposed Route



# Leach Express – Columbia Pipeline Group



# Impacts of Marcellus and Utica Shales

Thank You